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January 30, 2026

Submitted via electronic mail

Mr. Tony Peterson
Wisconsin Department of Natural Resources
141 NW Barstow St Ste 180
Waukesha, WI 53188-3789

**Subject: Annual CCR Landfill Report
I-43 Ash Disposal Facility (License #2853)
Wisconsin Power and Light Company
Sheboygan, WI**

Dear Mr. Peterson,

On behalf of Wisconsin Power and Light Company (WPL), Alliant Energy is submitting this Annual CCR Landfill Report in accordance with NR 506.20(3). The annual report consists of the following required documents:

- Annual CCR Fugitive Dust Control Report
- Annual Inspection Report [NR 506.20(2)(b)]
- Annual Groundwater Monitoring and Corrective Action Report [NR 507.15(3)(m)]
- Leachate Pipe Cleaning and Inspection Report [NR 506.07(5)(g)]

Please note that many of these items are also required by the federal Coal Combustion Residuals (CCR) Rule and have been prepared to satisfy federal requirements. Please call me if you have any questions or concerns regarding these documents and Wisconsin-specific requirements.

Thank you very much for your consideration of this initial submittal. If you have any questions or comments regarding this information, please call me at (608) 458-3853.

Regards,

A handwritten signature in black ink, appearing to read "Jeff Maxted", is written over a light blue horizontal line.

Jeff Maxted
Manager – Environmental Services
Alliant Energy

CC: Mark Peters – Wisconsin DNR

Nils Madden – Manager of Operations – Edgewater Generating Station
Megan Hawkins – Edgewater Generating Station
Phil Gearing, Tom Karwoski, Meg Blodgett – SCS Engineers

Annual CCR Fugitive Dust Control Report

Wisconsin Power and Light Company
Edgewater Generating Station (EDG) I-43 Ash Disposal Facility

Annual Coal Combustion Residuals (CCR) Fugitive Dust Control Report

November 14, 2025

This report applies to the following CCR unit at this facility:

CCR Landfill

EDG I-43 Ash Disposal Facility (Phase 3, Modules 1-2; Phase 4, Module 1)

Annual Coal Combustion Residuals (CCR) Fugitive Dust Control Report

November 14, 2025

Background

This report describes the actions taken to minimize fugitive CCR dust from CCR unit at this facility, provides a record of citizen complaints received since the previous report, and summarizes any corrective actions taken to minimize CCR fugitive dust. This report has been developed in accordance with 40 CFR 257.80(c).

Description of the Actions Taken to Control CCR Fugitive Dust

In accordance with the CCR Fugitive Dust Control Plan developed for this facility, the following measures were taken when needed to minimize CCR from becoming airborne:

- Establishing and enforcing a vehicle speed limit of 15 mph or less. Reduced speeds minimize fugitive dust generated from vehicle traffic.
- Covering all open-bodied vehicles that are transporting CCR to minimize the generation of fugitive dust during transport of CCR.
- Wetting CCR prior to placing the material in vehicles used for transport to the landfill. Moistened CCR is less likely to become airborne.
- Minimizing fall distances when handling or transferring CCR. The use of best practices when handling CCR can be used to minimize the generation of fugitive dust.
- Promptly collecting CCR that is observed in vehicle loading/unloading areas to minimize the potential for CCR to become airborne.
- Applying water directly to CCR using a water truck or irrigation system. Moistened CCR is less likely to become airborne.
- Suspending CCR management activities, including placement of CCR, during excessively windy conditions to minimize CCR from becoming airborne.
- Placement of soil and/or vegetated cover to minimize exposure of CCR in inactive landfill areas to conditions that could lead to fugitive dust.

Record of Citizen Complaints

Citizen complaints pertaining to fugitive dust are managed in accordance with Alliant Corporate Policy ENV-107. Specifically, the complaint must be reported to Environmental Services (1) via phone call and (2) in writing by submitting a completed Environmental Incident Report to Environmental Services within 10 business days. Citizen complaints are tracked within the Alliant Environmental Management Information System (“ENVIANCE”).

There were no citizen complaints at this facility related to CCR fugitive dust during this reporting period.

Summary of Corrective Measures Taken

Corrective actions in response to citizen complaints were not required during this reporting period.

Periodic Review of CCR Fugitive Dust Control Plan

The CCR Fugitive Dust Control Plan is reviewed annually, and updated as necessary, in conjunction with preparation of the Annual CCR Fugitive Dust Control Report [40 CFR 257.80(c)]. During the periodic review, staff evaluate each measure for controlling fugitive dust to ensure that it is still appropriate for minimizing CCR from becoming airborne at the facility, verify that the procedures for conditioning CCR prior to landfilling and the procedure for logging complaints are sufficient, and evaluate other operations changes at the facility to determine whether additional dust control measures should be added.

- END -

Annual Inspection Report

Annual CCR Landfill Inspection

Edgewater I-43 Ash Disposal Facility

Prepared for:

Wisconsin Power and Light Company
Edgewater Generating Station
3739 Lakeshore Drive
Sheboygan, Wisconsin 53081

SCS ENGINEERS

25225069.00 | December 9, 2025

2830 Dairy Drive
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PE CERTIFICATION

	I, Phillip E. Gearing, hereby certify that this Annual CCR Landfill Inspection Report meets the requirements of 40 CFR 257.84(b)(2), was prepared by me or under my direct supervision, and that I am a duly licensed Professional Engineer under the laws of the State of Wisconsin.	
		12/9/2025
	(signature)	(date)
	Phillip E. Gearing	
	(printed or typed name)	
	License number <u>E-45115</u>	
	My license renewal date is July 31, 2026.	
	Pages or sheets covered by this seal:	
		12/9/2025
	All – Annual CCR Landfill Inspection – Edgewater I43 Ash Disposal Facility	

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1.0 INTRODUCTION

1.1 PURPOSE

SCS Engineers (SCS) completed an annual inspection of the Wisconsin Power and Light Company (WPL) Edgewater I-43 Ash Disposal Facility (I-43) in Sheboygan, Wisconsin. The annual inspection was completed on July 25, 2025, in accordance with the U.S. Environmental Protection Agency (U.S. EPA) Coal Combustion Residuals (CCR) rule, 40 CFR 257 Subpart D, in particular 257.84(b)(1). According to 40 CFR 257.84(b)(1), an annual inspection by a qualified professional engineer is required for all existing and new CCR landfills and any lateral expansion of a CCR landfill. The purpose of the annual inspection is to ensure that the design, construction, operation, and maintenance of the CCR unit is consistent with recognized and generally accepted good engineering standards. The inspection must, at a minimum, include:

- A review of available information regarding the status and condition of the CCR unit, including, but not limited to, files available in the operating record (e.g., the results of inspections by a qualified person and results of previous annual inspections); and
- A visual inspection of the CCR unit to identify signs of distress or malfunction of the CCR unit.

This report has been prepared in accordance with 40 CFR 257.84(b)(2) to document the annual inspection.

1.2 BACKGROUND

The I-43 facility includes a closed CCR landfill, which consists of Phase 1 and Phase 2, and an active CCR landfill, which currently consists of an existing CCR unit in Phase 3 and Phase 4. The two landfills are located on the same property but are not contiguous. Phase 1 and Phase 2, which comprise an inactive CCR landfill that closed prior to October 15, 2015, are not the subject of this report. The inspection requirements in 40 CFR 257.84(b)(1) apply to the existing (active) CCR unit.

The active CCR landfill at I-43, includes the following modules:

- Phase 3, Module 1
- Phase 3, Module 2
- Phase 4, Module 1

The modules are managed as a single landfill by the facility and by the Wisconsin Department of Natural Resources (DNR). WPL previously clarified that Phase 3, Module 1; Phase 3, Module 2; and Phase 4, Module 1 are one existing CCR landfill under the federal CCR Rule, and this report reflects WPL's clarification.

The modules are used to describe the location of items observed during the inspection. At the time of the inspection, the active CCR landfill modules were in various stages of development and use as described in the table below.

Unit	CCR Rule Status	Basis for Status
Existing Active Landfill (Includes Phase 3, Module 1; Phase 3, Module 2; Phase 4, Module 1)	Existing CCR Landfill. Currently accepting CCR.	Filling is occurring in Phase 3, Module 2 and overlay from Phase 3, Module 2 is currently occurring on Phase 3, Module 1. Final or interim waste grades have been reached in some areas, and final or intermediate cover is present on portions of the CCR unit. Final closure per 257.102 will not be completed until final grades are reached throughout the CCR unit.
Contact Water Swale Module	Future New CCR Landfill module pending approval and acceptance of CCR.	Construction activities had commenced at time of inspection. Construction finished in November 2025 and awaiting DNR approval.

2.0 SUMMARY OF RESULTS AND RECOMMENDATIONS

SCS identified no deficiencies or releases during the annual inspection of the CCR unit at I-43. Deficiencies and releases must be remedied by the owner or operator as soon as feasible and the remedy documented.

SCS identified conditions during the annual inspection that are not considered deficiencies but have the potential to become a deficiency if left unaddressed. Each condition and the recommendations provided by SCS to address them are summarized in the table below. Based on correspondence with WPL in follow-up to the visual inspection, the recommended maintenance was performed and will continue to be performed during routine landfill maintenance.

These conditions, recommendations, and maintenance performed are described in further detail in **Section 4.0**.

Condition	CCR Unit / Location	Recommendation(s)	Report Section
Vegetation growth	- Separation berm between Phase 3, Module 2 - Phase 3, Module 2 drainage layer material (Southwest corner) and near leachate vault - Contact water swale Note: Contact Water Swale construction was started during the inspection. It was understood that vegetation material would be removed from the contact swale area during construction activities.	Remove vegetation, especially woody and deep-rooted vegetation, before it becomes established. [COMPLETED, REMAINING VEGETATION SPRAYED] Monitor during 7-day inspections. Continue to inspect and remove vegetation growth in drainage layer material and other areas during general maintenance.	4.3.2

Condition	CCR Unit / Location	Recommendation(s)	Report Section
Minor erosion and bare soil observed	North Boundary – Phase 3, Module 2 and Phase 3, Module 1 areas	Place topsoil, seed, and install erosion mat. [COMPLETED] Monitor during 7-day inspections. Continue to observe and maintain as necessary.	4.3.4
Exposed exterior toe drain geotextile	Southeast corner of Phase 4, Module 1	Add additional geotextile fabric, place rooting zone material / topsoil to match existing grades, place seed and erosion mat. [COMPLETED] Monitor during 7-day inspections. Continue to observe and maintain as necessary.	4.3.4

3.0 ANNUAL INSPECTION

Mr. Phillip Gearing of SCS completed an annual inspection of the active CCR landfill at I-43 on July 25, 2025. Mr. Gearing is a licensed professional engineer in Wisconsin and holds a Bachelor of Science degree in Geological Engineering. He has over 19 years of experience in the design, construction, and operation of solid waste disposal facilities. The scope of the annual inspection is described in **Sections 3.1 and 3.2**. The results of the annual inspection are discussed in **Section 4.0**.

3.1 OPERATING RECORD REVIEW

SCS reviewed the available information in the operating record for I-43. Information reviewed by SCS included operating record materials provided by WPL and the information posted on Alliant Energy's CCR Rule Compliance Data and Information website for the I-43 facility.

3.2 VISUAL INSPECTION

SCS completed a visual inspection of the I-43 landfill to identify signs of distress or malfunction of the CCR unit.

The visual inspection included observations of the following:

- CCR placement areas include active filling areas, intermediate cover areas, final cover areas, and exterior non-CCR berms or slopes.
- Leachate collection and removal system components including visible leachate drainage layer materials.

- Leachate and contact water run-off management features including swales, the storage basin, and the storage basin pumping system.
- Non-contact storm water run-on and run-off control features, including swales located adjacent to active fill areas but outside the landfill limits and the on-site storm water management basin.

4.0 INSPECTION RESULTS

The results of the annual inspection, along with a description of any deficiencies or releases identified during the visual inspection, are summarized in the following sections.

4.1 CHANGES IN GEOMETRY

No apparent changes in geometry were noted that would indicate distress or malfunction of the CCR unit since the previous annual inspection at the I-43 facility completed under 40 CFR 257.84(b)(1). All changes in geometry observed during the annual inspection were the result of planned CCR filling.

At the time of the visual inspection, CCR placement was ongoing in Phase 3, Module 2 and overlay from Phase 3, Module 2 is currently occurring on Phase 3, Module 1. Final or interim waste grades have been reached in some areas through the unit. Final cover or intermediate cover exists in areas where final waste grades have been reached, and intermediate cover exists in remaining interim grade areas that are awaiting future CCR placement.

4.2 CCR VOLUMES

The approximate volume of CCR contained in the CCR unit at the time of the inspection is summarized below. A description of how the estimate was developed and the sources used are also summarized below.

Unit	Estimated Volume of CCR in Place	Basis for Estimate and Source
Existing Active Landfill (Includes Phase 3, Module 1; Phase 3, Module 2; Phase 4, Module 1)	511,800 cubic yards	Estimated volume is: - Based on a July 31, 2025, existing conditions survey compared to approved base grades in Phase 3, Module 1 and documented drainage layer grades in Phase 3, Module 2. - Excludes final cover or intermediate cover material installed at time of survey. - Includes minor slope overfill within active area outside of final cover or intermediate cover. Note: Slope overfill areas are temporary and based on interim CCR grades. Areas of overfill will be rectified during connection/overlay with the constructed contact water swale module. - The July 31, 2025, CCR volume is approximated to be similar to the CCR volume in place during the July 25, 2025, inspection.

4.3 APPEARANCE OF STRUCTURAL WEAKNESS

The inspection included a review of the appearance of actual or potential structural weakness of the CCR unit. The visual inspection included a review of CCR fill areas including the top slopes, internal side slopes, external side slopes, and internal ramps/haul roads for the presence of the following conditions:

- Signs of surface movement or instability:
 - Sloughing, slumping, or sliding
 - Surface cracking
 - Slopes greater than three horizontal to one vertical (3H:1V)
 - Toe of slope bench movement
 - Evidence of inadequate compaction of exposed CCR
- Inappropriate vegetation growth
- Animal burrows
- Erosion damage
- Unusual surface damage caused by vehicle traffic

4.3.1 Signs of Surface Movement or Instability

No signs of surface movement or instability were noted during the inspection of the landfill.

4.3.2 Inappropriate Vegetation Growth

No inappropriate vegetation growth impacting the CCR unit was noted during the inspection, except as observed below:

- Vegetation growth was observed in the separation of berm drainage layer material between Phase 3, Module 2; the drainage layer material in the Phase 3, Module 2 southwest corner; and in the contact water swale.

SCS recommends the removal of vegetation, especially woody and deep-rooted vegetation before it becomes established, and these areas be monitored during the 7-day inspections. Vegetation growth in the drainage layer and other areas should continue to be inspected and removed during general maintenance.

- Dense vegetation growth in the exterior drainage swales and around features (toe drains, cleanouts, discharge structures, etc.) makes access for inspection more difficult. Regular vegetation maintenance is likely to aid in the identification of issues before they become significant. Additional vegetation maintenance could be beneficial for future weekly and annual inspections. This condition is not considered an operating deficiency, but SCS recommends woody vegetation and dense vegetation be spot removed, using hand trimmers around structures and performing additional mowing in swale areas of dense growth. These areas should be monitored during the 7-day inspections.

Vegetation growth was discussed with plant staff. The recommended vegetation maintenance has been performed based on observations during ongoing construction activities in follow-up to the visual inspection.

4.3.3 Animal Burrows

No animal burrows were noted during the inspection of the CCR unit.

4.3.4 Erosion Damage

The following erosion damage or the potential for erosion damage was noted during the inspection:

- Minor erosion and bare soil areas were observed along the north boundary of Phase 3, Module 2 and Phase 3, Module 1 areas. Placement of topsoil, seed, and erosion mat is recommended in the area. It is recommended that areas be monitored during 7-day inspections and maintained, as necessary.
- Intermittent areas of bare soil and thin vegetation were observed in Phase 3, Module 1 cover and the intermediate cover in Phase 3, Module 2. These areas appear to result from mowing scuffing or limited vegetation growth. While no erosion was observed, placement of additional topsoil, seed, and erosion mat is recommended to prevent potential future erosion. Areas should be monitored during 7-day inspections and maintained, as necessary.

Erosion and potential erosion areas were discussed with plant staff. The recommended maintenance has been performed based on observations during ongoing construction activities in follow-up to the visual inspection.

4.3.5 Unusual Surface Damage Caused by Vehicle Traffic

No unusual surface damage caused by vehicle traffic was noted during the inspection of the CCR unit.

4.4 DISRUPTIVE CONDITIONS

4.4.1 Existing Disruptive Conditions

4.4.1.1 Current Inspection

No existing conditions that were disrupting the operation and safety of the CCR unit were noted during the annual inspection.

4.4.1.2 Previous Inspection

No existing conditions that disrupted the operation and safety of the CCR unit were noted during the previous inspection.

4.4.2 Potentially Disruptive Conditions

4.4.2.1 Current Inspection

Exposed exterior toe drain geotextile was observed on the slope of the southeast corner of Phase 4, Module 1. Additional exposure could impact the operation of the toe drain system. It was recommended that additional geotextile fabric, rooting zone material, topsoil, seed and erosion mat were placed over the area.

The observation was discussed with plant staff. The recommended maintenance has been performed based on observations during ongoing construction activities in follow-up to the visual inspection. The area should be monitored during 7-day inspections and maintained, as necessary.

4.4.2.2 Previous Inspections

No potentially disruptive conditions to operation and safety of the CCR unit were noted during the previous annual inspection.

4.5 OTHER CHANGES SINCE PREVIOUS ANNUAL INSPECTION

No changes to site conditions that appear to have the potential to affect the stability or operation of the facility were noted during the inspection.

5.0 FUTURE INSPECTIONS

5.1 EXISTING CCR LANDFILL

As stated in 40 CFR 257.84(b)(4), the owner or operator of the CCR unit must conduct the inspection required by paragraphs (b)(1) and (2) of this section on an annual basis. The date of completing the inspection report is the basis for establishing the deadline to complete the next subsequent inspection. Any required inspection may be conducted prior to the required deadline, provided the

owner or operator places the completed inspection report into the facility's operating record within a reasonable amount of time. In all cases, the deadline for completing subsequent inspection reports is based on the date of completing the previous inspection report. The owner or operator has completed an inspection when the inspection report has been placed in the facility's operating record.

The next annual inspection of the existing landfill unit must be completed within 1 year of the placement of this inspection report in the operating record for the facility.

5.2 NEW CCR LANDFILLS AND LATERAL EXPANSIONS

For any newly constructed CCR modules (e.g., future Phases or Modules), the initial annual inspection must be completed within 14 months of the first receipt of CCR in the module, in accordance with 40 CFR 257.84(b)(3)(ii). Construction and placement activities should be documented, and preventive measures for drainage, erosion, and vegetation should be implemented before the initial inspection.

Annual Groundwater Monitoring and Corrective Action Report

2025 Annual Groundwater Monitoring and Corrective Action Report

Edgewater Generating Station
I-43 Ash Disposal Facility
Town of Wilson
Sheboygan County, Wisconsin

Prepared for:

Alliant Energy



SCS ENGINEERS

25225069.00 | January 30, 2026

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OVERVIEW OF CURRENT STATUS

Edgewater Generating Station, I-43 Ash Disposal Facility 2025 Annual Report

In accordance with §257.90(e)(6), this section at the beginning of the annual report provides an overview of the current status of groundwater monitoring and corrective action programs for the coal combustion residual (CCR) unit. Supporting information is provided in the text of the annual report.

Category	Rule Requirement	Site Status
Monitoring Status – Start of Year	(i) At the start of the current annual reporting period, whether the CCR unit was operating under the detection monitoring program in §257.94 or the assessment monitoring program in §257.95;	Detection
Monitoring Status – End of Year	(ii) At the end of the current annual reporting period, whether the CCR unit was operating under the detection monitoring program in §257.94 or the assessment monitoring program in §257.95;	Detection
Statistically Significant Increases (SSIs)	(iii) If it was determined that there was an SSI over background for one or more constituents listed in Appendix III to this part pursuant to §257.94(e):	
	(A) Identify those constituents listed in Appendix III to this part and the names of the monitoring wells associated with such an increase; and	<u>October 2024</u> None
	(B) Provide the date when the assessment monitoring program was initiated for the CCR unit.	<u>April 2025</u> Field pH: MW-306 Alternative Source Demonstration prepared for the April 2025 during 2025. Assessment monitoring not required.

Category	Rule Requirement	Site Status
Statistically Significant Levels (SSL) Above Groundwater Protection Standard (GPS)	(iv) If it was determined that there was an SSL above the groundwater protection standard for one or more constituents listed in Appendix IV to this part pursuant to §257.95(g) include all of the following:	Not applicable – Appendix IV sampling not required
	(A) Identify those constituents listed in Appendix IV to this part and the names of the monitoring wells associated with such an increase;	
	(B) Provide the date when the assessment of corrective measures was initiated for the CCR unit;	
	(C) Provide the date when the public meeting was held for the assessment of corrective measures for the CCR unit; and	
	(D) Provide the date when the assessment of corrective measures was completed for the CCR unit.	
Selection of Remedy	(v) Whether a remedy was selected pursuant to §257.97 during the current annual reporting period, and if so, the date of remedy selection; and	Not applicable – Site is in detection monitoring
Corrective Action	(vi) Whether remedial activities were initiated or are ongoing pursuant to §257.98 during the current annual reporting period.	Not applicable – Site is in detection monitoring

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1.0 INTRODUCTION

This 2025 Annual Groundwater Monitoring and Corrective Action Report was prepared to support compliance with the groundwater monitoring requirements of the Coal Combustion Residuals (CCR) Rule [40 Code of Federal Regulations (CFR) 257.50-107]. Specifically, this report was prepared to fulfill the requirements of 40 CFR 257.90(e). The applicable sections of the Rule are provided below in italics, followed by applicable information relative to the 2025 Annual Groundwater Monitoring and Corrective Action Report for the CCR Unit.

This report covers the period of groundwater monitoring from January 1, 2025, through December 31, 2025.

The groundwater monitoring system at the Edgewater (EDG) I-43 Ash Disposal Facility (ADF) monitors a single existing CCR unit:

- EDG I-43 Phase 3, Module 1 and 2; and Phase 4, Module 1 (existing CCR Landfill)

The monitoring system is designed to detect monitored constituents at the waste boundary of the I-43 ADF as required by 40 CFR 257.91(d). The groundwater monitoring system consists of two background wells and four downgradient monitoring wells (**Table 1** and **Figure 2**).

In 2025, an expansion of the CCR unit known as the EDG I-43 Contact Water Swale Module was under construction for future waste placement. The groundwater monitoring network will be updated in 2026 to accommodate the new disposal area.

2.0 BACKGROUND

To provide context for the annual report, the following background information is provided in this section of the report, prior to the annual report requirement sections:

- Geologic and hydrogeologic setting
- CCR Rule monitoring system

GEOLOGIC AND HYDROGEOLOGIC SETTING

2.1 Regional Information

2.1.1

For the purposes of groundwater monitoring, the Niagara Dolomite Aquifer is considered to be the uppermost aquifer unit, as defined under 40 CFR 257.53, at the I-43 ADF. The dolomite aquifer is underlain by the Maquoketa shale, which is a confining unit. The Maquoketa shale is underlain by the Cambrian-Ordovician sandstone aquifer. This sequence of sedimentary bedrock units is over 1,500 feet thick in the area of the I-43 ADF. The sedimentary sequence is underlain by Precambrian crystalline rocks that are not considered an aquifer in eastern Wisconsin. A summary of the regional hydrogeologic stratigraphy is presented in **Appendix A**.

An unconsolidated sand and gravel aquifer is present in some parts of Sheboygan County (Skinner and Borman, 1973) but does not appear laterally extensive.

Regional groundwater flow in the dolomite aquifer, in the vicinity of the site, is to the east or northeast. A map showing the regional water table elevations is included with the regional hydrogeologic information in **Appendix A**.

An evaluation was conducted in 2023 to assess the monitoring system coverage based on the apparent flow direction indicated by the potentiometric surface maps. The original downgradient compliance monitoring well locations were selected based on a regional flow direction to the east or northeast; however, the potentiometric surface maps indicate a potential flow path to the north. The mapped flow to the north is largely driven by the water level measured at MW-305. Two additional wells (MW-307 and MW-308) were installed in December 2025 to support additional evaluation of groundwater flow and monitoring system coverage at the site. These wells may be added to the groundwater monitoring network based on the results of groundwater flow direction evaluation incorporating data from these new wells. Well installation documentation for MW-307 and MW-308 will be finalized in 2026 and included in the 2026 annual report.

2.1.2 Site Information

Soils at the site are primarily clay with discontinuous layers of sand and silty sand to a depth of at least 100 feet. During drilling of the CCR wells, the unconsolidated materials were identified as consisting primarily of clay. Zones of sand and gravel are known to be present within the clay, but these appear to be discontinuous, and no nearby private wells screened within the unconsolidated material have been identified. Soils encountered in borings MW-301, MW-302, MW-303, and MW-304 were primarily lean clay, silty clay, and silty sand. The upper 70 feet of soils in boring MW-305 were similar, but in approximately the lower 40 feet above bedrock, sand was the primary soil type. The depth to bedrock in the five wells ranged from approximately 109 feet to 133 feet below ground surface (bgs), and the elevation of the top of bedrock ranged from approximately 568 feet above mean sea level (amsl) to 605 feet amsl. Additional well MW-306 was installed in soils similar to those observed in MW-301, MW-302, MW-303, and MW-304. The depth to bedrock at MW-306 was approximately 126 feet bgs. The boring logs, well construction, and well development forms for the I-43 ADF CCR monitoring wells are provided in **Appendix B**. All CCR monitoring wells are screened within the dolomite bedrock unit.

Shallow groundwater in the clay unit at the site generally flows east to west towards Weedens Creek, a tributary of the Sheboygan River, based on water levels measured under the state monitoring program. The flow direction to the west at the water table is consistent with previous water table maps prepared since the site was developed in the mid-1980s.

In the dolomite aquifer, groundwater generally flows to the north/northeast as shown in previous bedrock potentiometric groundwater maps; however, in the April 2025 groundwater map, MW-306 is a localized groundwater high and shows that the bedrock aquifer is flowing to the east/southeast, rather than the consistently observed north/northeast. Flow on the southern portion of the site flows north/northwest (**Figure 3**). The October 2025 groundwater map shows the typically observed groundwater flow direction to the north/northeast (**Figure 4**). The groundwater elevation data for the CCR monitoring wells are provided in **Table 3**. Calculated horizontal gradients and flow velocities for representative flow paths are provided in **Table 4**.

2.2 CCR RULE MONITORING SYSTEM

The groundwater monitoring system established in accordance with the CCR Rule consists of two upgradient (background) monitoring wells and four downgradient monitoring wells (**Table 1** and **Figure 2**). The background wells include MW-304 and MW-305. The downgradient compliance wells

include MW-301, MW-302, MW-303, and MW-306. Downgradient well MW-306 was installed in 2024 and was initially used for water level measurements only. MW-306 was subsequently added to the CCR groundwater monitoring system, and the network was recertified with this addition on April 14, 2025. The CCR Rule wells are installed in the upper portion of the dolomite aquifer. Well depths range from approximately 119 to 145 feet, measured from the top of the well casing.

3.0 §257.90(e) ANNUAL REPORT REQUIREMENTS

Annual groundwater monitoring and corrective action report. For existing CCR landfills and existing CCR surface impoundments, no later than January 31, 2018, and annually thereafter, the owner or operator must prepare an annual groundwater monitoring and corrective action report. For new CCR landfills, new CCR surface impoundments, and all lateral expansions of CCR units, the owner or operator must prepare the initial annual groundwater monitoring and corrective action report no later than January 31 of the year following the calendar year a groundwater monitoring system has been established for such CCR unit as required by this subpart, and annually thereafter. For CCR management units, the owner or operator must prepare the initial annual groundwater monitoring and corrective action report no later than January 31, 2029, and annually thereafter. For the preceding calendar year, the annual report must document the status of the groundwater monitoring and corrective action program for the CCR unit, summarize key actions completed, describe any problems encountered, discuss actions to resolve the problems, and project key activities for the upcoming year. For purposes of this section, the owner or operator has prepared the annual report when the report is placed in the facility's operating record as required by §257.105(h)(1). At a minimum, the annual groundwater monitoring and corrective action report must contain the following information, to the extent available:

3.1 §257.90(e)(1) SITE MAP

A map, aerial image, or diagram showing the CCR unit and all background (or upgradient) and downgradient monitoring wells, to include the well identification numbers, that are part of the groundwater monitoring program for the CCR unit;

A map of the site location is provided on **Figure 1**. A map with an aerial image showing the I-43 ADF CCR unit, and all background (or upgradient) and downgradient monitoring wells with identification numbers for the groundwater monitoring program, is provided as **Figure 2**.

3.2 §257.90(E)(2) MONITORING SYSTEM CHANGES

Identification of any monitoring wells that were installed or decommissioned during the preceding year, along with a narrative description of why those actions were taken;

An additional monitoring well MW-306 was installed north of Phase 3 of the landfill in 2024. This well was initially used for water level measurements only and was not sampled as part of the CCR program in 2024. MW-306 was added to the CCR groundwater monitoring system as a compliance monitoring well in a certification dated April 14, 2025.

Monitoring wells MW-307 and MW-308 were installed in December 2025. As of the end of this reporting period, these wells have not been added to the monitoring network at I-43. Evaluation of groundwater flow at the site, incorporating data from these new wells, is ongoing. Well installation documentation for MW-307 and MW-308 will be finalized in 2026 and included in the 2026 annual report.

3.3 §257.90(E)(3) SUMMARY OF SAMPLING EVENTS

In addition to all the monitoring data obtained under §§257.90 through 257.98, a summary including the number of groundwater samples that were collected for analysis for each background and downgradient well, the dates the samples were collected, and whether the sample was required by the detection monitoring or assessment monitoring programs;

Two semiannual groundwater sampling events were completed in April and October 2025 at the I-43 ADF. The samples were collected under the detection monitoring program, which was established on October 17, 2017. The April 2025 event also included the first round of background sampling for Appendix IV parameters at newly added monitoring well MW-306. A retest sampling was conducted in June 2025 for fluoride at MW-302 due to the exceedance of the upper prediction limit (UPL). The second and third rounds of background monitoring for MW-306 were completed in July and October 2025. A summary including the number of groundwater samples that were collected for analysis for each background and downgradient well, the dates the samples were collected, and whether the sample was required by the detection monitoring or assessment monitoring programs is included in **Table 2**.

Groundwater samples collected during the semiannual events, in April and October 2025, were analyzed for the Appendix III constituents. Appendix IV parameters were also collected at MW-306 for the first three rounds of background sampling.

The validation and evaluation of the October 2024 monitoring event was originally completed and transmitted to WPL on January 22, 2025. The validation and evaluation of the April/June/July 2025 monitoring event data was completed and transmitted to WPL on September 23, 2025. The validation and evaluation of the October 2025 monitoring event data was in progress at the end of 2025 and will be transmitted to WPL in 2026; therefore, the October 2025 monitoring results will be included in the 2026 annual report.

The sampling results for October 2024 and April/June/July 2025 are summarized in **Table 5**. Field parameter results for the October 2024 and April/June/July 2025 sampling events are provided in **Table 6**. The analytical laboratory reports for October 2024 and April/June/July 2025 are provided in **Appendix C**. Historical results for each monitoring well through July 2025 are summarized in **Appendix D**.

3.4 §257.90(E)(4) MONITORING TRANSITION NARRATIVE

A narrative discussion of any transition between monitoring programs (e.g., the date and circumstances for transitioning from detection monitoring to assessment monitoring in addition to identifying the constituent(s) detected at a statistically significant increase over background levels);

There were no transitions between monitoring programs in 2025. The I-43 ADF remained in the detection monitoring program.

In 2025, the monitoring results for the October 2024 and April/June/July 2025 monitoring events were evaluated for SSIs in detection monitoring parameters relative to background. For all parameters except boron, the comparison to background was based on a prediction limit approach, comparing the results to interwell UPLs based on background monitoring results from the upgradient wells (MW-304 and MW-305). To allow for natural spatial variability in the background concentrations, the statistical evaluation for boron was transitioned to an intrawell approach beginning with the October 2018 monitoring event. The comparison to background used intrawell

UPLs based on background monitoring results from the compliance wells (MW-301, MW-302, and MW-303). Collection of background data was completed for MW-306 in October 2024, April 2025, and July 2025. An intrawell UPL for boron at MW-306 will be calculated when at least four background results are available.

The interwell and intrawell UPLs were most recently updated in May 2024, using background data collected through November 2023 for interwell and intrawell UPLs. The May 2024 Statistical Analysis was included in the 2024 Annual CCR Report. The Unified Guidance for Statistical Analysis of Groundwater Monitoring Data at Resource Conservation and Recovery Act (RCRA) Facilities (U.S. Environmental Protection Agency, 2009; Section 5.3.1) recommends periodic updating of background for both intrawell and interwell analyses. For semiannual monitoring, an update interval of 2 to 3 years is recommended.

No SSIs were identified for the October 2024 event. Fluoride exceeded the UPL at MW-302 during the April 2025 event, but the June 2025 retest result was below the UPL, so there was no SSI for this parameter at MW-302. The only SSI identified for the April 2025 event and retest events was for field pH at MW-306. An ASD was completed for pH at MW-306 for the April 2025 event, and the evaluation indicates that the SSI for pH is likely due to the well not reaching equilibrium with the aquifer at the time of sampling. The ASD report for the April 2025 sampling event is provided in **Appendix E**.

3.5 §257.90(E)(5) OTHER REQUIREMENTS

Other information required to be included in the annual report as specified in §§257.90 through 257.98.

Additional potentially applicable requirements for the annual report, and the location of the requirement within the Rule, are provided in the following sections. For each cited section of the Rule, the portion referencing the annual report requirement is provided below in italics, followed by applicable information relative to the 2025 Annual Groundwater Monitoring and Corrective Action Report for the I-43 ADF CCR unit.

3.5.1 §257.90(e) General Requirements

For the preceding calendar year, the annual report must document the status of the groundwater monitoring and corrective action program for the CCR unit, summarize key actions completed, describe any problems encountered, discuss actions to resolve the problems, and project key activities for the upcoming year.

Status of Groundwater Monitoring and Corrective Action Program. The groundwater monitoring and corrective action program is currently in detection monitoring.

Summary of Key Actions Completed.

- Statistical evaluation and determination of SSIs for the October 2024 and April 2025 monitoring events.
- ASD report for the SSI identified from the April 2025 event and June and July 2025 resampling events.
- Two semiannual groundwater sampling and analysis events (April and October 2025).

- Certification of groundwater monitoring well network to include MW-306 as a compliance well (April 2025).
- Installation of additional monitoring wells into the bedrock, MW-307 and MW-308 (December 2025).

Description of Any Problems Encountered. No problems were encountered in 2025.

Discussion of Actions to Resolve the Problems. Not applicable.

Projection of Key Activities for the Upcoming Year (2026).

- Complete statistical evaluation and determination of any SSIs for the October 2025 and April 2026 monitoring events.
- If an SSI is determined, then within 90 days either:
 - Complete alternative source demonstration (if applicable), or
 - Establish an assessment monitoring program.
- Conduct two semiannual groundwater sampling and analysis events (April and October 2026).
- Complete work to put MW-307 and MW-308 in service including well development, hydraulic conductivity testing and documentation.
- Collect groundwater elevation data at MW-307 and MW-308 to evaluate addition as compliance wells into the groundwater monitoring system.
- Continue background sampling events for MW-306.
- Initiate of background monitoring of MW-307 and MW-308, if added as compliance wells.

3.5.2 §257.94(d) Alternative Detection Monitoring Frequency

The owner or operator must include the demonstration providing the basis for the alternative monitoring frequency and the certification by a qualified professional engineer in the annual groundwater monitoring and corrective action report required by §257.90(e).

Not applicable. No alternative detection monitoring frequency has been proposed.

3.5.3 §257.94(e)(2) Alternative Source Demonstration for Detection Monitoring

The owner or operator must also include the demonstration in the annual groundwater monitoring and corrective action report required by §257.90(e), in addition to the certification by a qualified professional engineer.

The Alternative Source Demonstration (ASD) report prepared to address the SSI observed for the April 2025 sampling event is provided in **Appendix E**. The ASD report is certified by a qualified professional engineer.

3.5.4 §257.95(c) Alternative Assessment Monitoring Frequency

The owner or operator must include the demonstration providing the basis for the alternative monitoring frequency and the certification by a qualified professional engineer in the annual groundwater monitoring and corrective action report required by §257.90(e).

Not applicable. Assessment monitoring has not been initiated.

3.5.5 §257.95(d)(3) Assessment Monitoring Results and Standards

Include the recorded concentrations required by paragraph (d)(1) of this section, identify the background concentrations established under §257.94(b), and identify the groundwater protection standards established under paragraph (d)(2) of this section in the annual groundwater monitoring and corrective action report required by §257.90(e).

Not applicable. Assessment monitoring has not been initiated.

3.5.6 §257.95(g)(3)(ii) Alternative Source Demonstration for Assessment Monitoring

The owner or operator must also include the demonstration in the annual groundwater monitoring and corrective action report required by §257.90(e), in addition to the certification by a qualified professional engineer.

Not applicable. Assessment monitoring has not been initiated.

3.5.7 §257.96(a) Extension of Time for Corrective Measures Assessment

The assessment of corrective measures must be completed within 90 days, unless the owner or operator demonstrates the need for additional time to complete the assessment of corrective measure due to site-specific conditions or circumstances. The owner or operator must obtain a certification from a qualified professional engineer attesting that the demonstration is accurate. The 90-day deadline to complete the assessment of corrective measures may be extended for longer than 60 days. The owner or operator must also include the demonstration in the annual groundwater monitoring and corrective action report required by §257.90(e), in addition to the certification by a qualified professional engineer.

Not applicable. Corrective measures assessment has not been initiated.

3.6 §257.90(E)(6) OVERVIEW

A section at the beginning of the annual report that provides an overview of the current status of groundwater monitoring and corrective action programs for the CCR unit.

The specific requirements for the overview under §257.90(e)(6) are listed and the information is provided at the beginning of this report, before the Table of Contents.

4.0 REFERENCE

Skinner, Earl L. and Ronald G. Borman, Water Resources of Wisconsin-Lake Michigan Basin, Department of the Interior United States Geological Survey Hydrogeologic Investigations Atlas HA-432, 1973.

Tables

- 1 Groundwater Monitoring Well Network
- 2 CCR Rule Groundwater Samples Summary
- 3 Water Level Summary
- 4 Horizontal Gradients and Flow Velocity
- 5 Groundwater Analytical Results Summary - October 2024
through July 2025
- 6 Groundwater Field Data Summary – October 2024
through July 2025

Table 1. Groundwater Monitoring Well Network
Edgewater I-43 Ash Disposal Facility / SCS Engineers Project #25225069.00

Monitoring Well	Location in Monitoring Network	Role in Monitoring Network
MW-301	Downgradient	Compliance
MW-302	Downgradient	Compliance
MW-303	Downgradient	Compliance
MW-304	Upgradient	Background
MW-305	Upgradient	Background
MW-306	Downgradient	Compliance

Last revision by: LH
 Checked by: RM

Date: 11/12/2025
 Date: 11/24/2025

Table 2. CCR Rule Groundwater Samples Summary
Edgewater I-43 Ash Disposal Facility / SCS Engineers Project #25225069.00

Sample Dates	Compliance Wells				Background Wells	
	MW-301	MW-302	MW-303	MW-306	MW-304	MW-305
April 21-23, 2025	D	D	D	B-D	D	D
June 10, 2025	--	D-R	--	--	--	--
July 21, 2025	--	--	--	B-D	--	--
October 6-7, 2025	D	D	D	B-D	D	D
Total Samples	2	3	2	3	2	2

Abbreviations:

D = Required by Detection Monitoring Program

D-R = Detection Monitoring Retest Sample

B-D = Background Sampling and Detection Monitoring

-- = Not Sampled

Last revision by:	<u>LH</u>	Date: <u>11/12/2025</u>
Checked by:	<u>RM</u>	Date: <u>12/1/2025</u>

Table 3. Water Level Summary
WPL - I43 / SCS Engineers Project #25225069.00

Well Number	Ground Water Elevation in feet above mean sea level (amsl)					
	MW-301	MW-302	MW-303	MW-304	MW-305	MW-306
Measurement Date						
April 26, 2016	653.54	653.56	653.59	655.90	--	NI
June 20, 2016	652.01	651.89	651.80	653.79	--	NI
August 9, 2016	649.68	649.30	649.37	651.55	--	NI
October 19, 2016	652.32	652.38	652.18	654.00	--	NI
December 19, 2016	652.85	652.79	652.82	654.26	--	NI
January 5, 2017	652.86	652.82	652.80	654.15	--	NI
January 23, 2017	652.98	664.97*	652.92	654.37	--	NI
February 23, 2017	653.14	653.10	653.10	654.49	658.02	NI
April 7, 2017	654.43	654.72	654.55	654.85	659.65	NI
June 6, 2017	654.11	654.12	654.14	655.70	659.70	NI
August 1, 2017	652.64	652.55	652.50	654.49	658.54	NI
October 23, 2017	652.03	652.05	652.03	653.65	657.22	NI
April 3, 2018	651.28	651.25	651.30	652.86	656.24	NI
October 4, 2018	650.71	650.70	650.70	652.26	655.89	NI
April 8-9, 2019	653.06	654.06	654.06	655.59	659.03	NI
October 8, 2019	653.26	653.21	653.27	654.77	658.77	NI
November 26, 2019	--	--	655.56	--	--	NI
April 7, 2020	656.59	656.47	656.46	658.16	661.58	NI
May 20, 2020	--	655.81	--	--	--	NI
October 13, 2020	652.16	652.17	652.20	654.17	658.08	NI
December 18, 2020	653.91	653.88	--	--	--	NI
April 13, 2021	654.56	654.57	654.53	656.36	659.69	NI
June 16, 2021	649.78	649.75	--	--	--	NI
October 26, 2021	650.76	650.88	650.90	652.54	655.86	NI
April 11-13, 2022	651.65	651.62	651.58	653.08	657.58	NI
June 16, 2022	--	650.55	--	--	--	NI
October 4, 2022	648.87	648.85	648.89	650.51	654.40	NI
February 14, 2023	651.61	651.60	651.61	653.17	656.25	NI
March 22, 2023	652.44	652.43	652.42	654.04	657.48	NI
April 24-25, 2023	653.26	653.25	653.31	654.83	658.22	NI
May 25, 2023	651.28	651.24	651.30	653.17	657.54	NI
June 26, 2023	648.06	648.05	648.07	649.86	655.07	NI
July 26, 2023	647.08	647.02	647.17	649.15	652.09	NI
October 11, 2023	648.65	648.67	648.65	650.24	654.22	NI
November 14, 2023	649.98	649.97	649.95	651.37	654.89	NI
November 14, 2023 elevations based on re-surveyed TOC	650.21	650.21	650.17	651.52	655.19	NI
April 15, 2024	652.95	652.93	652.96	654.82	658.53	NI
July 19, 2024	653.41	653.41	653.39	655.04	659.29	--
August 8, 2024	650.96	650.98	650.96	653.07	657.85	651.58
October 2, 2024	650.21	650.48	650.15	652.01	656.60	650.47
January 16, 2025	652.30	652.34	652.32	653.92	657.50	652.27
April 21, 2025	653.23	653.24	653.49	655.04	658.61	656.73
April 23, 2025	652.89	--	--	--	--	--
June 10, 2025	--	653.36	--	--	--	--
July 21, 2025	--	--	--	--	--	655.05
October 6-7, 2025	649.10	649.08	649.06	650.94	655.50	649.81

Notes: -- = not measured

*: The calculated groundwater elevation at MW-302 on January 23, 2017 appears to reflect an error in recording the pre-purge

Created by: RM
 Last rev. by: RM
 Checked by: NLB

Date: 1/10/2020
 Date: 11/13/2025
 Date: 11/14/2025

Table 4. Horizontal Gradients and Flow Velocity
Edgewater I-43 Ash Disposal Facility / SCS Engineers Project #25225069.00
January - December 2025

Sampling Dates	Flow Path A - North				
	h1 (ft)	h2 (ft)	Δl (ft)	Δh/Δl (ft/ft)	V (ft/d)
April 21 & 23, 2025	654.00	653.24	750	0.001	0.01
October 6-7, 2025	650.00	649.00	564	0.002	0.02

Wells	K Value (ft/d)	K Value (ft/d)
MW-301	1.7E-03	4.9
MW-302	4.8E-03	14
MW-303	6.8E-03	19
MW-306	6.1E-06	0.017
Geometric Mean	3.8E-03	2

Assumed Porosity, n
0.25

Groundwater flow velocity equation: $V = [K*(\Delta h/\Delta l)] / n$

ft = feet

ft/d = feet per day

K = hydraulic conductivity

n = effective porosity

V = groundwater flow velocity

h1, h2 = point interpreted groundwater

elevations at locations 1 and 2

Δl = distance between location 1 and 2

Δh/Δl = hydraulic gradient

Note:

1. See Figures 3 and 4 for velocity calculation flow path locations.

Last revision by: NLB

Checked by: LH

Date: 12/4/2025

Date: 12/4/2025

Table 5. Groundwater Analytical Results Summary - October 2024 through July 2025
Edgewater I-43 Ash Disposal Facility, Sheboygan, WI / SCS Engineers Project #25225069.00

Parameter Name	Interwell UPL		Background Wells				Compliance Wells												
			MW-304		MW-305		MW-301			MW-302			MW-303			MW-306			
			10/2/2024	4/21/2025	10/2/2024	4/21/2025	Intrawell UPL	10/2/2024	4/23/2025	Intrawell UPL	10/2/2024	4/21/2025	6/10/2025	Intrawell UPL	10/2/2024	4/21/2025	Intrawell UPL	4/21/2025	7/21/2025
Groundwater Elevation, ft amsl			652.01	655.04	656.60	658.61		650.21	653.23		650.48	653.24	653.36		650.15	653.49		656.73	655.05
Appendix III																			
Boron, ug/L			89.4	85.3	61.3	57.4	182	130	117	148	126	120	--	99.9	83.0	78.6	NA ⁽⁴⁾	534	193
Calcium, ug/L	103,000		21,400	22,800	89,600	81,500		24,300	23,300		28,200	25500	--		28,700	26400		709,000	24,600
Chloride, mg/L	24.9		2.7	2.7	31.1	M0		3.3	3.0		4.0	5.3	--		3.8	3.7		14.6	J,D3
Fluoride, mg/L	0.76		0.49	0.45	0.78	0.73		0.65	0.69		0.75	0.79	0.71		0.63	0.66		<1.9	D3
Field pH, Std. Units	8.32		7.85	8.08	7.33	7.61		7.72	8.08		7.75	8.09	7.81		7.72	8.04		8.69	8.37
Sulfate, mg/L	140		17.4	16.7	116	M0		10.3	10.5		19.4	32.4	--		24.7	23		124	118
Total Dissolved Solids, mg/L	604		226	218	504	590		200	190		192	280	--		266	254		820	426
Appendix IV																			
Antimony, ug/L	NE	6	--	--	--	--		--	--		--	--	--		--	--		3.5	J,D3
Arsenic, ug/L	NE	10	--	--	--	--		--	--		--	--	--		--	--		40.3	3.3
Barium, ug/L	NE	2000	--	--	--	--		--	--		--	--	--		--	--		1050	55.8
Beryllium, ug/L	NE	4	--	--	--	--		--	--		--	--	--		--	--		9	<0.25
Cadmium, ug/L	NE	5	--	--	--	--		--	--		--	--	--		--	--		2.1	J,D3
Chromium, ug/L	NE	100	--	--	--	--		--	--		--	--	--		--	--		501	4.9
Cobalt, ug/L	NE	6	--	--	--	--		--	--		--	--	--		--	--		81	1.1
Fluoride, mg/L	NE	4	--	--	--	--		--	--		--	--	--		--	--		<1.9	D3
Lead, ug/L	NE	15	--	--	--	--		--	--		--	--	--		--	--		97.5	1.2
Lithium, ug/L	NE	40	--	--	--	--		--	--		--	--	--		--	--		309	17.8
Mercury, ug/L	NE	2	--	--	--	--		--	--		--	--	--		--	--		0.17	J
Molybdenum, ug/L	NE	100	--	--	--	--		--	--		--	--	--		--	--		114	<0.099
Selenium, ug/L	NE	50	--	--	--	--		--	--		--	--	--		--	--		<3.2	D3
Thallium, ug/L	NE	2	--	--	--	--		--	--		--	--	--		--	--		1.8	J,D3
Radium 226/228 Combined, pCi/L	NE	5	--	--	--	--		--	--		--	--	--		--	--		2.53	2.39

30.8 Yellow highlighted cell indicates the compliance well result exceeds the GPS value. This site is not in Assessment Monitoring and a GPS exceedance does not signify the parameter is present at a Statistically Significant Level (SSL) above the GPS. Site-specific GPS values have not been calculated at this site to date.

4.4 Blue shaded cell indicates the compliance well result exceeds the UPL (background) and the Limit of Quantitation (LOQ).

Abbreviations:

UPL = Upper Prediction Limit
 SSL = Statistically Significant Increase
 -- = Not Analyzed
 NE = Not Established

ug/L = micrograms per liter
 mg/L = milligrams per liter
 LOQ = Limit of Quantitation
 LOD = Limit of Detection

Notes:

J = Estimated concentration at or above the LOD and below the LOQ.
 M0 = Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
 D3 = Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

Notes:

1. An individual result above the UPL does not constitute an SSL above background. See the accompanying letter text for identification of statistically significant results.
2. Interwell UPLs calculated based on results from background wells MW-304 and MW-305. Interwell UPLs based on 1-of-2 retesting approach. Interwell UPLs were calculated with background results from the May 2016 through the October 2020 sampling event. Interwell UPLs for calcium, fluoride, field pH, and TDS were updated in 2024 to include background results through November 2023.
3. Following the completion of the April 2018 Alternative Source Demonstration (ASD) Report, dated October 31, 2018, the statistical method for evaluating boron data at the three compliance monitoring wells was modified to an intrawell approach. Intrawell UPLs were calculated using results from the May 2016 through the April 2020 sampling events. Intrawell UPLs were updated in 2024 to include background results through November 2023.
4. Intrawell UPL for boron at MW-306 will be calculated once four sampling rounds are completed.

Created by: NDK Date: 10/27/2022
 Last revision by: MDB Date: 12/23/2025
 Checked by: RM Date: 12/29/2025

I:\25225069.00\Deliverables\2025 - Annual CCR Report\Tables\Table 5 - GW Analytical Summary.xlsx|Table

Table 6. Groundwater Field Data Summary - October 2024 through July 2025
Edgewater I-43 Ash Disposal Facility / SCS Engineers Project #25225069.00

Well	Sample Date	Groundwater Elevation (feet)	Field Temperature (deg C)	Field pH (Std. Units)	Oxygen, Dissolved (mg/L)	Field Specific Conductance (umhos/cm)	Field Oxidation Potential (mV)	Turbidity (NTU)
MW-301	10/2/2024	650.21	12.0	7.72	0.78	351	665	22.4
	4/23/2025	653.23 ⁽¹⁾	9.8	8.08	0.97	369	95	20.6
MW-302	10/2/2024	650.48	13.1	7.75	1.25	401	631	11.49
	4/21/2025	653.24	9.4	8.09	1.07	444	-24	7.05
	6/10/2025	653.36	11.5	7.81	1.97	543	134	6.25
MW-303	10/2/2024	650.15	12.3	7.72	2.28	453	751	0.27
	4/21/2025	653.49	9.4	8.04	2.26	456	28	1.08
MW-304	10/2/2024	652.01	10.7	7.85	1.22	406	623	20.4
	4/21/2025	655.04	9.3	8.08	0.92	412	-53	5.46
MW-305	10/2/2024	656.60	13.9	7.33	2.74	879	575	3.09
	4/21/2025	658.61	9.2	7.61	0.99	936	-75	3.20
MW-306	4/21/2025	656.73	10.0	8.69	0.19	622	-155	--
	7/21/2025	655.05	13.3	8.37	0.79	626	15	117

Notes:

-- = Not recorded

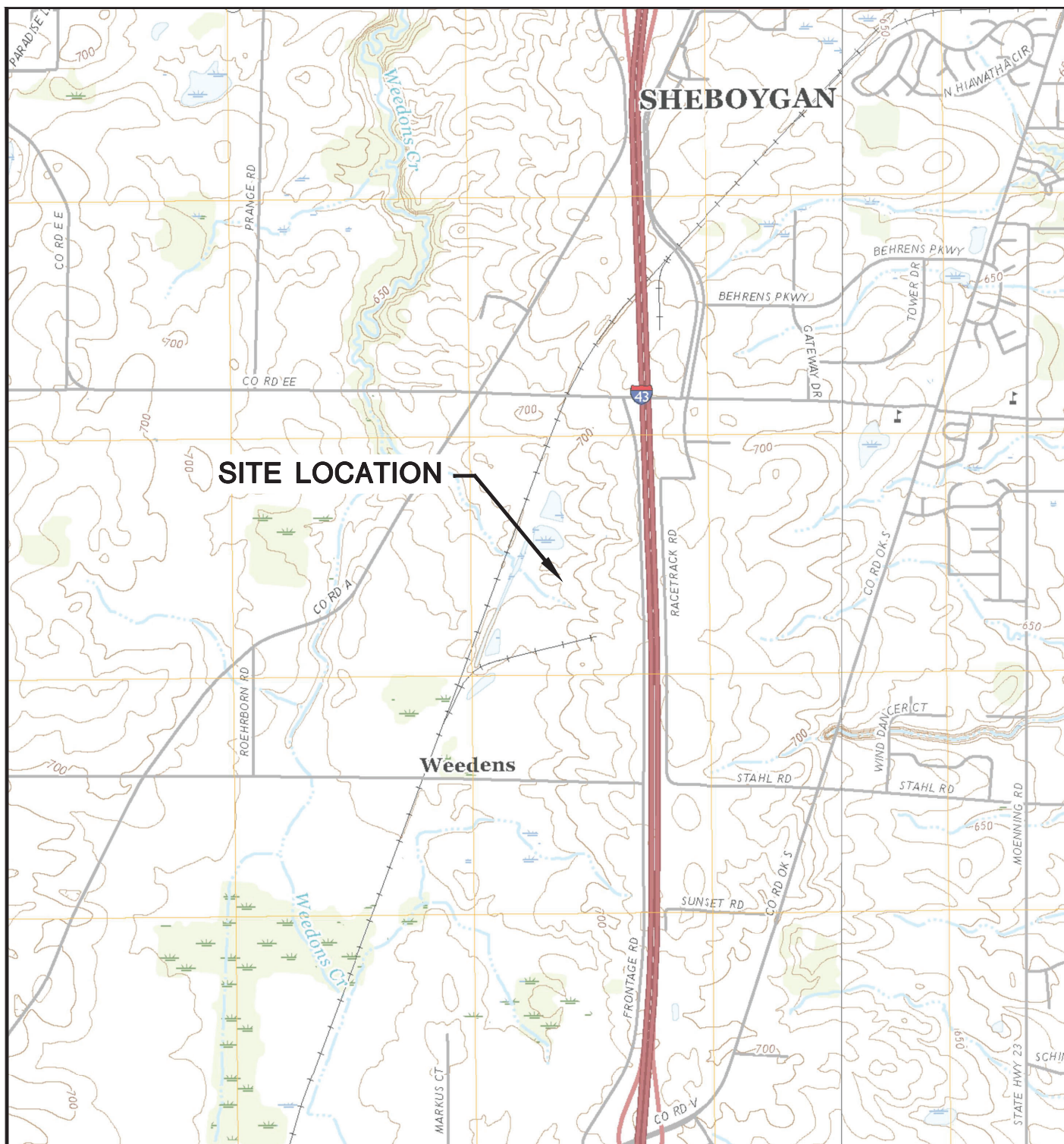
1. Groundwater elevation at MW-301 was measured 4/21/2025.

Last revision by: LH
Checked by: RM

Date: 11/12/2025
Date: 12/2/2025

Figures

- 1 Site Location Map
- 2 Site Plan and Monitoring Well Locations
- 3 Bedrock Potentiometric Surface Map – April 2025
- 4 Bedrock Potentiometric Surface Map – October 2025



SHEBOYGAN FALLS QUADRANGLE
WISCONSIN-SHEBOYGAN CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)
2018
SCALE: 1" = 2,000'



CLIENT WISCONSIN POWER AND LIGHT CO. 3739 LAKESHORE DRIVE SHEBOYGAN, WI 53081	SITE ALLIANT ENERGY I-43 ASH DISPOSAL FACILITY TOWN OF WILSON, WI	SITE LOCATION MAP	
PROJECT NO. 25219069.00	DRAWN BY: BSS	SCS ENGINEERS 2830 DAIRY DRIVE MADISON, WI 53718-6751 PHONE: (608) 224-2830	FIGURE
DRAWN: 11/20/2019	CHECKED BY: MDB		1
REVISED: 01/13/2020	APPROVED BY: TK 01/30/2020		

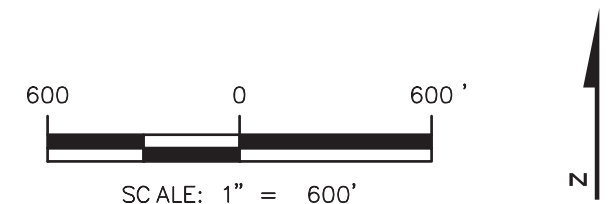


LEGEND

-  LIMITS OF FINAL COVER
 CCR RULE BACKGROUND MONITORING WELL
 CCR RULE PIEZOMETER (BEDROCK)
 PIEZOMETER (BEDROCK)
 LEACHATE HEADWELL
 MONITORING WELL (UNCONSOLIDATED)
 PIEZOMETER (UNCONSOLIDATED)
 PRIVATE WATER SUPPLY WELL
 RAILROAD TRACK
 CCR RULE UNIT
 MAJOR TOPOGRAPHIC CONTOUR (10FT INTERVAL)
 MINOR TOPOGRAPHIC CONTOUR (2FT INTERVAL)

NOTES

1. IMAGERY SOURCE: SHEBOYGAN COUNTY. DATE: 04/04/2025.
2. COORDINATE SYSTEM: NAD 1983 (2011) STATEPLANE WISCONSIN SOUTH FIPS 4803 (US FEET).
3. RAIL DATA FROM BUREAU OF TRANSPORTATION STATISTICS (BTS); FEDERAL RAILROAD ADMINISTRATION (FRA). ACCESSED ON 04/30/2025.
4. MONITORING WELL INSTALLATION SUMMARY: MONITORING WELLS MW-301, MW-302, MW-303 AND MW-304 WERE INSTALLED BETWEEN NOVEMBER 30, 2015 AND JANUARY 26, 2016 BY BADGER STATE DRILLING INC. UNDER THE SUPERVISION OF SCS ENGINEERS. THESE WELLS WERE SURVEYED BY SCS ENGINEERS IN DECEMBER 2015 AND JANUARY 2016. MONITORING WELL MW-305 WAS INSTALLED FEBRUARY 2, 2017 BY BADGER STATE DRILLING, INC. THIS WELL WAS SURVEYED BY SCS ENGINEERS IN FEBRUARY 2017. MONITORING WELL MW-306 WAS INSTALLED JUNE 3-5, 2024 BY HORIZON CONSTRUCTION AND EXPLORATION, LLC OF FREDONIA, WI. THIS WELL WAS SURVEYED BY CEDAR CREEK SURVEYING LLC OF OOSTBURG, WI ON JULY 16, 2024. MONITORING WELLS MW-307 AND MW-308 WERE INSTALLED ON DECEMBER 10 AND DECEMBER 16, 2025 BY CASCADE DRILLING OF SCHOFIELD, WI. THESE WERE WERE SURVEYED BY CEDAR CREEK SURVEYING LLC OF OOSTBURG, WI ON DECEMBER 30, 2025
5. TOPOGRAPHIC CONTOURS BASED ON AERIAL TOPOGRAPHIC SURVEY FLOWN DECEMBER 1, 2014 USING WISCONSIN STATE PLANE COORDINATES. ELEVATIONS BASED ON USGS NATIONAL GEODETIC VERTICAL DATUM, 1929. UPDATED WITH 2015 CONSTRUCTION AS-BUILT GRADES, 2016 CONSTRUCTION AS-BUILT GRADES FOR PHASE 4, MODULE 1 BY SCS ENGINEERS, DECEMBER 23, 2020 DRONE SURVEY OF PHASE 3, MODULE 2 ASH GRADES AND FUTURE PHASE 4 AREAS BY RYAN INCORPORATED CENTRAL, FEBRUARY AND APRIL 2024 PHASE 3 MODULE 2 SURVEYS BY SCS ENGINEERS, AND SEPTEMBER 19, 2024 DRONE SURVEY BY SCS ENGINEERS.



DOCUMENT

PROJECT NO.	25225069.00	DRAWN BY:	AA	 2830 DAIRY DRIVE MADISON, WI 53718-6751 PHONE: (608) 224-2830	CLIENT	WISCONSIN POWER AND LIGHT CO. 3739 LAKESHORE DRIVE SHEBOYGAN, WI 53081	SITE	ALLIANT ENERGY I-43 ASH DISPOSAL FACILITY TOWN OF WILSON, WISCONSIN	SITE PLAN AND MONITORING WELL LOCATIONS	FIGURE
DRAWN:	05/08/2025	CHECKED BY:	NLB 01/08/2026							2
REVISED:	01/08/2026	APPROVED BY:	TK 01/09/2026							

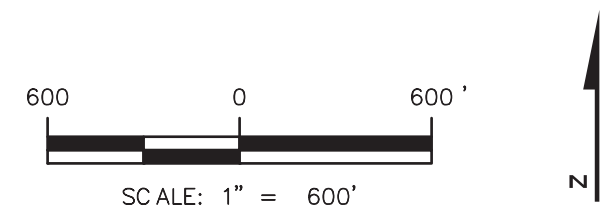


- LEGEND**

 -  CCR RULE BACKGROUND MONITORING WELL
 -  CCR RULE PIEZOMETER (BEDROCK)
 -  LEACHATE HEADWELL
 -  MONITORING WELL (UNCONSOLIDATED)
 -  PIEZOMETER (UNCONSOLIDATED)
 -  PRIVATE WATER SUPPLY WELL
 -  LIMITS OF FINAL COVER
 -  POTENTIOMETRIC GROUNDWATER SURFACE CONTOUR LINE (CONTOUR INTERVAL 1.0 FT)
 -  APPROXIMATE GROUNDWATER FLOW DIRECTION
 -  CCR RULE UNIT
 -  MAJOR TOPOGRAPHIC CONTOUR (10FT INTERVAL)
 -  MINOR TOPOGRAPHIC CONTOUR (2FT INTERVAL)
 -  FLOW PATH FOR VELOCITY CALCULATION
 -  POTENTIOMETRIC GROUNDWATER SURFACE ELEVATION (FT AMSL)

NOTES

1. IMAGERY SOURCE: SHEBOYGAN COUNTY. DATE: 04/04/2025.
2. COORDINATE SYSTEM: NAD 1983 (2011) STATEPLANE WISCONSIN SOUTH FIPS 4803 (US FEET).
3. MONITORING WELL AND OTHER SAMPLE LOCATIONS ARE APPROXIMATE.
4. WELL INSTALLATION AND SURVEY INFORMATION, SEE SITE PLAN FIGURE 2 NOTES.
5. STATE MONITORING WELLS: WS-1, W-2, W-6, W-6A, W-10, W-10A, W-11A, W-12AR, W-17, W-17AR, W-18, W-18AR, W-19, W-19A, W-21, W-22, W-33A, W-34R, W-37, W-38, W-39, W-40, W-40A.
6. CCR BACKGROUND WELLS: MW-304 AND MW-305.
7. CCR WELLS: MW-301, MW-302, MW-303 AND MW-306.
8. LEACHATE POINTS: LCB-1, LHW-1, LVHW-1, LVHW-2, LHW-3, LVHW-3 AND LHW-4-1.
9. OTHER POINTS: PRIVATE WATER SUPPLY WELL WS-1.
10. WATER LEVELS MEASURED ON ON APRIL 21, 2025.



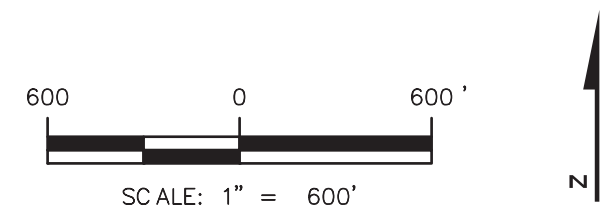
PROJECT NO.	25225069.00	DRAWN BY:	AA	 2830 DAIRY DRIVE MADISON, WI 53718-6751 PHONE: (608) 224-2830	CLIENT	WISCONSIN POWER AND LIGHT CO. 3739 LAKESHORE DRIVE SHEBOYGAN, WI 53081	SITE	ALLIANT ENERGY I-43 ASH DISPOSAL FACILITY TOWN OF WILSON, WISCONSIN	BEDROCK DEEP POTENTIOMETRIC GROUNDWATER SURFACE ELEVATION CONTOUR MAP APRIL 2025	FIGURE
DRAWN:	05/07/2025	CHECKED BY:	NLB 01/08/2026							
REVISED:	01/08/2026	APPROVED BY:	TK 01/09/2026							3



- LEGEND**
- | | |
|---|---|
|  | CCR RULE BACKGROUND MONITORING WELL |
|  | CCR RULE PIEZOMETER (BEDROCK) |
|  | LEACHATE HEADWELL |
|  | MONITORING WELL (UNCONSOLIDATED) |
|  | PIEZOMETER (UNCONSOLIDATED) |
|  | PRIVATE WATER SUPPLY WELL |
| ----- | LIMITS OF FINAL COVER |
| ————— | POTENTIOMETRIC GROUNDWATER SURFACE CONTOUR LINE (CONTOUR INTERVAL 1.0 FT) |
| —————→ | APPROXIMATE GROUNDWATER FLOW DIRECTION |
| ————— | CCR RULE UNIT |
| ————— | MAJOR TOPOGRAPHIC CONTOUR (10FT INTERVAL) |
| ————— | MINOR TOPOGRAPHIC CONTOUR (2FT INTERVAL) |
| —————→ | FLOW PATH FOR VELOCITY CALCULATION |
| 650.47 | POTENTIOMETRIC GROUNDWATER SURFACE ELEVATION (FT AMSL) |

NOTES

1. IMAGERY SOURCE: SHEBOYGAN COUNTY. DATE: 04/04/2025.
2. COORDINATE SYSTEM: NAD 1983 (2011) STATEPLANE WISCONSIN SOUTH FIPS 4803 (US FEET).
3. MONITORING WELL AND OTHER SAMPLE LOCATIONS ARE APPROXIMATE.
4. WELL INSTALLATION AND SURVEY INFORMATION, SEE SITE PLAN FIGURE 2 NOTES.
5. STATE MONITORING WELLS: WS-1, W-2, W-6, W-6A, W-10, W-10A, W-11A, W-12AR, W-17, W-17AR, W-18, W-18AR, W-19, W-19A, W-21, W-22, W-33A, W-34R, W-37, W-38, W-39, W-40, W-40A.
6. CCR BACKGROUND WELLS: MW-304 AND MW-305.
7. CCR WELLS: MW-301, MW-302, MW-303 AND MW-306.
8. LEACHATE POINTS: LCB-1, LHW-1, LVHW-1, LVHW-2, LHW-3, LVHW-3 AND LHW-4-1.
9. OTHER POINTS: PRIVATE WATER SUPPLY WELL WS-1.
10. WATER LEVELS MEASURED ON ON OCTOBER 6-7, 2025.



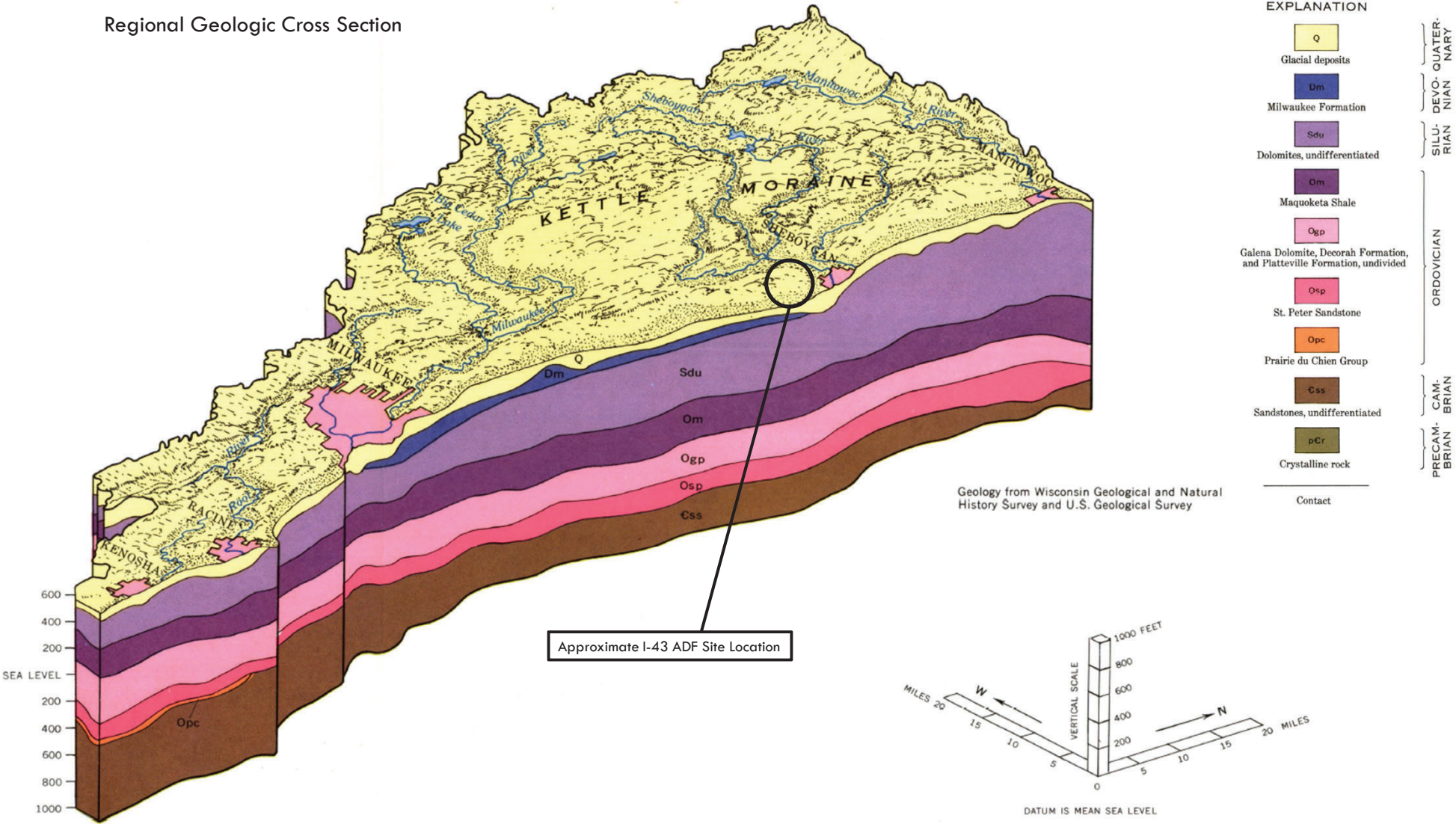
PROJECT NO.	25225069.00	DRAWN BY:	AA	ENGINEER	SCS ENGINEERS 2830 DAIRY DRIVE MADISON, WI 53718-6751 PHONE: (608) 224-2830	CLIENT	WISCONSIN POWER AND LIGHT CO. 3739 LAKESHORE DRIVE SHEBOYGAN, WI 53081	SITE	ALLIANT ENERGY I-43 ASH DISPOSAL FACILITY TOWN OF WILSON, WISCONSIN	BEDROCK DEEP POTENTIOMETRIC GROUNDWATER SURFACE ELEVATION CONTOUR MAP OCTOBER 2025	FIGURE	
	DRAWN:	11/30/2025	CHECKED BY:								NLB 01/08/2026	
	REVISED:	01/08/2026	APPROVED BY:								TK 01/09/2026	4



Appendix A

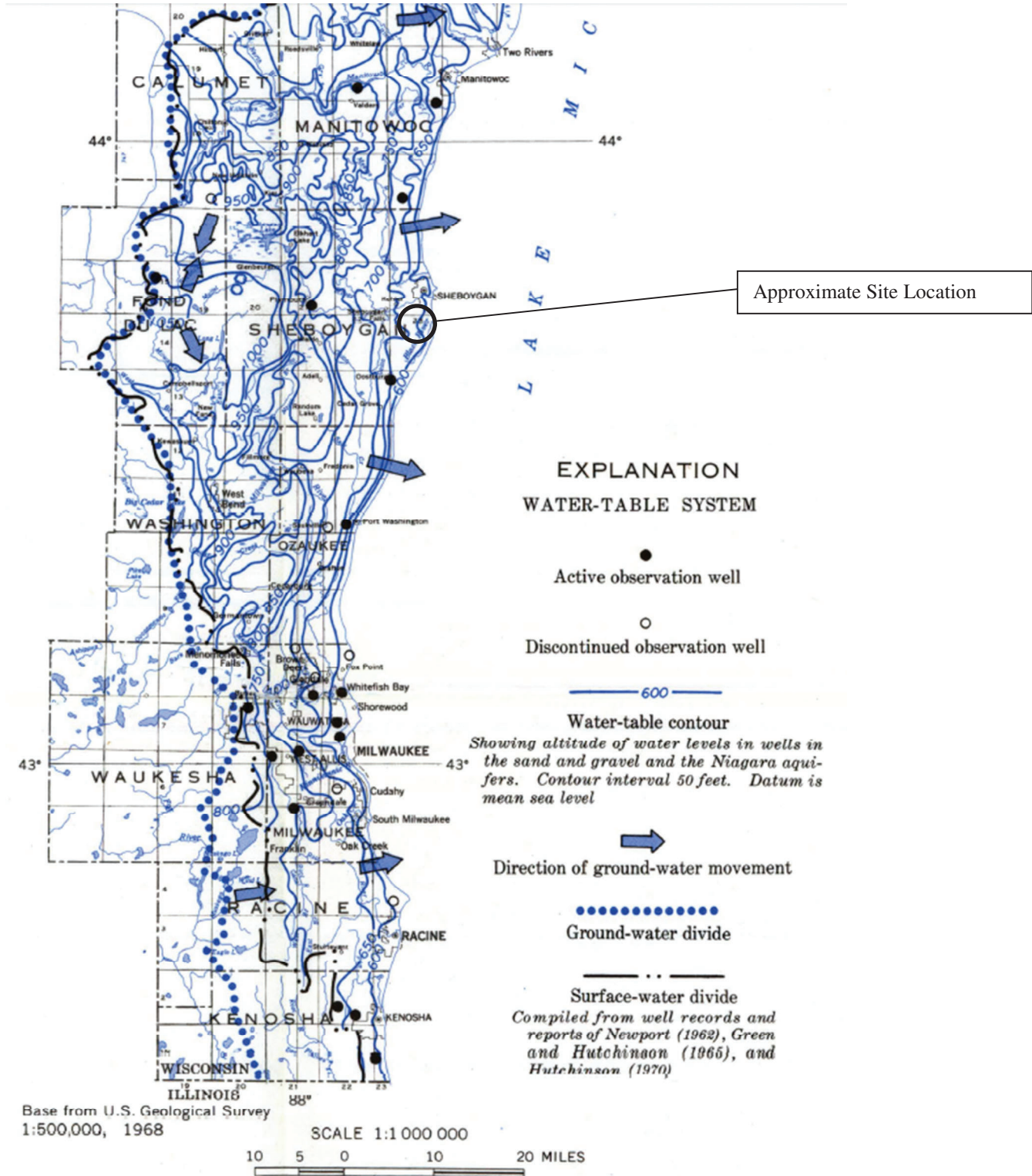
Regional Hydrogeologic Information

Regional Geologic Cross Section



Source: Skinner, Earl L. and Ronald G. Borman, Water Resources of Wisconsin-Lake Michigan Basin, Department of the Interior United States Geological Survey Hydrogeologic Investigations Atlas HA-432, 1973.

Regional Groundwater Flow Map – Uppermost Aquifer



Source: Skinner, Earl L. and Ronald G. Borman, Water Resources of Wisconsin-Lake Michigan Basin, Department of the Interior United States Geological Survey Hydrogeologic Investigations Atlas HA-432, 1973.

**Table I43-3. Regional Hydrogeologic Stratigraphy
Edgewater I-43 Landfill / SCS Engineers Project #25216069**

Age	Hydrogeologic Unit	General Thickness (feet)	Name of Rock Unit*	Predominant Lithology
Quaternary	Sand and Gravel Aquifer	0 to 235	Surface sand and gravel	Sand and Gravel
		0 to 300	Buried sand and gravel	
Devonian	Niagara Dolomite Aquifer	0 to 750	Dolomite (undifferentiated)	Dolomite
Silurian				
Ordovician	Confining Unit	0 to 400	Maquoketa Shale	Shale and dolomite
	Sandstone Aquifer	100 to 340	Galena Decorah Platteville	Dolomite
		0 to 330	St. Peter	Sandstone
		0 to 140	Prairie du Chien	Dolomite
		0 to 3,500?	Trempeleau Franconia Galesville Eau Claire Mt. Simon	Sandstone, some Dolomite and Shale
Cambrian				
Precambrian	Not an Aquifer	Unknown	Crystalline Rocks	Igneous and metamorphic rocks

Source:

Skinner, Earl L. and Ronald G. Borman, Water Resources of Wisconsin-Lake Michigan Basin, Department of the Interior United States Geological Survey Hydrogeologic Investigations Atlas HA-432, 1973.



Appendix B

Boring Logs and Well Construction Documentation

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

Page 1 of 6

Facility/Project Name WPL-Edgewater I43		SCS#: 25215135.20		License/Permit/Monitoring Number		Boring Number MW-301	
Boring Drilled By: Name of crew chief (first, last) and Firm Kevin Durst Badger State				Date Drilling Started 12/15/2015		Date Drilling Completed 12/19/2015	
WI Unique Well No. VV864		DNR Well ID No.		Common Well Name		Drilling Method HSA/rotary (mud)	
Final Static Water Level Feet		Surface Elevation 694.40 Feet		Borehole Diameter 8.0 in.			
Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒ State Plane 626,196 N, 2,559,679 E S/C/N SE 1/4 of NE 1/4 of Section 8, T 14 N, R 23 E				Lat _____ ' _____ " _____ "		Local Grid Location Feet ☐ N ☐ E ☐ S ☐ W	
Facility ID		County Sheboygan		County Code 60		Civil Town/City/ or Village Wilson Tn.	

Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
			1	LEAN CLAY, brown (fill).	CL									
S1	17	25 78	2	LEAN CLAY, red brown (7.5YR 4/6), moist, with fine to coarse sand, fine gravel, stiff, gray coatings on fractures, diamicton (till).					3.0	M				
S2	22	47 911	4						2.25					
			5											
			6											
S3	24	45 88	7						2.25					
			8	Softer, brittle, crumbles.	CL									
S4		24 55	9						1.5					
			10	Color changes to (10.5YR 4/2).										
			11											
			12											
			13											
S5	22	34 77	14	LEAN CLAY, dark reddish gray (5YR 4/2), trace coarse sand, fine crumbly texture.					2.25					
			15											

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

Signature Joe Larson		Firm SCS Engineers 2830 Dairy Drive Madison, WI 53718	Tel: (608) 224-2830 Fax:
-------------------------	---	---	-----------------------------

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

Boring Number		MW-301		Use only as an attachment to Form 4400-122.				Page 2 of 6						
Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
S6	24	3 5 8 8	16	LEAN CLAY, red brown, trace coarse sand and fine gravel.	cl.									
			17	Same as above.										
			18											
			19	Same except dark brown (7.5YR 4/4).										
			20											
S7	14	5 5 8 8	21											
			22											
			23											
			24	Dark brown (7.5YR 4/2).										
			25											
S8	24	4 5 8 8	26											
			27											
			28	LEAN CLAY, dark brown (7.5YR 4/4), trace medium to coarse sand, few fine sand partings, massive, diamicton (till).										
			29											
			30											
S9	23	4 5 9 10	31											
			32											
			33	Same, massive to indistinctly laminated, trace fine gravel (dolomite), subrounded (till).										
			34											
			35											
S10	24	5 5 8 10	36											
			37											
			38	Same										
			39											
			40											

Boring Number		MW-301		Use only as an attachment to Form 4400-122.		Page 3 of 6								
Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
S11	24	55 119	41	LEAN CLAY, red brown (7.5YR 4/2).										
			42	Same as above.										
			43											
			44											
			45											
S12	24	57 99	46	Same.	cl.									
			47											
			48											
			49											
			50											
S13	24	67 1011	51											
			52											
			53											
			54											
			55											
S14	24	57 1010	56											
			57											
			58											
			59											
			60											
S15	24	56 78	61	Same, except less sand and fine gravel										
			62											
			63											
			64											
			65											

Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
S16	24	3 8 8 14	66	LEAN CLAY, same as above.	CL					2.5				
			67											
			68											
			69											
			70											
S17	18	7 7 22	71	SILT, light grey (5YR 6/1), laminated (lake sediment).	ML					0.5				
			72											
			73											
			74											
			75											
S18	12	16 18 23	76	SILTY SAND, grey, fine, with medium to coarse sand, trace fine gravel, mostly very fine sand (outwash).	SM									
			77											
			78											
S19	24	13 9 12 14	79	LEAN CLAY, dark brown (7.5YR 4/2) with trace fine to coarse sand, fine gravel (sub-rounded dolomite), massive, diamicton, peds have fine crumbling texture.						2.25	M			
			80											
			81											
			82											
			83											
S20	24	14 20 23	84	Same, except less sand and gravel	CL					4.5	M			
			85											
			86											
			87											
			88											
S21	24	9 14 19	89							4.0				
			90											

Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
S22	24	10 12 14	91	LEAN CLAY, same as above.	CL					2.5				
			92											
			93											
			94											
			95											
S23	22	9 11 15	96	Same.										
			97											
			98											
			99											
			100											
S24	24	7 8 10	101	LEAN CLAY, dark grayish brown (10YR 4/2), massive to very indistinctly laminated, very plastic.						3.0	M			
			102											
			103											
			104											
			105											
S25	22	8 10 12	106	LEAN CLAY, dark grayish brown (10YR 4/2), massive to indistinctly laminated, very plastic (lake sediment).	CL					1.5	M			
			107											
			108											
			109											
			110											
S26	NR	8 10 13	111							2.0	M			
			112											
			113											
			114											
			115											

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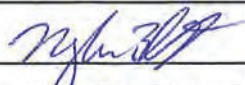
Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Page 1 of 7

Facility/Project Name WPL-Edgewater I43		SCS#: 25215135.20		License/Permit/Monitoring Number		Boring Number MW-302	
Boring Drilled By: Name of crew chief (first, last) and Firm Kevin Durst Badger State				Date Drilling Started 12/4/2015		Date Drilling Completed 12/7/2015	
Drilling Method HSA/rotary (mud)		WI Unique Well No. VV863		DNR Well ID No.		Common Well Name	
Final Static Water Level Feet		Surface Elevation 700.24 Feet		Borehole Diameter 8.0 in.			
Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒ State Plane 625,788 N, 2,559,719 E S/C/N NE 1/4 of SE 1/4 of Section 8, T 14 N, R 23 E				Lat _____ ° _____ ' _____ " _____ "		Local Grid Location Feet ☐ N ☐ E ☐ S ☐ W	
Facility ID		County Sheboygan		County Code 60		Civil Town/City/ or Village Wilson Tn.	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
S1	13	3 6 8 10	1 2	LEAN CLAY, strong brown (7.5YR 4/6) to dark brown (7.5YR 3/2) mottled, trace fine to coarse sand.					3.7	M				
S2	11	3 6 9 11	3 4	LEAN CLAY, brown (7.5YR 4/4), trace small, fine to coarse sand and fine gravel, possible clay and gravel fill @5' very hard, dry, diamicton (till).					3.5	M				
S3	18	5 8 10 14	6 7	LEAN CLAY, mottled, strong brown (7.5YR 4/6) and brown, trace fine to coarse sand, fine gravel, very slightly moist (till).	CL				2.5-4.0	M				
S4	15	4 4 7 8	8 9						2.0	M				
S5	19	3 6 10 12	10 11 12 13 14 15	Same as above, except brown (7.5YR 4/4), very hard, cohesive (till).					2.0-4.0	M				

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

Signature Meghan Blodgett 	Firm SCS Engineers 2830 Dairy Drive Madison, WI 53718	Tel: (608) 224-2830 Fax:
--	---	-----------------------------

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

Page 2 of 7

Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
S6	24	3 4 6 9	16	LEAN CLAY, brown (7.5YR 4/4), trace fine to coarse sand, fine gravel, as above (till).										
			18											
S7	24	2 3 5 6	19	Same as above, except dark brown (7.5YR 4/2), more moist (till).										
			23											
S8	20	7 8 7 9	24	LEAN CLAY, brown (7.5YR 4/2), massive, trace fine to coarse sand, fine gravel (till).	CL									
			28											
S9	6	5 6 8 8	29											
			33											
S10	24	5 8 10 11	34											
			38											

Boring Number		MW-302		Use only as an attachment to Form 4400-122.		Page 3 of 7								
Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
S11	19	7 9 11 12	41	LEAN CLAY, brown (7.5YR 4/2), trace fine to coarse sand, fine gravel (till).					1.5-2.75	W				
			42											
			43											
			44											
			45											
S12	18	6 10 12 12	46		CL				1.5	W				
			47											
			48											
			49											
			50											
S13	24	7 7 10 10	51	Same as above, except less sand and gravel.					1.25	W				
			52											
			53											
			54											
			55											
S14	24	7 9 11 12	56	LEAN CLAY, brown, trace fine to coarse sand, 1/8-3/4" fine to coarse sand seams at 58.5', 59', and 59.75', laminated with very thin silt partings (lake sediment).	CL				1.5	W				
			57											
			58											
			59											
			60											
S15	24	7 9 12 12	61	SILT, brown (7.5YR 5/2), massive, little clay (lake sediment).	ML				1.5	W				
			62											
			63											
			64											
			65											

[illegible]

Boring Number		MW-302		Use only as an attachment to Form 4400-122.		Page 5 of 7								
Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
S26	20	12 18	91	LEAN CLAY, brown, massive, trace fine to coarse sand, fine gravel, as above (till).	CL									
		21 25	92	Same.										
			93											
			94											
			95											2.5
S27	14	17 20	96	LEAN CLAY, brown (7.5YR 5/2), massive to indistinctly laminated, trace fine gravel, red/gray laminations (lake sediment).										
		22 12	97											
			98											
			99											
			100										2.5	
S28	24	8 10	101	LEAN CLAY, grayish brown (10YR 5/2), laminated, with very thin silt partings, very stiff, hard (lake sediment).	CL									
		13 14	102											
			103											
			104											
			105										2.0	
S29	24	7 9	106	Same as above, except silt is concentrated in 1 mm layers spaced 2-6" apart.										
		12 14	107											
			108											
			109											
			110										1.5	
S30		7 9	111	Same except dark grayish brown (10YR 4/2), laminated, fewer silt partings, very plastic (lake sediment).										
		12 14	112											
			113											
			114											
			115											

Convert to rock coring. Run 1 133'-143'-No water return below 139'.

Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties						RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200		
			141	DOLOMITE (bedrock).											
			142	Very vuggy and mineralized vugs and fractures below 142'.	DOLOMITE										
			143												
			144	Blind drilled 144-148'											
				End of boring @ 148' Logged by: Zach Watson: 0-28' Meghan Blodgett: 28-110' Tony Kollasch: 110-144' Checked and edited by: BJS 3/30/2016											TCR=126/120 TCR=100% SCR=103/120 SCR=86% MCR=68.5/120 MCR=57% RQD=57% Fair

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

Page 1 of 7

Facility/Project Name WPL-Edgewater I43		License/Permit/Monitoring Number SCS#: 25215135.20		Boring Number MW-303	
Boring Drilled By: Name of crew chief (first, last) and Firm Kevin Durst Badger State		Date Drilling Started 11/30/2015		Date Drilling Completed 12/4/2015	
Drilling Method HSA/rotary (mud)					
WI Unique Well No. VV865	DNR Well ID No.	Common Well Name	Final Static Water Level Feet	Surface Elevation 716.60 Feet	Borehole Diameter 8.0 in.
Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒		State Plane 625,616 N, 2,560,451 E S/C/N		Local Grid Location	
NE 1/4 of SE 1/4 of Section 8, T 14 N, R 23 E		Lat _____° _____' _____"		Feet ☐ N ☐ E ☐ S ☐ W	
Long _____° _____' _____"		Facility ID		County Sheboygan	
County Code 60		Civil Town/City/ or Village Wilson Tn.			

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
S1	14	12 24	1 2	LEAN CLAY, strong brown (7.5YR 4/6), med plasticity, mottled coloring, trace coarse sand.	CL				1.5	M				
S2 A, B	14	41 22	4 5	SILTY SAND layer, fine to coarse @ 5-5.5'.	SM				0.75	M				
S3	24	47 10 11	6 7	LEAN CLAY, (7.5YR 4/4), trace sand, fine to coarse, fine gravel, very stiff, firm, massive, diamicton (till).					2.8- 4.0	W				
S4	18	25 7 9	9 10	Same.	CL				3.0	W				
S5	22	23 4 6	14 15						1-1.8	W				

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

Signature Zach Watson <i>[Signature]</i>	Firm SCS Engineers 2830 Dairy Drive Madison, WI 53718	Tel: (608) 224-2830 Fax:
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This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Sample			Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)	Standard Penetration								Moisture Content	Liquid Limit	Plasticity Index	P 200		
				16	LEAN CLAY, (7.5YR 4/4), as above.										
				17											
				18											
S6	24	3 4 6 8		19											
				20											
				21	Same.	CL									
				22											
				23											
S7	24	3 5 6 7		24											
				25											
				26	Same.										
				27											
				28											
S8	24	3 6 7 8		29											
				30											
				31	Same as above, except very soft and saturated.										
				32											
				33											
S9	24	3 5 7 9		34											
				35											
				36											
				37											
				38											
				39											
S10	6	6 9 11 13		40											

Boring Number **MW-303**

Use only as an attachment to Form 4400-122.

Page **3** of **7**

Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
			41	LEAN CLAY, (7.5YR 4/4).										
			42											
			43											
S11	6	10 12 12 16	44							W				
			45											
			46											
			47											
			48											
S12	24	5 6 8 10	49	(no sample retained)					1.3	W				
			50											
			51											
			52		CL									
			53											
S13	21	3 7 7 9	54	LEAN CLAY (7.5YR 4/4), fine to coarse sand, fine gravel, firm, massive, diamicton (till).					1.0	W				
			55											
			56											
			57											
			58											
S14	19	10 11 13 10	59	Same.					1.0	W				
			60											
			61											
			62											
			63											
			64											
S15	11	4 6 9 11	65						0.5	W				

Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
			66	Same.										
S16	4	9 34 50/5	69	LEAN CLAY WITH SAND, brown (7.5YR 4/4), soft, sand fine to coarse.					0	W				
S17	7	8 12 12 13	74	Some as above, except trace fine to coarse sand.	CL				0	W				
S18	24	3 6 5 7	79	Same as above except, soft in some areas and stiff in others.					0.5	W				
S19	15	19 22 25 31	84	SANDY SILT, (10YR 5/4), fine sand, very uniform grains, loose, mostly very fine sand, non-plastic.						W				
S20	3	16 16 23 25	86		ML					W				
S21	20	20 18 13 14	88	LEAN CLAY, brown (7.5YR 4/4), trace coarse sand, massive to indistinctly laminated (lake sediment).	CL					W				

Boring Number **MW-303**

Use only as an attachment to Form 4400-122.

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Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
S22	18	35 38 23 30	91 92 93 94 95	Same with layers of SANDY SILT, yellowish brown (10YR 5/4), fine, loose (lake sediment).	CL				1.0	W				
S23	18	19 12 12 13	96 97 98 99 100 101 102 103											
S24	16	24 28 34 50/4	104 105											
S25	12	36 50/5	106 107											
S26	23	32 22 20 24	108 109 110 111 112 113 114	LEAN CLAY, with layers of SILT, SAND (lake sediment as above).	CL				3.2	W				
S27	3	50/5	115	SILTY SAND, (10YR 5/4).	SM				1.2	W				

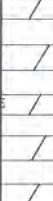
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Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
S28	5	50/4	116 117 118	LEAN CLAY, 7.5 YR 5/2, trace gravel.	SM CL				2.5	W				
S29	5	50/5	119 120	SILTY SAND WITH GRAVEL, fine, with medium and coarse sand, greys, blues whites and browns, gravel is fine and coarse.						W				
S30	8	41 50/4	121 122	SILTY SAND, fine to coarse grained, trace fine gravel, fine (outwash).						W				
S31	2	50/4	123 124							W				
S32	10	31 50/4	125 126 127 128	Same.	SM					W				
S33	3	50/5	129 130							W				
S34	4	50/4	131 132	SILT, some gravel, very dense/stiff (weathered bedrock).	ML				4.5	W				
			133 134 135 136 137 138 139 140	DOLOMITE (bedrock).	 DOLOMITE	 	 							

Boring Number **MW-303**

Use only as an attachment to Form 4400-122.

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Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
			141	DOLOMITE (bedrock).	DOLOMITE									
			142											
			143											
				End of boring @ 143.5'										
				Checked and edited by: BJS 3/30/2016										

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

Page 1 of 6

Facility/Project Name WPL-Edgewater I43		SCS#: 25215135.20		License/Permit/Monitoring Number		Boring Number MW-304	
Boring Drilled By: Name of crew chief (first, last) and Firm Kevin Durst Badger State				Date Drilling Started 1/25/2016		Date Drilling Completed 1/26/2016	
WI Unique Well No. VV866		DNR Well ID No.		Common Well Name		Final Static Water Level Feet	
						Surface Elevation 689.48 Feet	
						Borehole Diameter 8.0 in.	
Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒ State Plane 624,204 N, 2,558,156 E S/C/N SW 1/4 of SE 1/4 of Section 8, T 14 N, R 23 E				Lat _____ Long _____		Local Grid Location Feet ☐ N ☐ E ☐ S ☐ W	
Facility ID		County Sheboygan		County Code 60		Civil Town/City/ or Village Wilson Tn.	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
S1	14	25 6 11	1	LEAN CLAY, brown (7.5YR 4/6), with fine to coarse sand, fine gravel.	CL				3.5	M				
S2	14	46 5 9	4	Same as above, except dark brown.					3.5	M				
S3	24	25 8 11	7	LEAN CLAY, brown (7.5YR 4/6), with silt layers, cohesive, stiff.					3.25	M				
S4	24	45 9 10	9	LEAN CLAY, brown (7.5YR 4/4), with fine to coarse sand, fine gravel, massive, stiff, diamicton (till). 1 inch interval of sand, fine to medium grained, brown.	CL				3.25	M				
S6	24	24 4 5	14	LEAN CLAY, as above (till).					1.5	M				

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

Signature Joe Larson		Firm SCS Engineers 2830 Dairy Drive Madison, WI 53718	Tel: (608) 224-2830 Fax:
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Sample				Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments									
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet						Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200										
S7	22	3 4 4 6	16	LEAN CLAY, brown (7.5YR 4/4), as above (till).						1.25	M												
			17																				
18																							
19																							
20																							
21																							
22																							
23	S8	22	2 3 5 6												23								
24																							
25																							
26																							
27																							
28	S9	24	2 4 6 7												28								
29																							
30																							
31																							
32																							
33	S10	24	3 5 6 9												33								
34																							
35																							
36																							
37																							
38	S11	24	3 6 8 12												38								
39																							
40	Same with fine silt partings.																						

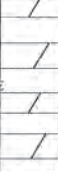
Page 3 of 6

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Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
S36	NA			DOLOMITE, gray (7.5YR 6/1), angular fragments. End of boring @ 118' Logged by: Joe Larson: 0-93' Kyle Kramer: 93-118' Checked and edited by: BJS 3/30/2016	DOLOMITE									

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

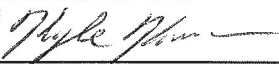
Page 1 of 7

Facility/Project Name WPL I43 SCS#: 25217032.00		License/Permit/Monitoring Number		Boring Number MW-305	
Boring Drilled By: Name of crew chief (first, last) and Firm Kevin Duerst Badger State Drilling		Date Drilling Started 1/30/2017		Date Drilling Completed 2/2/2017	
Drilling Method HSA/Rotary					
WI Unique Well No. VY819	DNR Well ID No.	Common Well Name MW-305	Final Static Water Level Feet	Surface Elevation 715.46 Feet	Borehole Diameter 6.3 in.
Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒ State Plane 623,435 N, 2,559,946 E S/C/N SE 1/4 of SE 1/4 of Section 8, T 14 N, R 23 E			Local Grid Location Lat _____° _____' _____" Long _____° _____' _____" Feet ☐ N ☐ E ☐ S ☐ W		

Facility ID	County Sheboygan	County Code 60	Civil Town/City/ or Village Wilson Tn.
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Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
				TOPSOIL.										
S1	8	22 4	1 2	LEAN CLAY, strong brown (7.5YR 4/6).					1.75					
S2	14	48 11	4 5						4.5+					
S3	18	71 14	6 7		CL				4.5+					
S4	18	410 9	9 10 11 12						4.5+					

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

Signature 	Firm SCS Engineers 2830 Dairy Drive Madison, WI 53711	Tel: (608) 224-2830 Fax:
--	---	-----------------------------

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

Boring Number **MW-305** Use only as an attachment to Form 4400-122.

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Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length: Att. & Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
S5	18	46 8	13 14 15 16 17 18	Same as above except, brown (7.5 YR4/3).					2.5					Mud Rotary @ 15 ft bgs.
S6	18	46 9	19 20 21 22 23	Same as above except, trace gravel.					4.5+					
S7	18	46 7	24 25 26 27		CL				3.0					
S8	18	46 7	28 29 30 31 32						2.0					

Boring Number		MW-305		Use only as an attachment to Form 4400-122.					Page 3 of 7					
Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
S9	18	58 9	33 34 35 36 37 38						2.5					
S10	18	47 9	39 40 41 42 43	CL					2.5					
S11	18	37 8	44 45 46 47 48						2.5					
S12	18	39 13	49 50 51 52						2.0					

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Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments							
Number and Type	Length Att. & Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200								
S13	18	55 8	53 54 55 56 57 58	Same as above except, brown (7.5YR 4/3).	CL				2.5												
S14	18	55 6	59 60 61 62 63																		
S15	12	55 16	64 65 66 67 68																		
S16	12	13 16 16	69 70											SP							
S17	20	14 19 20 22	71 72											SM							

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MW-305

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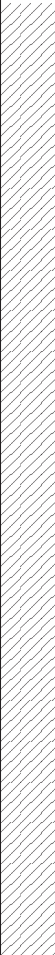
Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
S26	18	18 23 25 29	93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112											
S27	14	10 22 24 25		Same as above except, trace coarse gravel.	SP									
S28	12	13 13 10 18		Same as above except, trae coarse gravel.										
S29	12	23 42 50/0.5												
				DOLOMITE, gray (10YR 5/1), weathered.										

[illegible]

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

Page 1 of 5

Facility/Project Name WPL - I-43 Ash Disposal Facility SCS#: 25224159			License/Permit/Monitoring Number		Boring Number MW-306	
Boring Drilled By: Name of crew chief (first, last) and Firm Adam Sweet Horizon Construction and Exploration			Date Drilling Started 5/30/2024		Date Drilling Completed 6/3/2024	
Drilling Method Rotasonic						
WI Unique Well No. VS193	DNR Well ID No.	Common Well Name MW-306	Final Static Water Level Feet MSL	Surface Elevation 690.26 Feet MSL		Borehole Diameter 6.0 in.
Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒ State Plane 626,576 N, 2,559,143 E S / C / N NW 1/4 of NE 1/4 of Section 8, T 14 N, R 23 E			Lat 43° 41' 50.74" Long 87° 45' 58.90"		Local Grid Location Feet ☐ N ☐ E ☐ S ☐ W	
Facility ID		County Sheboygan	County Code 60	Civil Town/City/ or Village Sheboygan		

Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments				
Number and Type	Length Att. & Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200					
S1	23.5		1.5	3" gravel from drill pad on top. LEAN CLAY, dark yellowish brown (10yr 4/6), w/ roots and trace subround gravel.	CL				2.25	M				First run 7', following runs are 5'.				
		3.0																
	4.5	Thin black lamination (lake sediment?).	1.0-1.25	W?														
	6.0																	
S2	23		7.5	Same as above, but black lamination is now black mottle. Some yellow mottle/splotches.					12.0	13.5	4.5	M						Samples from: 0'-7', 7'-12', 12'-17', 17'-22'. In line with water feature, could be saturated (very soft).
		9.0																
	10.5	Same as above, but yellowish brown (10yr 5/4), black mottle replaced with white mottle. Fine to coarse subround to subangular gravel.	18.0	19.5														
	12.0																	
S3	60		13.5	Same as above, but no mottle with yellow Fe stained splotches (till?).					16.5	18.0								
		15.0																
	16.5																	
	18.0																	
	19.5																	

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

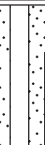
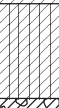
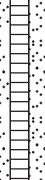
Signature <i>Bridget Dinnell</i>	Firm SCS Engineers 2830 Dairy Drive, Madison, WI 53718	Tel: Fax:
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This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number		MW-306		Use only as an attachment to Form 4400-122.				Page		2 of 5				
Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
S4-S5	80		21.0 22.5 24.0 25.5	Same as above. Trace fine rounded gravel, subangular coarse gravel.	CL				2.5	M				17'-22' fell out of barrel, recovered in 17'-27' push. Still separated out to S4 and S5 in sample bags.
			27.0 28.5 30.0	SANDY CLAY? Likely a sandy layer, fine sand is coating the clay, core from 10' push, low recovery for 10' push to 37'	SC									
S6-S7	77		31.5 33.0 34.5 36.0	Same as above, color change to brown (10yr 4/3)					3.25	M				Samples from: 22-27', 27-32', 32-37', 37-42'. 27-32' was lost originally in 5' push, and recovered in 10' push to 37'.
			37.5 39.0	Same as above.	CL CL									
S8	51		40.5 42.0 43.5 45.0	More sand (fine and round), still brown and still containing trace fine to coarse subround to subangular gravel	CL				1.25	M				Switched to 10' runs due to better recovery than with 5' runs. Assumed to be losing sand seams.
			46.5 48.0	POORLY GRADED SAND, fine to medium grain size with round grains, brown (10yr 4/3). No recovery, but assumed to be same fine to medium sand.	SP									
			49.5 51.0 52.5		SP									
S9	0													Samples from 37'-45', 45'-47', and 47'-57' were

Boring Number		MW-306		Use only as an attachment to Form 4400-122.						Page 4 of 5				
Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
S13	42		87.0	LEAN CLAY, brown (10yr 4/3 and 5/3), with silt and fine coarse rounded gravel. Thin bedding alternating between two brown colors is present (lake sediment).	CL				2.75-3.0	W			End of 5/30/2024.	
			88.5											
			90.0											
			91.5											
			93.0											
S14	71		94.5	LEAN CLAY, grayish brown (10yr 5/3) massive, no gravel/silt, trace Fe staining.	CL				2.75	W			Resumed drilling 5/31/2024 at 97' below ground surface.	
			96.0											
			97.5											
			99.0											
			100.5											
S15	73		102.0	Same as above.	CL				3.0	W			Samples collected from 97'-107' and 107'-117'	
			103.5											
			105.0											
			106.5											
			108.0											
			109.5											
			111.0											
			112.5											
			114.0											
			115.5											
	117.0	Same as above.	CL											
	118.5													
	120.0	Same as above but with fine to coarse round gravel (till?).	CL											

Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
S16	64		121.5		CL				1.5	W				Rock hit around 122'-123'. Rock fragments in clay. Hit solid bedrock at 125'.
		123.0	SILTY CLAY (CL-ML), brown (4.5yr 4/3) interbeds, 2-4", and massive LEAN CLAY 1" (10yr 5/3). Only silty clay beds contain fine to coarse round gravel.	CL-ML										
S17	18		124.5	LOW PLASTICITY GRAVELLY CLAY, "Dolomite Bedrock", 5" dolomite recovered white (10yr 8/1), still in SILTY CLAY.	CLG				2.0	W				Samples collected from 117'-123', 123'-125', 125'-126', 126'-127', and 127'-132'. Going back to 5' runs.
		126.0	"GP-GM", "POORLY GRADED GRAVEL WITH SILT" (DOLOMITE BEDROCK), 2" in 126-127', white (10yr 8/1) and dark grey fine to coarse angular "gravel". Silt is brown (10yr 5/3).	BEDROCK										
S18	33		129.0	Same as above.						W				Called "GP" based on recent soil logging expectations for when hitting bedrock. Bedrock is in parentheses. Collected sample of full run from 132'-137'.
		130.5		BEDROCK										
			132.0											
			133.5											
			135.0	1' 2.5" solid DOLOMITE core, greenish grey (GLEYS 5G 6/1) and white (GLEYS N8/) and dark grey mineralized veins, and vugs, visible grains fine to very fine. Pyrite and other minerals in fractures, vugs and veins. Some chlorite splotches? (sky blue).	BEDROCK									
			136.5	End of Boring at 137' below ground surface.										

State of Wisconsin
Department of Natural ResourcesRoute to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 7-98

Facility/Project Name WPL-Edgewater I43	Local Grid Location of Well 626196.3 ft. ☒ N. ☐ S. 2559679 ft. ☒ E. ☐ W.	Well Name MW-301
Facility License, Permit or Monitoring No. 02853	Local Grid Origin (estimated: ☐) or Well Location ☒ Lat. _____ "Long. _____ or _____	Wis. Unique Well No. VV864
Facility ID 460022090	St. Plane 626196.3 ft. N. 2559679.0 ft. E. S/C/N	Date Well Installed m 1 / d 14 / y 2016
Type of Well Well Code 12 / PZ	Section Location of Waste/Source SW 1/4 of NE 1/4 of Sec. 8, T. 14 N, R. 23 ☒ E ☐ W	Well Installed By: Name (first, last) and Firm Kevin Durst
Distance from Waste/Source _____ ft.	Location of Well Relative to Waste/Source u ☐ Upgradient s ☐ Sidegradient d ☒ Downgradient n ☐ Not Known	Gov. Lot Number _____
Enf. Stds. Apply ☐		Badger State Drilling

A. Protective pipe, top elevation _____ 697.21 ft. MSL

B. Well casing, top elevation _____ 696.96 ft. MSL

C. Land surface elevation _____ 694.40 ft. MSL

D. Surface seal, bottom _____ 693.90 ft. MSL or _____ 0.5 ft.

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

13. Sieve analysis performed? ☐ Yes ☐ No

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

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

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

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

E. Bentonite seal, top _____ 566.40 ft. MSL or _____ 118 ft.

F. Fine sand, top _____ 571.40 ft. MSL or _____ 123 ft.

G. Filter pack, top _____ 569.40 ft. MSL or _____ 125 ft.

H. Screen joint, top _____ 567.40 ft. MSL or _____ 127 ft.

I. Well bottom _____ 562.40 ft. MSL or _____ 132 ft.

J. Filter pack, bottom _____ 562.40 ft. MSL or _____ 132 ft.

K. Borehole, bottom _____ 559.40 ft. MSL or _____ 135 ft.

L. Borehole, diameter _____ 8.0 in.

M. O.D. well casing _____ 2.4 in.

N. I.D. well casing _____ 1.9 in.

1. Cap and lock? ☒ Yes ☐ No

2. Protective cover pipe:
 a. Inside diameter: _____ 4 in.
 b. Length: _____ 7 ft.
 c. Material: Steel ☒ 04
 Other ☐
 d. Additional protection? ☒ Yes ☐ No
 If yes, describe: yes, bumper posts (3)

3. Surface seal: Bentonite ☒ 30
 Concrete ☐ 01
 Other ☐
 8 bags 3/8in Bentonite chips

4. Material between well casing and protective pipe:
 Bentonite ☐ 30
 Ohio #5 sand- 2 bags Other ☐

5. Annular space seal: a. Granular/Chipped Bentonite ☐ 33
 b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 35
 c. 200 Lbs/gal mud weight Bentonite slurry ☒ 31
 d. _____ % Bentonite Bentonite-cement grout ☐ 50
 e. _____ Ft³ volume added for any of the above
 f. How installed: Tremie ☒ 01
 Tremie pumped ☒ 02
 Gravity ☐ 08

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

7. Fine sand material: Manufacturer, product name & mesh size
 a. Ohio #7 ☐
 b. Volume added _____ 0.5 lbs ft³

8. Filter pack material: Manufacturer, product name & mesh size
 a. Ohio #5 ☐
 b. Volume added _____ 3 lbs ft³

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

10. Screen material: PVC
 a. Screen type: Factory cut ☐ 11
 Continuous slot ☒ 01
 Other ☐
 b. Manufacturer Monoflex
 c. Slot size: 0.01 in.
 d. Slotted length: _____ 5 ft.

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

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

Signature <i>[Signature]</i> for J.L.	Firm SCS ENGINEERS, 2830 Dairy Drive, Madison, WI 53718-6751
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Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural ResourcesRoute to: Watershed/Wastewater ☐ Remediation/Redevelopment ☐ Waste Management ☐ Other ☐MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 7-98

Facility/Project Name WPL-143	Local Grid Location of Well 625788.4 ft. ☒ N. ☐ S. 2559719 ft. ☒ E. ☐ W.	Well Name MW-302
Facility License, Permit or Monitoring No. 02853	Local Grid Origin (estimated: ☐) or Well Location ☒ Lat. ☐ Long. ☒	Wis. Unique Well No. ☒ VV863 DNR Well ID No. ☐
Facility ID 460022090	St. Plane 625788.4 ft. N. 2539719.0 ft. E. S/C/N	Date Well Installed 1 / 15 / 2016 m m d d y y y y
Type of Well Well Code 12 / PZ	Section Location of Waste/Source SW 1/4 of NE 1/4 of Sec. 8, T. 14 N, R. 23 ☒ E ☐ W	Well Installed By: Name (first, last) and Firm Kevin Durst
Distance from Waste/Source ☐ ft.	Enf. Stds. Apply ☐	Badger State Drilling
	Location of Well Relative to Waste/Source u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	
	Gov. Lot Number	

A. Protective pipe, top elevation -- 702.81 ft. MSL
 B. Well casing, top elevation -- 702.57 ft. MSL
 C. Land surface elevation -- 700.24 ft. MSL
 D. Surface seal, bottom -- 699.74 ft. MSL or -- 0.5 ft.

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

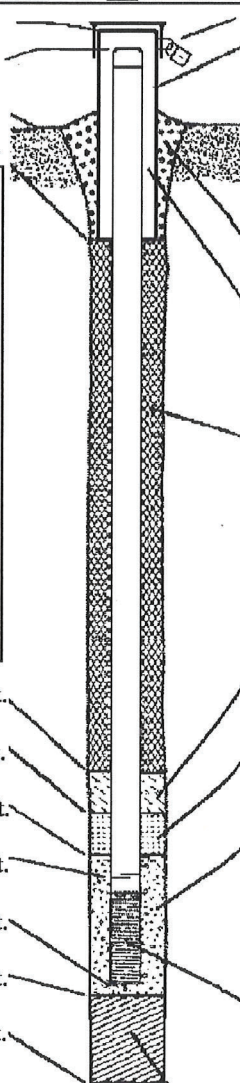
13. Sieve analysis performed? ☐ Yes ☐ No

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

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

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

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



1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
 a. Inside diameter: -- 4 in.
 b. Length: -- 7 ft.
 c. Material: Steel ☒ 04
 Other ☐
- d. Additional protection? ☒ Yes ☐ No
 If yes, describe: ves. bumper posts (3)
3. Surface seal: Bentonite ☒ 30
 Concrete ☐ 01
 Other ☐
4. Material between well casing and protective pipe: Bentonite ☐ 30
 Ohio #5 sand- 2 bags Other ☐
5. Annular space seal: a. Granular/Chipped Bentonite ☐ 33
 b. Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 35
 c. 200 Lbs/gal mud weight . . . Bentonite slurry ☒ 31
 d. % Bentonite . . . Bentonite-cement grout ☐ 50
 e. Ft³ volume added for any of the above
 f. How installed: Tremie ☒ 01
 Tremie pumped ☒ 02
 Gravity ☐ 08
6. Bentonite seal: a. Bentonite granules ☐ 33
 b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite chips ☐ 32
 c. 2 Bags Other ☐
7. Fine sand material: Manufacturer, product name & mesh size
 a. 1 bag Ohio #7 ☐
 b. Volume added 0.5 ft³
8. Filter pack material: Manufacturer, product name & mesh size
 a. Ohio #5 ☐
 b. Volume added 3 ft³
9. Well casing: Flush threaded PVC schedule 40 ☐ 23
 Flush threaded PVC schedule 80 ☒ 24
 Other ☐
10. Screen material: PVC
 a. Screen type: Factory cut ☐ 11
 Continuous slot ☒ 01
 Other ☐
- b. Manufacturer Monoflex
 c. Slot size: 0.01 in.
 d. Slotted length: 5 ft.
11. Backfill material (below filter pack): None ☐ 14
 Limestone Chips Other ☒

E. Bentonite seal, top -- 572.24 ft. MSL or -- 128 ft.
 F. Fine sand, top -- 567.24 ft. MSL or -- 133 ft.
 G. Filter pack, top -- 565.24 ft. MSL or -- 135 ft.
 H. Screen joint, top -- 563.24 ft. MSL or -- 137 ft.
 I. Well bottom -- 558.24 ft. MSL or -- 142 ft.
 J. Filter pack, bottom -- 558.24 ft. MSL or -- 142 ft.
 K. Borehole, bottom -- 552.24 ft. MSL or -- 148 ft.
 L. Borehole, diameter -- 8.0 in.
 M. O.D. well casing -- 2.4 in.
 N. I.D. well casing -- 1.9 in.

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

Signature *for M.H.*Firm
SCS ENGINEERS, 2830 Dairy Drive, Madison, WI 53718-6751

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural ResourcesRoute to: Watershed/Wastewater ☐ Waste Management ☒
Remediation/Redevelopment ☐ Other ☐MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 7-98

Facility/Project Name WPL-143	Local Grid Location of Well 625615.5 ft. ☒ N. 2560451 ft. ☒ E.	Well Name MW-303
Facility License, Permit or Monitoring No. 02853	Local Grid Origin (estimated: ☐) or Well Location ☒ N. ☐ S. ☐ E. ☐ W. Lat. " Long. "	Wis. Unique Well No. ☒ VV865 DNR Well ID No. ☐
Facility ID 460022090	St. Plane 625615.5 ft. N. 2560451.0 ft. E. S/C/N	Date Well Installed 12 / 03 / 2015 m m d d y y v v v y
Type of Well Well Code 12 / PZ	Section Location of Waste/Source SW 1/4 of NE 1/4 of Sec. 8, T. 14 N, R. 23 ☒ E. ☐ W.	Well Installed By: Name (first, last) and Firm Kevin Durst
Distance from Waste/Source ☐ ft.	Enf. Stds. Apply ☐	Badger State Drilling
	Location of Well Relative to Waste/Source u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	
	Gov. Lot Number	

A. Protective pipe, top elevation -- 719.48 ft. MSL
 B. Well casing, top elevation -- 719.25 ft. MSL
 C. Land surface elevation -- 716.60 ft. MSL
 D. Surface seal, bottom -- 716.10 ft. MSL or -- .50 ft.

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

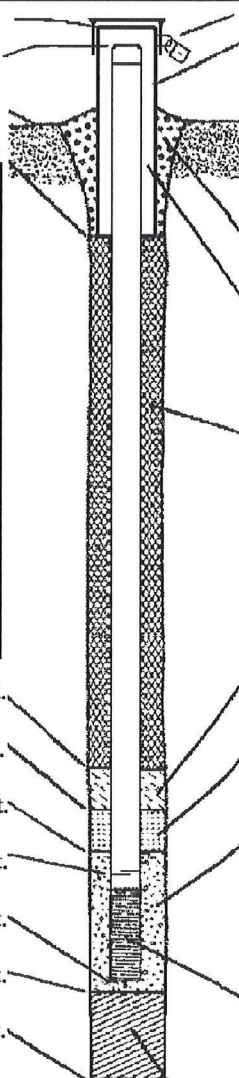
13. Sieve analysis performed? ☐ Yes ☒ No

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

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

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

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



1. Cap and lock? ☒ Yes ☐ No

2. Protective cover pipe:
 a. Inside diameter: -- 6 in.
 b. Length: -- 5 ft.
 c. Material: Steel ☒ 04
 Other ☐

d. Additional protection? ☒ Yes ☐ No
 If yes, describe: yes, bumper posts (3)

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

4. Material between well casing and protective pipe:
 Bentonite ☐ 30
 Ohio #5 sand ☒

5. Annular space seal: a. Granular/Chipped Bentonite ☐ 33
 b. Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 35
 c. 150 Lbs/gal mud weight . . . Bentonite slurry ☒ 31
 d. % Bentonite . . . Bentonite-cement grout ☐ 50
 e. Ft³ volume added for any of the above
 f. How installed: Tremie ☐ 01
 Tremie pumped ☒ 02
 Gravity ☐ 08

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

7. Fine sand material: Manufacturer, product name & mesh size
 a. Ohio #7 ☐
 b. Volume added 0.5 ft³

8. Filter pack material: Manufacturer, product name & mesh size
 a. Ohio #5 ☐
 b. Volume added 1.50 ft³

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

10. Screen material: PVC
 a. Screen type: Factory cut ☒ 11
 Continuous slot ☐ 01
 Other ☐

b. Manufacturer Model flex
 c. Slot size: 0.01 in.
 d. Slotted length: -- 5 ft.

11. Backfill material (below filter pack): None ☐ 14
 Native ☒

E. Bentonite seal, top -- 588.60 ft. MSL or -- 128 ft.
 F. Fine sand, top -- 583.60 ft. MSL or -- 133 ft.
 G. Filter pack, top -- 581.60 ft. MSL or -- 135 ft.
 H. Screen joint, top -- 579.60 ft. MSL or -- 137 ft.
 I. Well bottom -- 574.60 ft. MSL or -- 142 ft.
 J. Filter pack, bottom -- 574.60 ft. MSL or -- 142 ft.
 K. Borehole, bottom -- 573.60 ft. MSL or -- 143 ft.
 L. Borehole, diameter -- 6.0 in.
 M. O.D. well casing -- 2.4 in.
 N. I.D. well casing -- 1.9 in.

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

Signature *For Zach Watson*Firm
SCS ENGINEERS, 2830 Dairy Drive, Madison, WI 53718-6751

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural ResourcesRoute to: Watershed/Wastewater ☐ Remediation/Redevelopment ☐ Waste Management ☐ Other ☐MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 7-98

Facility/Project Name WPL-143	Local Grid Location of Well 624204 ft. ☒ N. 2558156 ft. ☒ E.	Well Name MW-304
Facility License, Permit or Monitoring No. 02853	Local Grid Origin (estimated: ☐) or Well Location ☒ N. ☒ E. Lat. " Long. " or	Wis. Unique Well No. ☒ VV866 DNR Well ID No. ☐
Facility ID 460022090	St. Plane 624204.0 ft. N. 2558156.0 ft. E. S/C/N	Date Well Installed 1 / 26 / 2016 m m d d y y y y
Type of Well Well Code 12 / PZ	Section Location of Waste/Source SW 1/4 of NE 1/4 of Sec. 8, T. 14 N, R. 23 ☒ E. ☒ W	Well Installed By: Name (first, last) and Firm Kevin Duerst
Distance from Waste/Source ☐ ft. Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number
		Badger State Drilling

A. Protective pipe, top elevation -- 692.38 ft. MSL
B. Well casing, top elevation -- 691.97 ft. MSL
C. Land surface elevation -- 689.48 ft. MSL
D. Surface seal, bottom -- 688.98 ft. MSL or -- 0.5 ft.

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

13. Sieve analysis performed? ☐ Yes ☒ No

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

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

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

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

E. Bentonite seal, top -- 586.48 ft. MSL or -- 103 ft.
F. Fine sand, top -- 581.48 ft. MSL or -- 108 ft.
G. Filter pack, top -- 579.48 ft. MSL or -- 110 ft.
H. Screen joint, top -- 577.48 ft. MSL or -- 112 ft.
I. Well bottom -- 572.48 ft. MSL or -- 117 ft.
J. Filter pack, bottom -- 572.48 ft. MSL or -- 117 ft.
K. Borehole, bottom -- 571.48 ft. MSL or -- 118 ft.
L. Borehole, diameter -- 8.0 in.
M. O.D. well casing -- 2.4 in.
N. I.D. well casing -- 1.9 in.

1. Cap and lock? ☒ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: -- 6 in.
b. Length: -- 5 ft.
c. Material: Steel ☒ 04
Other ☐

d. Additional protection? ☒ Yes ☐ No
If yes, describe: yes, bumper posts

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

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

5. Annular space seal: a. Granular/Chipped Bentonite ☐ 33
b. Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 35
c. 200 Lbs/gal mud weight . . . Bentonite slurry ☐ 31
d. % Bentonite . . . Bentonite-cement grout ☐ 50
e. Ft³ volume added for any of the above
f. How installed: Tremie ☒ 01
Tremie pumped ☐ 02
Gravity ☐ 08

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

7. Fine sand material: Manufacturer, product name & mesh size
a. Ohio #5 ☐
b. Volume added 0.5 ft³

8. Filter pack material: Manufacturer, product name & mesh size
a. Ohio #7 ☐
b. Volume added 1 ft³

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

10. Screen material: PVC
a. Screen type: Factory cut ☒ 11
Continuous slot ☐ 01
Other ☐
b. Manufacturer Monoflex
c. Slot size: 0.01 in.
d. Slotted length: -- 5 ft.

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

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

Signature *for Joe Larson*Firm
SCS ENGINEERS, 2830 Dairy Drive, Madison, WI 53718-6751

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural ResourcesRoute to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 7-98

Facility/Project Name WPL - Edgewater 143		Local Grid Location of Well _____ ft. ☐ N. _____ ft. ☐ E. _____ ft. ☐ S. _____ ft. ☐ W.		Well Name MWV-305	
Facility License, Permit or Monitoring No.		Local Grid Origin ☐ (estimated: ☐) or Well Location ☒		Wis. Unique Well No. DNR Well ID No.	
Facility ID		Lat. _____ " Long. _____ " or _____		Date Well Installed m / d / y 2 / 2 / 2017	
Type of Well Well Code 12 / PZ		Section Location of Waste/Source 1/4 of _____ 1/4 of Sec. _____ T. _____ N. R. _____ ☐ E. ☐ W.		Well Installed By: Name (first, last) and Firm Kevin Duerst	
Distance from Waste/Source _____ ft.		Enf. Stds. Apply ☒		Badger State Drilling	
Location of Well Relative to Waste/Source u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known		Gov. Lot Number _____			

A. Protective pipe, top elevation --- 717.88 ft. MSL B. Well casing, top elevation --- 717.67 ft. MSL C. Land surface elevation --- 715.46 ft. MSL D. Surface seal, bottom --- 713.46 ft. MSL or --- 2 ft. 12. USCS classification of soil near screen: GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐ SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐ Bedrock ☒ 13. Sieve analysis performed? ☐ Yes ☐ No 14. Drilling method used: Rotary ☒ 5 0 Hollow Stem Auger ☒ 4 1 Other ☐ 15. Drilling fluid used: Water ☒ 0 2 Air ☐ 0 1 Drilling Mud ☐ 0 3 None ☐ 9 9 16. Drilling additives used? ☐ Yes ☒ No Describe _____ 17. Source of water (attach analysis, if required): Site Supply Well E. Bentonite seal, top --- 609.46 ft. MSL or --- 106 ft. F. Fine sand, top --- 603.46 ft. MSL or --- 112 ft. G. Filter pack, top --- 602.46 ft. MSL or --- 113 ft. H. Screen joint, top --- 600.46 ft. MSL or --- 115 ft. I. Well bottom --- 595.46 ft. MSL or --- 120 ft. J. Filter pack, bottom --- 594.46 ft. MSL or --- 121 ft. K. Borehole, bottom --- 594.46 ft. MSL or --- 121 ft. L. Borehole, diameter --- 6.25 in. M. O.D. well casing --- 2.4 in. N. I.D. well casing --- 1.9 in.	1. Cap and lock? ☒ Yes ☐ No 2. Protective cover pipe: a. Inside diameter: --- 6.0 in. b. Length: --- 5 ft. c. Material: Steel ☒ 0 4 Other ☐ d. Additional protection? ☒ Yes ☐ No If yes, describe: yes, bumper posts (3) 3. Surface seal: Bentonite ☐ 3 0 Concrete ☒ 0 1 Other ☐ 4. Material between well casing and protective pipe: Bentonite ☐ 3 0 #5 R.W. Sidley Other ☒ 5. Annular space seal: a. Granular/Chipped Bentonite ☐ 3 3 b. --- Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 3 5 c. --- Lbs/gal mud weight Bentonite slurry ☒ 3 1 d. --- % Bentonite Bentonite-cement grout ☐ 5 0 e. --- 9.4 Ft³ volume added for any of the above f. How installed: Tremie ☐ 0 1 Tremie pumped ☐ 0 2 Gravity ☐ 0 8 Bentonite chips ☐ 3 3 Bentonite granules ☐ 3 2 Other ☐ 6. Bentonite seal: a. Bentonite granules ☐ 3 3 b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite chips ☐ 3 2 c. 100 lbs Other ☐ 7. Fine sand material: Manufacturer, product name & mesh size a. #7 R.W. Sidley ☐ b. Volume added --- 0.5 ft³ 8. Filter pack material: Manufacturer, product name & mesh size a. #5 R.W. Sidley ☐ b. Volume added --- 1.5 ft³ 9. Well casing: Flush threaded PVC schedule 40 ☐ 2 3 Flush threaded PVC schedule 80 ☐ 2 4 Other ☐ 10. Screen material: PVC a. Screen type: Factory cut ☐ 1 1 Continuous slot ☒ 0 1 Other ☐ b. Manufacturer --- Monoflex c. Slot size: --- 0.01 in. d. Slotted length: --- 5 ft. 11. Backfill material (below filter pack): None ☒ 1 4 Other ☐
---	--

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

Signature *Phyllis Thun*Firm
SCS ENGINEERS, 2830 Dairy Drive, Madison, WI 53718

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural ResourcesRoute to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 7-98

Facility/Project Name WPL - 143 Alliant Energy Center		Local Grid Location of Well ft. ☐ N. ☐ E. ☐ S. ☐ W.		Well Name MW-306	
Facility License, Permit or Monitoring No.		Local Grid Origin (estimated: ☐) or Well Location ☒ Lat. 43° 41' 50.736" Long. -87° 45' 50.904" or		Wis. Unique Well No. DNR Well ID No. VS193	
Facility ID 460021980		St. Plane 626576.4 ft. N, 2559142.7 ft. E. S/C/N		Date Well Installed 06 / 3-5 / 2024	
Type of Well Well Code 12 / PZ		Section Location of Waste/Source SW 1/4 of NE 1/4 of Sec. 8, T. 14 N, R. 23 ☒ E ☐ W		Well Installed By: Name (first, last) and Firm Adam Sweet	
Distance from Waste/Source ft.		Location of Well Relative to Waste/Source u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☒ Not Known		Horizon Construction and Exploration ☒	
Enf. Stds. Apply ☐		Gov. Lot Number			

A. Protective pipe, top elevation -- 693 -- 82 ft. MSL

B. Well casing, top elevation -- 693 -- 61 ft. MSL

C. Land surface elevation -- 690 -- 26 ft. MSL

D. Surface seal, bottom -- 688 -- 6 ft. MSL or -- 1.7 ft.

12. USCS classification of soil near screen:

GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☒

13. Sieve analysis performed? ☐ Yes ☐ No

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

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

16. Drilling additives used? ☐ Yes ☒ No

Describe --

17. Source of water (attach analysis, if required):
--PW Horizon Office, Fredonia WI

E. Bentonite seal, top -- 570.3 ft. MSL or -- 120.0 ft.

F. Fine sand, top -- 564.5 ft. MSL or -- 125.75 ft.

G. Filter pack, top -- 562.5 ft. MSL or -- 127.8 ft.

H. Screen joint, top -- 560.3 ft. MSL or -- 130.0 ft.

I. Well bottom -- 555.3 ft. MSL or -- 135.0 ft.

J. Filter pack, bottom -- 553.3 ft. MSL or -- 137.0 ft.

K. Borehole, bottom -- 553.3 ft. MSL or -- 137.0 ft.

L. Borehole, diameter -- 6 in.

M. O.D. well casing -- 2.4 in.

N. I.D. well casing -- 1.9 in.

1. Cap and lock? ☒ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: -- 4 in.
b. Length: -- 5 ft.
c. Material: Steel ☒ 0 4
Other ☐
d. Additional protection? ☒ Yes ☐ No
If yes, describe: Steel bumper posts

3. Surface seal: Bentonite ☒ 3 0
Concrete ☐ 0 1
Other ☐

4. Material between well casing and protective pipe:
Bentonite ☐ 3 0
Red Flint #40 filter sand Other ☒

5. Annular space seal:
a. Granular/Chipped Bentonite ☐ 3 3
b. Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 3 5
c. Lbs/gal mud weight Bentonite slurry ☐ 3 1
d. 8 % Bentonite Bentonite-cement grout ☒ 5 0
e. 20 Ft³ volume added for any of the above
f. How installed: Tremie ☐ 0 1
Tremie pumped ☐ 0 2
Gravity ☒ 0 8

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

7. Fine sand material: Manufacturer, product name & mesh size
a. Red Flint #15 filter sand ☐
b. Volume added 0.5 ft³

8. Filter pack material: Manufacturer, product name & mesh size
a. Red Flint #40 filter sand ☐
b. Volume added 2.875 ft³

9. Well casing: Flush threaded PVC schedule 40 ☒ 2 3
Flush threaded PVC schedule 80 ☐ 2 4
Other ☐

10. Screen material: Schedule 80 PVC
a. Screen type: Factory cut ☒ 1 1
Continuous slot ☐ 0 1
Other ☐

b. Manufacturer Johnson
c. Slot size: 0.010 in.
d. Slotted length: 5 ft.

11. Backfill material (below filter pack): None ☒ 1 4
Other ☐

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

Signature

Bridget Dinnell

Firm

SCS ENGINEERS, 2830 Dairy Drive, Madison, WI 53718-6751

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT
Form 4400-113B Rev. 7-98

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

Facility/Project Name Alliant Energy I-43	County Name Sheboygan	Well Name MW-301	
Facility License, Permit or Monitoring Number	County Code 59	Wis. Unique Well Number VV-864	DNR Well ID Number

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

2. Well development method

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

3. Time spent developing well _____ 190 min.

4. Depth of well (from top of well casing) _____ 132.9 ft.

5. Inside diameter of well _____ 2.0 in.

6. Volume of water in filter pack and well casing _____ 18.2 gal.

7. Volume of water removed from well _____ 315 gal.

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

9. Source of water added _____

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

17. Additional comments on development:

11. Depth to Water Before Development After Development

(from top of well casing) a. _____ 46 _____ 49 ft. _____ 46 _____ 34 ft.

Date b. 02 / 16 / 2016 02 / 16 / 2016
m m d d y y y y m m d d y y y y

Time c. 12 : 50 ☐ a.m. 16 : 00 ☒ p.m.
☒ p.m.

12. Sediment in well _____ inches bottom _____ inches

13. Water clarity Clear ☐ 1 0 Clear ☒ 2 0
Turbid ☒ 1 5 Turbid ☐ 2 5
(Describe) (Describe)

Medium brown color Medium brown color
Very turbid Slightly to moderately turbid

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

14. Total suspended _____ mg/l _____ mg/l
solids

15. COD _____ mg/l _____ mg/l

16. Well developed by: Name (first, last) and Firm

First Name: Nate Last Name: Harms

Firm: SCS ENGINEERS, 2830 Dairy Drive, Madison, WI 53718

Name and Address of Facility Contact /Owner/Responsible Party

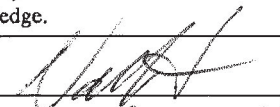
First Name: Jim Last Name: Jakubiak

Facility/Firm: WP&L Alliant Energy

Street: 3739 Lakeshore Drive

City/State/Zip: Sheboygan, WI 53082

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

Signature: 

Print Name: Nate Harms

Firm: SCS ENGINEERS, 2830 Dairy Drive, Madison, WI 53718

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

State of Wisconsin
Department of Natural Resources**MONITORING WELL DEVELOPMENT**
Form 4400-113B Rev. 7-98Route to: Watershed/Wastewater ☐ Waste Management ☒
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name Alliant Energy I-43	County Name Sheboygan	Well Name MW-302	
Facility License, Permit or Monitoring Number	County Code 59	Wis. Unique Well Number VV-863	DNR Well ID Number

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

2. Well development method

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

3. Time spent developing well 145 min.4. Depth of well (from top of well casing) 143.8 ft.5. Inside diameter of well 2.0 in.6. Volume of water in filter pack and well casing 19.3 gal.7. Volume of water removed from well 296 gal.8. Volume of water added (if any) - gal.

9. Source of water added _____

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

17. Additional comments on development:

Before Development After Development

11. Depth to Water

(from top of well casing) a. 51 23 ft. 51 24 ft.

Date

b. 02 / 16 / 2016 02 / 16 / 2016
m m d d y y y y m m d d y y y y

Time

c. 11 : 55 ☒ a.m. 14 : 20 ☒ p.m.12. Sediment in well bottom inches inches

13. Water clarity

Clear ☐ 1 0 Clear ☒ 2 0
 Turbid ☒ 1 5 Turbid ☐ 2 5
 (Describe) (Describe)

Medium brown color Medium brown color
 Very turbid Very slight turbidity

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

14. Total suspended solids mg/l mg/l15. COD mg/l mg/l

16. Well developed by: Name (first, last) and Firm

First Name: Nate Last Name: Harms

Firm: SCS ENGINEERS, 2830 Dairy Drive, Madison, WI 53718

Name and Address of Facility Contact/Owner/Responsible Party

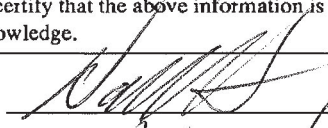
First Name: Jim Last Name: Jakubiak

Facility/Firm: WP&L Alliant Energy

Street: 3739 Lakeshore Drive

City/State/Zip: Sheboygan, WI 53082

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

Signature: 

Print Name: Nate Harms

Firm: SCS ENGINEERS, 2830 Dairy Drive, Madison, WI 53718

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

State of Wisconsin
Department of Natural Resources**MONITORING WELL DEVELOPMENT**
Form 4400-113B Rev. 7-98Route to: Watershed/Wastewater ☐Waste Management ☒Remediation/Redevelopment ☐Other ☐

Facility/Project Name Alliant Energy I-43	County Name Sheboygan	Well Name MW-303	
Facility License, Permit or Monitoring Number	County Code 59	Wis. Unique Well Number VV-865	DNR Well ID Number

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

2. Well development method

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

3. Time spent developing well _____ 150 min.

4. Depth of well (from top of well casing) _____ 145.7 ft.

5. Inside diameter of well _____ 2.0 in.

6. Volume of water in filter pack and well casing _____ 18.4 gal.

7. Volume of water removed from well _____ 250 gal.

8. Volume of water added (if any) _____ - gal.

9. Source of water added _____

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

17. Additional comments on development:

11. Depth to Water Before Development After Development

(from top of well casing) a. _____ 67 _____ 86 ft. _____ 67 _____ 86 ft.

Date b. 02 / 16 / 2016 02 / 16 / 2016
m m d d y y y y m m d d y y y y

Time c. 15 : 10 ☐ a.m. 17 : 40 ☒ p.m.
☒ p.m.

12. Sediment in well bottom _____ inches _____ inches

13. Water clarity Clear ☐ 1 0 Clear ☒ 2 0
Turbid ☒ 1 5 Turbid ☐ 2 5
(Describe) (Describe)

Medium brown color Light brown color
Very turbid very slight turbidity

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

14. Total suspended _____ mg/l _____ mg/l
solids

15. COD _____ mg/l _____ mg/l

16. Well developed by: Name (first, last) and Firm

First Name: Nate Last Name: Harms

Firm: SCS ENGINEERS, 2830 Dairy Drive, Madison, WI 53718

Name and Address of Facility Contact/Owner/Responsible Party

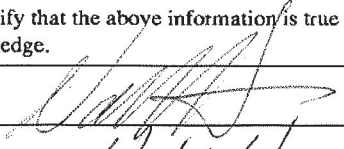
First Name: Jim Last Name: Jakubiak

Facility/Firm: WP&L Alliant Energy

Street: 3739 Lakeshore Drive

City/State/Zip: Sheboygan, WI 53082

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

Signature: 

Print Name: Nate Harms

Firm: SCS ENGINEERS, 2830 Dairy Drive, Madison, WI 53718

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

State of Wisconsin
Department of Natural ResourcesMONITORING WELL DEVELOPMENT
Form 4400-113B Rev. 7-98Route to: Watershed/Wastewater ☐ Waste Management ☒
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name Alliant Energy I-43	County Name Sheboygan	Well Name MW-304
Facility License, Permit or Monitoring Number	County Code 59	Wis. Unique Well Number VV-866
		DNR Well ID Number

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

2. Well development method

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

3. Time spent developing well 120 min.4. Depth of well (from top of well casing) 145.7 ft.5. Inside diameter of well 2.0 in.6. Volume of water in filter pack and well casing 18.4 gal.7. Volume of water removed from well 240 gal.8. Volume of water added (if any) - gal.

9. Source of water added _____

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

17. Additional comments on development:

Before Development After Development

11. Depth to Water

(from top of well casing) a. 39.15 ft. 39.39 ft.Date b. 02/16/2016 02/16/2016
m m d d y y y y m m d d y y y yTime c. 16:40 ☒ a.m. 18:40 ☒ p.m.12. Sediment in well bottom inches inches13. Water clarity Clear ☐ 1 0 Clear ☒ 2 0
Turbid ☒ 1 5 Turbid ☐ 2 5
(Describe) (Describe)Medium brown color Water mostly clear
Very turbid Very slight turbidity

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

14. Total suspended mg/l mg/l
solids15. COD mg/l mg/l

16. Well developed by: Name (first, last) and Firm

First Name: Nate Last Name: Harms

Firm: SCS ENGINEERS, 2830 Dairy Drive, Madison, WI 53718

Name and Address of Facility Contact /Owner/Responsible Party

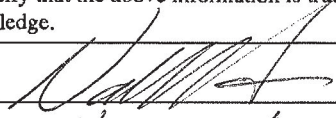
First Name: Jim Last Name: Jakubiak

Facility/Firm: WP&L Alliant Energy

Street: 3739 Lakeshore Drive

City/State/Zip: Sheboygan, WI 53082

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

Signature: 

Print Name: Nate Harms

Firm: SCS ENGINEERS, 2830 Dairy Drive, Madison, WI 53718

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

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT
Form 4400-113B Rev. 7-98

Route to: Watershed/Wastewater ☐

Waste Management ☒

Remediation/Redevelopment ☐

Other ☐

Facility/Project Name WPL-I-43	County Name Sheboygan	Well Name MW-305	
Facility License, Permit or Monitoring Number 02853	County Code 59	Wis. Unique Well Number VY819	DNR Well ID Number _____

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

2. Well development method

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

3. Time spent developing well _____ 162 min.

4. Depth of well (from top of well casing) _____ 122.97 ft.

5. Inside diameter of well _____ 1.9 in.

6. Volume of water in filter pack and well casing _____ 14.16 gal.

7. Volume of water removed from well _____ 135.0 gal.

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

9. Source of water added _____ NA

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

17. Additional comments on development:

Water clarity was clear before ten well volumes.

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. _____ 59. _____ 56 ft.	_____ 59. _____ 46 ft.
Date	b. <u>2</u> / <u>7</u> / <u>2017</u> m m d d y y y y	<u>2</u> / <u>7</u> / <u>2017</u> m m d d y y y y
Time	c. <u>11</u> : <u>00</u> ☒ a.m. ☐ p.m.	<u>2</u> : <u>05</u> ☐ a.m. ☒ p.m.
12. Sediment in well bottom	_____ inches	_____ inches
13. Water clarity	Clear ☐ 1 0 Turbid ☒ 1 5 (Describe) _____ Brown _____ _____ _____ _____	Clear ☒ 2 0 Turbid ☐ 2 5 (Describe) _____ _____ _____ _____
Fill in if drilling fluids were used and well is at solid waste facility:		
14. Total suspended solids	_____ mg/l	_____ mg/l
15. COD	_____ mg/l	_____ mg/l
16. Well developed by: Name (first, last) and Firm		
First Name: Kyle Last Name: Kramer		
Firm: SCS ENGINEERS, 2830 Dairy Drive, Madison, WI 53718		

Name and Address of Facility Contact /Owner/Responsible Party

First Name: Jim Last Name: Jakubiak

Facility/Firm: Wisconsin Power and Light

Street: 3739 Lakeshore Drive

City/State/Zip: Sheboygan, WI 53081

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

Signature: 

Print Name: Kyle Kramer

Firm: SCS ENGINEERS, 2830 Dairy Drive, Madison, WI 53718

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

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

Facility/Project Name WPL Edgewater I-43 Ash Disposal Facility	County Name Sheboygan	Well Name MW-306	
Facility License, Permit or Monitoring Number 02853	County Code 60	Wis. Unique Well Number VS193	DNR Well ID Number _____

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

2. Well development method

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

3. Time spent developing well _____ 90 min.

4. Depth of well (from top of well casing) _____ 134.9 ft.

5. Inside diameter of well _____ 1 9 in.

6. Volume of water in filter pack and well casing _____ 16 8 gal.

7. Volume of water removed from well _____ 20 gal.

8. Volume of water added (if any) _____ 0 gal.

9. Source of water added _____ N/A

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

17. Additional comments on development:

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. _____ 40 _____ ft.	_____ 133 _____ ft.
Date	b. _____ 07 / _____ 19 / _____ 2024 m m d d y y	_____ 07 / _____ 19 / _____ 2024 m m d d y y
Time	c. _____ 9 : 00 ☒ a.m. ☐ p.m.	_____ 11 : 30 ☒ a.m. ☐ p.m.
12. Sediment in well bottom	_____ 0 _____ inches	_____ 0 _____ inches
13. Water clarity	Clear ☐ 1 0 Turbid ☒ 1 5 (Describe)	Clear ☐ 2 0 Turbid ☒ 2 5 (Describe)
	Very turbid (milky)	Less turbid
Fill in if drilling fluids were used and well is at solid waste facility:		
14. Total suspended solids	_____ mg/l	_____ mg/l
15. COD	_____ mg/l	_____ mg/l
16. Well developed by: Name (first, last) and Firm		
First Name: Will Last Name: Ouimet		
Firm: SCS ENGINEERS, 2830 Dairy Drive, Madison, WI 53718		

Name and Address of Facility Contact / Owner / Responsible Party

First Name: _____ Last Name: _____

Facility/Firm: Alliant Energy / WPL

Street: 3739 Lakeshore Drive

City/State/Zip: Sheboygan, WI 53081

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

Signature: William Ouimet

Print Name: Will Ouimet

Firm: SCS ENGINEERS, 2830 Dairy Drive, Madison, WI 53718



Appendix C

Laboratory Reports

C1 October 2024 Detection Monitoring



October 24, 2024

Meghan Blodgett
SCS ENGINEERS
2830 Dairy Drive
Madison, WI 53718

RE: Project: 2522069 EDGEWATER CCR (I-43)
Pace Project No.: 40285267

Dear Meghan Blodgett:

Enclosed are the analytical results for sample(s) received by the laboratory on October 05, 2024. 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

cc: Matt Bizjack, Alliant Energy
Natalie Burris, SCS ENGINEERS
Sherren Clark, SCS Engineers
Jenny Coughlin, Alliant Energy
Tom Karwoski, SCS ENGINEERS
Ryan Matzuk, SCS Engineers
Jeff Maxted, ALLIANT ENERGY



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 2522069 EDGEWATER CCR (I-43)

Pace Project No.: 40285267

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

South Carolina Certification #: 83006001

Texas Certification #: T104704529-21-8

Virginia VELAP Certification ID: 11873

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-21-00008

Federal Fish & Wildlife Permit #: 51774A

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SAMPLE SUMMARY

Project: 2522069 EDGEWATER CCR (I-43)

Pace Project No.: 40285267

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40285267001	MW-301	Water	10/02/24 13:25	10/05/24 08:55
40285267002	MW-302	Water	10/02/24 14:35	10/05/24 08:55
40285267003	MW-303	Water	10/02/24 12:20	10/05/24 08:55
40285267004	MW-304	Water	10/02/24 11:30	10/05/24 08:55
40285267005	MW-305	Water	10/02/24 10:30	10/05/24 08:55
40285267006	FIELD BLANK	Water	10/02/24 13:55	10/05/24 08:55

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SAMPLE ANALYTE COUNT

Project: 2522069 EDGEWATER CCR (I-43)

Pace Project No.: 40285267

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40285267001	MW-301	EPA 6010D	SIS	5
		EPA 6020B	KXS	2
			AG1	7
		SM 2540C	LMB	1
		EPA 9040	HML	1
		EPA 300.0	HMB	3
		EPA 310.2	MT	1
40285267002	MW-302	EPA 353.2	MT	1
		EPA 6010D	SIS	5
		EPA 6020B	KXS	2
			AG1	7
		SM 2540C	LMB	1
		EPA 9040	HML	1
		EPA 300.0	HMB	3
40285267003	MW-303	EPA 310.2	MT	1
		EPA 353.2	MT	1
		EPA 6010D	SIS	5
		EPA 6020B	KXS	2
			AG1	7
		SM 2540C	LMB	1
		EPA 9040	HML	1
40285267004	MW-304	EPA 300.0	HMB	3
		EPA 310.2	MT	1
		EPA 353.2	MT	1
		EPA 6010D	SIS	5
		EPA 6020B	KXS	2
			AG1	7
		SM 2540C	LMB	1
40285267005	MW-305	EPA 9040	HML	1
		EPA 300.0	HMB	3
		EPA 310.2	MT	1
		EPA 353.2	MT	1
		EPA 6010D	SIS	5
		EPA 6020B	KXS	2
			AG1	7
		SM 2540C	LMB	1
		EPA 9040	HML	1

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SAMPLE ANALYTE COUNT

Project: 2522069 EDGEWATER CCR (I-43)

Pace Project No.: 40285267

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40285267006	FIELD BLANK	EPA 300.0	HMB	3
		EPA 310.2	MT	1
		EPA 353.2	MT	1
		EPA 6010D	SIS	5
		EPA 6020B	KXS	2
		SM 2540C	LMB	1
		EPA 9040	HML	1
		EPA 300.0	HMB	3
		EPA 310.2	MT	1
		EPA 353.2	MT	1

PASI-G = Pace Analytical Services - Green Bay

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2522069 EDGEWATER CCR (I-43)

Pace Project No.: 40285267

Sample: MW-301 Lab ID: 40285267001 Collected: 10/02/24 13:25 Received: 10/05/24 08:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Green Bay									
Copper	<3.4	ug/L	10.0	3.4	1	10/08/24 08:01	10/08/24 20:28	7440-50-8	
Manganese	14.5	ug/L	5.0	1.5	1	10/08/24 08:01	10/08/24 20:28	7439-96-5	
Silver	<3.2	ug/L	10.0	3.2	1	10/08/24 08:01	10/08/24 20:28	7440-22-4	
Total Hardness by 2340B	158	mg/L	5.4	1.0	1	10/08/24 08:01	10/08/24 20:28		
Zinc	<11.6	ug/L	40.0	11.6	1	10/08/24 08:01	10/08/24 20:28	7440-66-6	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3010A									
Pace Analytical Services - Green Bay									
Boron	130	ug/L	10.0	3.0	1	10/08/24 08:28	10/14/24 13:01	7440-42-8	
Calcium	24300	ug/L	254	76.2	1	10/08/24 08:28	10/14/24 13:01	7440-70-2	
Field Data									
Analytical Method:									
Pace Analytical Services - Green Bay									
Field pH	7.72	Std. Units			1		10/02/24 13:25		
Field Specific Conductance	351	umhos/cm			1		10/02/24 13:25		
Oxygen, Dissolved	0.78	mg/L			1		10/02/24 13:25	7782-44-7	
REDOX	665.4	mV			1		10/02/24 13:25		
Turbidity	22.40	NTU			1		10/02/24 13:25		
Static Water Level	650.21	feet			1		10/02/24 13:25		
Temperature, Water (C)	12.0	deg C			1		10/02/24 13:25		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Pace Analytical Services - Green Bay									
Total Dissolved Solids	200	mg/L	20.0	8.7	1		10/08/24 18:03		
9040 pH									
Analytical Method: EPA 9040									
Pace Analytical Services - Green Bay									
pH at 25 Degrees C	8.5	Std. Units	0.10	0.010	1		10/16/24 17:30		H6
300.0 IC Anions									
Analytical Method: EPA 300.0									
Pace Analytical Services - Green Bay									
Chloride	3.3	mg/L	2.0	0.59	1		10/18/24 20:51	16887-00-6	
Fluoride	0.65	mg/L	0.32	0.095	1		10/18/24 20:51	16984-48-8	
Sulfate	10.3	mg/L	2.0	0.44	1		10/18/24 20:51	14808-79-8	
310.2 Alkalinity									
Analytical Method: EPA 310.2									
Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO3	198	mg/L	25.0	7.4	1		10/08/24 14:01		
353.2 Nitrogen, NO2/NO3 pres.									
Analytical Method: EPA 353.2									
Pace Analytical Services - Green Bay									
Nitrogen, NO2 plus NO3	<0.059	mg/L	0.25	0.059	1		10/17/24 07:52		

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ANALYTICAL RESULTS

Project: 2522069 EDGEWATER CCR (I-43)

Pace Project No.: 40285267

Sample: MW-302 Lab ID: 40285267002 Collected: 10/02/24 14:35 Received: 10/05/24 08:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Green Bay									
Copper	<3.4	ug/L	10.0	3.4	1	10/08/24 08:01	10/08/24 20:30	7440-50-8	
Manganese	14.4	ug/L	5.0	1.5	1	10/08/24 08:01	10/08/24 20:30	7439-96-5	
Silver	<3.2	ug/L	10.0	3.2	1	10/08/24 08:01	10/08/24 20:30	7440-22-4	
Total Hardness by 2340B	181	mg/L	5.4	1.0	1	10/08/24 08:01	10/08/24 20:30		
Zinc	<11.6	ug/L	40.0	11.6	1	10/08/24 08:01	10/08/24 20:30	7440-66-6	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3010A									
Pace Analytical Services - Green Bay									
Boron	126	ug/L	10.0	3.0	1	10/08/24 08:28	10/14/24 13:05	7440-42-8	
Calcium	28200	ug/L	254	76.2	1	10/08/24 08:28	10/14/24 13:05	7440-70-2	
Field Data									
Analytical Method:									
Pace Analytical Services - Green Bay									
Field pH	7.75	Std. Units			1		10/02/24 14:35		
Field Specific Conductance	401	umhos/cm			1		10/02/24 14:35		
Oxygen, Dissolved	1.25	mg/L			1		10/02/24 14:35	7782-44-7	
REDOX	631.4	mV			1		10/02/24 14:35		
Turbidity	11.49	NTU			1		10/02/24 14:35		
Static Water Level	650.48	feet			1		10/02/24 14:35		
Temperature, Water (C)	13.1	deg C			1		10/02/24 14:35		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Pace Analytical Services - Green Bay									
Total Dissolved Solids	192	mg/L	20.0	8.7	1		10/08/24 18:03		
9040 pH									
Analytical Method: EPA 9040									
Pace Analytical Services - Green Bay									
pH at 25 Degrees C	8.5	Std. Units	0.10	0.010	1		10/16/24 17:31		H6
300.0 IC Anions									
Analytical Method: EPA 300.0									
Pace Analytical Services - Green Bay									
Chloride	4.0	mg/L	2.0	0.59	1		10/18/24 21:01	16887-00-6	
Fluoride	0.75	mg/L	0.32	0.095	1		10/18/24 21:01	16984-48-8	
Sulfate	19.4	mg/L	2.0	0.44	1		10/18/24 21:01	14808-79-8	
310.2 Alkalinity									
Analytical Method: EPA 310.2									
Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO3	213	mg/L	25.0	7.4	1		10/08/24 14:02		
353.2 Nitrogen, NO2/NO3 pres.									
Analytical Method: EPA 353.2									
Pace Analytical Services - Green Bay									
Nitrogen, NO2 plus NO3	<0.059	mg/L	0.25	0.059	1		10/17/24 07:53		

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ANALYTICAL RESULTS

Project: 2522069 EDGEWATER CCR (I-43)

Pace Project No.: 40285267

Sample: MW-303 Lab ID: 40285267003 Collected: 10/02/24 12:20 Received: 10/05/24 08:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Green Bay									
Copper	<3.4	ug/L	10.0	3.4	1	10/08/24 08:01	10/08/24 20:32	7440-50-8	
Manganese	3.5J	ug/L	5.0	1.5	1	10/08/24 08:01	10/08/24 20:32	7439-96-5	
Silver	<3.2	ug/L	10.0	3.2	1	10/08/24 08:01	10/08/24 20:32	7440-22-4	
Total Hardness by 2340B	195	mg/L	5.4	1.0	1	10/08/24 08:01	10/08/24 20:32		
Zinc	<11.6	ug/L	40.0	11.6	1	10/08/24 08:01	10/08/24 20:32	7440-66-6	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3010A									
Pace Analytical Services - Green Bay									
Boron	83.0	ug/L	10.0	3.0	1	10/08/24 08:28	10/14/24 13:18	7440-42-8	
Calcium	28700	ug/L	254	76.2	1	10/08/24 08:28	10/14/24 13:18	7440-70-2	
Field Data									
Analytical Method:									
Pace Analytical Services - Green Bay									
Field pH	7.72	Std. Units			1		10/02/24 12:20		
Field Specific Conductance	453	umhos/cm			1		10/02/24 12:20		
Oxygen, Dissolved	2.28	mg/L			1		10/02/24 12:20	7782-44-7	
REDOX	751.0	mV			1		10/02/24 12:20		
Turbidity	0.27	NTU			1		10/02/24 12:20		
Static Water Level	650.15	feet			1		10/02/24 12:20		
Temperature, Water (C)	12.3	deg C			1		10/02/24 12:20		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Pace Analytical Services - Green Bay									
Total Dissolved Solids	266	mg/L	20.0	8.7	1		10/08/24 18:04		
9040 pH									
Analytical Method: EPA 9040									
Pace Analytical Services - Green Bay									
pH at 25 Degrees C	8.4	Std. Units	0.10	0.010	1		10/16/24 17:38		H6
300.0 IC Anions									
Analytical Method: EPA 300.0									
Pace Analytical Services - Green Bay									
Chloride	3.8	mg/L	2.0	0.59	1		10/18/24 21:12	16887-00-6	
Fluoride	0.63	mg/L	0.32	0.095	1		10/18/24 21:12	16984-48-8	
Sulfate	24.7	mg/L	2.0	0.44	1		10/18/24 21:12	14808-79-8	
310.2 Alkalinity									
Analytical Method: EPA 310.2									
Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO3	240	mg/L	25.0	7.4	1		10/08/24 14:03		
353.2 Nitrogen, NO2/NO3 pres.									
Analytical Method: EPA 353.2									
Pace Analytical Services - Green Bay									
Nitrogen, NO2 plus NO3	0.12J	mg/L	0.25	0.059	1		10/17/24 07:54		

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ANALYTICAL RESULTS

Project: 2522069 EDGEWATER CCR (I-43)

Pace Project No.: 40285267

Sample: MW-304 Lab ID: 40285267004 Collected: 10/02/24 11:30 Received: 10/05/24 08:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Green Bay									
Copper	<3.4	ug/L	10.0	3.4	1	10/08/24 08:01	10/08/24 20:34	7440-50-8	
Manganese	<1.5	ug/L	5.0	1.5	1	10/08/24 08:01	10/08/24 20:34	7439-96-5	
Silver	<3.2	ug/L	10.0	3.2	1	10/08/24 08:01	10/08/24 20:34	7440-22-4	
Total Hardness by 2340B	196	mg/L	5.4	1.0	1	10/08/24 08:01	10/08/24 20:34		
Zinc	15.7J	ug/L	40.0	11.6	1	10/08/24 08:01	10/08/24 20:34	7440-66-6	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3010A									
Pace Analytical Services - Green Bay									
Boron	89.4	ug/L	10.0	3.0	1	10/08/24 08:28	10/14/24 13:22	7440-42-8	
Calcium	21400	ug/L	254	76.2	1	10/08/24 08:28	10/14/24 13:22	7440-70-2	
Field Data									
Analytical Method:									
Pace Analytical Services - Green Bay									
Field pH	7.85	Std. Units			1		10/02/24 11:30		
Field Specific Conductance	406	umhos/cm			1		10/02/24 11:30		
Oxygen, Dissolved	1.22	mg/L			1		10/02/24 11:30	7782-44-7	
REDOX	623.4	mV			1		10/02/24 11:30		
Turbidity	20.40	NTU			1		10/02/24 11:30		
Static Water Level	652.01	feet			1		10/02/24 11:30		
Temperature, Water (C)	10.7	deg C			1		10/02/24 11:30		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Pace Analytical Services - Green Bay									
Total Dissolved Solids	226	mg/L	20.0	8.7	1		10/08/24 18:04		
9040 pH									
Analytical Method: EPA 9040									
Pace Analytical Services - Green Bay									
pH at 25 Degrees C	8.4	Std. Units	0.10	0.010	1		10/16/24 17:41		H6
300.0 IC Anions									
Analytical Method: EPA 300.0									
Pace Analytical Services - Green Bay									
Chloride	2.7	mg/L	2.0	0.59	1		10/18/24 21:23	16887-00-6	
Fluoride	0.49	mg/L	0.32	0.095	1		10/18/24 21:23	16984-48-8	
Sulfate	17.4	mg/L	2.0	0.44	1		10/18/24 21:23	14808-79-8	
310.2 Alkalinity									
Analytical Method: EPA 310.2									
Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO3	216	mg/L	25.0	7.4	1		10/08/24 14:04		
353.2 Nitrogen, NO2/NO3 pres.									
Analytical Method: EPA 353.2									
Pace Analytical Services - Green Bay									
Nitrogen, NO2 plus NO3	<0.059	mg/L	0.25	0.059	1		10/17/24 07:54		

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ANALYTICAL RESULTS

Project: 2522069 EDGEWATER CCR (I-43)

Pace Project No.: 40285267

Sample: MW-305 Lab ID: 40285267005 Collected: 10/02/24 10:30 Received: 10/05/24 08:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Green Bay									
Copper	<3.4	ug/L	10.0	3.4	1	10/08/24 08:01	10/08/24 20:36	7440-50-8	
Manganese	25.3	ug/L	5.0	1.5	1	10/08/24 08:01	10/08/24 20:36	7439-96-5	
Silver	<3.2	ug/L	10.0	3.2	1	10/08/24 08:01	10/08/24 20:36	7440-22-4	
Total Hardness by 2340B	508	mg/L	5.4	1.0	1	10/08/24 08:01	10/08/24 20:36		
Zinc	<11.6	ug/L	40.0	11.6	1	10/08/24 08:01	10/08/24 20:36	7440-66-6	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3010A									
Pace Analytical Services - Green Bay									
Boron	61.3	ug/L	10.0	3.0	1	10/08/24 08:28	10/14/24 13:26	7440-42-8	
Calcium	89600	ug/L	254	76.2	1	10/08/24 08:28	10/14/24 13:26	7440-70-2	
Field Data									
Analytical Method:									
Pace Analytical Services - Green Bay									
Field pH	7.33	Std. Units			1		10/02/24 10:30		
Field Specific Conductance	879	umhos/cm			1		10/02/24 10:30		
Oxygen, Dissolved	2.74	mg/L			1		10/02/24 10:30	7782-44-7	
REDOX	575.1	mV			1		10/02/24 10:30		
Turbidity	3.09	NTU			1		10/02/24 10:30		
Static Water Level	656.60	feet			1		10/02/24 10:30		
Temperature, Water (C)	13.9	deg C			1		10/02/24 10:30		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Pace Analytical Services - Green Bay									
Total Dissolved Solids	504	mg/L	20.0	8.7	1		10/08/24 18:05		
9040 pH									
Analytical Method: EPA 9040									
Pace Analytical Services - Green Bay									
pH at 25 Degrees C	8.3	Std. Units	0.10	0.010	1		10/16/24 17:46		H6
300.0 IC Anions									
Analytical Method: EPA 300.0									
Pace Analytical Services - Green Bay									
Chloride	31.1	mg/L	2.0	0.59	1		10/18/24 21:34	16887-00-6	M0
Fluoride	0.78	mg/L	0.32	0.095	1		10/18/24 21:34	16984-48-8	
Sulfate	116	mg/L	20.0	4.4	10		10/21/24 12:47	14808-79-8	M0
310.2 Alkalinity									
Analytical Method: EPA 310.2									
Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO3	363	mg/L	25.0	7.4	1		10/08/24 14:06		
353.2 Nitrogen, NO2/NO3 pres.									
Analytical Method: EPA 353.2									
Pace Analytical Services - Green Bay									
Nitrogen, NO2 plus NO3	<0.059	mg/L	0.25	0.059	1		10/17/24 07:55		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2522069 EDGEWATER CCR (I-43)

Pace Project No.: 40285267

Sample: FIELD BLANK		Lab ID: 40285267006		Collected: 10/02/24 13:55		Received: 10/05/24 08:55		Matrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Green Bay							
Copper	<3.4	ug/L	10.0	3.4	1	10/08/24 08:01	10/08/24 20:38	7440-50-8	
Manganese	<1.5	ug/L	5.0	1.5	1	10/08/24 08:01	10/08/24 20:38	7439-96-5	
Silver	<3.2	ug/L	10.0	3.2	1	10/08/24 08:01	10/08/24 20:38	7440-22-4	
Total Hardness by 2340B	<1.0	mg/L	5.4	1.0	1	10/08/24 08:01	10/08/24 20:38		
Zinc	<11.6	ug/L	40.0	11.6	1	10/08/24 08:01	10/08/24 20:38	7440-66-6	
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Green Bay							
Boron	<3.0	ug/L	10.0	3.0	1	10/08/24 08:28	10/14/24 14:08	7440-42-8	
Calcium	<76.2	ug/L	254	76.2	1	10/08/24 08:28	10/14/24 14:08	7440-70-2	
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Green Bay							
Total Dissolved Solids	<8.7	mg/L	20.0	8.7	1		10/15/24 17:21		H1
9040 pH		Analytical Method: EPA 9040 Pace Analytical Services - Green Bay							
pH at 25 Degrees C	6.9	Std. Units	0.10	0.010	1		10/16/24 17:53		H6
300.0 IC Anions		Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay							
Chloride	<0.59	mg/L	2.0	0.59	1		10/23/24 00:44	16887-00-6	
Fluoride	<0.095	mg/L	0.32	0.095	1		10/23/24 00:44	16984-48-8	
Sulfate	<0.44	mg/L	2.0	0.44	1		10/23/24 00:44	14808-79-8	
310.2 Alkalinity		Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay							
Alkalinity, Total as CaCO3	<7.4	mg/L	25.0	7.4	1		10/08/24 14:10		
353.2 Nitrogen, NO2/NO3 pres.		Analytical Method: EPA 353.2 Pace Analytical Services - Green Bay							
Nitrogen, NO2 plus NO3	<0.059	mg/L	0.25	0.059	1		10/17/24 07:56		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2522069 EDGEWATER CCR (I-43)

Pace Project No.: 40285267

QC Batch: 486501

Analysis Method: EPA 6010D

QC Batch Method: EPA 3010A

Analysis Description: 6010D MET

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40285267001, 40285267002, 40285267003, 40285267004, 40285267005, 40285267006

METHOD BLANK: 2786292

Matrix: Water

Associated Lab Samples: 40285267001, 40285267002, 40285267003, 40285267004, 40285267005, 40285267006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Copper	ug/L	<3.4	10.0	10/08/24 19:40	
Manganese	ug/L	<1.5	5.0	10/08/24 19:40	
Silver	ug/L	<3.2	10.0	10/08/24 19:40	
Total Hardness by 2340B	mg/L	<1.0	5.4	10/08/24 19:40	
Zinc	ug/L	<11.6	40.0	10/08/24 19:40	

LABORATORY CONTROL SAMPLE: 2786293

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Copper	ug/L	250	263	105	80-120	
Manganese	ug/L	250	263	105	80-120	
Silver	ug/L	125	128	102	80-120	
Total Hardness by 2340B	mg/L		67.5			
Zinc	ug/L	250	254	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2786294 2786295

Parameter	Units	40285189001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Copper	ug/L	<3.4	250	250	264	261	105	104	75-125	1	20	
Manganese	ug/L	239	250	250	503	496	106	103	75-125	1	20	
Silver	ug/L	<3.2	125	125	130	129	104	103	75-125	1	20	
Total Hardness by 2340B	mg/L	227			297	291				2	20	
Zinc	ug/L	48.5	250	250	258	250	84	81	75-125	3	20	

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QUALITY CONTROL DATA

Project: 2522069 EDGEWATER CCR (I-43)

Pace Project No.: 40285267

QC Batch: 486504

Analysis Method: EPA 6020B

QC Batch Method: EPA 3010A

Analysis Description: 6020B MET

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40285267001, 40285267002, 40285267003, 40285267004, 40285267005, 40285267006

METHOD BLANK: 2786304

Matrix: Water

Associated Lab Samples: 40285267001, 40285267002, 40285267003, 40285267004, 40285267005, 40285267006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron	ug/L	<3.0	10.0	10/14/24 12:27	
Calcium	ug/L	<76.2	254	10/14/24 12:27	

LABORATORY CONTROL SAMPLE: 2786305

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	ug/L	250	213	85	80-120	
Calcium	ug/L	10000	9990	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2786306 2786307

Parameter	Units	40285156001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	ug/L	18.9	250	250	240	245	89	90	75-125	2	20	
Calcium	ug/L	22700	10000	10000	31800	32500	91	98	75-125	2	20	

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QUALITY CONTROL DATA

Project: 2522069 EDGEWATER CCR (I-43)

Pace Project No.: 40285267

QC Batch:	486616	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Green Bay

Associated Lab Samples: 40285267001, 40285267002, 40285267003, 40285267004, 40285267005

METHOD BLANK: 2786836 Matrix: Water

Associated Lab Samples: 40285267001, 40285267002, 40285267003, 40285267004, 40285267005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<8.7	20.0	10/08/24 17:59	

LABORATORY CONTROL SAMPLE: 2786837

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	582	506	87	80-120	

SAMPLE DUPLICATE: 2786842

Parameter	Units	40285126001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	498	472	5	10	

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QUALITY CONTROL DATA

Project: 2522069 EDGEWATER CCR (I-43)

Pace Project No.: 40285267

QC Batch: 487239

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40285267006

METHOD BLANK: 2790274

Matrix: Water

Associated Lab Samples: 40285267006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<8.7	20.0	10/15/24 17:20	

LABORATORY CONTROL SAMPLE: 2790275

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	582	548	94	80-120	

SAMPLE DUPLICATE: 2790277

Parameter	Units	40285651003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	434	414	5	10	

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QUALITY CONTROL DATA

Project: 2522069 EDGEWATER CCR (I-43)
Pace Project No.: 40285267

QC Batch:	487364	Analysis Method:	EPA 9040
QC Batch Method:	EPA 9040	Analysis Description:	9040 pH
		Laboratory:	Pace Analytical Services - Green Bay
Associated Lab Samples: 40285267001, 40285267002, 40285267003, 40285267004, 40285267005, 40285267006			

SAMPLE DUPLICATE: 2790786

Parameter	Units	40285189001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.5	8.5	0	20	H6

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REPORT OF LABORATORY ANALYSIS



QUALITY CONTROL DATA

Project: 2522069 EDGEWATER CCR (I-43)

Pace Project No.: 40285267

QC Batch: 487590

Analysis Method: EPA 300.0

QC Batch Method: EPA 300.0

Analysis Description: 300.0 IC Anions

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40285267001, 40285267002, 40285267003, 40285267004, 40285267005

METHOD BLANK: 2792311

Matrix: Water

Associated Lab Samples: 40285267001, 40285267002, 40285267003, 40285267004, 40285267005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<0.59	2.0	10/18/24 16:18	
Fluoride	mg/L	<0.095	0.32	10/18/24 16:18	
Sulfate	mg/L	<0.44	2.0	10/18/24 16:18	

LABORATORY CONTROL SAMPLE: 2792312

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	21.2	106	90-110	
Fluoride	mg/L	2	2.0	102	90-110	
Sulfate	mg/L	20	21.3	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2792313 2792314

Parameter	Units	40285193003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	5.4	20	20	27.2	27.6	109	111	90-110	1	15	M0
Fluoride	mg/L	<0.095	2	2	2.1	2.1	105	106	90-110	1	15	
Sulfate	mg/L	57.5	100	100	167	157	109	100	90-110	6	15	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2792315 2792316

Parameter	Units	40285267005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	31.1	20	20	53.0	53.4	109	112	90-110	1	15	M0
Fluoride	mg/L	0.78	2	2	2.8	2.9	103	106	90-110	2	15	
Sulfate	mg/L	116	200	200	377	345	130	114	90-110	9	15	M0

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QUALITY CONTROL DATA

Project: 2522069 EDGEWATER CCR (I-43)
Pace Project No.: 40285267

QC Batch:	487594	Analysis Method:	EPA 300.0
QC Batch Method:	EPA 300.0	Analysis Description:	300.0 IC Anions
		Laboratory:	Pace Analytical Services - Green Bay

Associated Lab Samples: 40285267006

METHOD BLANK: 2792333 Matrix: Water

Associated Lab Samples: 40285267006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<0.59	2.0	10/23/24 00:23	
Fluoride	mg/L	<0.095	0.32	10/23/24 00:23	
Sulfate	mg/L	<0.44	2.0	10/23/24 00:23	

LABORATORY CONTROL SAMPLE: 2792334

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	20.9	105	90-110	
Fluoride	mg/L	2	2.0	102	90-110	
Sulfate	mg/L	20	21.1	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2792335 2792336

Parameter	Units	40285271001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	19.5	20	20	41.3	41.4	109	109	90-110	0	15	
Fluoride	mg/L	<0.095	2	2	2.1	2.1	103	103	90-110	0	15	
Sulfate	mg/L	15.4	20	20	37.1	37.2	109	109	90-110	0	15	

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QUALITY CONTROL DATA

Project: 2522069 EDGEWATER CCR (I-43)
Pace Project No.: 40285267

QC Batch: 486611 Analysis Method: EPA 310.2
QC Batch Method: EPA 310.2 Analysis Description: 310.2 Alkalinity
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40285267001, 40285267002, 40285267003, 40285267004, 40285267005, 40285267006

METHOD BLANK: 2786751 Matrix: Water
Associated Lab Samples: 40285267001, 40285267002, 40285267003, 40285267004, 40285267005, 40285267006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	<7.4	25.0	10/08/24 13:52	

LABORATORY CONTROL SAMPLE: 2786752

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	100	103	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2786753 2786754

Parameter	Units	40285201003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO ₃	mg/L	354	100	100	453	456	99	102	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2786755 2786756

Parameter	Units	40285280024 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO ₃	mg/L	510	200	200	701	697	96	93	90-110	1	20	

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QUALITY CONTROL DATA

Project: 2522069 EDGEWATER CCR (I-43)
Pace Project No.: 40285267

QC Batch: 487458 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, preserved
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40285267001, 40285267002, 40285267003, 40285267004, 40285267005, 40285267006

METHOD BLANK: 2791499 Matrix: Water
Associated Lab Samples: 40285267001, 40285267002, 40285267003, 40285267004, 40285267005, 40285267006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	<0.059	0.25	10/17/24 08:03	

LABORATORY CONTROL SAMPLE: 2791500

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2.5	2.5	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2791501 2791502

Parameter	Units	40285257004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	2.3	2.5	2.5	4.5	4.6	90	93	90-110	1	20	

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QUALIFIERS

Project: 2522069 EDGEWATER CCR (I-43)
Pace Project No.: 40285267

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 - The reported result is an estimated value.

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.

DL - Adjusted Method Detection Limit.

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 - Analyte was not detected and is reported as less than the LOD or as defined by the customer.

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

H1 Analysis conducted outside the recognized method holding time.

H6 Analysis initiated outside of the 15 minute EPA required holding time.

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2522069 EDGEWATER CCR (I-43)
Pace Project No.: 40285267

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40285267001	MW-301	EPA 3010A	486501	EPA 6010D	486632
40285267002	MW-302	EPA 3010A	486501	EPA 6010D	486632
40285267003	MW-303	EPA 3010A	486501	EPA 6010D	486632
40285267004	MW-304	EPA 3010A	486501	EPA 6010D	486632
40285267005	MW-305	EPA 3010A	486501	EPA 6010D	486632
40285267006	FIELD BLANK	EPA 3010A	486501	EPA 6010D	486632
40285267001	MW-301	EPA 3010A	486504	EPA 6020B	486648
40285267002	MW-302	EPA 3010A	486504	EPA 6020B	486648
40285267003	MW-303	EPA 3010A	486504	EPA 6020B	486648
40285267004	MW-304	EPA 3010A	486504	EPA 6020B	486648
40285267005	MW-305	EPA 3010A	486504	EPA 6020B	486648
40285267006	FIELD BLANK	EPA 3010A	486504	EPA 6020B	486648
40285267001	MW-301				
40285267002	MW-302				
40285267003	MW-303				
40285267004	MW-304				
40285267005	MW-305				
40285267001	MW-301	SM 2540C	486616		
40285267002	MW-302	SM 2540C	486616		
40285267003	MW-303	SM 2540C	486616		
40285267004	MW-304	SM 2540C	486616		
40285267005	MW-305	SM 2540C	486616		
40285267006	FIELD BLANK	SM 2540C	487239		
40285267001	MW-301	EPA 9040	487364		
40285267002	MW-302	EPA 9040	487364		
40285267003	MW-303	EPA 9040	487364		
40285267004	MW-304	EPA 9040	487364		
40285267005	MW-305	EPA 9040	487364		
40285267006	FIELD BLANK	EPA 9040	487364		
40285267001	MW-301	EPA 300.0	487590		
40285267002	MW-302	EPA 300.0	487590		
40285267003	MW-303	EPA 300.0	487590		
40285267004	MW-304	EPA 300.0	487590		
40285267005	MW-305	EPA 300.0	487590		
40285267006	FIELD BLANK	EPA 300.0	487594		
40285267001	MW-301	EPA 310.2	486611		
40285267002	MW-302	EPA 310.2	486611		
40285267003	MW-303	EPA 310.2	486611		
40285267004	MW-304	EPA 310.2	486611		
40285267005	MW-305	EPA 310.2	486611		
40285267006	FIELD BLANK	EPA 310.2	486611		
40285267001	MW-301	EPA 353.2	487458		
40285267002	MW-302	EPA 353.2	487458		
40285267003	MW-303	EPA 353.2	487458		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2522069 EDGEWATER CCR (I-43)
Pace Project No.: 40285267

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40285267004	MW-304	EPA 353.2	487458		
40285267005	MW-305	EPA 353.2	487458		
40285267006	FIELD BLANK	EPA 353.2	487458		

REPORT OF LABORATORY ANALYSIS

Pace Pace® Location Requested (City/State): Pace Analytical Green Bay 1241 Bellevue Street, Suite 9 Green Bay, WI 54302		CHAIN-OF-CUSTODY Analytical Request Document Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields		LAB USE ONLY- Affix Workorder/Login Label Here 40285267  Scan QR Code for instructions																							
Company Name: SCS ENGINEERS Street Address: 2830 Dairy Drive Madison, WI 53718		Contact/Report To: Meghan Blodgett Phone #: 608-216-7362 E-Mail: mblodgett@scsengineers.com Cc E-Mail:																									
Customer Project #: Project Name: 2522069 EDGEWATER CCR (I-43)		Invoice To: Accounts Payable Invoice E-Mail: aradunzel@scsengineers.com Purchase Order # (if applicable): Quote #:																									
Site Collection Info/Facility ID (as applicable):		Time Zone Collected: [] AK [] PT [] MT [] CT [] ET County / State origin of sample(s): Wisconsin																									
Data Deliverables: [] Level II [] Level III [] Level IV [] EQUIS [] Other		Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [] Yes [] No Rush (Pre-approval required): [] Same Day [] 1 Day [] 2 Day [] 3 Day [] Other Date Results Requested: Field Filtered (if applicable): [] Yes [] No Analysis:																									
* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)																											
Customer Sample ID		Matrix *	Comp / Grab	Composite Start Date Time		Collected or Composite End Date Time		# Cont.	Res. Chlorine Results Units		353.2 Nitrogen, NO2/NO3 pres.				Alkalinity	Hardness+B,Ca,Cu,Mn,Ag,Zn	TDS, Cl/F/SO4, pH	Lab Use Only Proj. Mgr: Dan Milewsky AcctNum / Client ID: Table #: Profile / Template: 3946 Prelog / Bottle Ord. ID: EZ 3158546 Sample Comment									
MW-301		WT	G			10/2/24 1325		4			X				X	X	X	001									
MW-302		WT				1435		1			X				X	X	X	002									
MW-303		WT				1220		1			X				X	X	X	003									
MW-304		WT				1130		1			X				X	X	X	004									
MW-305		WT				1030		1			X				X	X	X	005									
FIELD BLANK		WT				1355		1			X				X	X	X	006									
Additional Instructions from Pace®:														Collected By: (Printed Name) Will Quin Signature: William Quin				Customer Remarks / Special Conditions / Possible Hazards:									
Relinquished by/Company: (Signature) [Signature] SCS Date/Time: 10/4/24 1500														Received by/Company: (Signature) [Signature] Date/Time:				# Coolers: 1 Thermometer ID: 141 Correction Factor (°C): - Obs. Temp. (°C): 1.0 Corrected Temp. (°C): 1.0 On Ice: Y				Tracking Number:					
Relinquished by/Company: (Signature) CS Logistics Date/Time: 10/5/24 0855														Received by/Company: (Signature) [Signature] Date/Time: 10/5/24 0855				Delivered by: [] In-Person [X] Courier [] FedEx [] UPS [] Other				Page: 1 of 1					

Effective Date: 8/16/2022

Sample Preservation Receipt Form

Client Name: SCS Engineers

Project #

40285267

All containers needing preservation have been checked and noted below:

☐ Yes☐ No☐ N/A

Lab Lot# of pH paper:

1003733

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

Initial when completed:

GF

Date/Time:

Pace Lab #	Glass						Plastic					Vials					Jars				General				VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)																													
	AG1U	BG1U	AG1H	AG4S	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	BP2Z	VG9C	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU	WPFU	SP5T								ZPLC	GN 1	GN 2																										
001								2		-	-																					2.5 / 5																												
002								2		-	-																					2.5 / 5																												
003								2		-	-																					2.5 / 5																												
004								2		-	-																					2.5 / 5																												
005								2		-	-																					2.5 / 5																												
006								2		-	-																					2.5 / 5																												
007	10/5/24 GF																																																							2.5 / 5				
008																																																											2.5 / 5	
009																																																											2.5 / 5	
010																																																											2.5 / 5	
011																																																											2.5 / 5	
012																																																												2.5 / 5
013																																																												2.5 / 5
014																																																												2.5 / 5
015																																																												2.5 / 5
016																																																												2.5 / 5
017																																2.5 / 5																												
018																																2.5 / 5																												
019																																2.5 / 5																												
020																																2.5 / 5																												

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

Headspace in VOA Vials (>6mm) : ☐ Yes ☐ No ☒ N/A

*If yes look in headspace column

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	VG9C	40 mL clear ascorbic w/ HCl	JGFU	4 oz amber jar unpres
BG1U	1 liter clear glass	BP3U	250 mL plastic unpres	DG9T	40 mL amber Na Thio	JG9U	9 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP3B	250 mL plastic NaOH	VG9U	40 mL clear vial unpres	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H ₂ SO ₄	BP3N	250 mL plastic HNO ₃	VG9H	40 mL clear vial HCL	WPFU	4 oz plastic jar unpres
AG5U	100 mL amber glass unpres	BP3S	250 mL plastic H ₂ SO ₄	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H ₂ SO ₄	BP2Z	500 mL plastic NaOH + Zn	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres					GN 1	
						GN 2	

Page 1 of 2

Sample Condition Upon Receipt Form (SCUR)

Project #:

Client Name: SCS Engineers

Courier: ☒ CS Logistics ☐ Fed Ex ☐ Speedee ☐ UPS ☐ Walto
☐ Client ☐ Pace Other: _____

WO#: 40285267



40285267

Tracking #: _____

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

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

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

Thermometer Used SR-141 Type of Ice: ☒ Wet ☐ Blue ☐ Dry ☐ None ☐ Meltwater Only

Cooler Temperature Uncorr: 1.0 /Corr: 1.0

Temp Blank Present: ☐ yes ☒ no

Biological Tissue is Frozen: ☐ yes ☐ no

Person examining contents:

Date: 10/5/24 /Initials: GF

Labeled By Initials: MVB

Temp should be above freezing to 6°C.

Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Chain of Custody Present: ☒ Yes ☐ No ☐ N/A	1.
Chain of Custody Filled Out: ☐ Yes ☒ No ☐ N/A	2. <u>preserve</u> <u>10/5/24 GF</u>
Chain of Custody Relinquished: ☒ Yes ☐ No ☐ N/A	3.
Sampler Name & Signature on COC: ☒ Yes ☐ No ☐ N/A	4.
Samples Arrived within Hold Time: ☒ Yes ☐ No	5.
- DI VOA Samples frozen upon receipt ☐ Yes ☐ No	Date/Time: _____
Short Hold Time Analysis (<72hr): ☒ Yes ☐ No	6.
Rush Turn Around Time Requested: ☐ Yes ☒ No	7.
Sufficient Volume: _____	8.
For Analysis: ☐ Yes ☐ No MS/MSD: ☐ Yes ☒ No ☐ N/A	
Correct Containers Used: ☒ Yes ☐ No	9.
Correct Type: <u>Pace Green Bay</u> , Pace IR, Non-Pace	
Containers Intact: ☒ Yes ☐ No	10.
Filtered volume received for Dissolved tests ☐ Yes ☐ No ☒ N/A	11.
Sample Labels match COC: ☒ Yes ☐ No ☐ N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>W</u>	
Trip Blank Present: ☐ Yes ☐ No ☒ N/A	13.
Trip Blank Custody Seals Present ☐ Yes ☐ No ☒ N/A	
Pace Trip Blank Lot # (if purchased): _____	

Client Notification/ Resolution:

If checked, see attached form for additional comments ☐

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

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

Page 2 of 2



C2 April 2025 Detection Monitoring and MW-306 Background Monitoring



May 28, 2025

Meghan Blodgett
SCS ENGINEERS
2830 Dairy Drive
Madison, WI 53718

RE: Project: 2522069 EDGEWATER CCR (I-43)
Pace Project No.: 40294106

Dear Meghan Blodgett:

Enclosed are the analytical results for sample(s) received by the laboratory on April 24, 2025. 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
- Pace Analytical Services - Greensburg

Report revised to include select test results. This replaces the report generated on May 16, 2025.

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

cc: Matt Bizjack, Alliant Energy
Natalie Burris, SCS ENGINEERS
Sherren Clark, SCS Engineers
Jenny Coughlin, Alliant Energy
Tom Karwoski, SCS ENGINEERS
Ryan Matzuk, SCS Engineers
Jeff Maxted, ALLIANT ENERGY



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 2522069 EDGEWATER CCR (I-43)
Pace Project No.: 40294106

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
ANABISO/IEC 17025:2017 Rad Cert#: L24170
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 2950
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA010
Louisiana DEQ/TNI Certification #: 04086
Maine Certification #: 2023021
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991

Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572023-03
New Hampshire/TNI Certification #: 297622
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-015
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN02867
Texas/TNI Certification #: T104704188-22-18
Utah/TNI Certification #: PA014572223-14
USDA Soil Permit #: 525-23-67-77263
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad

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

South Carolina Certification #: 83006001
Texas Certification #: T104704529-21-8
Virginia VELAP Certification ID: 11873
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-21-00008
Federal Fish & Wildlife Permit #: 51774A

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SAMPLE SUMMARY

Project: 2522069 EDGEWATER CCR (I-43)

Pace Project No.: 40294106

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40294106001	MW-301	Water	04/23/25 09:25	04/24/25 08:15
40294106002	MW-302	Water	04/21/25 15:40	04/24/25 08:15
40294106003	MW-303	Water	04/21/25 12:05	04/24/25 08:15
40294106004	MW-304	Water	04/21/25 10:15	04/24/25 08:15
40294106005	MW-305	Water	04/21/25 11:20	04/24/25 08:15
40294106006	MW-306	Water	04/21/25 13:20	04/24/25 08:15
40294106007	FIELD BLANK	Water	04/21/25 15:50	04/24/25 08:15

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SAMPLE ANALYTE COUNT

Project: 2522069 EDGEWATER CCR (I-43)

Pace Project No.: 40294106

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40294106001	MW-301	EPA 6020B	KXS	2	PASI-G
			AG1	7	PASI-G
		SM 2540C	LMB	1	PASI-G
		EPA 9040	HML	1	PASI-G
		EPA 300.0	TXW	3	PASI-G
40294106002	MW-302	EPA 6020B	KXS	2	PASI-G
			AG1	7	PASI-G
		SM 2540C	LMB	1	PASI-G
		EPA 9040	HML	1	PASI-G
		EPA 300.0	TXW	3	PASI-G
40294106003	MW-303	EPA 6020B	KXS	2	PASI-G
			AG1	7	PASI-G
		SM 2540C	LMB	1	PASI-G
		EPA 9040	HML	1	PASI-G
		EPA 300.0	AJS1, TXW	3	PASI-G
40294106004	MW-304	EPA 6020B	KXS	2	PASI-G
			AG1	7	PASI-G
		SM 2540C	LMB	1	PASI-G
		EPA 9040	HML	1	PASI-G
		EPA 300.0	AJS1	3	PASI-G
40294106005	MW-305	EPA 6020B	KXS	2	PASI-G
			AG1	7	PASI-G
		SM 2540C	LMB	1	PASI-G
		EPA 9040	HML	1	PASI-G
		EPA 300.0	AJS1	3	PASI-G
40294106006	MW-306	EPA 6020B	KXS	14	PASI-G
		EPA 7470	AF	1	PASI-G
			AG1	6	PASI-G
		EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2540C	LMB	1	PASI-G
		EPA 9040	HML	1	PASI-G
40294106007	FIELD BLANK	EPA 300.0	TXW	3	PASI-G
		EPA 6020B	KXS	14	PASI-G
		EPA 7470	AF	1	PASI-G
		EPA 903.1	LL1	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: 2522069 EDGEWATER CCR (I-43)

Pace Project No.: 40294106

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2540C	LMB	1	PASI-G
		EPA 9040	HML	1	PASI-G
		EPA 300.0	TXW	3	PASI-G

PASI-G = Pace Analytical Services - Green Bay

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2522069 EDGEWATER CCR (I-43)

Pace Project No.: 40294106

Sample: MW-301 Lab ID: 40294106001 Collected: 04/23/25 09:25 Received: 04/24/25 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3010A									
Pace Analytical Services - Green Bay									
Boron	117	ug/L	10.0	3.0	1	04/25/25 07:50	04/30/25 01:09	7440-42-8	
Calcium	23300	ug/L	254	76.2	1	04/25/25 07:50	04/30/25 01:09	7440-70-2	
Field Data									
Analytical Method:									
Pace Analytical Services - Green Bay									
Field pH	8.08	Std. Units			1		04/23/25 09:25		
Field Specific Conductance	369	umhos/cm			1		04/23/25 09:25		
Oxygen, Dissolved	0.97	mg/L			1		04/23/25 09:25	7782-44-7	
REDOX	95	mV			1		04/23/25 09:25		
Turbidity	20.6	NTU			1		04/23/25 09:25		
Static Water Level	653.23	feet			1		04/23/25 09:25		
Temperature, Water (C)	9.8	deg C			1		04/23/25 09:25		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Pace Analytical Services - Green Bay									
Total Dissolved Solids	190	mg/L	20.0	8.7	1		04/29/25 16:32		
9040 pH									
Analytical Method: EPA 9040									
Pace Analytical Services - Green Bay									
pH at 25 Degrees C	8.3	Std. Units	0.10	0.010	1		04/24/25 16:34		H6
300.0 IC Anions									
Analytical Method: EPA 300.0									
Pace Analytical Services - Green Bay									
Chloride	3.0	mg/L	2.0	0.59	1		05/04/25 11:51	16887-00-6	
Fluoride	0.69	mg/L	0.32	0.095	1		05/04/25 11:51	16984-48-8	
Sulfate	10.5	mg/L	2.0	0.44	1		05/04/25 11:51	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2522069 EDGEWATER CCR (I-43)

Pace Project No.: 40294106

Sample: MW-302 Lab ID: 40294106002 Collected: 04/21/25 15:40 Received: 04/24/25 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3010A									
Pace Analytical Services - Green Bay									
Boron	120	ug/L	10.0	3.0	1	04/25/25 07:50	04/30/25 01:14	7440-42-8	
Calcium	25500	ug/L	254	76.2	1	04/25/25 07:50	04/30/25 01:14	7440-70-2	
Field Data									
Analytical Method:									
Pace Analytical Services - Green Bay									
Field pH	8.09	Std. Units			1		04/21/25 15:40		
Field Specific Conductance	444	umhos/cm			1		04/21/25 15:40		
Oxygen, Dissolved	1.07	mg/L			1		04/21/25 15:40	7782-44-7	
REDOX	-24	mV			1		04/21/25 15:40		
Turbidity	7.05	NTU			1		04/21/25 15:40		
Static Water Level	653.24	feet			1		04/21/25 15:40		
Temperature, Water (C)	9.4	deg C			1		04/21/25 15:40		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Pace Analytical Services - Green Bay									
Total Dissolved Solids	280	mg/L	20.0	8.7	1		04/24/25 14:57		
9040 pH									
Analytical Method: EPA 9040									
Pace Analytical Services - Green Bay									
pH at 25 Degrees C	8.3	Std. Units	0.10	0.010	1		04/24/25 16:37		H6
300.0 IC Anions									
Analytical Method: EPA 300.0									
Pace Analytical Services - Green Bay									
Chloride	5.3	mg/L	2.0	0.59	1		05/04/25 12:02	16887-00-6	
Fluoride	0.79	mg/L	0.32	0.095	1		05/04/25 12:02	16984-48-8	
Sulfate	32.4	mg/L	2.0	0.44	1		05/04/25 12:02	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2522069 EDGEWATER CCR (I-43)

Pace Project No.: 40294106

Sample: MW-303 Lab ID: 40294106003 Collected: 04/21/25 12:05 Received: 04/24/25 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3010A									
Pace Analytical Services - Green Bay									
Boron	78.6	ug/L	10.0	3.0	1	04/25/25 07:50	04/30/25 01:18	7440-42-8	
Calcium	26400	ug/L	254	76.2	1	04/25/25 07:50	04/30/25 01:18	7440-70-2	
Field Data									
Analytical Method:									
Pace Analytical Services - Green Bay									
Field pH	8.04	Std. Units			1		04/21/25 12:05		
Field Specific Conductance	456	umhos/cm			1		04/21/25 12:05		
Oxygen, Dissolved	2.26	mg/L			1		04/21/25 12:05	7782-44-7	
REDOX	28	mV			1		04/21/25 12:05		
Turbidity	1.08	NTU			1		04/21/25 12:05		
Static Water Level	653.49	feet			1		04/21/25 12:05		
Temperature, Water (C)	9.4	deg C			1		04/21/25 12:05		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Pace Analytical Services - Green Bay									
Total Dissolved Solids	254	mg/L	20.0	8.7	1		04/24/25 14:57		
9040 pH									
Analytical Method: EPA 9040									
Pace Analytical Services - Green Bay									
pH at 25 Degrees C	8.2	Std. Units	0.10	0.010	1		04/24/25 16:41		H6
300.0 IC Anions									
Analytical Method: EPA 300.0									
Pace Analytical Services - Green Bay									
Chloride	3.7	mg/L	2.0	0.59	1		05/06/25 14:50	16887-00-6	
Fluoride	0.66	mg/L	0.63	0.19	2		05/04/25 12:24	16984-48-8	
Sulfate	23.0	mg/L	2.0	0.44	1		05/06/25 14:50	14808-79-8	

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ANALYTICAL RESULTS

Project: 2522069 EDGEWATER CCR (I-43)

Pace Project No.: 40294106

Sample: MW-304 Lab ID: 40294106004 Collected: 04/21/25 10:15 Received: 04/24/25 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3010A									
Pace Analytical Services - Green Bay									
Boron	85.3	ug/L	10.0	3.0	1	04/25/25 07:50	04/30/25 01:23	7440-42-8	
Calcium	22800	ug/L	254	76.2	1	04/25/25 07:50	04/30/25 01:23	7440-70-2	
Field Data									
Analytical Method:									
Pace Analytical Services - Green Bay									
Field pH	8.08	Std. Units			1		04/21/25 10:15		
Field Specific Conductance	412	umhos/cm			1		04/21/25 10:15		
Oxygen, Dissolved	0.92	mg/L			1		04/21/25 10:15	7782-44-7	
REDOX	-53	mV			1		04/21/25 10:15		
Turbidity	5.46	NTU			1		04/21/25 10:15		
Static Water Level	655.04	feet			1		04/21/25 10:15		
Temperature, Water (C)	9.3	deg C			1		04/21/25 10:15		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Pace Analytical Services - Green Bay									
Total Dissolved Solids	218	mg/L	20.0	8.7	1		04/24/25 14:57		
9040 pH									
Analytical Method: EPA 9040									
Pace Analytical Services - Green Bay									
pH at 25 Degrees C	8.3	Std. Units	0.10	0.010	1		04/24/25 16:51		H6
300.0 IC Anions									
Analytical Method: EPA 300.0									
Pace Analytical Services - Green Bay									
Chloride	2.7	mg/L	2.0	0.59	1		05/05/25 10:24	16887-00-6	
Fluoride	0.45	mg/L	0.32	0.095	1		05/05/25 10:24	16984-48-8	
Sulfate	16.7	mg/L	2.0	0.44	1		05/05/25 10:24	14808-79-8	

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ANALYTICAL RESULTS

Project: 2522069 EDGEWATER CCR (I-43)

Pace Project No.: 40294106

Sample: MW-305 Lab ID: 40294106005 Collected: 04/21/25 11:20 Received: 04/24/25 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3010A									
Pace Analytical Services - Green Bay									
Boron	57.4	ug/L	10.0	3.0	1	04/25/25 07:50	04/30/25 01:27	7440-42-8	
Calcium	81500	ug/L	254	76.2	1	04/25/25 07:50	04/30/25 01:27	7440-70-2	
Field Data									
Analytical Method:									
Pace Analytical Services - Green Bay									
Field pH	7.61	Std. Units			1		04/21/25 11:20		
Field Specific Conductance	936	umhos/cm			1		04/21/25 11:20		
Oxygen, Dissolved	0.99	mg/L			1		04/21/25 11:20	7782-44-7	
REDOX	-75	mV			1		04/21/25 11:20		
Turbidity	3.20	NTU			1		04/21/25 11:20		
Static Water Level	658.61	feet			1		04/21/25 11:20		
Temperature, Water (C)	9.2	deg C			1		04/21/25 11:20		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Pace Analytical Services - Green Bay									
Total Dissolved Solids	590	mg/L	20.0	8.7	1		04/24/25 14:57		
9040 pH									
Analytical Method: EPA 9040									
Pace Analytical Services - Green Bay									
pH at 25 Degrees C	8.2	Std. Units	0.10	0.010	1		04/24/25 16:54		H6
300.0 IC Anions									
Analytical Method: EPA 300.0									
Pace Analytical Services - Green Bay									
Chloride	32.5	mg/L	4.0	1.2	2		05/04/25 13:51	16887-00-6	
Fluoride	0.73	mg/L	0.63	0.19	2		05/04/25 13:51	16984-48-8	
Sulfate	123	mg/L	20.0	4.4	10		05/04/25 13:40	14808-79-8	

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ANALYTICAL RESULTS

Project: 2522069 EDGEWATER CCR (I-43)

Pace Project No.: 40294106

Sample: MW-306 Lab ID: 40294106006 Collected: 04/21/25 13:20 Received: 04/24/25 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3010A									
Pace Analytical Services - Green Bay									
Antimony	3.5J	ug/L	5.0	0.75	5	04/25/25 07:50	04/29/25 19:21	7440-36-0	D3
Arsenic	40.3	ug/L	5.0	1.4	5	04/25/25 07:50	04/29/25 19:21	7440-38-2	
Barium	1050	ug/L	11.6	3.5	5	04/25/25 07:50	04/29/25 19:21	7440-39-3	
Beryllium	9.0	ug/L	5.0	1.2	5	04/25/25 07:50	04/29/25 19:21	7440-41-7	
Boron	534	ug/L	50.0	15.2	5	04/25/25 07:50	04/29/25 19:21	7440-42-8	
Cadmium	2.1J	ug/L	5.0	0.76	5	04/25/25 07:50	04/29/25 19:21	7440-43-9	D3
Calcium	709000	ug/L	1270	381	5	04/25/25 07:50	04/29/25 19:21	7440-70-2	
Chromium	501	ug/L	17.0	5.1	5	04/25/25 07:50	04/29/25 19:21	7440-47-3	
Cobalt	81.0	ug/L	5.0	0.58	5	04/25/25 07:50	04/29/25 19:21	7440-48-4	
Lead	97.5	ug/L	5.0	1.2	5	04/25/25 07:50	04/29/25 19:21	7439-92-1	
Lithium	309	ug/L	5.0	1.1	5	04/25/25 07:50	04/29/25 19:21	7439-93-2	
Molybdenum	114	ug/L	7.4	2.2	5	04/25/25 07:50	04/29/25 19:21	7439-98-7	
Selenium	<3.2	ug/L	10.6	3.2	10	04/25/25 07:50	04/30/25 10:17	7782-49-2	D3
Thallium	1.8J	ug/L	5.0	0.70	5	04/25/25 07:50	04/29/25 19:21	7440-28-0	D3
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Green Bay									
Mercury	0.17J	ug/L	0.20	0.066	1	04/30/25 12:15	05/01/25 13:13	7439-97-6	
Field Data									
Analytical Method:									
Pace Analytical Services - Green Bay									
Field pH	8.69	Std. Units			1		04/21/25 13:20		
Field Specific Conductance	622	umhos/cm			1		04/21/25 13:20		
Oxygen, Dissolved	0.19	mg/L			1		04/21/25 13:20	7782-44-7	
REDOX	-155	mV			1		04/21/25 13:20		
Static Water Level	656.73	feet			1		04/21/25 13:20		
Temperature, Water (C)	10.0	deg C			1		04/21/25 13:20		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Pace Analytical Services - Green Bay									
Total Dissolved Solids	820	mg/L	100	43.4	1		04/24/25 14:57		
9040 pH									
Analytical Method: EPA 9040									
Pace Analytical Services - Green Bay									
pH at 25 Degrees C	8.5	Std. Units	0.10	0.010	1		04/24/25 17:00		H6
300.0 IC Anions									
Analytical Method: EPA 300.0									
Pace Analytical Services - Green Bay									
Chloride	14.6J	mg/L	40.0	11.8	20		05/04/25 14:02	16887-00-6	D3
Fluoride	<1.9	mg/L	6.3	1.9	20		05/04/25 14:02	16984-48-8	D3
Sulfate	124	mg/L	40.0	8.9	20		05/04/25 14:02	14808-79-8	

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ANALYTICAL RESULTS

Project: 2522069 EDGEWATER CCR (I-43)

Pace Project No.: 40294106

Sample: FIELD BLANK Lab ID: 40294106007 Collected: 04/21/25 15:50 Received: 04/24/25 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3010A									
Pace Analytical Services - Green Bay									
Antimony	<0.15	ug/L	1.0	0.15	1	04/25/25 07:50	04/29/25 19:25	7440-36-0	
Arsenic	<0.28	ug/L	1.0	0.28	1	04/25/25 07:50	04/29/25 19:25	7440-38-2	
Barium	<0.70	ug/L	2.3	0.70	1	04/25/25 07:50	04/29/25 19:25	7440-39-3	
Beryllium	<0.25	ug/L	1.0	0.25	1	04/25/25 07:50	04/29/25 19:25	7440-41-7	
Boron	<3.0	ug/L	10.0	3.0	1	04/25/25 07:50	04/29/25 19:25	7440-42-8	
Cadmium	<0.15	ug/L	1.0	0.15	1	04/25/25 07:50	04/29/25 19:25	7440-43-9	
Calcium	<76.2	ug/L	254	76.2	1	04/25/25 07:50	04/29/25 19:25	7440-70-2	
Chromium	<1.0	ug/L	3.4	1.0	1	04/25/25 07:50	04/29/25 19:25	7440-47-3	
Cobalt	<0.12	ug/L	1.0	0.12	1	04/25/25 07:50	04/29/25 19:25	7440-48-4	
Lead	<0.24	ug/L	1.0	0.24	1	04/25/25 07:50	04/29/25 19:25	7439-92-1	
Lithium	<0.22	ug/L	1.0	0.22	1	04/25/25 07:50	04/29/25 19:25	7439-93-2	
Molybdenum	<0.44	ug/L	1.5	0.44	1	04/25/25 07:50	04/29/25 19:25	7439-98-7	
Selenium	<0.32	ug/L	1.1	0.32	1	04/25/25 07:50	04/29/25 19:25	7782-49-2	
Thallium	<0.14	ug/L	1.0	0.14	1	04/25/25 07:50	04/29/25 19:25	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Green Bay									
Mercury	<0.066	ug/L	0.20	0.066	1	04/30/25 12:15	05/01/25 13:16	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Pace Analytical Services - Green Bay									
Total Dissolved Solids	16.0J	mg/L	20.0	8.7	1		04/24/25 14:58		
9040 pH									
Analytical Method: EPA 9040									
Pace Analytical Services - Green Bay									
pH at 25 Degrees C	7.1	Std. Units	0.10	0.010	1		04/24/25 17:13		H6
300.0 IC Anions									
Analytical Method: EPA 300.0									
Pace Analytical Services - Green Bay									
Chloride	<0.59	mg/L	2.0	0.59	1		05/04/25 14:13	16887-00-6	
Fluoride	<0.095	mg/L	0.32	0.095	1		05/04/25 14:13	16984-48-8	
Sulfate	<0.44	mg/L	2.0	0.44	1		05/04/25 14:13	14808-79-8	

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QUALITY CONTROL DATA

Project: 2522069 EDGEWATER CCR (I-43)
Pace Project No.: 40294106

QC Batch:	503281	Analysis Method:	EPA 7470
QC Batch Method:	EPA 7470	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Green Bay

Associated Lab Samples: 40294106006, 40294106007

METHOD BLANK: 2873637 Matrix: Water

Associated Lab Samples: 40294106006, 40294106007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	<0.066	0.20	05/01/25 12:15	

LABORATORY CONTROL SAMPLE: 2873638

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2873639 2873640

Parameter	Units	40294298007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	<0.066	5	5	4.8	4.8	96	95	85-115	2	20	

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QUALITY CONTROL DATA

Project: 2522069 EDGEWATER CCR (I-43)

Pace Project No.: 40294106

QC Batch: 502897

Analysis Method: EPA 6020B

QC Batch Method: EPA 3010A

Analysis Description: 6020B MET

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40294106001, 40294106002, 40294106003, 40294106004, 40294106005

METHOD BLANK: 2871558

Matrix: Water

Associated Lab Samples: 40294106001, 40294106002, 40294106003, 40294106004, 40294106005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron	ug/L	<3.0	10.0	04/29/25 22:58	
Calcium	ug/L	<76.2	254	04/29/25 22:58	

LABORATORY CONTROL SAMPLE: 2871559

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	ug/L	250	230	92	80-120	
Calcium	ug/L	10000	9450	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2871560 2871561

Parameter	Units	40294083001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	ug/L	379	250	250	618	611	96	93	75-125	1	20	
Calcium	ug/L	66700	10000	10000	76100	75000	94	82	75-125	1	20	

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QUALITY CONTROL DATA

Project: 2522069 EDGEWATER CCR (I-43)

Pace Project No.: 40294106

QC Batch: 502899

Analysis Method: EPA 6020B

QC Batch Method: EPA 3010A

Analysis Description: 6020B MET

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40294106006, 40294106007

METHOD BLANK: 2871567

Matrix: Water

Associated Lab Samples: 40294106006, 40294106007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	<0.15	1.0	04/29/25 17:06	
Arsenic	ug/L	<0.28	1.0	04/29/25 17:06	
Barium	ug/L	<0.70	2.3	04/29/25 17:06	
Beryllium	ug/L	<0.25	1.0	04/29/25 17:06	
Boron	ug/L	<3.0	10.0	04/29/25 17:06	
Cadmium	ug/L	<0.15	1.0	04/29/25 17:06	
Calcium	ug/L	<76.2	254	04/29/25 17:06	
Chromium	ug/L	<1.0	3.4	04/29/25 17:06	
Cobalt	ug/L	<0.12	1.0	04/29/25 17:06	
Lead	ug/L	<0.24	1.0	04/29/25 17:06	
Lithium	ug/L	<0.22	1.0	04/29/25 17:06	
Molybdenum	ug/L	<0.44	1.5	04/29/25 17:06	
Selenium	ug/L	<0.32	1.1	04/29/25 17:06	
Thallium	ug/L	<0.14	1.0	04/29/25 17:06	

LABORATORY CONTROL SAMPLE: 2871568

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	250	245	98	80-120	
Arsenic	ug/L	250	248	99	80-120	
Barium	ug/L	250	243	97	80-120	
Beryllium	ug/L	250	262	105	80-120	
Boron	ug/L	250	239	96	80-120	
Cadmium	ug/L	250	251	100	80-120	
Calcium	ug/L	10000	9560	96	80-120	
Chromium	ug/L	250	252	101	80-120	
Cobalt	ug/L	250	244	98	80-120	
Lead	ug/L	250	246	98	80-120	
Lithium	ug/L	250	255	102	80-120	
Molybdenum	ug/L	250	247	99	80-120	
Selenium	ug/L	250	253	101	80-120	
Thallium	ug/L	250	243	97	80-120	

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QUALITY CONTROL DATA

Project: 2522069 EDGEWATER CCR (I-43)

Pace Project No.: 40294106

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2871569 2871570											
Parameter	Units	40294085001	MS	MSD	MS	MSD	MS	MSD	% Rec	Limits	Max
		Result	Spike	Spike							
			Conc.	Conc.	Result	Result	% Rec	% Rec			RPD
Antimony	ug/L	0.21J	250	250	251	246	100	98	75-125	2	20
Arsenic	ug/L	<0.28	250	250	255	251	102	101	75-125	1	20
Barium	ug/L	25.5	250	250	274	269	99	98	75-125	2	20
Beryllium	ug/L	<0.25	250	250	258	258	103	103	75-125	0	20
Boron	ug/L	540	250	250	783	772	98	93	75-125	1	20
Cadmium	ug/L	<0.15	250	250	256	249	102	100	75-125	3	20
Calcium	ug/L	102000	10000	10000	116000	114000	144	124	75-125	2	20 P6
Chromium	ug/L	<1.0	250	250	249	246	100	98	75-125	1	20
Cobalt	ug/L	<0.12	250	250	241	238	96	95	75-125	1	20
Lead	ug/L	<0.24	250	250	252	248	101	99	75-125	1	20
Lithium	ug/L	1.7	250	250	258	255	102	101	75-125	1	20
Molybdenum	ug/L	12.2	250	250	266	263	102	100	75-125	1	20
Selenium	ug/L	27.2	250	250	280	276	101	100	75-125	1	20
Thallium	ug/L	0.16J	250	250	257	253	103	101	75-125	2	20

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QUALITY CONTROL DATA

Project: 2522069 EDGEWATER CCR (I-43)

Pace Project No.: 40294106

QC Batch:	502870	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Green Bay

Associated Lab Samples: 40294106002, 40294106003, 40294106004, 40294106005, 40294106006, 40294106007

METHOD BLANK: 2871186 Matrix: Water

Associated Lab Samples: 40294106002, 40294106003, 40294106004, 40294106005, 40294106006, 40294106007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<8.7	20.0	04/24/25 14:54	

LABORATORY CONTROL SAMPLE: 2871187

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	578	560	97	80-120	

SAMPLE DUPLICATE: 2871188

Parameter	Units	40294036001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	578	600	4	10	

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QUALITY CONTROL DATA

Project: 2522069 EDGEWATER CCR (I-43)

Pace Project No.: 40294106

QC Batch: 503019

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40294106001

METHOD BLANK: 2872613

Matrix: Water

Associated Lab Samples: 40294106001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<8.7	20.0	04/29/25 16:31	

LABORATORY CONTROL SAMPLE: 2872614

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	578	514	89	80-120	

SAMPLE DUPLICATE: 2872615

Parameter	Units	40294119001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	534	524	2	10	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2522069 EDGEWATER CCR (I-43)
Pace Project No.: 40294106

QC Batch:	502882	Analysis Method:	EPA 9040
QC Batch Method:	EPA 9040	Analysis Description:	9040 pH
		Laboratory:	Pace Analytical Services - Green Bay
Associated Lab Samples:	40294106001, 40294106002, 40294106003, 40294106004, 40294106005, 40294106006, 40294106007		

SAMPLE DUPLICATE: 2871341

Parameter	Units	40294105001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.8	7.8	0	20	H6

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



QUALITY CONTROL DATA

Project: 2522069 EDGEWATER CCR (I-43)

Pace Project No.: 40294106

QC Batch:	503542	Analysis Method:	EPA 300.0
QC Batch Method:	EPA 300.0	Analysis Description:	300.0 IC Anions
		Laboratory:	Pace Analytical Services - Green Bay

Associated Lab Samples: 40294106001, 40294106002, 40294106003, 40294106004, 40294106005, 40294106006, 40294106007

METHOD BLANK: 2875121

Matrix: Water

Associated Lab Samples: 40294106001, 40294106002, 40294106003, 40294106004, 40294106005, 40294106006, 40294106007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<0.59	2.0	05/04/25 08:36	
Fluoride	mg/L	<0.095	0.32	05/04/25 08:36	
Sulfate	mg/L	<0.44	2.0	05/04/25 08:36	

LABORATORY CONTROL SAMPLE: 2875122

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	20.2	101	90-110	
Fluoride	mg/L	2	2.1	105	90-110	
Sulfate	mg/L	20	20.7	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2875123 2875124

Parameter	Units	40294105001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	21.7	20	20	42.0	42.2	101	103	90-110	1	15	
Fluoride	mg/L	0.19J	2	2	2.4	2.4	109	109	90-110	1	15	
Sulfate	mg/L	185	100	100	280	280	95	94	90-110	0	15	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2875125 2875126

Parameter	Units	40294106004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	2.7	20	20	23.6	23.6	105	105	90-110	0	15	
Fluoride	mg/L	0.45	2	2	2.6	2.6	106	107	90-110	1	15	
Sulfate	mg/L	16.7	20	20	37.8	38.0	106	107	90-110	0	15	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2522069 EDGEWATER CCR (I-43)

Pace Project No.: 40294106

Sample: MW-306		Lab ID: 40294106006	Collected: 04/21/25 13:20	Received: 04/24/25 08:15	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg			pCi/L	05/12/25 13:20	13982-63-3	
	EPA 903.1	1.63 ± 0.728 (1.00) C:NA T:95%					
Radium-228	Pace Analytical Services - Greensburg			pCi/L	05/12/25 13:04	15262-20-1	
	EPA 904.0	0.902 ± 0.494 (1.00) C:76% T:85%					
Total Radium	Pace Analytical Services - Greensburg			pCi/L	05/13/25 14:59	7440-14-4	
	Total Radium Calculation	2.53 ± 1.22 (2.00)					

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2522069 EDGEWATER CCR (I-43)

Pace Project No.: 40294106

Sample: FIELD BLANK		Lab ID: 40294106007	Collected: 04/21/25 15:50	Received: 04/24/25 08:15	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg			pCi/L	05/12/25 13:20	13982-63-3	
	EPA 903.1	0.184 ± 0.313 (1.00) C:NA T:96%					
Radium-228	Pace Analytical Services - Greensburg			pCi/L	05/12/25 13:04	15262-20-1	
	EPA 904.0	0.0291 ± 0.421 (1.00) C:75% T:81%					
Total Radium	Pace Analytical Services - Greensburg			pCi/L	05/13/25 14:59	7440-14-4	
	Total Radium Calculation	0.213 ± 0.734 (2.00)					

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QUALITY CONTROL - RADIOCHEMISTRY

Project: 2522069 EDGEWATER CCR (I-43)

Pace Project No.: 40294106

QC Batch: 742133

Analysis Method: EPA 903.1

QC Batch Method: EPA 903.1

Analysis Description: 903.1 Radium-226

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 40294106006, 40294106007

METHOD BLANK: 3611447

Matrix: Water

Associated Lab Samples: 40294106006, 40294106007

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.155 ± 0.186 (0.507) C:NA T:92%	pCi/L	05/12/25 12:56	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: 2522069 EDGEWATER CCR (I-43)

Pace Project No.: 40294106

QC Batch: 742134

Analysis Method: EPA 904.0

QC Batch Method: EPA 904.0

Analysis Description: 904.0 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 40294106006, 40294106007

METHOD BLANK: 3611450

Matrix: Water

Associated Lab Samples: 40294106006, 40294106007

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.0487 ± 0.309 (0.711) C:77% T:82%	pCi/L	05/12/25 13:03	

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QUALIFIERS

Project: 2522069 EDGEWATER CCR (I-43)
Pace Project No.: 40294106

DEFINITIONS

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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 - The reported result is an estimated value.

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.

DL - Adjusted Method Detection Limit.

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 - Analyte was not detected and is reported as less than the LOD or as defined by the customer.

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
H6	Analysis initiated outside of the 15 minute EPA required holding time.
P6	Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2522069 EDGEWATER CCR (I-43)

Pace Project No.: 40294106

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40294106001	MW-301	EPA 3010A	502897	EPA 6020B	502977
40294106002	MW-302	EPA 3010A	502897	EPA 6020B	502977
40294106003	MW-303	EPA 3010A	502897	EPA 6020B	502977
40294106004	MW-304	EPA 3010A	502897	EPA 6020B	502977
40294106005	MW-305	EPA 3010A	502897	EPA 6020B	502977
40294106006	MW-306	EPA 3010A	502899	EPA 6020B	502978
40294106007	FIELD BLANK	EPA 3010A	502899	EPA 6020B	502978
40294106006	MW-306	EPA 7470	503281	EPA 7470	503341
40294106007	FIELD BLANK	EPA 7470	503281	EPA 7470	503341
40294106001	MW-301				
40294106002	MW-302				
40294106003	MW-303				
40294106004	MW-304				
40294106005	MW-305				
40294106006	MW-306				
40294106006	MW-306	EPA 903.1	742133		
40294106007	FIELD BLANK	EPA 903.1	742133		
40294106006	MW-306	EPA 904.0	742134		
40294106007	FIELD BLANK	EPA 904.0	742134		
40294106006	MW-306	Total Radium Calculation	745328		
40294106007	FIELD BLANK	Total Radium Calculation	745328		
40294106001	MW-301	SM 2540C	503019		
40294106002	MW-302	SM 2540C	502870		
40294106003	MW-303	SM 2540C	502870		
40294106004	MW-304	SM 2540C	502870		
40294106005	MW-305	SM 2540C	502870		
40294106006	MW-306	SM 2540C	502870		
40294106007	FIELD BLANK	SM 2540C	502870		
40294106001	MW-301	EPA 9040	502882		
40294106002	MW-302	EPA 9040	502882		
40294106003	MW-303	EPA 9040	502882		
40294106004	MW-304	EPA 9040	502882		
40294106005	MW-305	EPA 9040	502882		
40294106006	MW-306	EPA 9040	502882		
40294106007	FIELD BLANK	EPA 9040	502882		
40294106001	MW-301	EPA 300.0	503542		
40294106002	MW-302	EPA 300.0	503542		
40294106003	MW-303	EPA 300.0	503542		
40294106004	MW-304	EPA 300.0	503542		
40294106005	MW-305	EPA 300.0	503542		
40294106006	MW-306	EPA 300.0	503542		
40294106007	FIELD BLANK	EPA 300.0	503542		

REPORT OF LABORATORY ANALYSIS

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Effective Date: 8/16/2022

Client Name: SCS CCR

Sample Preservation Receipt Form

Project # 40294106

All containers needing preservation have been checked and noted below:

☒ Yes ☐ No ☐ N/ALab Lot# of pH paper: 1010272

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

Initial when
completed:Date/
Time:

Pace Lab #	Glass						Plastic					Vials					Jars				General				VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)		
	AG1U	BG1U	AG1H	AG4S	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	BP2Z	VG9C	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU	WPFU	SP5T	ZPLC	GN 1	GN 2						
001									2		1																						2.5 / 5
002									2		1																						2.5 / 5
003									2		1																						2.5 / 5
004									2		1																						2.5 / 5
005									2		1																						2.5 / 5
006									2		1	1														2			X				2.5 / 5
007									2		1	1														2			X				2.5 / 5
008																													X				2.5 / 5
009																																	2.5 / 5
010																																	2.5 / 5
011																																	2.5 / 5
012																																	2.5 / 5
013																																	2.5 / 5
014																																	2.5 / 5
015																																	2.5 / 5
016																																	2.5 / 5
017																																	2.5 / 5
018																																	2.5 / 5
019																																	2.5 / 5
020																																	2.5 / 5

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

Headspace in VOA Vials (>6mm): ☐ Yes ☐ No ☒ N/A

*If yes look in headspace column

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	VG9C	40 mL clear ascorbic w/ HCl	JGFU	4 oz amber jar unpres
BG1U	1 liter clear glass	BP3U	250 mL plastic unpres	DG9T	40 mL amber Na Thio	JG9U	9 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP3B	250 mL plastic NaOH	VG9U	40 mL clear vial unpres	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H ₂ SO ₄	BP3N	250 mL plastic HNO ₃	VG9H	40 mL clear vial HCL	WPFU	4 oz plastic jar unpres
AG5U	100 mL amber glass unpres	BP3S	250 mL plastic H ₂ SO ₄	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H ₂ SO ₄	BP2Z	500 mL plastic NaOH + Zn	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres					GN 1	1 liter plastic HNO ₃
						GN 2	

Page 1 of 2

Sample Condition Upon Receipt Form (SCUR)

Client Name: SCS CCR
Courier: ☒ CS Logistics ☐ Fed Ex ☐ Speedee ☐ UPS ☐ Purple Mountain
☐ Client ☐ Pace Other: _____

Project #:

WO#: 40294106



Tracking #: _____
Custody Seal on Cooler/Box Present: ☒ yes ☐ no Seals intact: ☒ yes ☐ no
Custody Seal on Samples Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no
Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☒ None ☐ Other _____
Thermometer Used SR-142 Type of Ice: Wet Blue Dry None ☐ Meltwater Only
Cooler Temperature Uncorr: 0.0 /Corr: 0.5

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

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

Person examining contents:

Date: 4/24/25 Initials: EC

Labeled By Initials: MR

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

Client Notification/ Resolution:

If checked, see attached form for additional comments ☐

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

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

Page 2 of 2

C3 June 2025 Resample of MW-302



June 25, 2025

Meghan Blodgett
SCS ENGINEERS
2830 Dairy Drive
Madison, WI 53718

RE: Project: 25225069.00 I-43
Pace Project No.: 40296643

Dear Meghan Blodgett:

Enclosed are the analytical results for sample(s) received by the laboratory on June 11, 2025. 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 Milewski
dan.milewski@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Matt Bizjack, Alliant Energy
Natalie Burris, SCS ENGINEERS
Sherren Clark, SCS Engineers
Jenny Coughlin, Alliant Energy
Tom Karwoski, SCS ENGINEERS
Ryan Matzuk, SCS Engineers
Jeff Maxted, ALLIANT ENERGY



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CERTIFICATIONS

Project: 25225069.00 I-43

Pace Project No.: 40296643

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

South Carolina Certification #: 83006001

Texas Certification #: T104704529-21-8

Virginia VELAP Certification ID: 11873

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-21-00008

Federal Fish & Wildlife Permit #: 51774A

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SAMPLE SUMMARY

Project: 25225069.00 I-43

Pace Project No.: 40296643

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40296643001	MW-302	Water	06/10/25 12:25	06/11/25 10:50
40296643002	FIELD BLANK	Water	06/10/25 12:20	06/11/25 10:50

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SAMPLE ANALYTE COUNT

Project: 25225069.00 I-43

Pace Project No.: 40296643

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40296643001	MW-302		AG1	7
		EPA 300.0	AJS1	1
40296643002	FIELD BLANK		AG1	6
		EPA 300.0	AJS1	1

PASI-G = Pace Analytical Services - Green Bay

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ANALYTICAL RESULTS

Project: 25225069.00 I-43

Pace Project No.: 40296643

Sample: MW-302 Lab ID: 40296643001 Collected: 06/10/25 12:25 Received: 06/11/25 10:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method:									
Pace Analytical Services - Green Bay									
Field pH	7.81	Std. Units			1		06/10/25 12:25		
Field Specific Conductance	543	umhos/cm			1		06/10/25 12:25		
Oxygen, Dissolved	1.97	mg/L			1		06/10/25 12:25	7782-44-7	
REDOX	134.3	mV			1		06/10/25 12:25		
Turbidity	6.25	NTU			1		06/10/25 12:25		
Static Water Level	653.36	feet			1		06/10/25 12:25		
Temperature, Water (C)	11.5	deg C			1		06/10/25 12:25		
300.0 IC Anions									
Analytical Method: EPA 300.0									
Pace Analytical Services - Green Bay									
Fluoride	0.71	mg/L	0.32	0.095	1		06/19/25 10:36	16984-48-8	

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ANALYTICAL RESULTS

Project: 25225069.00 I-43

Pace Project No.: 40296643

Sample: FIELD BLANK Lab ID: 40296643002 Collected: 06/10/25 12:20 Received: 06/11/25 10:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method:									
Pace Analytical Services - Green Bay									
Field pH	7.98	Std. Units			1		06/10/25 12:20		
Field Specific Conductance	30.1	umhos/cm			1		06/10/25 12:20		
Oxygen, Dissolved	5.58	mg/L			1		06/10/25 12:20	7782-44-7	
REDOX	85.5	mV			1		06/10/25 12:20		
Turbidity	0.09	NTU			1		06/10/25 12:20		
Temperature, Water (C)	18.5	deg C			1		06/10/25 12:20		
300.0 IC Anions									
Analytical Method: EPA 300.0									
Pace Analytical Services - Green Bay									
Fluoride	<0.095	mg/L	0.32	0.095	1		06/19/25 11:09	16984-48-8	

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QUALITY CONTROL DATA

Project: 25225069.00 I-43

Pace Project No.: 40296643

QC Batch: 507966

Analysis Method: EPA 300.0

QC Batch Method: EPA 300.0

Analysis Description: 300.0 IC Anions

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40296643001, 40296643002

METHOD BLANK: 2900068

Matrix: Water

Associated Lab Samples: 40296643001, 40296643002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Fluoride	mg/L	<0.095	0.32	06/19/25 10:15	

LABORATORY CONTROL SAMPLE: 2900069

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluoride	mg/L	2	2.1	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2900070 2900071

Parameter	Units	40296643001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Fluoride	mg/L	0.71	2	2	2.8	2.9	106	109	90-110	2	15	

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QUALIFIERS

Project: 25225069.00 I-43

Pace Project No.: 40296643

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 - The reported result is an estimated value.

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.

DL - Adjusted Method Detection Limit.

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 - Analyte was not detected and is reported as less than the LOD or as defined by the customer.

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: 25225069.00 I-43
Pace Project No.: 40296643

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40296643001	MW-302				
40296643002	FIELD BLANK				
40296643001	MW-302	EPA 300.0	507966		
40296643002	FIELD BLANK	EPA 300.0	507966		

REPORT OF LABORATORY ANALYSIS

Effective Date: 8/16/2022

Client Name:

SCS Engineers

Sample Preservation Receipt Form

Project #

402910043

All containers needing preservation have been checked and noted below:

☐ Yes☐ No☒ N/A

Lab Lot# of pH paper:

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

Initial when
completed:Date/
Time:

Pace Lab #	Glass						Plastic						Vials					Jars				General				VOA Vials (>6mm) *	H ₂ SO ₄ pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO ₃ pH ≤2	pH after adjusted	Volume (mL)
	AG1U	BG1U	AG1H	AG4S	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	BP2Z	VG9C	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU	WPFU	SP5T	ZPLC	GN 1	GN 2					
001																																2.5 / 5
002																																2.5 / 5
003																																2.5 / 5
004																																2.5 / 5
005																																2.5 / 5
006																																2.5 / 5
007																																2.5 / 5
008																																2.5 / 5
009																																2.5 / 5
010																																2.5 / 5
011																																2.5 / 5
012																																2.5 / 5
013																																2.5 / 5
014																																2.5 / 5
015																																2.5 / 5
016																																2.5 / 5
017																																2.5 / 5
018																																2.5 / 5
019																																2.5 / 5
020																																2.5 / 5

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

Headspace in VOA Vials (>6mm) : ☐ Yes ☐ No ☒ N/A

*If yes look in headspace column

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	VG9C	40 mL clear ascorbic w/ HCl	JGFU	4 oz amber jar unpres
BG1U	1 liter clear glass	BP3U	250 mL plastic unpres	DG9T	40 mL amber Na Thio	JG9U	9 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP3B	250 mL plastic NaOH	VG9U	40 mL clear vial unpres	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H ₂ SO ₄	BP3N	250 mL plastic HNO ₃	VG9H	40 mL clear vial HCL	WPFU	4 oz plastic jar unpres
AG5U	100 mL amber glass unpres	BP3S	250 mL plastic H ₂ SO ₄	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H ₂ SO ₄	BP2Z	500 mL plastic NaOH + Zn	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres					GN 1	
						GN 2	

Page 1 of 2

Sample Condition Upon Receipt Form (SCUR)

Client Name: SCS Engineers
Courier: ☒ CS Logistics ☐ Fed Ex ☐ Speedee ☐ UPS ☐ Purple Mountain
☐ Client ☐ Pace Other: _____

Project #:

WO#: 40296643



Tracking #:

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

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

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

Thermometer Used SR - 136 Type of Ice: ☒ Wet ☐ Blue Dry ☐ None ☐ Meltwater Only

Cooler Temperature Uncorr: 1.0 ICorr: 1.0

Temp Blank Present: ☒ yes ☐ no

Biological Tissue is Frozen: ☐ yes ☐ no

Person examining contents:

Date: 06/11/25 Initials: SKW

Labeled By Initials: EL

Temp should be above freezing to 6°C.

Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Chain of Custody Present:	☒ Yes ☐ No ☐ N/A	1. <u>ACC</u>
Chain of Custody Filled Out:	☐ Yes ☒ No ☐ N/A	2. <u>pg #</u>
Chain of Custody Relinquished:	☒ Yes ☐ No ☐ N/A	3. <u>del 11/25 SKW</u>
Sampler Name & Signature on COC:	☒ Yes ☐ No ☐ N/A	4. <u>del 11/25 SKW</u>
Samples Arrived within Hold Time:	☒ Yes ☐ No	5. <u>del 11/25 SKW</u>
- DI VOA Samples frozen upon receipt	☐ Yes ☐ No	Date/Time: _____
Short Hold Time Analysis (<72hr):	☐ Yes ☒ No	6. _____
Rush Turn Around Time Requested:	☐ Yes ☒ No	7. _____
Sufficient Volume:		8. _____
For Analysis: ☒ Yes ☐ No MS/MSD: ☐ Yes ☒ No ☐ N/A		
Correct Containers Used:	☒ Yes ☐ No	9. _____
Correct Type: <u>Pace Green Bay</u> , Pace IR, Non-Pace		
Containers Intact:	☒ Yes ☐ No	10. _____
Filtered volume received for Dissolved tests	☐ Yes ☐ No ☒ N/A	11. _____
Sample Labels match COC:	☒ Yes ☐ No ☐ N/A	12. _____
-Includes date/time/ID/Analysis Matrix: <u>W</u>		
Trip Blank Present:	☐ Yes ☐ No ☒ N/A	13. _____
Trip Blank Custody Seals Present	☐ Yes ☐ No ☒ N/A	
Pace Trip Blank Lot # (if purchased): _____		

Client Notification/ Resolution:

If checked, see attached form for additional comments ☐

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

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

Page 2 of 2

C4 July 2025 MW-306 Background Monitoring



August 11, 2025

Meghan Blodgett
SCS ENGINEERS
2830 Dairy Drive
Madison, WI 53718

RE: Project: 25225069 EDGEWATER CCR (I-43)
Pace Project No.: 40298809

Dear Meghan Blodgett:

Enclosed are the analytical results for sample(s) received by the laboratory on July 22, 2025. 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
- Pace Analytical Services - Greensburg

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

cc: Matt Bizjack, Alliant Energy
Natalie Burris, SCS ENGINEERS
Sherren Clark, SCS Engineers
Jenny Coughlin, Alliant Energy
Tom Karwoski, SCS ENGINEERS
Ryan Matzuk, SCS Engineers
Jeff Maxted, ALLIANT ENERGY



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 25225069 EDGEWATER CCR (I-43)
Pace Project No.: 40298809

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
ANABISO/IEC 17025:2017 Rad Cert#: L24170
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 2950
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA010
Louisiana DEQ/TNI Certification #: 04086
Maine Certification #: 2023021
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991

Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572023-03
New Hampshire/TNI Certification #: 297622
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-015
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN02867
Texas/TNI Certification #: T104704188-22-18
Utah/TNI Certification #: PA014572223-14
USDA Soil Permit #: 525-23-67-77263
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad

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

South Carolina Certification #: 83006001
Texas Certification #: T104704529-21-8
Virginia VELAP Certification ID: 11873
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-21-00008
Federal Fish & Wildlife Permit #: 51774A

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SAMPLE SUMMARY

Project: 25225069 EDGEWATER CCR (I-43)

Pace Project No.: 40298809

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40298809001	MW-306	Water	07/21/25 12:30	07/22/25 10:15
40298809002	FIELD BLANK	Water	07/21/25 12:45	07/22/25 10:15

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 25225069 EDGEWATER CCR (I-43)

Pace Project No.: 40298809

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40298809001	MW-306	EPA 6010D	SIS	5	PASI-G
		EPA 6020B	KXS	14	PASI-G
		EPA 7470	AJT	1	PASI-G
			AG1	6	PASI-G
		EPA 903.1	TMY	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2540C	LMB	1	PASI-G
		EPA 9040	HML	1	PASI-G
		EPA 300.0	AJS1	3	PASI-G
		EPA 310.2	MT	1	PASI-G
		EPA 353.2	MT	1	PASI-G
40298809002	FIELD BLANK	EPA 6010D	SIS	5	PASI-G
		EPA 6020B	KXS	14	PASI-G
		EPA 7470	AJT	1	PASI-G
		EPA 903.1	TMY	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2540C	LMB	1	PASI-G
		EPA 9040	HML	1	PASI-G
		EPA 300.0	AJS1	3	PASI-G
		EPA 310.2	MT	1	PASI-G
		EPA 353.2	MT	1	PASI-G

PASI-G = Pace Analytical Services - Green Bay

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 25225069 EDGEWATER CCR (I-43)

Pace Project No.: 40298809

Sample: MW-306		Lab ID: 40298809001		Collected: 07/21/25 12:30		Received: 07/22/25 10:15		Matrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Green Bay									
Copper	4.1J	ug/L	10.0	3.4	1	07/23/25 03:19	07/24/25 13:27	7440-50-8	
Manganese	53.0	ug/L	5.0	1.5	1	07/23/25 03:19	07/24/25 13:27	7439-96-5	
Silver	<3.2	ug/L	10.0	3.2	1	07/23/25 03:19	07/24/25 13:27	7440-22-4	
Total Hardness by 2340B	138	mg/L	5.4	1.0	1	07/23/25 03:19	07/24/25 13:27		
Zinc	12.5J	ug/L	40.0	11.6	1	07/23/25 03:19	07/24/25 13:27	7440-66-6	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3010A									
Pace Analytical Services - Green Bay									
Antimony	1.3	ug/L	1.0	0.15	1	07/23/25 03:19	08/01/25 01:25	7440-36-0	
Arsenic	3.3	ug/L	1.0	0.28	1	07/23/25 03:19	08/01/25 01:25	7440-38-2	
Barium	55.8	ug/L	2.3	0.70	1	07/23/25 03:19	08/01/25 01:25	7440-39-3	
Beryllium	<0.25	ug/L	1.0	0.25	1	07/23/25 03:19	08/01/25 01:25	7440-41-7	
Boron	193	ug/L	10.0	3.0	1	07/23/25 03:19	08/01/25 01:25	7440-42-8	
Cadmium	<0.15	ug/L	1.0	0.15	1	07/23/25 03:19	08/01/25 01:25	7440-43-9	
Calcium	24600	ug/L	254	76.2	1	07/23/25 03:19	08/01/25 16:30	7440-70-2	
Chromium	4.9	ug/L	3.4	1.0	1	08/01/25 10:34	08/01/25 22:13	7440-47-3	
Cobalt	1.1	ug/L	1.0	0.12	1	07/23/25 03:19	08/01/25 01:25	7440-48-4	
Lead	1.2	ug/L	1.0	0.24	1	07/23/25 03:19	08/01/25 01:25	7439-92-1	
Lithium	17.8	ug/L	1.0	0.22	1	07/23/25 03:19	08/01/25 01:25	7439-93-2	
Molybdenum	95.5	ug/L	1.5	0.44	1	07/23/25 03:19	08/01/25 01:25	7439-98-7	
Selenium	<0.32	ug/L	1.1	0.32	1	07/23/25 03:19	08/01/25 01:25	7782-49-2	
Thallium	<0.14	ug/L	1.0	0.14	1	07/23/25 03:19	08/01/25 01:25	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Green Bay									
Mercury	<0.099	ug/L	0.20	0.099	1	07/30/25 11:18	07/31/25 09:21	7439-97-6	M0
Field Data									
Analytical Method:									
Pace Analytical Services - Green Bay									
Field pH	8.37	Std. Units			1		07/21/25 12:30		
Field Specific Conductance	626	umhos/cm			1		07/21/25 12:30		
Oxygen, Dissolved	0.79	mg/L			1		07/21/25 12:30	7782-44-7	
REDOX	14.9	mV			1		07/21/25 12:30		
Turbidity	117.0	NTU			1		07/21/25 12:30		
Temperature, Water (C)	13.3	deg C			1		07/21/25 12:30		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Pace Analytical Services - Green Bay									
Total Dissolved Solids	426	mg/L	20.0	8.7	1		07/23/25 13:55		
9040 pH									
Analytical Method: EPA 9040									
Pace Analytical Services - Green Bay									
pH at 25 Degrees C	8.5	Std. Units	0.10	0.010	1		07/22/25 17:11		H6

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 25225069 EDGEWATER CCR (I-43)

Pace Project No.: 40298809

Sample: MW-306 Lab ID: 40298809001 Collected: 07/21/25 12:30 Received: 07/22/25 10:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions									
Analytical Method: EPA 300.0									
Pace Analytical Services - Green Bay									
Chloride	13.4	mg/L	10.0	3.0	5		07/25/25 16:04	16887-00-6	
Fluoride	0.69J	mg/L	1.6	0.48	5		07/25/25 16:04	16984-48-8	D3
Sulfate	118	mg/L	10.0	2.2	5		07/25/25 16:04	14808-79-8	
310.2 Alkalinity									
Analytical Method: EPA 310.2									
Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO ₃	177	mg/L	25.0	7.4	1		08/04/25 10:25		
353.2 Nitrogen, NO₂/NO₃ pres.									
Analytical Method: EPA 353.2									
Pace Analytical Services - Green Bay									
Nitrogen, NO ₂ plus NO ₃	0.51	mg/L	0.25	0.059	1		07/25/25 09:57		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 25225069 EDGEWATER CCR (I-43)

Pace Project No.: 40298809

Sample: FIELD BLANK Lab ID: 40298809002 Collected: 07/21/25 12:45 Received: 07/22/25 10:15 Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Green Bay									
Copper	<3.4	ug/L	10.0	3.4	1	07/23/25 03:19	07/24/25 13:28	7440-50-8	
Manganese	<1.5	ug/L	5.0	1.5	1	07/23/25 03:19	07/24/25 13:28	7439-96-5	
Silver	<3.2	ug/L	10.0	3.2	1	07/23/25 03:19	07/24/25 13:28	7440-22-4	
Total Hardness by 2340B	<1.0	mg/L	5.4	1.0	1	07/23/25 03:19	07/24/25 13:28		
Zinc	<11.6	ug/L	40.0	11.6	1	07/23/25 03:19	07/24/25 13:28	7440-66-6	
6020B MET ICPMS Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Green Bay									
Antimony	<0.15	ug/L	1.0	0.15	1	07/23/25 03:19	08/01/25 01:29	7440-36-0	
Arsenic	<0.28	ug/L	1.0	0.28	1	07/23/25 03:19	08/01/25 01:29	7440-38-2	
Barium	<0.70	ug/L	2.3	0.70	1	07/23/25 03:19	08/01/25 01:29	7440-39-3	
Beryllium	<0.25	ug/L	1.0	0.25	1	07/23/25 03:19	08/01/25 01:29	7440-41-7	
Boron	<3.0	ug/L	10.0	3.0	1	07/23/25 03:19	08/01/25 01:29	7440-42-8	
Cadmium	<0.15	ug/L	1.0	0.15	1	07/23/25 03:19	08/01/25 01:29	7440-43-9	
Calcium	<76.2	ug/L	254	76.2	1	07/23/25 03:19	08/01/25 16:35	7440-70-2	
Chromium	<1.0	ug/L	3.4	1.0	1	08/01/25 10:34	08/01/25 22:17	7440-47-3	
Cobalt	<0.12	ug/L	1.0	0.12	1	07/23/25 03:19	08/01/25 01:29	7440-48-4	
Lead	<0.24	ug/L	1.0	0.24	1	07/23/25 03:19	08/01/25 01:29	7439-92-1	
Lithium	0.28J	ug/L	1.0	0.22	1	07/23/25 03:19	08/01/25 01:29	7439-93-2	
Molybdenum	<0.44	ug/L	1.5	0.44	1	07/23/25 03:19	08/01/25 01:29	7439-98-7	
Selenium	<0.32	ug/L	1.1	0.32	1	07/23/25 03:19	08/01/25 01:29	7782-49-2	
Thallium	<0.14	ug/L	1.0	0.14	1	07/23/25 03:19	08/01/25 01:29	7440-28-0	
7470 Mercury Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Green Bay									
Mercury	<0.099	ug/L	0.20	0.099	1	07/30/25 11:18	07/31/25 09:31	7439-97-6	
2540C Total Dissolved Solids Analytical Method: SM 2540C Pace Analytical Services - Green Bay									
Total Dissolved Solids	<8.7	mg/L	20.0	8.7	1		07/23/25 13:56		
9040 pH Analytical Method: EPA 9040 Pace Analytical Services - Green Bay									
pH at 25 Degrees C	6.8	Std. Units	0.10	0.010	1		07/22/25 17:31		H6
300.0 IC Anions Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay									
Chloride	<0.59	mg/L	2.0	0.59	1		07/24/25 20:22	16887-00-6	
Fluoride	<0.095	mg/L	0.32	0.095	1		07/24/25 20:22	16984-48-8	
Sulfate	<0.44	mg/L	2.0	0.44	1		07/24/25 20:22	14808-79-8	
310.2 Alkalinity Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO3	<7.4	mg/L	25.0	7.4	1		08/04/25 10:28		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 25225069 EDGEWATER CCR (I-43)

Pace Project No.: 40298809

Sample: FIELD BLANK		Lab ID: 40298809002		Collected: 07/21/25 12:45		Received: 07/22/25 10:15		Matrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 pres.		Analytical Method: EPA 353.2 Pace Analytical Services - Green Bay							
Nitrogen, NO2 plus NO3	<0.059	mg/L	0.25	0.059	1		07/25/25 09:58		

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QUALITY CONTROL DATA

Project: 25225069 EDGEWATER CCR (I-43)

Pace Project No.: 40298809

QC Batch: 511800

Analysis Method: EPA 7470

QC Batch Method: EPA 7470

Analysis Description: 7470 Mercury

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40298809001, 40298809002

METHOD BLANK: 2921346

Matrix: Water

Associated Lab Samples: 40298809001, 40298809002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	<0.099	0.20	07/31/25 09:12	

LABORATORY CONTROL SAMPLE: 2921347

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.3	86	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2921348 2921349

Parameter	Units	40298809001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	<0.099	5	5	4.1	3.9	81	78	85-115	3	20	M0

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QUALITY CONTROL DATA

Project: 25225069 EDGEWATER CCR (I-43)

Pace Project No.: 40298809

QC Batch: 511018

Analysis Method: EPA 6010D

QC Batch Method: EPA 3010A

Analysis Description: 6010D MET

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40298809001, 40298809002

METHOD BLANK: 2917417

Matrix: Water

Associated Lab Samples: 40298809001, 40298809002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Copper	ug/L	<3.4	10.0	07/24/25 12:58	
Manganese	ug/L	<1.5	5.0	07/24/25 12:58	
Silver	ug/L	<3.2	10.0	07/24/25 12:58	
Total Hardness by 2340B	mg/L	<1.0	5.4	07/24/25 12:58	
Zinc	ug/L	<11.6	40.0	07/24/25 12:58	

LABORATORY CONTROL SAMPLE: 2917418

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Copper	ug/L	250	262	105	80-120	
Manganese	ug/L	250	262	105	80-120	
Silver	ug/L	125	127	102	80-120	
Total Hardness by 2340B	mg/L		69.0			
Zinc	ug/L	250	257	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2917419 2917420

Parameter	Units	40298616001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Copper	ug/L	<3.4	250	250	264	262	105	104	75-125	1	20	
Manganese	ug/L	575	250	250	832	819	103	98	75-125	1	20	
Silver	ug/L	<3.2	125	125	128	127	102	101	75-125	1	20	
Total Hardness by 2340B	mg/L	874			944	926				2	20	
Zinc	ug/L	<11.6	250	250	260	257	100	99	75-125	1	20	

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QUALITY CONTROL DATA

Project: 25225069 EDGEWATER CCR (I-43)

Pace Project No.: 40298809

QC Batch: 511017

Analysis Method: EPA 6020B

QC Batch Method: EPA 3010A

Analysis Description: 6020B MET

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40298809001, 40298809002

METHOD BLANK: 2917413

Matrix: Water

Associated Lab Samples: 40298809001, 40298809002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	<0.15	1.0	07/31/25 23:42	
Arsenic	ug/L	<0.28	1.0	07/31/25 23:42	
Barium	ug/L	<0.70	2.3	07/31/25 23:42	
Beryllium	ug/L	<0.25	1.0	07/31/25 23:42	
Boron	ug/L	<3.0	10.0	07/31/25 23:42	
Cadmium	ug/L	<0.15	1.0	07/31/25 23:42	
Calcium	ug/L	<76.2	254	08/01/25 15:54	
Cobalt	ug/L	<0.12	1.0	07/31/25 23:42	
Lead	ug/L	<0.24	1.0	07/31/25 23:42	
Lithium	ug/L	<0.22	1.0	07/31/25 23:42	
Molybdenum	ug/L	<0.44	1.5	07/31/25 23:42	
Selenium	ug/L	<0.32	1.1	07/31/25 23:42	
Thallium	ug/L	<0.14	1.0	07/31/25 23:42	

LABORATORY CONTROL SAMPLE: 2917414

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	250	263	105	80-120	
Arsenic	ug/L	250	255	102	80-120	
Barium	ug/L	250	250	100	80-120	
Beryllium	ug/L	250	257	103	80-120	
Boron	ug/L	250	247	99	80-120	
Cadmium	ug/L	250	258	103	80-120	
Calcium	ug/L	10000	10000	100	80-120	
Cobalt	ug/L	250	252	101	80-120	
Lead	ug/L	250	250	100	80-120	
Lithium	ug/L	250	248	99	80-120	
Molybdenum	ug/L	250	257	103	80-120	
Selenium	ug/L	250	267	107	80-120	
Thallium	ug/L	250	247	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2917415

2917416

Parameter	Units	40298701006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	<0.15	250	250	252	253	101	101	75-125	0	20	
Arsenic	ug/L	0.69J	250	250	248	255	99	102	75-125	3	20	

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QUALITY CONTROL DATA

Project: 25225069 EDGEWATER CCR (I-43)

Pace Project No.: 40298809

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2917415 2917416												
Parameter	Units	40298701006	MS	MSD	MS	MSD	MS	MSD	% Rec	RPD	Max	Qual
		Result	Spike	Spike								
Barium	ug/L	27.1	250	250	269	273	97	98	75-125	2	20	
Beryllium	ug/L	<0.25	250	250	252	253	101	101	75-125	0	20	
Boron	ug/L	0.013	250	250	263	256	100	97	75-125	3	20	
Cadmium	ug/L	mg/L <0.15	250	250	254	255	102	102	75-125	0	20	
Calcium	ug/L	17800	10000	10000	28200	27500	104	97	75-125	2	20	
Cobalt	ug/L	0.25J	250	250	245	252	98	101	75-125	3	20	
Lead	ug/L	<0.24	250	250	244	245	98	98	75-125	1	20	
Lithium	ug/L	1.4	250	250	250	244	99	97	75-125	2	20	
Molybdenum	ug/L	<0.44	250	250	253	255	101	102	75-125	1	20	
Selenium	ug/L	<0.32	250	250	260	265	104	106	75-125	2	20	
Thallium	ug/L	0.15J	250	250	243	243	97	97	75-125	0	20	

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QUALITY CONTROL DATA

Project: 25225069 EDGEWATER CCR (I-43)
Pace Project No.: 40298809

QC Batch: 512030 Analysis Method: EPA 6020B
QC Batch Method: EPA 3010A Analysis Description: 6020B MET
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40298809001, 40298809002

METHOD BLANK: 2922548 Matrix: Water

Associated Lab Samples: 40298809001, 40298809002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium	ug/L	<1.0	3.4	08/01/25 21:36	

LABORATORY CONTROL SAMPLE: 2922549

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium	ug/L	250	248	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2922550 2922551

Parameter	Units	40298701006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chromium	ug/L	1.2J	250	250	251	254	100	101	75-125	1	20	

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QUALITY CONTROL DATA

Project: 25225069 EDGEWATER CCR (I-43)
Pace Project No.: 40298809

QC Batch:	511081	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Green Bay

Associated Lab Samples: 40298809001, 40298809002

METHOD BLANK: 2917604 Matrix: Water

Associated Lab Samples: 40298809001, 40298809002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<8.7	20.0	07/23/25 13:53	

LABORATORY CONTROL SAMPLE: 2917605

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	584	574	98	80-120	

SAMPLE DUPLICATE: 2917610

Parameter	Units	40298777001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	244	234	4	10	

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QUALITY CONTROL DATA

Project:	25225069 EDGEWATER CCR (I-43)		
Pace Project No.:	40298809		
QC Batch:	510950	Analysis Method:	EPA 9040
QC Batch Method:	EPA 9040	Analysis Description:	9040 pH
		Laboratory:	Pace Analytical Services - Green Bay
Associated Lab Samples:	40298809001, 40298809002		

SAMPLE DUPLICATE: 2917009

Parameter	Units	40298512001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.4	8.4	0	20	H6

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REPORT OF LABORATORY ANALYSIS



QUALITY CONTROL DATA

Project: 25225069 EDGEWATER CCR (I-43)
Pace Project No.: 40298809

QC Batch: 511297 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40298809001, 40298809002

METHOD BLANK: 2918990 Matrix: Water

Associated Lab Samples: 40298809001, 40298809002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<0.59	2.0	07/24/25 19:17	
Fluoride	mg/L	<0.095	0.32	07/24/25 19:17	
Sulfate	mg/L	<0.44	2.0	07/24/25 19:17	

LABORATORY CONTROL SAMPLE: 2918991

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	21.1	105	90-110	
Fluoride	mg/L	2	2.1	104	90-110	
Sulfate	mg/L	20	20.1	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2918992 2918993

Parameter	Units	40298809001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	13.4	100	100	116	116	103	102	90-110	0	15	
Fluoride	mg/L	0.69J	10	10	11.2	11.2	105	105	90-110	0	15	
Sulfate	mg/L	118	100	100	223	222	105	104	90-110	0	15	

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QUALITY CONTROL DATA

Project: 25225069 EDGEWATER CCR (I-43)
Pace Project No.: 40298809

QC Batch: 512120 Analysis Method: EPA 310.2
QC Batch Method: EPA 310.2 Analysis Description: 310.2 Alkalinity
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40298809001, 40298809002

METHOD BLANK: 2923938 Matrix: Water

Associated Lab Samples: 40298809001, 40298809002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	<7.4	25.0	08/04/25 10:23	

LABORATORY CONTROL SAMPLE: 2923939

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	100	102	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2923940 2923941

Parameter	Units	40298809001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO ₃	mg/L	177	100	100	276	277	99	100	90-110	0	20	

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QUALITY CONTROL DATA

Project: 25225069 EDGEWATER CCR (I-43)
Pace Project No.: 40298809

QC Batch: 511353 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, preserved
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40298809001, 40298809002

METHOD BLANK: 2919242 Matrix: Water

Associated Lab Samples: 40298809001, 40298809002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	<0.059	0.25	07/25/25 09:46	

LABORATORY CONTROL SAMPLE: 2919243

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2.5	2.5	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2919244 2919245

Parameter	Units	40298602001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	<0.059	2.5	2.5	2.5	2.5	101	99	90-110	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2919246 2919247

Parameter	Units	40298954002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	15.1	12.5	12.5	27.3	27.4	98	99	90-110	0	20	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 25225069 EDGEWATER CCR (I-43)

Pace Project No.: 40298809

Sample: MW-306		Lab ID: 40298809001	Collected: 07/21/25 12:30	Received: 07/22/25 10:15	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg			pCi/L	08/08/25 14:21	13982-63-3	
	EPA 903.1	1.42U ± 0.805 (1.42) C:NA T:96%					
Radium-228	Pace Analytical Services - Greensburg			pCi/L	08/08/25 14:37	15262-20-1	
	EPA 904.0	0.968U ± 0.421 (0.968) C:79% T:91%					
Total Radium	Pace Analytical Services - Greensburg			pCi/L	08/11/25 12:14	7440-14-4	
	Total Radium Calculation	2.39U ± 1.23 (2.39)					

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 25225069 EDGEWATER CCR (I-43)

Pace Project No.: 40298809

Sample: FIELD BLANK		Lab ID: 40298809002	Collected: 07/21/25 12:45	Received: 07/22/25 10:15	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg			pCi/L	08/08/25 14:21	13982-63-3	
	EPA 903.1	1.32U ± 0.748 (1.32) C:NA T:91%					
Radium-228	Pace Analytical Services - Greensburg			pCi/L	08/08/25 14:37	15262-20-1	
	EPA 904.0	0.882U ± 0.398 (0.882) C:79% T:90%					
Total Radium	Pace Analytical Services - Greensburg			pCi/L	08/11/25 12:14	7440-14-4	
	Total Radium Calculation	2.20U ± 1.15 (2.20)					

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QUALITY CONTROL - RADIOCHEMISTRY

Project: 25225069 EDGEWATER CCR (I-43)

Pace Project No.: 40298809

QC Batch: 761053

Analysis Method: EPA 903.1

QC Batch Method: EPA 903.1

Analysis Description: 903.1 Radium-226

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 40298809001, 40298809002

METHOD BLANK: 3708960

Matrix: Water

Associated Lab Samples: 40298809001, 40298809002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.129 ± 0.348 (0.750) C:NA T:94%	pCi/L	08/08/25 14:21	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: 25225069 EDGEWATER CCR (I-43)

Pace Project No.: 40298809

QC Batch: 761054

Analysis Method: EPA 904.0

QC Batch Method: EPA 904.0

Analysis Description: 904.0 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 40298809001, 40298809002

METHOD BLANK: 3708961

Matrix: Water

Associated Lab Samples: 40298809001, 40298809002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.209 ± 0.301 (0.648) C:81% T:91%	pCi/L	08/08/25 14:37	

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QUALIFIERS

Project: 25225069 EDGEWATER CCR (I-43)
Pace Project No.: 40298809

DEFINITIONS

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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 - The reported result is an estimated value.

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.

DL - Adjusted Method Detection Limit.

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 - Analyte was not detected and is reported as less than the LOD or as defined by the customer.

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

H6 Analysis initiated outside of the 15 minute EPA required holding time.

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 25225069 EDGEWATER CCR (I-43)

Pace Project No.: 40298809

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40298809001	MW-306	EPA 3010A	511018	EPA 6010D	511148
40298809002	FIELD BLANK	EPA 3010A	511018	EPA 6010D	511148
40298809001	MW-306	EPA 3010A	511017	EPA 6020B	511119
40298809001	MW-306	EPA 3010A	512030	EPA 6020B	512079
40298809002	FIELD BLANK	EPA 3010A	511017	EPA 6020B	511119
40298809002	FIELD BLANK	EPA 3010A	512030	EPA 6020B	512079
40298809001	MW-306	EPA 7470	511800	EPA 7470	511847
40298809002	FIELD BLANK	EPA 7470	511800	EPA 7470	511847
40298809001	MW-306				
40298809001	MW-306	EPA 903.1	761053		
40298809002	FIELD BLANK	EPA 903.1	761053		
40298809001	MW-306	EPA 904.0	761054		
40298809002	FIELD BLANK	EPA 904.0	761054		
40298809001	MW-306	Total Radium Calculation	763761		
40298809002	FIELD BLANK	Total Radium Calculation	763761		
40298809001	MW-306	SM 2540C	511081		
40298809002	FIELD BLANK	SM 2540C	511081		
40298809001	MW-306	EPA 9040	510950		
40298809002	FIELD BLANK	EPA 9040	510950		
40298809001	MW-306	EPA 300.0	511297		
40298809002	FIELD BLANK	EPA 300.0	511297		
40298809001	MW-306	EPA 310.2	512120		
40298809002	FIELD BLANK	EPA 310.2	512120		
40298809001	MW-306	EPA 353.2	511353		
40298809002	FIELD BLANK	EPA 353.2	511353		

REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, LLC.

Effective Date: 8/16/2022

Client Name: SCS

Sample Preservation Receipt Form

Project #

40298809

All containers needing preservation have been checked and noted below:

☒ Yes☐ No☐ N/A

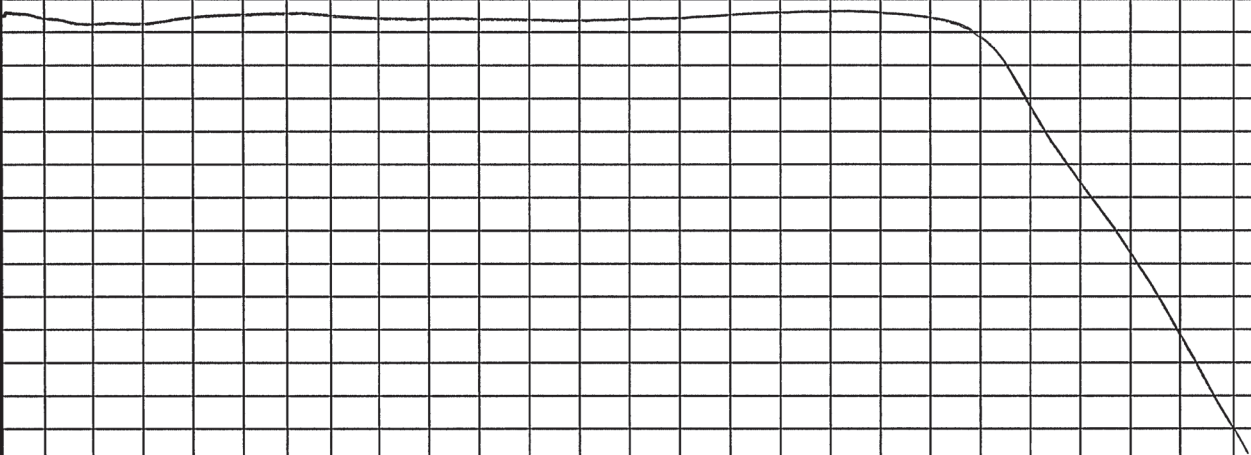
Lab Lot# of pH paper:

10D3242

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

Initial when completed: EL

Date/Time:

Pace Lab #	Glass						Plastic					Vials					Jars				General				VOA Vials (>6mm) *	H ₂ SO ₄ pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO ₃ pH ≤2	pH after adjusted	Volume (mL)																												
	AG1U	BG1U	AG1H	AG4S	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	BP2Z	VG9C	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU	WPFU	SP5T								ZPLC	GN 1	GN 2																									
001									2		1	1														2				X			2.5 / 5																										
002									2		1	1														2				X			2.5 / 5																										
003																																																											2.5 / 5
004																																	2.5 / 5																										
005																																	2.5 / 5																										
006																																	2.5 / 5																										
007																																	2.5 / 5																										
008																																	2.5 / 5																										
009																																	2.5 / 5																										
010																																	2.5 / 5																										
011																																	2.5 / 5																										
012																																	2.5 / 5																										
013																																	2.5 / 5																										
014																																	2.5 / 5																										
015																																	2.5 / 5																										
016																																	2.5 / 5																										
017																																	2.5 / 5																										
018																																	2.5 / 5																										
019																																	2.5 / 5																										
020																																	2.5 / 5																										

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

Headspace in VOA Vials (>6mm): ☐ Yes ☐ No ☒ N/A

*If yes look in headspace column

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	VG9C	40 mL clear ascorbic w/ HCl	JGFU	4 oz amber jar unpres
BG1U	1 liter clear glass	BP3U	250 mL plastic unpres	DG9T	40 mL amber Na Thio	JG9U	9 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP3B	250 mL plastic NaOH	VG9U	40 mL clear vial unpres	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H ₂ SO ₄	BP3N	250 mL plastic HNO ₃	VG9H	40 mL clear vial HCL	WPFU	4 oz plastic jar unpres
AG5U	100 mL amber glass unpres	BP3S	250 mL plastic H ₂ SO ₄	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H ₂ SO ₄	BP2Z	500 mL plastic NaOH + Zn	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres					GN 1	1 Liter nitric acid plastic
						GN 2	

Page 1 of 2

Sample Condition Upon Receipt Form (SCUR)

Client Name: SCS
Courier: ☒ CS Logistics ☐ Fed Ex ☐ Speedee ☐ UPS ☐ Purple Mountain
☐ Client ☐ Pace Other: _____

Project #: _____

WO#: 40298809



Tracking #: _____
Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no
Custody Seal on Samples Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no
Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☒ None ☐ Other _____

Thermometer Used SR-142 Type of Ice: ☒ Wet ☐ Blue ☐ Dry ☐ None ☐ Meltwater Only

Cooler Temperature Uncorr: 0-0 / Corr: 0-5

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

Temp should be above freezing to 6°C.

Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Person examining contents:

Date: 7/21/25 / Initials: EL

Labeled By Initials: Prue

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

Client Notification/ Resolution:

If checked, see attached form for additional comments ☐

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

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

Page 2 of 2



Appendix D

Historical Monitoring Results

Single Location
Name: WPL -
Edgewater I43

Location ID: MW-301
Number of Sampling Dates: 30

Parameter Name	Units	4/26/2016	6/21/2016	8/10/2016	10/19/2016	12/19/2016	1/5/2017	1/23/2017	2/23/2017	4/6/2017	6/6/2017	8/1/2017	10/23/2017	4/3/2018	10/4/2018	4/9/2019	10/8/2019	4/7/2020
Boron	ug/L	298	157	151	148	174	--	177	181	144	138	145	149	136	120	126	142	133
Calcium	ug/L	389000	148000	94900	77800	127000	--	105000	51400	45200	57600	59400	48700	36700	43700	42900	42600	55800
Chloride	mg/L	28.5	18	6.2	7.4	8.9	--	8.2	6.3	5.6	7.5	5.2	4.7	4.7	4.1	4	3.8	6.9
Fluoride	mg/L	<2	1.1	0.62	0.65	0.86	--	0.77	0.64	0.61	0.87	0.63	0.62	0.62	0.61	0.63	0.63	0.82
Field pH	Std. Units	8.24	8.01	8.08	8	8.36	--	8.21	8.14	8.12	7.89	7.99	7.82	8.02	8.15	8.18	7.7	8.05
Sulfate	mg/L	25.9	15.9	7.4	9.5	9.6	--	9.3	9.1	9.1	9	8.2	8.6	9.3	8.8	9.2	9.3	11.2
Total Dissolved Solids	mg/L	343	290	306	312	264	194	254	276	240	264	248	236	214	260	230	256	276
Antimony	ug/L	0.98	0.58	0.12	<0.36	1	--	<0.36	2.7	1.4	<0.15	<0.15	--	--	--	--	--	--
Arsenic	ug/L	20.8	8.1	5.8	4.6	7.3	--	6.8	5.6	4.7	3.7	4.2	--	--	--	--	--	--
Barium	ug/L	596	236	177	141	195	--	219	128	107	125	115	--	--	--	--	--	--
Beryllium	ug/L	3.9	1.1	0.54	<0.63	1.1	--	1.1	4.1	0.49	0.18	0.25	--	--	--	--	--	--
Cadmium	ug/L	0.47	<0.44	<0.089	<0.44	0.97	--	<0.44	2.1	1	0.091	<0.081	--	--	--	--	--	--
Chromium	ug/L	133	37.7	20.8	16	27.7	--	28.6	14.2	8.6	10.6	8.6	--	--	--	--	--	--
Cobalt	ug/L	36.3	10.6	5.4	4.2	8.4	--	7.6	5.2	2.9	2.7	2.3	--	--	--	--	--	--
Lead	ug/L	35.9	11.3	6.1	5.1	9.6	--	8.1	5.6	3.3	3.2	3	--	--	--	--	--	--
Lithium	ug/L	137	49.2	29	24.8	42.2	--	38.6	25.1	16.2	18.1	16.7	--	--	--	--	--	--
Mercury	ug/L	<0.18	<0.13	<0.13	<0.13	<0.13	--	<0.13	<0.13	<0.13	<0.13	<0.13	--	--	--	--	--	--
Molybdenum	ug/L	12.2	11.5	10.8	9.4	11	--	10.9	13.3	10.6	10.2	9.7	--	--	--	--	--	--
Selenium	ug/L	12.2	2.6	1.1	<1	2.5	--	<1	3.4	1.5	<0.32	0.39	--	--	--	--	--	--
Thallium	ug/L	0.88	<0.71	<0.14	<0.71	1.2	--	<0.71	2.6	1.3	<0.14	<0.14	--	--	--	--	--	--
Radium-226	pCi/L	1.9	1.29	-0.088	-0.595	0.446	--	0.432	0.546	-0.084	0.408	0.539	--	--	--	--	--	--
Radium-228	pCi/L	3.54	0.349	0.462	1.58	1.65	--	0.563	3.3	0.486	1.2	0.557	--	--	--	--	--	--
Total Radium	pCi/L	5.44	1.64	0.462	1.58	2.09	--	0.995	3.85	0.486	1.61	1.16	--	--	--	--	--	--
Field Specific Conductance	umhos/cm	401	394	387	367	384	--	382	371	390	374	377	378	384	387	395	390	384
Oxygen, Dissolved	mg/L	1.1	0.9	0.1	0.1	0.09	--	0.1	1.5	0.3	0.2	0	0.6	0.1	0.2	0.2	0.32	0.3
Field Oxidation Potential	mV	-94	-178	-155	-135	-143	--	-141	33	-53	-171	-161	-46	-138	-97	-99	97	-69
Groundwater Elevation	feet	653.54	652.01	649.68	652.32	652.85	--	652.98	653.14	654.43	654.11	652.64	652.03	651.28	650.71	653.06	653.26	656.59
Temperature	deg C	8.7	10.9	10.9	11.3	7.5	--	8.5	9	9.9	11.1	10.5	9.7	8.6	9.5	9.4	9.8	9.5
Turbidity	NTU	340.1	916.9	739.9	452.6	895.1	--	650.8	264.3	207.4	322.2	349.1	150.6	89.45	136.6	125.8	133.7	259
pH at 25 Degrees C	Std. Units	7.8	8	7.6	7.8	7.9	--	8.1	7.9	8	8	7.9	7.8	8	7.2	7.9	7.9	7.9

Single Location

Name: WPL - Edgewater I43

Location ID: MW-301

Number of Sampling Dates: 30

Parameter Name	Units	10/13/2020	12/18/2020	4/13/2021	6/16/2021	10/26/2021	4/13/2022	10/4/2022	4/24/2023	10/9/2023	4/15/2024	10/2/2024	4/23/2025
Boron	ug/L	142	--	132	--	130	124	124	119	128	131	130	117
Calcium	ug/L	33400	--	53900	--	30200	42100	35300	30600	26600	24400	24300	23300
Chloride	mg/L	4.2	--	3.9	--	3.3	3.7	3.9	3.4	3.5	3.3	3.3	3
Fluoride	mg/L	0.83	0.64	0.64	--	0.61	0.7	0.62	0.62	0.67	0.64	0.65	0.69
Field pH	Std. Units	7.96	7.64	8.48	8.14	8.23	8.03	7.98	8.05	8.07	7.62	7.72	8.08
Sulfate	mg/L	19	--	10.2	--	10.2	11.1	11.8	11.4	12.1	11	10.3	10.5
Total Dissolved Solids	mg/L	228	--	238	--	200	262	236	230	200	206	200	190
Antimony	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Barium	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Beryllium	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Cobalt	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Lead	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Lithium	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Molybdenum	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Selenium	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Thallium	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Radium-226	pCi/L	--	--	--	--	--	--	--	--	--	--	--	--
Radium-228	pCi/L	--	--	--	--	--	--	--	--	--	--	--	--
Total Radium	pCi/L	--	--	--	--	--	--	--	--	--	--	--	--
Field Specific Conductance	umhos/cm	354	391	387	358	356	377	373	370	359	353	351	369
Oxygen, Dissolved	mg/L	1.1	0.5	0.2	0.3	1.3	0.49	0.63	1.4	0.87	1.84	0.78	0.97
Field Oxidation Potential	mV	162	1.7	-16	146	291	224.6	59.9	370.1	433.2	472.8	665.4	95
Groundwater Elevation	feet	652.16	653.91	654.56	649.78	650.76	651.65	648.87	653.26	648.65	652.95	650.21	653.23
Temperature	deg C	12.5	8.1	9.1	10.2	11.2	9.2	11.1	8.8	10.3	12.5	12	9.8
Turbidity	NTU	57.28	69.45	179	--	130	145	115	97.9	45.4	14.5	22.4	20.6
pH at 25 Degrees C	Std. Units	7.8	--	8	--	7.9	8	8	7.9	8	8.5	8.5	8.3

Single Location
Name: WPL -
Edgewater I43

Location ID: MW-302
Number of Sampling Dates: 34

Parameter Name	Units	4/26/2016	6/21/2016	8/9/2016	10/19/2016	12/19/2016	1/5/2017	1/23/2017	2/23/2017	4/6/2017	6/6/2017	8/1/2017	10/23/2017	4/3/2018	10/4/2018	4/9/2019	10/8/2019
Boron	ug/L	198	121	131	126	127	--	151	149	132	124	130	128	124	115	118	129
Calcium	ug/L	254000	49000	36500	30900	42600	--	59300	41900	40800	38700	33900	31200	30000	28200	28400	29900
Chloride	mg/L	19.5	8.9	7.1	7.6	10	--	8.9	6.9	6.7	6.9	5.6	5.5	5.2	4.5	4.4	3.8
Fluoride	mg/L	1.1	0.74	0.75	0.69	0.94	--	0.85	0.67	0.68	0.83	0.74	0.71	0.73	0.71	0.73	0.71
Field pH	Std. Units	8.33	8.05	6.24	12.2	8.31	--	8.16	8.16	8	7.95	7.98	7.7	8.02	8.08	8.14	7.67
Sulfate	mg/L	81.5	36.4	35	42.6	36.4	--	30.4	27.9	29.6	32.2	24	26.3	22.6	19.6	20.4	18.4
Total Dissolved Solids	mg/L	543	346	308	298	302	280	324	344	322	284	262	238	248	250	248	242
Antimony	ug/L	4.5	0.73	0.28	0.37	0.97	--	0.75	0.96	0.41	0.4	0.21	--	--	--	--	--
Arsenic	ug/L	26.7	7.8	6.2	4.5	6.5	--	9	8.5	5.7	7.2	6.3	--	--	--	--	--
Barium	ug/L	309	100	80.1	60.4	77.5	--	119	103	90.2	77.2	78.8	--	--	--	--	--
Beryllium	ug/L	3.8	0.69	0.22	<0.13	0.35	--	1	0.8	<0.63	<0.18	<0.18	--	--	--	--	--
Cadmium	ug/L	0.85	<0.18	<0.089	<0.089	0.6	--	<0.44	<0.44	<0.44	<0.081	<0.081	--	--	--	--	--
Chromium	ug/L	49.8	5.2	2	0.81	3	--	7	5.5	3.6	1.6	1.2	--	--	--	--	--
Cobalt	ug/L	14.6	1.8	0.65	0.36	1.1	--	2.5	2.1	1.1	0.52	0.47	--	--	--	--	--
Lead	ug/L	55	7.1	2.3	0.92	3.6	--	8.8	6.5	3.5	1.4	1.7	--	--	--	--	--
Lithium	ug/L	79.9	19.2	14.4	14	15.8	--	22.8	19.6	16.8	12.7	11.2	--	--	--	--	--
Mercury	ug/L	<0.18	<0.13	<0.13	<0.13	<0.13	--	<0.13	<0.13	<0.13	<0.13	<0.13	--	--	--	--	--
Molybdenum	ug/L	24.4	11.8	11.5	12.7	10.7	--	11.6	9.8	10.3	10.7	8	--	--	--	--	--
Selenium	ug/L	21.6	2.3	0.64	0.39	1.4	--	2.1	2.7	1.4	<0.32	0.44	--	--	--	--	--
Thallium	ug/L	<0.71	<0.29	<0.14	<0.14	0.68	--	<0.71	<0.71	<0.71	<0.14	<0.14	--	--	--	--	--
Radium-226	pCi/L	4.55	1.73	0.0816	0	0.293	--	0.325	1.21	1.49	0.366	1.1	--	--	--	--	--
Radium-228	pCi/L	3	1.84	1.24	1.12	0.574	--	2.4	2.64	0.351	0.841	0.208	--	--	--	--	--
Total Radium	pCi/L	7.55	3.57	1.32	1.12	0.867	--	2.73	3.85	1.84	1.21	0.844	--	--	--	--	--
Field Specific Conductance	umhos/cm	648	508	507	510	497	--	486	470	491	419	435	455	434	433	426	423
Oxygen, Dissolved	mg/L	2.4	0.5	0.5	0	0	--	0.4	1	0	0.3	0	0.7	0.2	0.3	0.8	0.72
Field Oxidation Potential	mV	52	-108	-95	-107	-73	--	-79	25	-12	-14	-115	70	-75	60	18	90
Groundwater Elevation	feet	653.56	651.89	649.3	652.38	652.79	--	664.97	653.1	654.72	654.12	652.55	652.05	651.25	650.7	654.06	653.21
Temperature	deg C	8.8	10.1	11.3	12.2	8.1	--	8.6	9.1	9.7	12.1	10.7	10.4	8.8	10.1	9.9	9.7
Turbidity	NTU	961.9	248.2	85.43	32.08	190.8	--	372.8	296.2	144.2	84.5	56.73	33.56	35.46	23.32	18.41	11.73
pH at 25 Degrees C	Std. Units	8	8	7.8	7.8	7.9	--	8	7.9	8	7.9	7.9	7.9	8	7.9	7.9	7.9

Single Location

Name: WPL - Edgewater I43

Location ID: MW-302

Number of Sampling Dates: 34

Parameter Name	Units	4/8/2020	5/20/2020	10/13/2020	12/18/2020	4/13/2021	6/16/2021	10/26/2021	4/13/2022	6/16/2022	10/4/2022	4/24/2023	10/9/2023	11/14/2023	4/15/2024	10/2/2024	4/21/2025	6/10/2025
Boron	ug/L	111	--	128	--	121	--	122	113	--	117	114	129	--	123	126	120	--
Calcium	ug/L	27200	--	26900	--	28700	--	27200	28600	--	24800	26600	27900	--	26500	28200	25500	--
Chloride	mg/L	4.4	--	4.3	--	4.1	--	3.8	4	--	4.3	3.9	3.9	--	4.2	4	5.3	--
Fluoride	mg/L	0.75	0.7	0.82	0.73	0.76	0.77	0.74	0.85	0.77	0.72	0.74	0.77	0.77	0.74	0.75	0.79	0.71
Field pH	Std. Units	7.79	8.19	7.85	8.05	8.36	8.37	8.23	8.01	8.1	7.97	8	8.03	8	7.71	7.75	8.09	7.81
Sulfate	mg/L	19.4	--	19	--	17.4	--	15.9	17.2	--	17	16.1	16.5	--	24.8	19.4	32.4	--
Total Dissolved Solids	mg/L	254	--	192	--	232	--	220	238	--	222	240	222	--	246	192	280	--
Antimony	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Barium	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Beryllium	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cobalt	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lithium	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Molybdenum	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Selenium	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Thallium	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Radium-226	pCi/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Radium-228	pCi/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Radium	pCi/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Field Specific Conductance	umhos/cm	413	420	418	426	412	386	393	399	384	383	387	381	391.3	414	401	444	543
Oxygen, Dissolved	mg/L	0.7	0.2	0.3	1	0.4	0.6	0.6	0.69	0.52	0.83	1.22	0.79	0.7	0.79	1.25	1.07	1.97
Field Oxidation Potential	mV	-3.4	-6	37	163	189	24	207	341	105.7	94.9	451.2	311.9	-79.9	455.7	631.4	-24	134.3
Groundwater Elevation	feet	656.47	655.81	652.17	653.88	654.57	649.75	650.88	651.62	650.55	648.85	653.25	648.67	649.97	652.93	650.48	653.24	653.36
Temperature	deg C	9.3	10	11.9	8.9	9.2	10.3	9.8	9.9	11.1	11.8	9	10.9	9.6	11.4	13.1	9.4	11.5
Turbidity	NTU	25.99	10.15	14.16	9.23	19.6	18.1	38.3	3.88	4.95	3.33	1.77	4.36	--	2.7	11.49	7.05	6.25
pH at 25 Degrees C	Std. Units	7.7	--	7.9	--	8	--	8	7.9	--	8	8	8	--	8.5	8.5	8.3	--

Single Location
Name: WPL -
Edgewater I43

Location ID: MW-303
Number of Sampling Dates: 28

Parameter Name	Units	4/26/2016	6/21/2016	8/9/2016	10/19/2016	12/19/2016	1/5/2017	1/23/2017	2/23/2017	4/7/2017	6/6/2017	8/1/2017	10/23/2017	4/3/2018	10/4/2018	4/9/2019	10/7/2019	4/8/2020
Boron	ug/L	86.4	85	96	90.8	81.6	--	99.8	93.9	89.8	89.1	95	89	94.6	87.3	88.4	91.2	79
Calcium	ug/L	48300	36900	36700	31600	50500	--	46700	32600	33200	35500	35900	29100	31900	31600	31700	30900	29900
Chloride	mg/L	15.5	6.9	6.8	6.8	22.9	--	8.8	5.3	6.2	6.2	5.7	6.8	5	4.4	4.1	4.7	4.3
Fluoride	mg/L	0.55	0.59	0.59	0.6	0.63	--	0.8	0.55	0.57	0.69	0.6	0.66	0.54	0.56	0.57	0.6	0.6
Field pH	Std. Units	7.96	7.98	6.24	8.03	8.32	--	8.23	8.24	8.15	7.9	7.91	7.59	7.98	8.04	8.05	10.12	7.67
Sulfate	mg/L	131	45.2	70.1	137	38.2	--	113	46.1	79.2	51.1	40.5	67.1	27.3	26.1	23.7	30.3	23.3
Total Dissolved Solids	mg/L	468	314	378	458	312	310	400	300	348	314	290	304	260	270	270	230	274
Antimony	ug/L	0.66	0.1	0.077	0.077	2.3	--	0.59	0.081	<0.073	<0.15	<0.15	--	--	--	--	--	--
Arsenic	ug/L	2.8	5.3	4.4	2.7	3.2	--	3.8	5.5	2.8	4	4.4	--	--	--	--	--	--
Barium	ug/L	134	80.2	91.2	81.6	90.3	--	120	81.1	80.7	80.6	81.1	--	--	--	--	--	--
Beryllium	ug/L	0.18	<0.13	<0.13	<0.13	<0.13	--	0.13	<0.13	<0.13	<0.18	<0.18	--	--	--	--	--	--
Cadmium	ug/L	<0.089	<0.089	<0.089	<0.089	0.22	--	0.098	<0.089	<0.089	<0.081	<0.081	--	--	--	--	--	--
Chromium	ug/L	8.1	1	0.93	0.41	1.3	--	8.6	2.1	0.79	<1	<1	--	--	--	--	--	--
Cobalt	ug/L	2.2	0.5	0.4	0.32	0.63	--	2	0.75	0.34	0.4	0.44	--	--	--	--	--	--
Lead	ug/L	1.9	0.26	0.091	0.16	0.3	--	2.1	0.52	0.082	<0.2	0.22	--	--	--	--	--	--
Lithium	ug/L	19.3	10.2	13.1	14.8	10.3	--	20.1	11.9	13.2	11.4	11.4	--	--	--	--	--	--
Mercury	ug/L	<0.18	<0.13	<0.13	<0.13	<0.13	--	<0.13	<0.13	<0.13	<0.13	<0.13	--	--	--	--	--	--
Molybdenum	ug/L	45.4	12.7	23	34	9.4	--	30.5	11	21.2	14.4	12.4	--	--	--	--	--	--
Selenium	ug/L	0.66	<0.21	<0.21	<0.21	0.26	--	0.29	<0.21	<0.21	<0.32	<0.32	--	--	--	--	--	--
Thallium	ug/L	<0.14	0.17	<0.14	<0.14	<0.14	--	<0.14	<0.14	<0.14	<0.14	<0.14	--	--	--	--	--	--
Radium-226	pCi/L	0	0.721	0	0	0.367	--	-0.066	0.233	0.535	0.298	0.198	--	--	--	--	--	--
Radium-228	pCi/L	0.392	0.338	0.426	0.921	0.497	--	0.236	1.37	0.336	0.397	0.454	--	--	--	--	--	--
Total Radium	pCi/L	0.392	1.06	0.426	0.921	0.864	--	0.236	1.6	0.871	0.695	0.603	--	--	--	--	--	--
Field Specific Conductance	umhos/cm	586	589	756	567	582	--	681	558	617	486	564	557	494	500	486	497	454
Oxygen, Dissolved	mg/L	1.1	0.8	0.4	2.2	0	--	0.9	0.1	0.6	0.4	0	1	0.2	0.2	0.2	0.56	0.5
Field Oxidation Potential	mV	178	-174	-138	-185	-156	--	-168	-119	-93	-65	-157	88	-125	-105	-65	127	-75.2
Groundwater Elevation	feet	653.59	651.8	649.37	652.18	652.82	--	652.92	653.1	654.55	654.14	652.5	652.03	651.3	650.7	654.06	653.27	656.46
Temperature	deg C	8.6	10.2	11.3	11.3	4.4	--	8.8	8.9	9.7	11	11.7	10.1	8.9	10	9.5	11.8	9.4
Turbidity	NTU	107.6	21.88	13.48	8.9	30.04	--	103.3	51.76	9.79	22.54	16.29	3.06	6.62	17.2	4.92	9.74	21.08
pH at 25 Degrees C	Std. Units	7.6	7.9	7.8	7.9	7.7	--	8.1	7.9	7.9	7.9	7.9	7.9	7.8	7.9	7.8	7.9	7.8

Single Location

Name: WPL -

Edgewater I43

Location ID: MW-303

Number of Sampling Dates: 28

Parameter Name	Units	10/13/2020	4/13/2021	10/26/2021	4/11/2022	10/5/2022	4/24/2023	10/9/2023	4/15/2024	10/2/2024	4/21/2025
Boron	ug/L	85.8	84.7	83.3	80.7	84.2	85.4	84.4	88.4	83	78.6
Calcium	ug/L	29000	29600	29300	31300	29600	31200	27400	28400	28700	26400
Chloride	mg/L	5.2	4.5	4.2	4.3	4.2	3.8	5.3	3.9	3.8	3.7
Fluoride	mg/L	0.7	0.62	0.61	0.71	0.56	0.58	0.76	0.63	0.63	0.66
Field pH	Std. Units	8.31	8.26	8.05	7.73	7.97	7.93	7.96	7.67	7.72	8.04
Sulfate	mg/L	33.2	25.6	28.9	24.9	23.9	20.6	26.7	24.4	24.7	23
Total Dissolved Solids	mg/L	150	260	268	274	270	268	266	262	266	254
Antimony	ug/L	--	--	--	--	--	--	--	--	--	--
Arsenic	ug/L	--	--	--	--	--	--	--	--	--	--
Barium	ug/L	--	--	--	--	--	--	--	--	--	--
Beryllium	ug/L	--	--	--	--	--	--	--	--	--	--
Cadmium	ug/L	--	--	--	--	--	--	--	--	--	--
Chromium	ug/L	--	--	--	--	--	--	--	--	--	--
Cobalt	ug/L	--	--	--	--	--	--	--	--	--	--
Lead	ug/L	--	--	--	--	--	--	--	--	--	--
Lithium	ug/L	--	--	--	--	--	--	--	--	--	--
Mercury	ug/L	--	--	--	--	--	--	--	--	--	--
Molybdenum	ug/L	--	--	--	--	--	--	--	--	--	--
Selenium	ug/L	--	--	--	--	--	--	--	--	--	--
Thallium	ug/L	--	--	--	--	--	--	--	--	--	--
Radium-226	pCi/L	--	--	--	--	--	--	--	--	--	--
Radium-228	pCi/L	--	--	--	--	--	--	--	--	--	--
Total Radium	pCi/L	--	--	--	--	--	--	--	--	--	--
Field Specific Conductance	umhos/cm	570	475	478	458	455	447	446	439	453	456
Oxygen, Dissolved	mg/L	0.4	0.5	0.6	1.75	1.1	1.03	2.77	3.35	2.28	2.26
Field Oxidation Potential	mV	128	154	244	78	117.5	297.4	472.7	556.9	751	28
Groundwater Elevation	feet	652.2	654.53	650.9	651.58	648.89	653.31	648.65	652.96	650.15	653.49
Temperature	deg C	10.7	9.4	9.7	10.9	10.3	9.4	10.2	13	12.3	9.4
Turbidity	NTU	7.21	<0.02	71.5	0.92	2.64	1.65	1.22	2.04	0.27	1.08
pH at 25 Degrees C	Std. Units	7.9	8	8	7.9	7.9	8	7.9	8.5	8.4	8.2

Single Location
Name: WPL -
Edgewater I43

Location ID: MW-304
Number of Sampling Dates: 28

Parameter Name	Units	4/26/2016	6/21/2016	8/9/2016	10/19/2016	12/19/2016	1/5/2017	1/23/2017	2/23/2017	4/7/2017	6/6/2017	8/1/2017	10/23/2017	4/3/2018	10/4/2018	4/8/2019	10/8/2019	4/7/2020
Boron	ug/L	92.1	90.9	102	106	102	--	101	99.8	96.9	102	103	104	98.6	90.2	100	104	100
Calcium	ug/L	24500	25400	26700	23000	24800	--	24300	24500	24800	23500	23000	20100	20200	19400	19100	20600	18600
Chloride	mg/L	3.8	3.9	2.7	1.8	2.2	--	2.1	2.3	1.8	2	1.8	1.7	1.7	1.8	1.8	1.7	5.2
Fluoride	mg/L	0.49	0.55	0.51	0.45	0.59	--	0.5	0.5	0.48	0.6	0.53	0.54	0.5	0.5	0.51	0.48	0.75
Field pH	Std. Units	8.16	8	6.29	8.17	8.29	--	8.14	8.22	7.86	8.03	7.9	7.74	7.99	8.1	8.06	7.68	8.07
Sulfate	mg/L	13.8	14.2	13.2	13.5	14.6	--	14.3	14.6	14.5	14.9	14.2	14.2	15.2	13.5	14.5	13.5	15.4
Total Dissolved Solids	mg/L	222	234	244	232	198	212	214	206	224	218	222	208	222	224	226	172	228
Antimony	ug/L	0.11	0.52	0.36	<0.073	0.23	--	0.3	0.63	<0.073	<0.15	<0.15	--	--	--	--	--	--
Arsenic	ug/L	8.8	10	11.2	10.7	11.4	--	12.2	12.2	10.9	11.8	11.4	--	--	--	--	--	--
Barium	ug/L	77.6	74.7	81.5	73.4	71	--	81.1	73.5	73.7	79.1	75.1	--	--	--	--	--	--
Beryllium	ug/L	<0.13	<0.13	<0.13	<0.13	<0.13	--	<0.13	<0.13	<0.13	<0.18	<0.18	--	--	--	--	--	--
Cadmium	ug/L	<0.089	<0.089	<0.089	<0.089	0.17	--	<0.089	0.45	<0.089	<0.081	<0.081	--	--	--	--	--	--
Chromium	ug/L	0.75	0.94	0.78	<0.39	0.7	--	0.8	1	<0.39	<1	<1	--	--	--	--	--	--
Cobalt	ug/L	0.26	0.23	0.12	0.078	0.18	--	0.17	0.53	0.047	0.11	0.088	--	--	--	--	--	--
Lead	ug/L	0.36	0.52	0.24	0.12	0.44	--	0.54	0.78	0.08	<0.2	<0.2	--	--	--	--	--	--
Lithium	ug/L	9.1	9.1	9.4	9.1	10.1	--	9.5	8.9	9.2	9.1	9.2	--	--	--	--	--	--
Mercury	ug/L	<0.18	<0.13	<0.13	<0.13	<0.13	--	<0.13	<0.13	<0.13	<0.13	<0.13	--	--	--	--	--	--
Molybdenum	ug/L	4.6	4	3.9	3.8	3.7	--	3.8	4.1	3.6	4.7	3.7	--	--	--	--	--	--
Selenium	ug/L	<0.21	<0.21	<0.21	<0.21	<0.21	--	<0.21	0.32	<0.21	<0.32	<0.32	--	--	--	--	--	--
Thallium	ug/L	<0.14	<0.14	<0.14	<0.14	0.19	--	<0.14	0.59	<0.14	<0.14	<0.14	--	--	--	--	--	--
Radium-226	pCi/L	-0.215	0.511	0.161	-0.369	0.171	--	0.181	-0.164	0.326	0.604	2.05	--	--	--	--	--	--
Radium-228	pCi/L	0.687	0.288	0.137	0.625	-0.101	--	0.018	1.5	0.274	0.688	0.0736	--	--	--	--	--	--
Total Radium	pCi/L	0.687	0.799	0.298	0.625	0.171	--	0.199	1.5	0.6	1.29	1.1	--	--	--	--	--	--
Field Specific Conductance	umhos/cm	409	402	399	397	394	--	393	382	399	391	382	387	398	400	395	404	392
Oxygen, Dissolved	mg/L	0.8	0.5	0.1	0	0.3	--	0	1.1	2	0.5	0.4	0.8	0.3	0.2	0.7	0.81	1.9
Field Oxidation Potential	mV	-57	-129	-127	-84	-3	--	-98	14	-100	-104	-107	145	-103	-81	-23	104	190
Groundwater Elevation	feet	655.9	653.79	651.55	654	654.26	--	654.37	654.49	654.85	655.7	654.49	653.65	652.86	652.26	655.59	654.77	658.16
Temperature	deg C	8.9	11.02	12	11.1	7.6	--	8.6	8.8	12	11.2	14.3	10	8.9	9.5	10.4	11	12.4
Turbidity	NTU	22.36	17.46	7.38	6.77	8.88	--	10.78	5.06	2.56	3	2.88	1.7	9.62	3	6.25	43.61	227.3
pH at 25 Degrees C	Std. Units	7.8	8	7.8	7.8	7.9	--	8	7.9	8	7.8	8	7.9	8	7.9	7.9	8	7.8

Single Location
Name: WPL -
Edgewater I43

Location ID: MW-304
Number of Sampling Dates: 28

Parameter Name	Units	10/15/2020	4/13/2021	10/26/2021	4/11/2022	10/5/2022	4/24/2023	10/9/2023	4/15/2024	10/2/2024	4/21/2025
Boron	ug/L	94.5	91.7	89.8	89.3	91.8	87.1	92.1	90.3	89.4	85.3
Calcium	ug/L	15800	19700	21600	25500	19400	22000	20700	21000	21400	22800
Chloride	mg/L	2.1	2.1	2.3	2.3	2.4	2.2	2.5	2.7	2.7	2.7
Fluoride	mg/L	0.58	0.53	0.49	<0.095	0.47	0.52	0.55	0.49	0.49	0.45
Field pH	Std. Units	8.12	8.31	8.12	7.87	8.05	8.02	8.08	7.62	7.85	8.08
Sulfate	mg/L	15.5	15.3	15.6	16.2	16.2	15.6	16.4	16.8	17.4	16.7
Total Dissolved Solids	mg/L	228	224	218	220	218	226	220	234	226	218
Antimony	ug/L	--	--	--	--	--	--	--	--	--	--
Arsenic	ug/L	--	--	--	--	--	--	--	--	--	--
Barium	ug/L	--	--	--	--	--	--	--	--	--	--
Beryllium	ug/L	--	--	--	--	--	--	--	--	--	--
Cadmium	ug/L	--	--	--	--	--	--	--	--	--	--
Chromium	ug/L	--	--	--	--	--	--	--	--	--	--
Cobalt	ug/L	--	--	--	--	--	--	--	--	--	--
Lead	ug/L	--	--	--	--	--	--	--	--	--	--
Lithium	ug/L	--	--	--	--	--	--	--	--	--	--
Mercury	ug/L	--	--	--	--	--	--	--	--	--	--
Molybdenum	ug/L	--	--	--	--	--	--	--	--	--	--
Selenium	ug/L	--	--	--	--	--	--	--	--	--	--
Thallium	ug/L	--	--	--	--	--	--	--	--	--	--
Radium-226	pCi/L	--	--	--	--	--	--	--	--	--	--
Radium-228	pCi/L	--	--	--	--	--	--	--	--	--	--
Total Radium	pCi/L	--	--	--	--	--	--	--	--	--	--
Field Specific Conductance	umhos/cm	411	403	398	392	400	385	293	398	406	412
Oxygen, Dissolved	mg/L	0.2	0.5	0.6	0.41	0.81	1.02	4.63	1.29	1.22	0.92
Field Oxidation Potential	mV	-10	216	205	135.6	157.2	315	307.6	385.5	623.4	-53
Groundwater Elevation	feet	654.17	656.36	652.54	653.08	650.51	654.83	650.24	654.82	652.01	655.04
Temperature	deg C	9.7	9.1	9.6	11.4	11.4	8.8	9.5	12.7	10.7	9.3
Turbidity	NTU	9.1	<0.02	96.3	5.11	77.7	2.32	55.7	9.05	20.4	5.46
pH at 25 Degrees C	Std. Units	8	8	8	7.9	8	7.9	7.9	8.5	8.4	8.3

Single Location

Name: WPL -
Edgewater I43

Location ID: MW-305

Number of Sampling Dates: 21

Parameter Name	Units	2/23/2017	4/7/2017	6/6/2017	8/1/2017	10/23/2017	4/3/2018	10/4/2018	4/9/2019	10/8/2019
Boron	ug/L	94.4	86.4	78.8	76.5	70	71.7	65.9	68	73
Calcium	ug/L	93800	103000	102000	95900	90700	83000	82200	89000	90300
Chloride	mg/L	20.8	20.4	22.5	21.3	21.5	21.8	22.7	23	22.5
Fluoride	mg/L	0.73	0.59	0.72	0.69	0.64	0.63	0.58	0.65	0.63
Field pH	Std. Units	7.75	7.62	7.52	7.47	7.55	7.54	7.65	7.85	7.36
Sulfate	mg/L	127	131	140	130	134	129	130	136	137
Total Dissolved Solids	mg/L	576	576	598	570	540	566	572	568	548
Antimony	ug/L	0.21	0.088	0.59	0.53	0.23	<0.15	<0.15	0.78	<0.15
Arsenic	ug/L	3	2.5	2.5	2.3	2.4	2.2	2.3	2.9	2.4
Barium	ug/L	230	220	208	200	195	177	169	169	169
Beryllium	ug/L	0.21	0.15	<0.18	<0.18	<0.18	<0.18	<0.18	0.19	<0.25
Cadmium	ug/L	<0.089	<0.089	<0.081	<0.081	0.1	<0.081	<0.15	0.83	<0.15
Chromium	ug/L	10.8	6.8	4	2.7	1.8	<1	<1	1.2	<1
Cobalt	ug/L	2.6	1.5	0.8	0.56	0.5	<0.085	<0.12	0.83	<0.12
Lead	ug/L	2.4	1.6	0.98	0.87	0.44	<0.2	<0.24	0.81	<0.24
Lithium	ug/L	23.2	19.7	15.7	14.8	12.4	12	11.2	11.8	12.4
Mercury	ug/L	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.084	<0.084	<0.084
Molybdenum	ug/L	5	4.6	3.3	3.6	3.2	2.5	2.3	3.3	2.6
Selenium	ug/L	0.56	0.28	<0.32	<0.32	<0.32	<0.32	<0.32	0.92	<0.32
Thallium	ug/L	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	0.8	<0.14
Radium-226	pCi/L	0.35	0.0649	0.51	0.791	0.277	0.597	0.323	0.764	0.238
Radium-228	pCi/L	3.8	0.836	0.555	0.878	0.969	0.73	0.716	0.921	0.473
Total Radium	pCi/L	4.15	0.901	1.07	1.31	1.25	1.33	1.04	1.69	0.711
Field Specific Conductance	umhos/cm	856	922	884	901	886	915	941	942	935
Oxygen, Dissolved	mg/L	1.2	0.7	0.4	0.74	0.2	0.2	0.2	0.3	0.82
Field Oxidation Potential	mV	-224	-108	-167	-122	-125	-120	-101	-75	112
Groundwater Elevation	feet	658.02	659.65	659.7	658.54	657.22	656.24	655.89	659.03	658.77
Temperature	deg C	7.9	9.2	11.3	12.4	10.3	8.9	9.9	9.8	12.4
Turbidity	NTU	613.2	138	140.6	67.21	42.54	13.01	10.56	9.67	6.56
pH at 25 Degrees C	Std. Units	7.6	7.6	7.5	7.5	7.7	7.5	7.5	7.5	7.6

Single Location

Name: WPL -
Edgewater I43

Location ID: MW-305

Number of Sampling Dates: 21

Parameter Name	Units	4/7/2020	10/15/2020	4/13/2021	10/26/2021	4/11/2022	10/4/2022	4/25/2023	10/9/2023
Boron	ug/L	65.8	65.5	66.6	67.8	61.5	63.7	60.8	64.5
Calcium	ug/L	88800	76800	86800	87800	88500	83700	80500	85800
Chloride	mg/L	24.9	24.5	25.3	24.9	27.5	29.6	28.3	29.6
Fluoride	mg/L	0.75	0.72	0.67	0.72	<0.095	0.59	0.84	<0.95
Field pH	Std. Units	7.48	7.63	7.76	7.76	7.42	7.51	7.49	7.56
Sulfate	mg/L	135	139	127	125	141	140	132	137
Total Dissolved Solids	mg/L	580	500	540	556	578	602	570	604
Antimony	ug/L	--	--	--	--	--	--	--	--
Arsenic	ug/L	--	--	--	--	--	--	--	--
Barium	ug/L	--	--	--	--	--	--	--	--
Beryllium	ug/L	--	--	--	--	--	--	--	--
Cadmium	ug/L	--	--	--	--	--	--	--	--
Chromium	ug/L	--	--	--	--	--	--	--	--
Cobalt	ug/L	--	--	--	--	--	--	--	--
Lead	ug/L	--	--	--	--	--	--	--	--
Lithium	ug/L	--	--	--	--	--	--	--	--
Mercury	ug/L	--	--	--	--	--	--	--	--
Molybdenum	ug/L	--	--	--	--	--	--	--	--
Selenium	ug/L	--	--	--	--	--	--	--	--
Thallium	ug/L	--	--	--	--	--	--	--	--
Radium-226	pCi/L	--	--	--	--	--	--	--	--
Radium-228	pCi/L	--	--	--	--	--	--	--	--
Total Radium	pCi/L	--	--	--	--	--	--	--	--
Field Specific Conductance	umhos/cm	917	911	891	863	889	917	890	877
Oxygen, Dissolved	mg/L	0.53	0.3	0.8	1.6	0.45	0.67	1.71	0.46
Field Oxidation Potential	mV	28	-41	128	136	261.1	118.5	322.8	236.7
Groundwater Elevation	feet	661.58	658.08	659.69	655.86	657.58	654.4	658.22	654.22
Temperature	deg C	10.5	10	9.4	11	9.9	10.7	8.5	9.6
Turbidity	NTU	7.35	8.27	0.93	21.7	30.1	6.44	1.42	5.65
pH at 25 Degrees C	Std. Units	7.5	7.6	7.6	7.6	7.5	7.5	7.6	7.5

Single Location

**Name: WPL -
Edgewater I43**

Location ID: MW-305

Number of Sampling Dates: 21

Parameter Name	Units	4/15/2024	10/2/2024	4/21/2025
Boron	ug/L	63.4	61.3	57.4
Calcium	ug/L	87400	89600	81500
Chloride	mg/L	30.7	31.1	32.5
Fluoride	mg/L	0.66	0.78	0.73
Field pH	Std. Units	7.34	7.33	7.61
Sulfate	mg/L	134	116	123
Total Dissolved Solids	mg/L	578	504	590
Antimony	ug/L	--	--	--
Arsenic	ug/L	--	--	--
Barium	ug/L	--	--	--
Beryllium	ug/L	--	--	--
Cadmium	ug/L	--	--	--
Chromium	ug/L	--	--	--
Cobalt	ug/L	--	--	--
Lead	ug/L	--	--	--
Lithium	ug/L	--	--	--
Mercury	ug/L	--	--	--
Molybdenum	ug/L	--	--	--
Selenium	ug/L	--	--	--
Thallium	ug/L	--	--	--
Radium-226	pCi/L	--	--	--
Radium-228	pCi/L	--	--	--
Total Radium	pCi/L	--	--	--
Field Specific Conductance	umhos/cm	884	879	936
Oxygen, Dissolved	mg/L	1.64	2.74	0.99
Field Oxidation Potential	mV	395.1	575.1	-75
Groundwater Elevation	feet	658.53	656.6	658.61
Temperature	deg C	11.3	13.9	9.2
Turbidity	NTU	4.3	3.09	3.2
pH at 25 Degrees C	Std. Units	8.2	8.3	8.2

Single Location

Name: WPL -

Edgewater I43

Location ID:

MW-306

Number of Sampling Dates:

3

Parameter Name	Units	4/21/2025	7/21/2025
Boron	ug/L	534	193
Calcium	ug/L	709000	24600
Chloride	mg/L	14.6	13.4
Fluoride	mg/L	<1.9	0.69
Field pH	Std. Units	8.69	8.37
Sulfate	mg/L	124	118
Total Dissolved Solids	mg/L	820	426
Antimony	ug/L	3.5	1.3
Arsenic	ug/L	40.3	3.3
Barium	ug/L	1050	55.8
Beryllium	ug/L	9	<0.25
Cadmium	ug/L	2.1	<0.15
Chromium	ug/L	501	4.9
Cobalt	ug/L	81	1.1
Lead	ug/L	97.5	1.2
Lithium	ug/L	309	17.8
Mercury	ug/L	0.17	<0.099
Molybdenum	ug/L	114	95.5
Selenium	ug/L	<3.2	<0.32
Thallium	ug/L	1.8	<0.14
Radium-226	pCi/L	1.63	1.42
Radium-228	pCi/L	0.902	0.968
Total Radium	pCi/L	2.53	2.39
Field Specific Conductance	umhos/cm	622	626
Oxygen, Dissolved	mg/L	0.19	0.79
Field Oxidation Potential	mV	-155	14.9
Groundwater Elevation	feet	656.73	--
Temperature	deg C	10	13.3
Turbidity	NTU	--	117
pH at 25 Degrees C	Std. Units	8.5	8.5

Appendix E

April 2025 Alternative Source Demonstration

Alternative Source Demonstration April 2025 Detection Monitoring

Edgewater Generating Station
I-43 Ash Disposal Facility
Town of Wilson
Sheboygan County, Wisconsin

Prepared for:



SCS ENGINEERS

25225069.00 | December 22, 2025

2830 Dairy Drive
Madison, WI 53718-6751
608-224-2830

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PE CERTIFICATION

	I, Sherren Clark, hereby certify that the information in this alternate source demonstration is accurate and meets the requirements of 40 CFR 257.94(e)(2). This certification is based on my review of the groundwater data and related site information available for the Edgewater Generating Station I-43 Ash Disposal Facility. I am a duly licensed Professional Engineer under the laws of the State of Wisconsin.
	
	12/22/2025
	(signature) (date)
	Sherren Clark, PE (printed or typed name)
	License number E-29863
	My license renewal date is July 31, 2026.
	Pages or sheets covered by this seal:
	12/22/2025
	
	Alternative Source Demonstration – April 2025 Detection
	Monitoring, Edgewater I-43 Ash Disposal Facility, Town of
	Wilson, Sheboygan County, Wisconsin (Entire Document)

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1.0 INTRODUCTION

This Alternative Source Demonstration (ASD) was prepared to support compliance with the groundwater monitoring requirements of the “Coal Combustion Residuals (CCR) Final Rule” published by the U.S. Environmental Protection Agency (U.S. EPA) in the Hazardous and Solid Waste Management System; Disposal of Coal Combustion Residuals from Electric Utilities; Final Rule, dated April 17, 2015 (U.S. EPA, 2015), and subsequent amendments. Specifically, this report is prepared to fulfill the requirements of 40 CFR 257.94(e)(2). The applicable sections of the CCR Rule are provided below in italics.

1.1 §257.94(E)(2) ALTERNATIVE SOURCE DEMONSTRATION REQUIREMENTS

The owner and operator may demonstrate that a source other than the CCR Unit caused the statistically significant increase over background levels for a constituent or that the statistically significant increase resulted from error in sampling, analysis, statistical evaluation, or natural variation in groundwater quality. The owner or operator must complete the written demonstration within 90 days of detecting a statistically significant increase over background levels.

An ASD is completed when there are exceedances of one or more benchmarks established within the groundwater monitoring program to determine if any other sources are likely causes of the identified exceedance(s) of established benchmark(s) at the site. This ASD was performed in response to results indicating a statistically significant increase (SSI) over background levels during detection monitoring under the CCR Rule.

This ASD report evaluates an SSI observed in the statistical evaluation of the April 2025 detection monitoring event at the Edgewater I-43 Ash Disposal Facility (I-43 ADF). This ASD report has been developed for an SSI for field pH at monitoring well MW-306.

1.2 SITE INFORMATION AND MAP

The I-43 ADF is located in the Town of Wilson, Sheboygan County, Wisconsin (**Figure 1**). The I-43 ADF receives CCR from the Edgewater Generating Station. The layout of the site on an aerial photograph base is shown on **Figure 2**. The I-43 ADF is operated under Wisconsin Department of Natural Resources (DNR) License No. 06078 (formerly No. 02853).

The I-43 ADF includes a closed landfill (Phases 1 and 2) and multiple landfill modules in Phases 3 and 4 of the facility. Contact water basins and storm water runoff basins, which do not receive CCR, are also present at the site. The existing CCR Unit evaluated for this ASD is referred to as:

- EDG I-43 Phase 3, Modules 1 & 2, and Phase 4 Module 1 (existing CCR Landfill)

The Phase 3 Module 1, Phase 3 Module 2, and Phase 4 Module 1 units were previously described as separate existing CCR landfills although they are collectively managed and permitted in one footprint as a single existing CCR landfill by the facility and by the DNR.

The closed landfill (Phase 1 and Phase 2, DNR License No. 02853) was completely closed in 2012. The closed landfill did not accept CCR after October 19, 2015; therefore, it is not subject to the requirements of 40 CFR 257.50-107. The closed landfill was constructed with a 5-foot compacted clay liner.

The active landfill, which is the CCR Unit, is constructed either with a 5-foot compacted clay liner overlain with a 1.5-foot-thick drainage layer or a 2-foot compacted clay liner and 60-mil high density polyethylene (HDPE) geomembrane, overlain by a 1-foot leachate collection drainage layer. The active landfill first accepted CCR for disposal in October 2011.

A map showing the CCR Unit and all background (or upgradient) and downgradient monitoring wells with identification numbers for the CCR groundwater monitoring program and the state monitoring program is provided as **Figure 2**.

1.3 STATISTICALLY SIGNIFICANT INCREASES IDENTIFIED

The only SSI for the April 2025 monitoring event and the June 2025 and July 2025 resampling events was for field pH at monitoring well MW-306. Sample results for MW-306 exceeded the upper prediction limit (UPL) for field pH in both the April and July events. Fluoride exceeded the UPL at MW-302 during the April 2025 sampling event, but the June 2025 retest result was below the UPL; therefore, there was no SSI for fluoride at MW-302. Calcium and total dissolved solids (TDS) exceeded the UPLs at MW-306 during the April 2025 sampling event, but the July 2025 retest results were below the UPL; therefore, there was no SSI for calcium or TDS at MW-306. A summary of the April, June, and July 2025 constituent concentrations and the established benchmark concentrations is provided in **Table 1**. The constituent concentrations with results above the background concentrations are highlighted in the table.

1.4 OVERVIEW OF ALTERNATIVE SOURCE DEMONSTRATION

This ASD report includes:

- Background information (**Section 2.0**)
- Evaluation of the potential that SSIs are due to methodology or analysis (**Section 3.0**)
- Evaluation of the potential that SSIs are due to natural sources or man-made sources other than the CCR Units (**Section 4.0**)
- ASD conclusions (**Section 5.0**)
- Monitoring recommendations (**Section 6.0**)

The CCR Rule constituent results from background and compliance sampling in April, June, and July 2025 are provided in **Table 1**. The October 2025 result for field pH at MW-306 is also included in **Table 1**. Review of the laboratory data for the October 2025 event is still in progress. Historical time series plots for field pH and other Appendix III and Appendix IV parameters are shown in **Appendix A**. Complete laboratory reports for the April 2025 detection monitoring event and June and July 2025 resampling monitoring events will be included in the 2025 Annual Groundwater Monitoring and Corrective Action Report for the I-43 ADF.

2.0 BACKGROUND

To provide context for the ASD evaluation, the following background information is provided in this section of the report, prior to the ASD evaluation sections:

- Geologic and hydrogeologic setting
- CCR Rule monitoring system
- Other monitoring wells

2.1 REGIONAL GEOLOGY AND HYDROGEOLOGY

2.1.1 Regional Information

For the purposes of groundwater monitoring, the Niagara Dolomite Aquifer is considered to be the uppermost aquifer unit, as defined under 40 CFR 257.53, at the I-43 ADF. The dolomite aquifer is underlain by the Maquoketa shale, which is a confining unit. The Maquoketa shale is underlain by the Cambrian-Ordovician sandstone aquifer. This sequence of sedimentary bedrock units is over 1,500 feet thick in the area of the I-43 ADF. The sedimentary sequence is underlain by Precambrian crystalline rocks that are not considered an aquifer in eastern Wisconsin.

An unconsolidated sand and gravel aquifer is present in some parts of Sheboygan County (Skinner and Borman, 1973) but does not appear laterally extensive.

Regional groundwater flow in the dolomite aquifer in the vicinity of the site is to the east or northeast.

2.1.2 Site Information

Soils at the site are primarily clay with discontinuous layers of sand and silty sand to a depth of at least 100 feet. During drilling of the CCR wells, the unconsolidated materials were identified as consisting primarily of clay. Zones of sand and gravel are known to be present within the clay, but these appear to be discontinuous, and no nearby private wells screened within the unconsolidated material have been identified. Soils encountered in borings MW-301, MW-302, MW-303, MW-304, and MW-306 were primarily lean clay, silty clay, and silty sand. The upper 70 feet of soils in boring MW-305 were similar, but in approximately the lower 40 feet above bedrock, sand was the primary soil type. The depth to bedrock in the six wells ranged from approximately 109 feet to 133 feet below ground surface (bgs), and the elevation of the top of bedrock ranged from approximately 565 feet above mean sea level (amsl) to 605 feet amsl.

Shallow groundwater at the site generally flows east to west towards Weedens Creek, a tributary of the Sheboygan River.

Groundwater elevations at the CCR wells are summarized in **Table 2**. The April 2025 potentiometric surface map for the dolomite aquifer (**Figure 3**), based on groundwater elevations from monitoring wells MW-301 through MW-306, shows groundwater flow to the north, consistent with previous potentiometric surface maps. The southern portion of the map shows a northwest component of flow, driven by a higher water level at MW-305. This bedrock was shallower at this location so this well is screened at least 20 feet higher than the other wells, which may influence the water level in the well.

2.2 CCR MONITORING SYSTEM

The groundwater monitoring system established in accordance with the CCR Rule consists of two upgradient (background) monitoring wells and four downgradient monitoring wells. The background wells include MW-304 and MW-305. The downgradient wells include MW-301, MW-302, MW-303, and MW-306. The CCR Rule wells are installed in the upper portion of the dolomite aquifer. Well depths range from approximately 119 to 145 feet, measured from the top of the well casing. MW-306 was recently added to the monitoring system and the April 2025 monitoring event was the first sampling event at this well. MW-306 was installed in June 2024.

2.3 OTHER MONITORING WELLS

Thirty-two groundwater monitoring wells currently exist at the I-43 ADF as part of the monitoring system developed for the state monitoring program. The well locations are shown on **Figure 2**. These monitoring wells and one on-site water supply well (WS-1) are used to monitor groundwater conditions at the active Phase 3/4 Landfill under DNR License No. 06078 and the closed phase 1/2 Landfill under DNR License No. 02853.

Monitoring wells for the state monitoring program are installed in the unconsolidated glacial till unit, which is not the uppermost aquifer as defined under 40 CFR 257.53. This shallow monitoring system includes water table wells, mid-depth piezometers, and deep piezometers. Well depths range from approximately 15 to 49 feet, measured from the top of the well casing.

3.0 METHODOLOGY AND ANALYSIS REVIEW

To evaluate the potential that an SSI is due to a source other than the regulated CCR Unit, SCS used a two-step evaluation process. First, the sample collection, field and laboratory analysis, and statistical evaluation were reviewed to identify potential errors or analysis that led to an exceedance of the benchmark. Second, potential alternative sources, including natural variation and man-made sources other than the CCR Unit, were evaluated. This section of the report provides the findings of the methodology and analysis review. **Section 4.0** of the report addresses the potential alternative sources.

3.1 SAMPLING AND FIELD ANALYSIS REVIEW

Field notes and sampling results were reviewed to determine if sampling error may have caused or contributed to the observed SSI for field pH. Potential field sampling errors or issues could include mislabeling of samples, improper sample handling, cross contamination during sampling, or other field errors. Field blank sample results were also reviewed for indication of potential contamination from sampling equipment or containers. Based on the review of the field notes and results, SCS did not identify any indication that the field pH SSI was due to a sampling error.

Although no sampling procedure errors were identified, the fact that the April 2025 sampling event was the first sampling event at MW-306 likely contributed to the SSI for field pH. As discussed further in **Section 4.1**, the SSI appears to be due to the fact that the well was still equilibrating with the aquifer following installation.

3.2 LABORATORY ANALYSIS REVIEW

Because field pH is a field parameter, laboratory analysis is not a potential factor contributing to the SSI.

3.3 STATISTICAL EVALUATION REVIEW

The review of the statistical results and methods includes a quality control check of the following:

- Input analytical data vs. laboratory analytical reports
- Review statistical method and outlier concentration lists for each monitoring well/CCR Unit

SCS did not identify any errors or issues in the statistical evaluation that caused or contributed to the determination of an interwell SSI for field pH at well MW-306.

3.4 SUMMARY OF METHODOLOGY AND ANALYSIS REVIEW FINDINGS

In summary, there were no changes to the SSI determination for the April 2025 monitoring event based on the methodology and analysis review. No errors causing or contributing to the reported field pH SSI were identified; however, the fact that the April 2025 event was the first sampling event at this well was identified as a potential factor contributing to the SSI.

4.0 ALTERNATIVE SOURCES

This section of the report discusses the potential alternative sources for the SSI at MW-306, identifies the most likely alternative source(s), and presents the lines of evidence indicating that an alternative source is the most likely cause of the observed SSI for field pH.

4.1 POTENTIAL CAUSES OF SSI

4.1.1 Well Installation Effects

Although MW-306 was properly developed, initial sample results at a new monitoring well can be influenced by suspended solids or by short-term groundwater chemistry changes due to air introduced to the aquifer during drilling or water used in drilling. These effects typically subside as suspended solids in the well settle or are pumped out and as the well and immediately surrounding aquifer materials return to equilibrium conditions. Concentrations of multiple Appendix III and IV parameters at MW-306 showed significant decreases in concentration between the April 2025 and July 2025 monitoring events, signaling that the well had not yet fully equilibrated from drilling activities at the time of sampling.

Well installation effects appear to be the primary cause of the SSI for field pH.

4.1.2 Natural Variation

The statistical analysis for field pH was completed using an interwell approach, comparing the April 2025 detection monitoring results to the UPLs calculated based on sampling of the background wells (MW-304 and MW-305). If concentrations of a constituent that is naturally present in the aquifer vary spatially, then the potential exists that the downgradient concentrations may be higher than upgradient concentrations due to natural variation.

Although natural spatial variation could contribute to the SSI for field pH at MW-306, this is difficult to evaluate because the field pH had not stabilized at the time of the April and July events.

4.1.3 Man-Made Alternative Sources

Man-made alternative sources that could potentially contribute to the field pH SSI at MW-306 include the closed I-43 Phase 1/2 Landfill, the contact water basin, or the ash unloading area. The closed Phase 1/2 Landfill was constructed with a 5-foot-thick compacted clay liner that is designed to inhibit the movement of leachate beyond the footprint of the closed landfill. The contact water basin consists of a 4-foot-thick compacted clay liner and a 60-mil HDPE textured geomembrane, overlain by a geotextile cushion and 1-foot of coarse aggregate. Based on the construction of these potential sources and the fact that field pH was the only parameter exceeding a UPL, the SSI is not attributed to man-made sources.

4.2 LINES OF EVIDENCE

The lines of evidence indicating that the SSI for field pH in compliance well MW-306, relative to the background wells, is due to the well was still equilibrating following installation include:

1. The field pH followed a steep decreasing trend from April to July to October 2025, and the October 2025 result was below the UPL.
2. Concentrations of multiple Appendix III and IV parameters at MW-306 showed significant decreases in concentration between the April 2025 and July 2025 monitoring events, signaling that the well had not yet fully equilibrated from drilling activities at the time of sampling. Baseline sampling at other CCR wells at the I-43 ADF showed similar trends in the initial sampling rounds.
3. The hydraulic conductivity of the thick glacial till aquitard overlying the dolomite aquifer is very low, and there is limited hydrogeologic connection between the shallow groundwater and the aquifer.
4. The active Phase 3/4 landfill was constructed with a clay and/or composite liner system, so the potential for a release is very low.

Each of these lines of evidence and the supporting data are discussed in more detail in the following sections.

4.2.1 Decreasing pH Trend at MW-306

As shown in **Table 1**, field pH decreased from 8.69 in April to 8.37 in July and 8.00 in October 2025, in comparison to a UPL of 8.32. This trend appears to reflect equilibration of the new monitoring well with the aquifer.

4.2.2 Other Parameter Trends

At other compliance and background wells, many parameter concentrations were initially high shortly after well installation and decreased substantially in subsequent sampling events. A similar trend is seen in the results from MW-306 from April 2025 to July 2025, signifying that this well was still not fully equilibrated at the time of sampling. **Appendix A** includes time series plots of the background and compliance CCR well results from April 2016 through July 2025. The plots include background and detection monitoring for Appendix III parameters and background monitoring for Appendix IV parameters.

4.2.3 Glacial Clay Till Hydraulic Conductivity

The glacial clay till at the I-43 ADF is an aquitard with very low vertical hydraulic conductivity. A site review completed by Weston for the U.S. EPA in 2010 found that samples of the native upper clay till collected by Warzyn Engineering, Inc. (Warzyn) in 1981 contained 65 to 85 percent clay size particles, indicating low hydraulic conductivity.

Vertical hydraulic conductivity tests of the clay till, completed as part of the 1981 Warzyn study, found the upper clay till ranged from 5×10^{-8} to 9×10^{-8} cm/s. The 1981 Warzyn study estimated the time required for groundwater to traverse vertically through the till to be “on the order of hundreds if not thousands of years” (Warzyn, 1981). Observed high vertical gradients provide further documentation of very low vertical hydraulic conductivity at the site (Weston, 2010). These results suggest there is limited hydrogeologic connection between the upper shallow till aquitard and the uppermost bedrock aquifer.

4.2.4 Liner Construction

The active landfill, which comprises the three CCR Units, is constructed with a low permeability liner system (compacted clay hydraulic conductivity is less than 10^{-7} cm/s) that minimizes potential leakage. Each unit was constructed as follows:

- Phase 4 Module 1 - 5-foot compacted clay liner.
- Phase 3 Module 1 - 5-foot compacted clay liner.
- Phase 3 Module 2 - Composite liner system including 2 feet of compacted clay and a 60-mil HDPE geomembrane.

All constructed modules have a leachate collection drainage layer overlying the liner. The collected leachate flows by gravity and/or is pumped to the contact water basin. The leachate/contact water swales and contact water basin have composite liners, consisting of compacted clay overlain by a 60-mil HDPE geomembrane.

5.0 ALTERNATIVE SOURCE DEMONSTRATION CONCLUSIONS

The lines of evidence discussed above regarding the SSI reported for field pH concentrations in downgradient monitoring well MW-306 demonstrate that the SSI is likely due to the well not yet reaching equilibrium with the aquifer at the time of sampling.

6.0 SITE GROUNDWATER MONITORING RECOMMENDATIONS

In accordance with section 257.94(e)(2) of the CCR Rule, the I-43 site may continue with detection monitoring based on this ASD. The ASD report will be included in the 2025 Annual Report due January 31, 2026.

7.0 REFERENCES

Skinner, Earl L. and Borman, Ronald G., 1973, Water Resources of Wisconsin-Lake Michigan Basin, Department of the Interior United States Geological Survey Hydrogeologic Investigations Atlas HA-432, 1973.

U.S. Environmental Protection Agency, 2015, Hazardous and Solid Waste Management System; Disposal of Coal Combustion Residuals from Electric Utilities; Final Rule, April 2015.

Warzyn Engineering, Inc., 1981, Summary Report, Proposed Fly Ash Disposal Facility, Beeck-Goebel Properties, Edgewater Power Plant – Unit 5, Wisconsin Power and Light Company, 1981.

Weston Solutions, Inc., 2010, Technical Memorandum: Alliant Energy Site – Site Historical Information Review and Evaluation, Sheboygan County, WI, December 2010.

Tables

- 1 Groundwater Analytical Results Summary
- 2 Groundwater Elevation Summary – CCR Wells

Table 1. Groundwater Analytical Results Summary
Edgewater I-43 Ash Disposal Facility, Sheboygan, WI / SCS Engineers Project #25225069.00

			Background Wells		Compliance Wells										
Parameter Name	Interwell UPL		MW-304	MW-305	MW-301		MW-302		MW-303		MW-306				
			4/21/2025	4/21/2025	Intrawell UPL	4/23/2025	Intrawell UPL	4/21/2025	6/10/2025	Intrawell UPL	4/21/2025	Intrawell UPL	4/21/2025	7/21/2025	10/7/2025 ⁽⁵⁾
Groundwater Elevation, ft amsl			655.04	658.61		653.23		653.24	653.36		653.49		656.73	655.05	649.81
Appendix III															
Boron, µg/L			85.3	57.4	182	117	148	120	--	99.9	78.6	NA ⁽⁴⁾	534	193	NA
Calcium, µg/L	103,000		22,800	81,500		23,300		25,500	--		26,400		709,000	24,600	NA
Chloride, mg/L	24.9		2.7	32.5		3.0		5.3	--		3.7		14.6	J,D3	13.4
Fluoride, mg/L	0.76		0.45	0.73		0.69		0.79	0.71		0.66		<1.9	D3	0.69
Field pH, Std. Units	8.32		8.08	7.61		8.08		8.09	7.81		8.04		8.69	8.37	8.00
Sulfate, mg/L	140		16.7	123		10.5		32.4	--		23.0		124	118	NA
Total Dissolved Solids, mg/L	604		218	590		190		280	--		254		820	426	NA
Appendix IV															
	UPL	GPS													
Antimony, µg/L	NA	6	--	--		--		--	--		--		3.5	J,D3	1.3
Arsenic, µg/L	NA	10	--	--		--		--	--		--		40.3		3.3
Barium, µg/L	NA	2000	--	--		--		--	--		--		1050		55.8
Beryllium, µg/L	NA	4	--	--		--		--	--		--		9.0		<0.25
Cadmium, µg/L	NA	5	--	--		--		--	--		--		2.1	J,D3	<0.15
Chromium, µg/L	NA	100	--	--		--		--	--		--		501		4.9
Cobalt, µg/L	NA	6	--	--		--		--	--		--		81		1.1
Fluoride, mg/L	NA	4	--	--		--		--	--		--		<1.9	D3	0.69
Lead, µg/L	NA	15	--	--		--		--	--		--		97.5		1.2
Lithium, µg/L	NA	40	--	--		--		--	--		--		309		17.8
Mercury, µg/L	NA	2	--	--		--		--	--		--		0.17	J	<0.099
Molybdenum, µg/L	NA	100	--	--		--		--	--		--		114		95.5
Selenium, µg/L	NA	50	--	--		--		--	--		--		<3.2	D3	<0.32
Thallium, µg/L	NA	2	--	--		--		--	--		--		1.8	J,D3	<0.14
Radium 226/228 Combined, pCi/L	NA	5	--	--		--		--	--		--		2.53		2.39

4.4 Blue shaded cell indicates the compliance well result exceeds the UPL (background) and the Limit of Quantitation (LOQ).

30.8 Yellow highlighted cell indicates the compliance well result exceeds the GPS value. This site is not in Assessment Monitoring and a GPS exceedance does not signify the parameter is present at a Statistically Significant Level (SSL) above the GPS. Site-specific GPS values have not been calculated at this site to date.

Abbreviations:

UPL = Upper Prediction Limit
 SSI = Statistically Significant Increase
 -- = Not Analyzed
 NA = Not Applicable

µg/L = micrograms per liter
 mg/L = milligrams per liter
 pCi/L = picocuries per liter
 ft amsl = feet above mean sea level

LOQ = Limit of Quantitation
 LOD = Limit of Detection
 Std. Units = Standard Units

Notes:

- J = Estimated concentration at or above the LOD and below the LOQ.
 M0 = Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
 D3 = Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

Notes:

1. An individual result above the UPL does not constitute an SSI above background. See the accompanying letter text for identification of statistically significant results.
2. Interwell UPLs calculated based on results from background wells MW-304 and MW-305. Interwell UPLs based on 1-of-2 retesting approach. Interwell UPLs were calculated with background results from the May 2016 through the October 2020 sampling event. Interwell UPLs for calcium, fluoride, field pH, and TDS were updated in 2024 to include background results through November 2023.
3. Following the completion of the April 2018 Alternative Source Demonstration (ASD) Report, dated October 31, 2018, the statistical method for evaluating boron data at the three compliance monitoring wells was modified to an intrawell approach. Intrawell UPLs were calculated using results from the May 2016 through the April 2020 sampling events. Intrawell UPLs were updated in 2024 to include background results through November 2023.
4. Intrawell UPL for boron at MW-306 will be calculated once four sampling rounds are completed.
5. Review of the laboratory data for the October 2025 event is still in progress.

Created by: RM
 Last revision by: RM
 Checked by: NLB

Date: 10/27/2022
 Date: 12/8/2025
 Date: 12/8/2025

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Table 2. Water Level Summary
WPL - I43 / SCS Engineers Project #25225069.00

Well Number	Ground Water Elevation in feet above mean sea level (amsl)					
	MW-301	MW-302	MW-303	MW-304	MW-305	MW-306
Top of Casing Elevation (feet amsl) - resurveyed 12/12/2023	697.19	702.81	719.47	692.12	717.97	693.61
Top of Casing Elevation (feet amsl)	696.96	702.57	719.25	691.97	717.67	--
Screen Length (ft)	5.0	5.0	5.0	5.0	5.0	5.0
Total Depth (ft from top of casing)	134.56	144.33	144.65	119.49	122.97	138.31
Top of Well Screen Elevation (ft)	567.40	563.24	579.60	577.48	600.46	560.30
Measurement Date						
April 26, 2016	653.54	653.56	653.59	655.90	--	NI
June 20, 2016	652.01	651.89	651.80	653.79	--	NI
August 9, 2016	649.68	649.30	649.37	651.55	--	NI
October 19, 2016	652.32	652.38	652.18	654.00	--	NI
December 19, 2016	652.85	652.79	652.82	654.26	--	NI
January 5, 2017	652.86	652.82	652.80	654.15	--	NI
January 23, 2017	652.98	664.97*	652.92	654.37	--	NI
February 23, 2017	653.14	653.10	653.10	654.49	658.02	NI
April 7, 2017	654.43	654.72	654.55	654.85	659.65	NI
June 6, 2017	654.11	654.12	654.14	655.70	659.70	NI
August 1, 2017	652.64	652.55	652.50	654.49	658.54	NI
October 23, 2017	652.03	652.05	652.03	653.65	657.22	NI
April 3, 2018	651.28	651.25	651.30	652.86	656.24	NI
October 4, 2018	650.71	650.70	650.70	652.26	655.89	NI
April 8-9, 2019	653.06	654.06	654.06	655.59	659.03	NI
October 8, 2019	653.26	653.21	653.27	654.77	658.77	NI
November 26, 2019	--	--	655.56	--	--	NI
April 7, 2020	656.59	656.47	656.46	658.16	661.58	NI
May 20, 2020	--	655.81	--	--	--	NI
October 13, 2020	652.16	652.17	652.20	654.17	658.08	NI
December 18, 2020	653.91	653.88	--	--	--	NI
April 13, 2021	654.56	654.57	654.53	656.36	659.69	NI
June 16, 2021	649.78	649.75	--	--	--	NI
October 26, 2021	650.76	650.88	650.90	652.54	655.86	NI
April 11-13, 2022	651.65	651.62	651.58	653.08	657.58	NI
June 16, 2022	--	650.55	--	--	--	NI
October 4, 2022	648.87	648.85	648.89	650.51	654.40	NI
February 14, 2023	651.61	651.60	651.61	653.17	656.25	NI
March 22, 2023	652.44	652.43	652.42	654.04	657.48	NI
April 24-25, 2023	653.26	653.25	653.31	654.83	658.22	NI
May 25, 2023	651.28	651.24	651.30	653.17	657.54	NI
June 26, 2023	648.06	648.05	648.07	649.86	655.07	NI
July 26, 2023	647.08	647.02	647.17	649.15	652.09	NI
October 11, 2023	648.65	648.67	648.65	650.24	654.22	NI
November 14, 2023	649.98	649.97	649.95	651.37	654.89	NI
November 14, 2023 elevations based on re-surveyed TOC	650.21	650.21	650.17	651.52	655.19	NI
April 15, 2024	652.95	652.93	652.96	654.82	658.53	NI
July 19, 2024	653.41	653.41	653.39	655.04	659.29	--
August 8, 2024	650.96	650.98	650.96	653.07	657.85	651.58
October 2, 2024	650.21	650.48	650.15	652.01	656.60	650.47
January 16, 2025	652.30	652.34	652.32	653.92	657.50	652.27
April 21, 2025	653.23	653.24	653.49	655.04	658.61	656.73
April 23, 2025	652.89	--	--	--	--	--
June 10, 2025	--	653.36	--	--	--	--
July 21, 2025	--	--	--	--	--	655.05
October 6-7, 2025	649.10	649.08	649.06	650.94	655.50	649.81
Bottom of Well Elevation (ft)	562.40	558.24	574.60	572.48	594.70	555.30

Notes: -- = not measured

*: The calculated groundwater elevation at MW-302 on January 23, 2017 appears to reflect an error in recording the pre-purge depth to water during sampling.

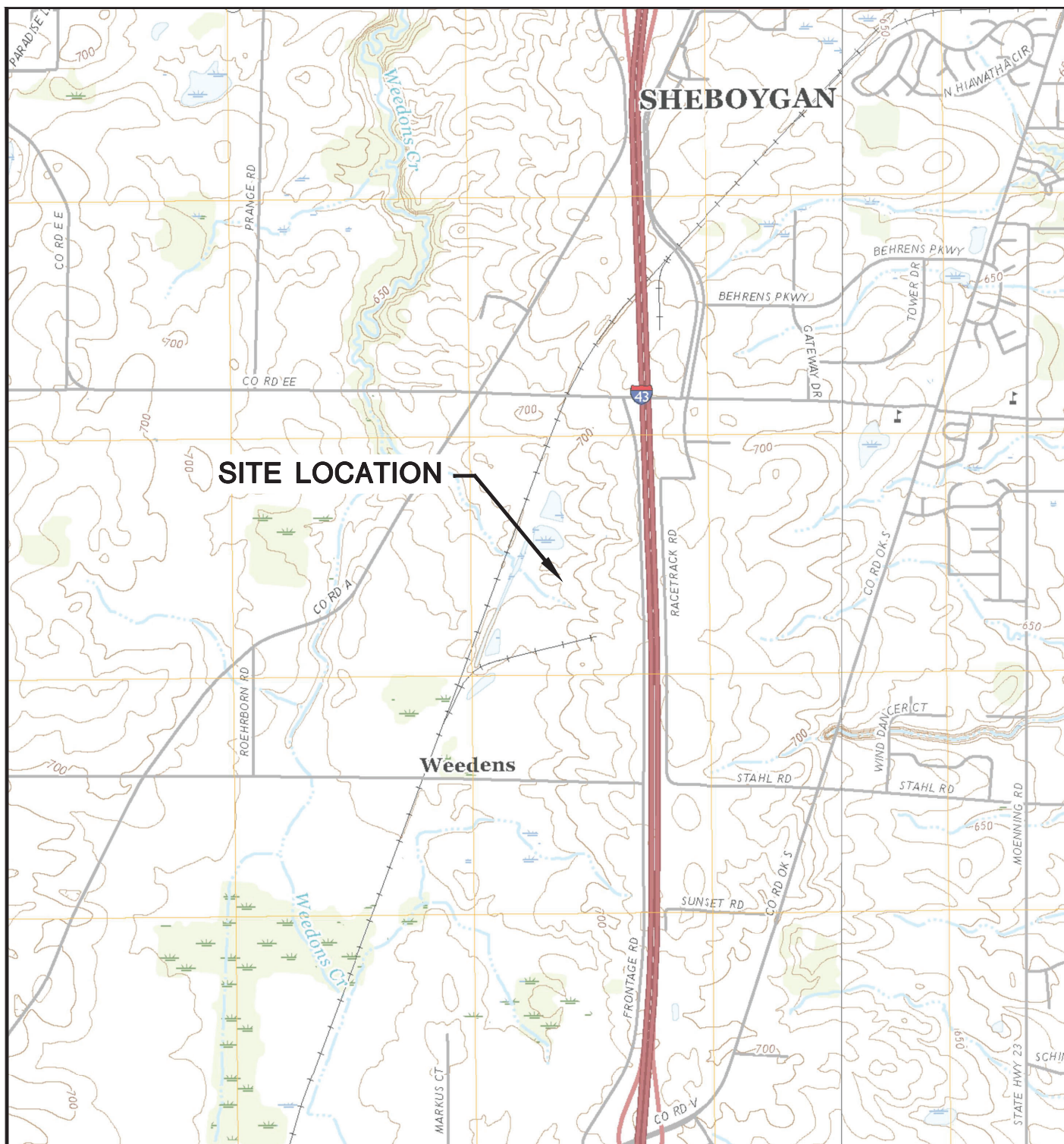
Created by: RM
Last rev. by: RM
Checked by: NLB

Date: 1/10/2020
Date: 11/13/2025
Date: 11/13/2025

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Figures

- 1 Site Location Map
- 2 Site Plan and Monitoring Well Locations
- 3 Bedrock Potentiometric Surface Map – April 2025



SHEBOYGAN FALLS QUADRANGLE
WISCONSIN-SHEBOYGAN CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)
2018
SCALE: 1" = 2,000'



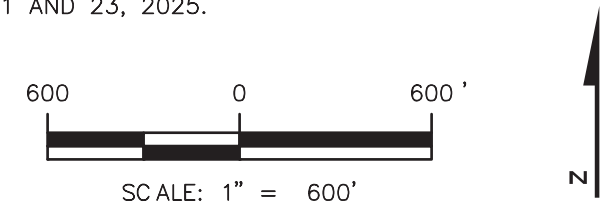
CLIENT WISCONSIN POWER AND LIGHT CO. 3739 LAKESHORE DRIVE SHEBOYGAN, WI 53081	SITE ALLIANT ENERGY I-43 ASH DISPOSAL FACILITY TOWN OF WILSON, WI	SITE LOCATION MAP	
PROJECT NO. 25219069.00	DRAWN BY: BSS	SCS ENGINEERS 2830 DAIRY DRIVE MADISON, WI 53718-6751 PHONE: (608) 224-2830	FIGURE 1
DRAWN: 11/20/2019	CHECKED BY: MDB		
REVISED: 01/13/2020	APPROVED BY: TK 01/30/2020		



- LEGEND**
- | | |
|---|---|
|  | CCR RULE BACKGROUND MONITORING WELL |
|  | CCR RULE PIEZOMETER (BEDROCK) |
|  | LEACHATE HEADWELL |
|  | MONITORING WELL (UNCONSOLIDATED) |
|  | PIEZOMETER (UNCONSOLIDATED) |
|  | PRIVATE WATER SUPPLY WELL |
| ----- | LIMITS OF FINAL COVER |
| ————— | POTENTIOMETRIC GROUNDWATER SURFACE CONTOUR LINE (CONTOUR INTERVAL 1.0 FT) |
| —————▶ | APPROXIMATE GROUNDWATER FLOW DIRECTION |
| ————— | CCR RULE UNIT |
| ————— | MAJOR TOPOGRAPHIC CONTOUR (10FT INTERVAL) |
| ————— | MINOR TOPOGRAPHIC CONTOUR (2FT INTERVAL) |
| 650.47 | POTENTIOMETRIC GROUNDWATER SURFACE ELEVATION (FT AMSL) |

NOTES

1. IMAGERY SOURCE: SHEBOYGAN COUNTY. DATE: 04/10/2022.
2. COORDINATE SYSTEM: NAD 1983 (2011) STATEPLANE WISCONSIN SOUTH FIPS 4803 (US FEET).
3. MONITORING WELL AND OTHER SAMPLE LOCATIONS ARE APPROXIMATE.
4. WELL INSTALLATION AND SURVEY INFORMATION, SEE SITE PLAN FIGURE 2 NOTES.
5. TOPOGRAPHIC CONTOURS BASED ON AERIAL TOPOGRAPHIC SURVEY FLOWN DECEMBER 1, 2014 USING WISCONSIN STATE PLANE COORDINATES. ELEVATIONS BASED ON USGS NATIONAL GEODETIC VERTICAL DATUM, 1929. UPDATED WITH 2015 CONSTRUCTION AS-BUILT GRADES, 2016 CONSTRUCTION AS-BUILT GRADES FOR PHASE 4, MODULE 1 BY SCS ENGINEERS, DECEMBER 23, 2020 DRONE SURVEY OF PHASE 3, MODULE 2 ASH GRADES AND FUTURE PHASE 4 AREAS BY RYAN INCORPORATED CENTRAL, FEBRUARY AND APRIL 2024 PHASE 3 MODULE 2 SURVEYS BY SCS ENGINEERS, AND SEPTEMBER 19, 2024 DRONE SURVEY BY SCS ENGINEERS.
6. STATE MONITORING WELLS: WS-1, W-2, W-6, W-6A, W-10, W-10A, W-11A, W-12AR, W-17, W-17AR, W-18, W-18AR, W-19, W-19A, W-21, W-22, W-33A, W-34R, W-37, W-38, W-39, W-40, W-40A.
7. CCR BACKGROUND WELLS: MW-304 AND MW-305.
8. CCR WELLS: MW-301, MW-302 AND MW-303.
9. LEACHATE POINTS: LCB-1, LHW-1, LVHW-1, LVHW-2, LHW-3, LVHW-3LHW-4-1.
10. OTHER POINTS: PRIVATE WATER SUPPLY WELL WS-1, MW-306.
11. WATER LEVELS MEASURED ON ON APRIL 21 AND 23, 2025.



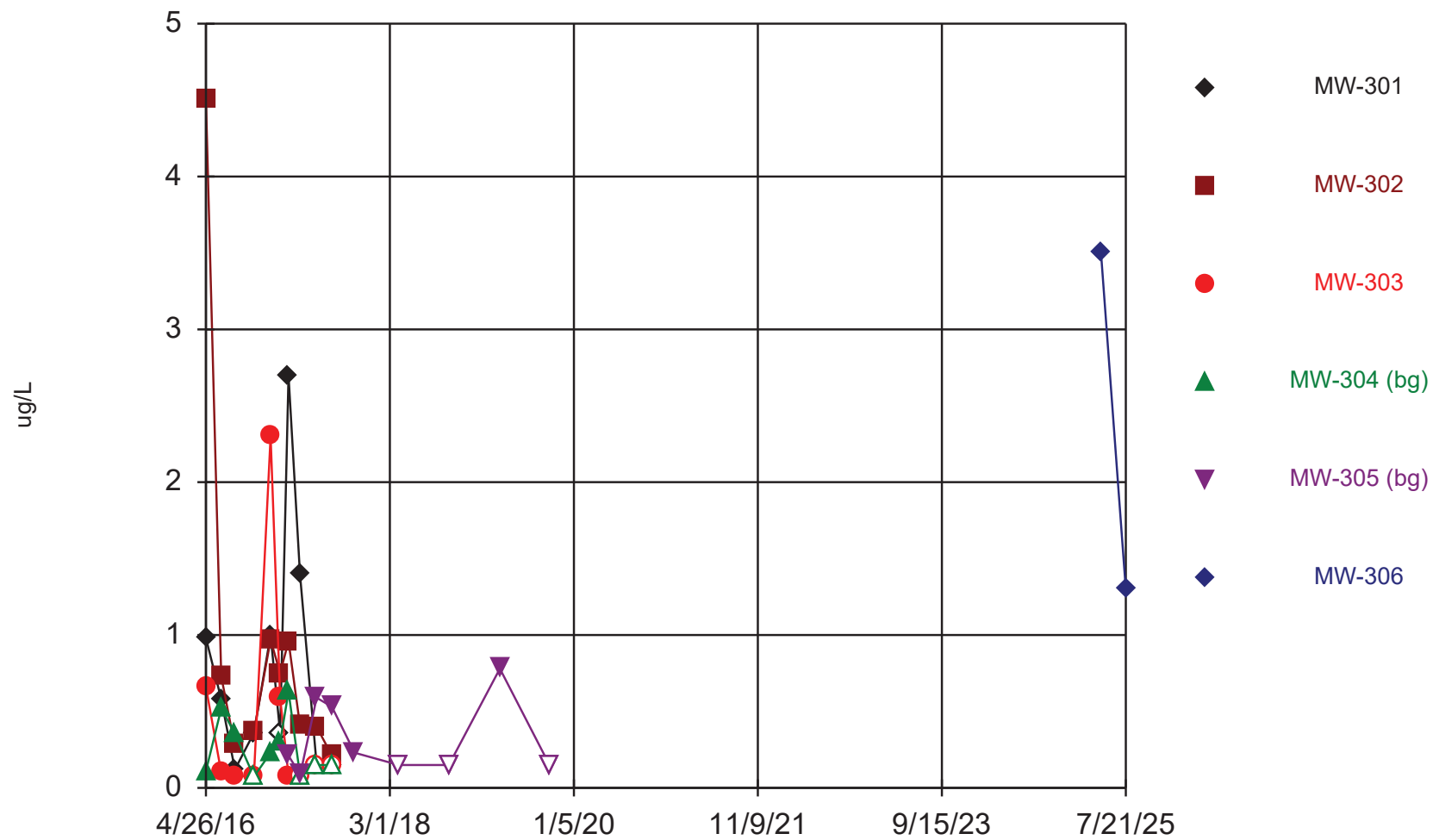
DOCUMENT NO.	PROJECT NO.	25225069.00	DRAWN BY:	AA	ENGINEER	 2830 DAIRY DRIVE MADISON, WI 53718-6751 PHONE: (608) 224-2830	CLIENT	INTERSTATE POWER AND LIGHT CO. 3739 LAKESHORE DRIVE SHEBOYGAN, WI 53081	SITE	ALLIANT ENERGY I-43 ASH DISPOSAL FACILITY TOWN OF WILSON, WISCONSIN	BEDROCK DEEP POTENTIOMETRIC GROUNDWATER SURFACE ELEVATION CONTOUR MAP APRIL 2025	FIGURE
	DRAWN:	05/07/2025	CHECKED BY:	NLB 12/04/2025								
	REVISED:	12/10/2025	APPROVED BY:	TK 12/11/2024								3



Appendix A

Time Series Plots

Time Series

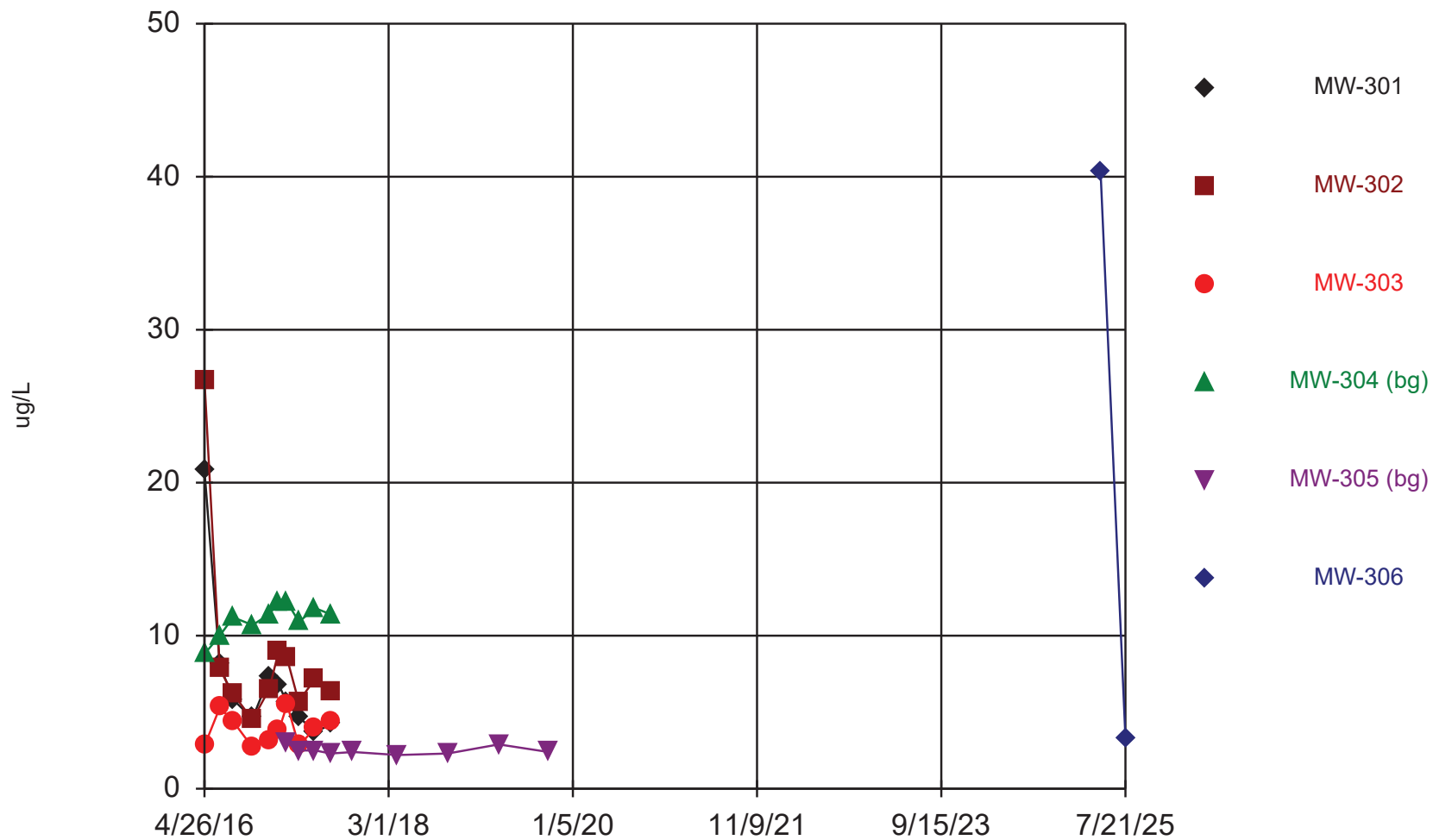


Time Series

Constituent: Antimony (ug/L) Analysis Run 11/12/2025 2:26 PM View: I-43 LF Detection Monitoring
I-43 Ash Disposal Facility Client: SCS Engineers Data: I-43

	MW-301	MW-302	MW-303	MW-304 (bg)	MW-305 (bg)	MW-306
4/26/2016	0.98 (J)	4.5 (J)	0.66 (J)	0.11 (J)		
6/21/2016	0.58 (J)	0.73 (J)	0.1 (J)	0.52 (J)		
8/9/2016		0.28 (J)	0.077 (J)	0.36 (J)		
8/10/2016	0.12 (J)					
10/19/2016	<0.36 (U)	0.37 (J)	0.077 (J)	<0.073 (U)		
12/19/2016	1 (J)	0.97 (J)	2.3	0.23 (J)		
1/23/2017	<0.36 (U)	0.75 (J)	0.59 (J)	0.3 (J)		
2/23/2017	2.7 (J)	0.96 (J)	0.081 (J)	0.63 (J)	0.21 (J)	
4/6/2017	1.4 (J)	0.41 (J)				
4/7/2017			<0.073 (U)	<0.073 (U)	0.088 (J)	
6/6/2017	<0.15 (U)	0.4 (J)	<0.15 (U)	<0.15 (U)	0.59 (J)	
8/1/2017	<0.15 (U)	0.21 (J)	<0.15 (U)	<0.15 (U)	0.53 (J)	
10/23/2017					0.23 (J)	
4/3/2018					<0.15 (U)	
10/4/2018					<0.15 (U)	
4/9/2019					0.78 (J)	
10/8/2019					<0.15 (U)	
4/21/2025						3.5 (J)
7/21/2025						1.3

Time Series

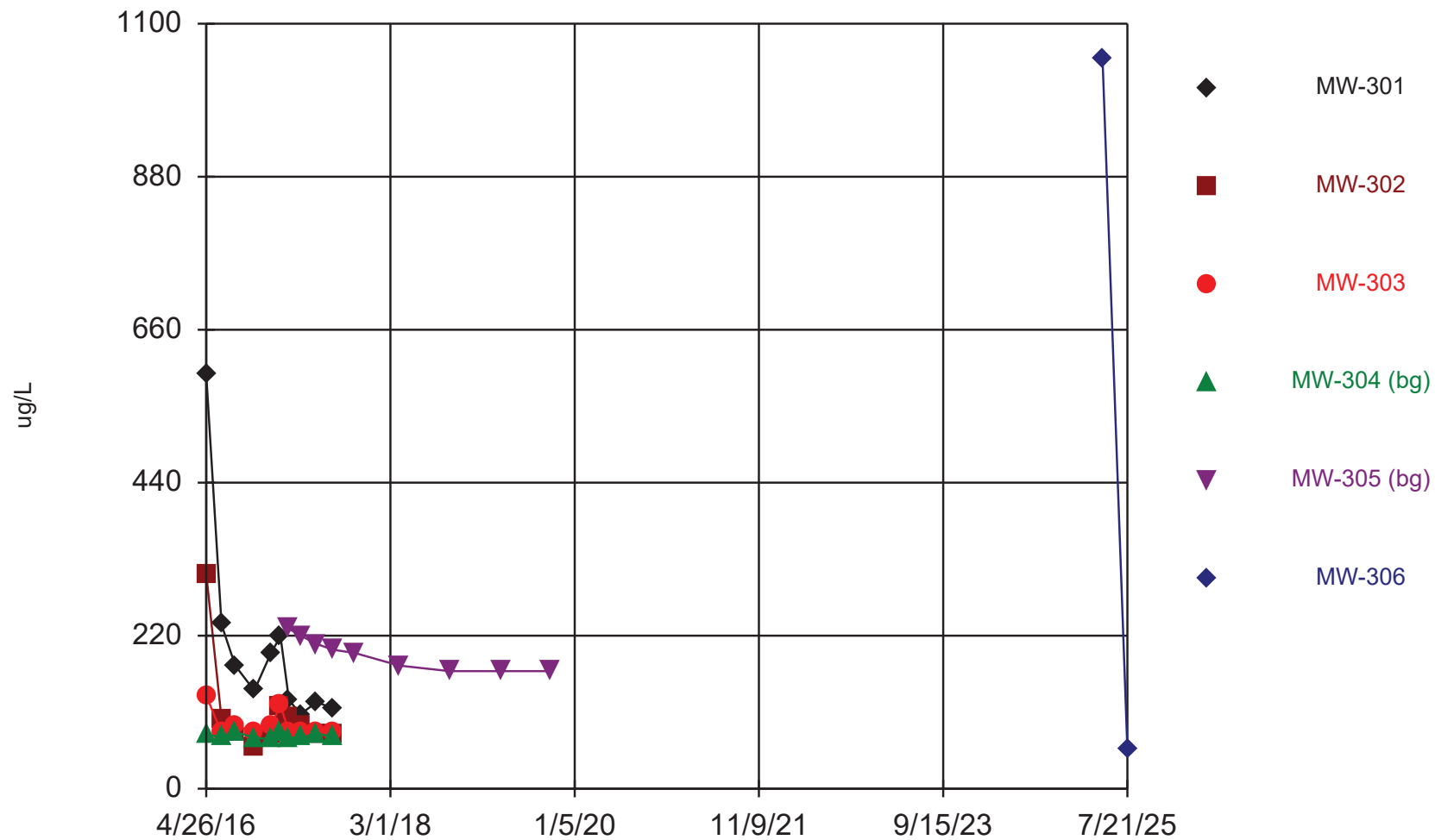


Time Series

Constituent: Arsenic (ug/L) Analysis Run 11/12/2025 2:26 PM View: I-43 LF Detection Monitoring
I-43 Ash Disposal Facility Client: SCS Engineers Data: I-43

	MW-301	MW-302	MW-303	MW-304 (bg)	MW-305 (bg)	MW-306
4/26/2016	20.8	26.7	2.8	8.8		
6/21/2016	8.1	7.8	5.3	10		
8/9/2016		6.2	4.4	11.2		
8/10/2016	5.8					
10/19/2016	4.6 (J)	4.5	2.7	10.7		
12/19/2016	7.3	6.5	3.2	11.4		
1/23/2017	6.8	9	3.8	12.2		
2/23/2017	5.6	8.5	5.5	12.2	3	
4/6/2017	4.7	5.7				
4/7/2017			2.8	10.9	2.5	
6/6/2017	3.7	7.2	4	11.8	2.5	
8/1/2017	4.2	6.3	4.4	11.4	2.3	
10/23/2017					2.4	
4/3/2018					2.2	
10/4/2018					2.3	
4/9/2019					2.9	
10/8/2019					2.4	
4/21/2025						40.3
7/21/2025						3.3

Time Series

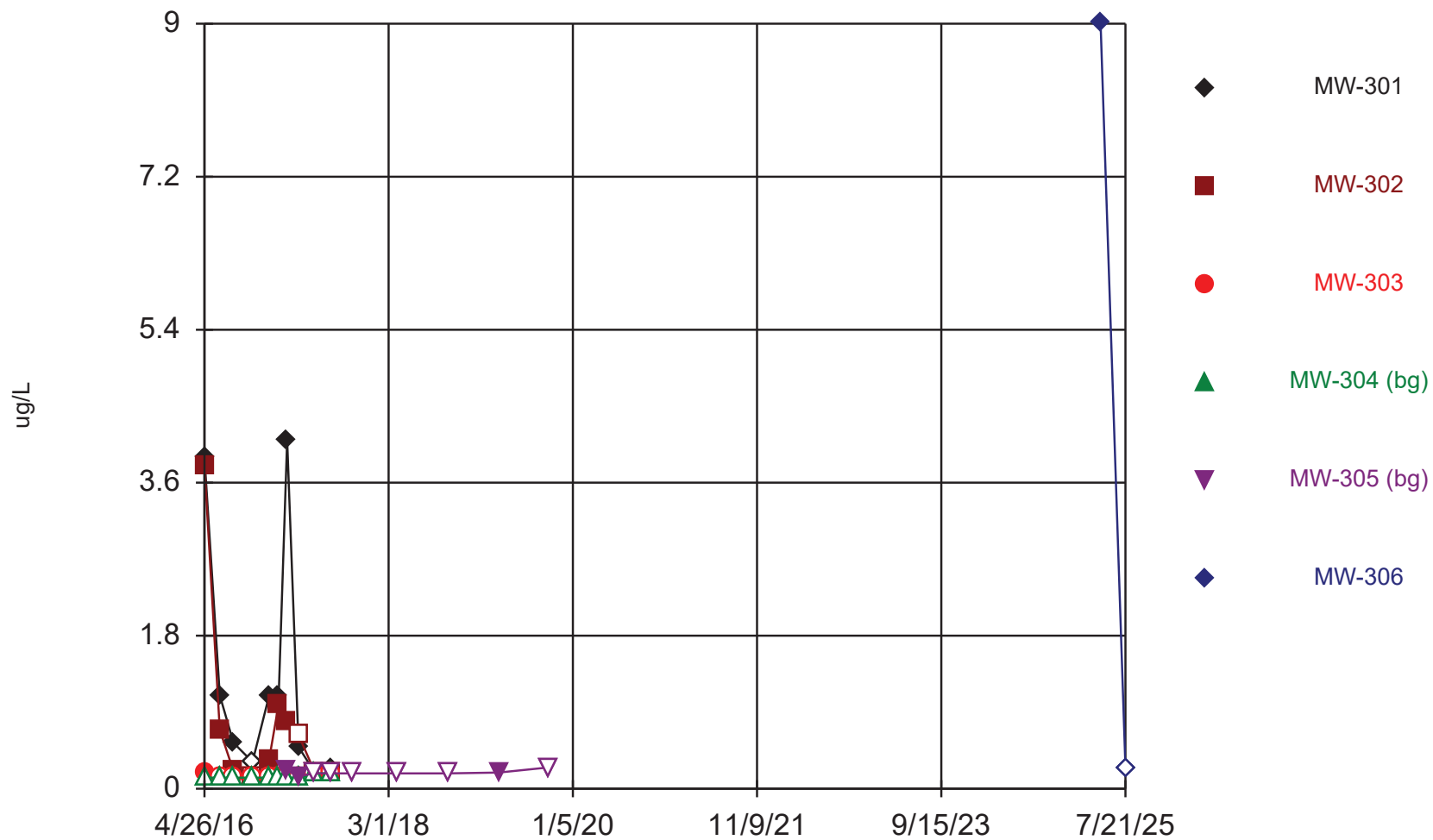


Time Series

Constituent: Barium (ug/L) Analysis Run 11/12/2025 2:26 PM View: I-43 LF Detection Monitoring
I-43 Ash Disposal Facility Client: SCS Engineers Data: I-43

	MW-301	MW-302	MW-303	MW-304 (bg)	MW-305 (bg)	MW-306
4/26/2016	596	309	134	77.6		
6/21/2016	236	100	80.2	74.7		
8/9/2016		80.1	91.2	81.5		
8/10/2016	177					
10/19/2016	141	60.4	81.6	73.4		
12/19/2016	195	77.5	90.3	71		
1/23/2017	219	119	120	81.1		
2/23/2017	128	103	81.1	73.5	230	
4/6/2017	107	90.2				
4/7/2017			80.7	73.7	220	
6/6/2017	125	77.2	80.6	79.1	208	
8/1/2017	115	78.8	81.1	75.1	200	
10/23/2017					195	
4/3/2018					177	
10/4/2018					169	
4/9/2019					169	
10/8/2019					169	
4/21/2025						1050
7/21/2025						55.8

Time Series

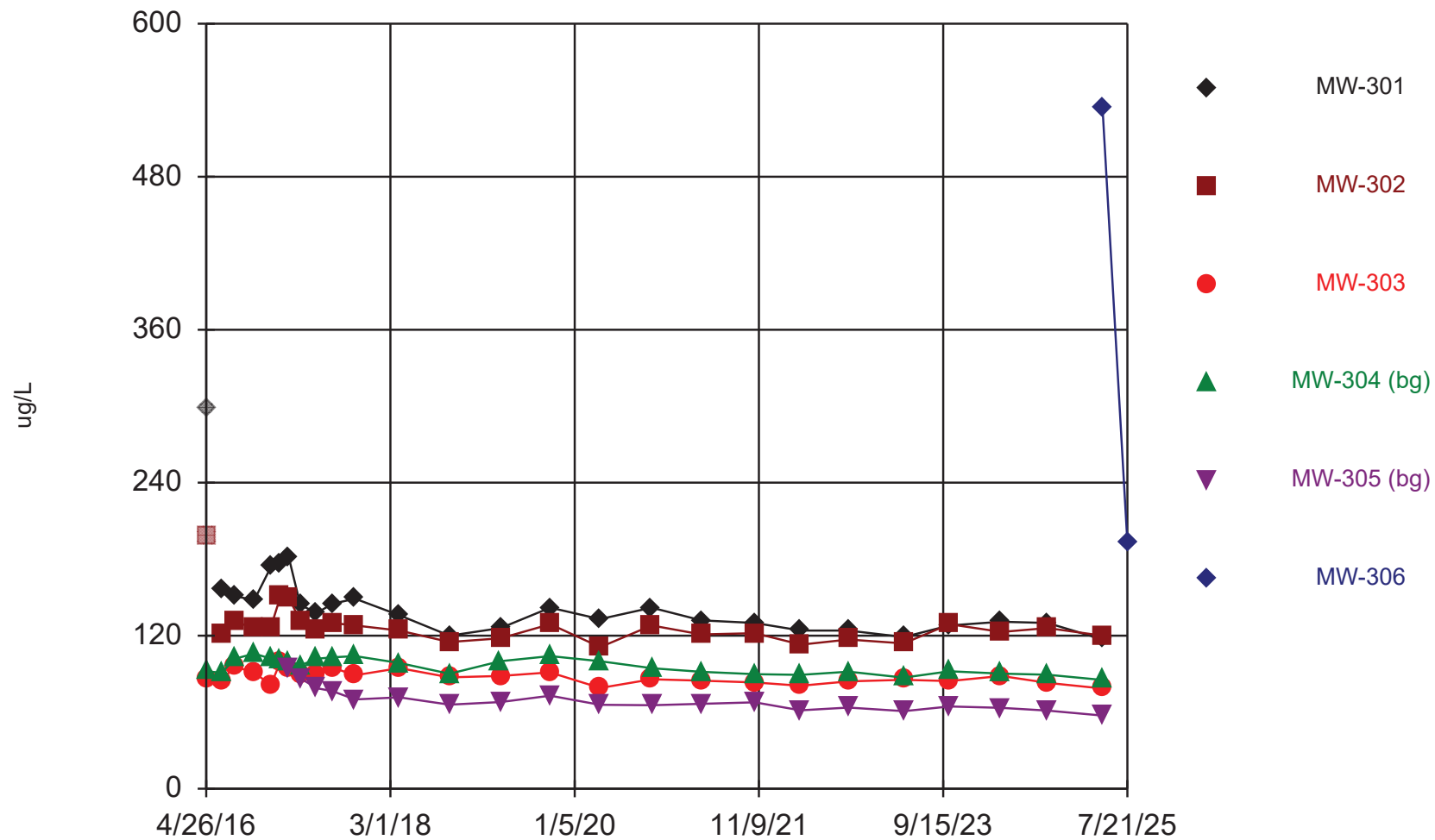


Time Series

Constituent: Beryllium (ug/L) Analysis Run 11/12/2025 2:26 PM View: I-43 LF Detection Monitoring
I-43 Ash Disposal Facility Client: SCS Engineers Data: I-43

	MW-301	MW-302	MW-303	MW-304 (bg)	MW-305 (bg)	MW-306
4/26/2016	3.9 (J)	3.8 (J)	0.18 (J)	<0.13 (U)		
6/21/2016	1.1 (J)	0.69 (J)	<0.13 (U)	<0.13 (U)		
8/9/2016		0.22 (J)	<0.13 (U)	<0.13 (U)		
8/10/2016	0.54 (J)					
10/19/2016	<0.63 (U)	<0.13 (U)	<0.13 (U)	<0.13 (U)		
12/19/2016	1.1 (J)	0.35 (J)	<0.13 (U)	<0.13 (U)		
1/23/2017	1.1 (J)	1 (J)	0.13 (J)	<0.13 (U)		
2/23/2017	4.1 (J)	0.8 (J)	<0.13 (U)	<0.13 (U)	0.21 (J)	
4/6/2017	0.49 (J)	<0.63 (U)				
4/7/2017			<0.13 (U)	<0.13 (U)	0.15 (J)	
6/6/2017	0.18 (J)	<0.18 (U)	<0.18 (U)	<0.18 (U)	<0.18 (U)	
8/1/2017	0.25 (J)	<0.18 (U)	<0.18 (U)	<0.18 (U)	<0.18 (U)	
10/23/2017					<0.18 (U)	
4/3/2018					<0.18 (U)	
10/4/2018					<0.18 (U)	
4/9/2019					0.19 (J)	
10/8/2019					<0.25 (U)	
4/21/2025						9
7/21/2025						<0.25 (U)

Time Series



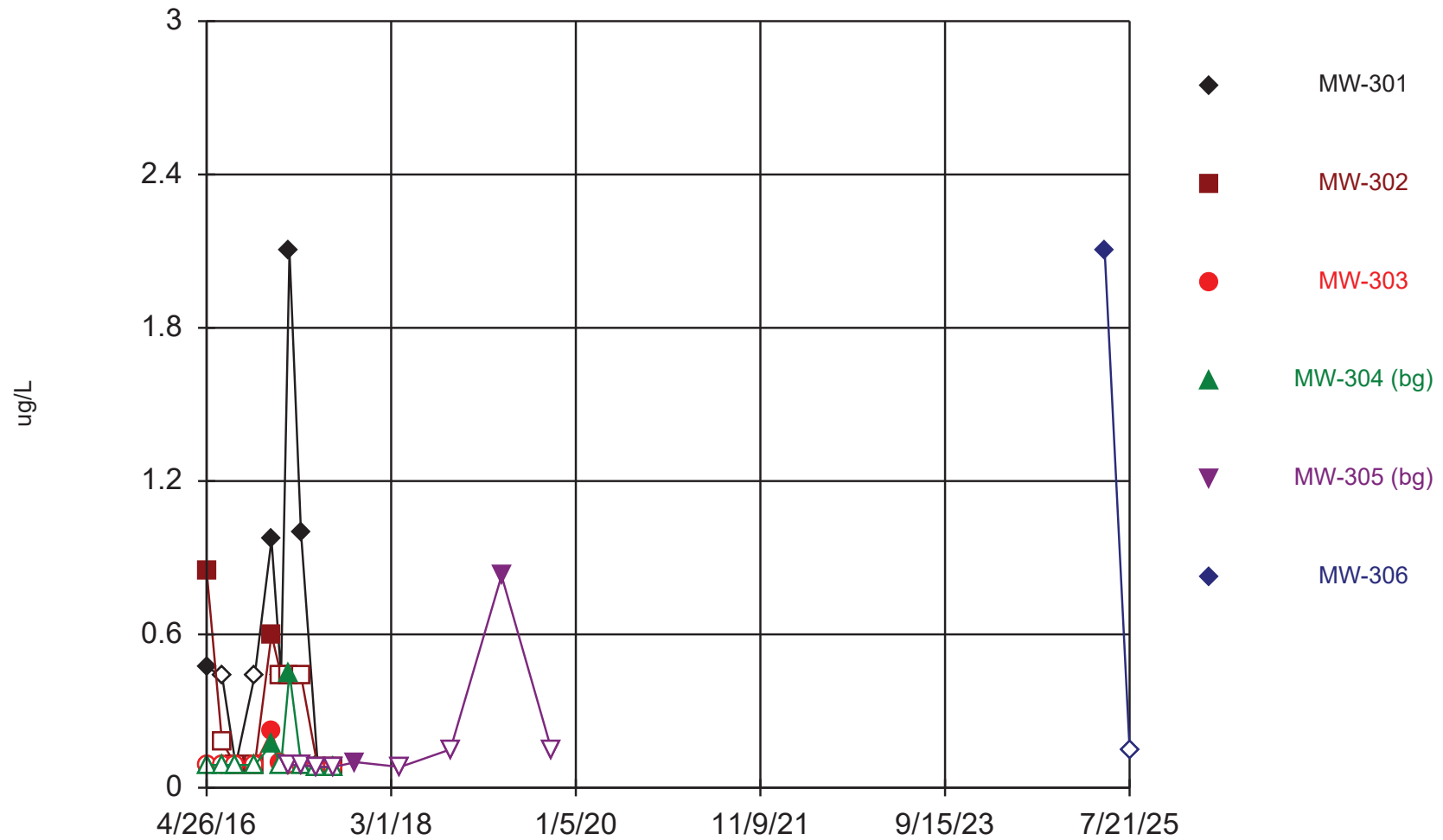
Constituent: Boron Analysis Run 11/12/2025 1:59 PM View: I-43 LF Detection Monitoring
I-43 Ash Disposal Facility Client: SCS Engineers Data: I-43

Time Series

Constituent: Boron (ug/L) Analysis Run 11/12/2025 2:26 PM View: I-43 LF Detection Monitoring
I-43 Ash Disposal Facility Client: SCS Engineers Data: I-43

	MW-301	MW-302	MW-303	MW-304 (bg)	MW-305 (bg)	MW-306
4/26/2016	298 (X)	198 (X)	86.4	92.1		
6/21/2016	157	121	85	90.9		
8/9/2016		131	96	102		
8/10/2016	151					
10/19/2016	148	126	90.8	106		
12/19/2016	174	127	81.6	102		
1/23/2017	177	151	99.8	101		
2/23/2017	181	149	93.9	99.8	94.4	
4/6/2017	144	132				
4/7/2017			89.8	96.9	86.4	
6/6/2017	138	124	89.1	102	78.8	
8/1/2017	145	130	95	103	76.5	
10/23/2017	149	128	89	104	70	
4/3/2018	136	124	94.6	98.6	71.7	
10/4/2018	120	115	87.3	90.2	65.9	
4/8/2019				100		
4/9/2019	126	118	88.4		68	
10/7/2019			91.2			
10/8/2019	142	129		104	73	
4/7/2020	133			100	65.8	
4/8/2020		111	79			
10/13/2020	142	128	85.8			
10/15/2020				94.5	65.5	
4/13/2021	132	121	84.7	91.7	66.6	
10/26/2021	130	122	83.3	89.8	67.8	
4/11/2022			80.7	89.3	61.5	
4/13/2022	124	113				
10/4/2022	124	117			63.7	
10/5/2022			84.2	91.8		
4/24/2023	119	114	85.4	87.1		
4/25/2023					60.8	
10/9/2023	128	129	84.4	92.1	64.5	
4/15/2024	131	123	88.4	90.3	63.4	
10/2/2024	130	126	83	89.4	61.3	
4/21/2025		120	78.6	85.3	57.4	534
4/23/2025	117					
7/21/2025						193

Time Series



Constituent: Cadmium Analysis Run 11/12/2025 1:59 PM View: I-43 LF Detection Monitoring
I-43 Ash Disposal Facility Client: SCS Engineers Data: I-43

Leachate Pipe Cleaning and Inspection Report



Wisconsin Power and Light Co.
An Alliant Energy Company

Edgewater Generating Station
3739 Lakeshore Drive
Sheboygan, WI 53081-7233

www.alliantenergy.com

December 3, 2025

Mr. Tony Peterson
Wisconsin Dept. of Natural Resources
2300 N. DR. Martin Luther King JR. DR.
Milwaukee, WI. 53212

Re: I-43 Landfill Leachate Line Cleaning, 2025

Attached is the Wisconsin Power & Light (WPL) document verifying the Phase 3, Module 2 leachate lines and Contact Water Swale Module leachate lines at the Edgewater I-43 landfill were flushed and jetted as required.

In 2023 the Phase 3, Module 2 lines were cleaned flushed, jetted, and video inspected.

In October 2025, the leachate lines for the Contact Water Swale Module were flushed, jetted, and video inspected.

Buteyn-Peterson Construction Co. Inc. and subcontractors performed the work in October 2025.

If you have any questions pertaining to this report, please call me at (920) 453-2001.

Sincerely,

A handwritten signature in black ink, appearing to read "Megan Hawkins", with a stylized, flowing script.

Megan Hawkins
Environmental Specialist II
Edgewater Generating Station

Ecc: Nils Madden, Edgewater Generating Station
Jeff Maxted, Alliant Energy Corporation

BUTEYN-PETERSON Construction Co., Inc.

N7337 Dairyland Drive - Sheboygan, WI 53083 - PHONE (920) 565-6200 - FAX (920) 565-6203

December 3, 2025

Buteyn-Peterson Construction Inc. certifies that the leachate lines 1, 2, and 3 from Phase 3 Module 2 at the Alliant Energy I-43 Ash Disposal Facility in Sheboygan are clean and free from obstructions for 2025

- Aqualis formerly Northern Pipe, Inc. flushed the lines on 10/30/2025.
-

Mark Brashaw

Project Manager

Buteyn-Peterson Construction Co., Inc.

(920) 565-6200 office

(920) 565-6203 fax

(920) 377-0673 cell

mark.brashaw@jpsbp.com

LEACHATE JETTING COMPLETION REPORT

PREPARED FOR:

Buteyn Peterson Construction

Ash Disposal Site
- Sheboygan, WI

11.13.2025

AQUALIS[®]
Formerly Northern Pipe, Inc.

aqualisco.com | 920.754.3216

C L E A N I N G





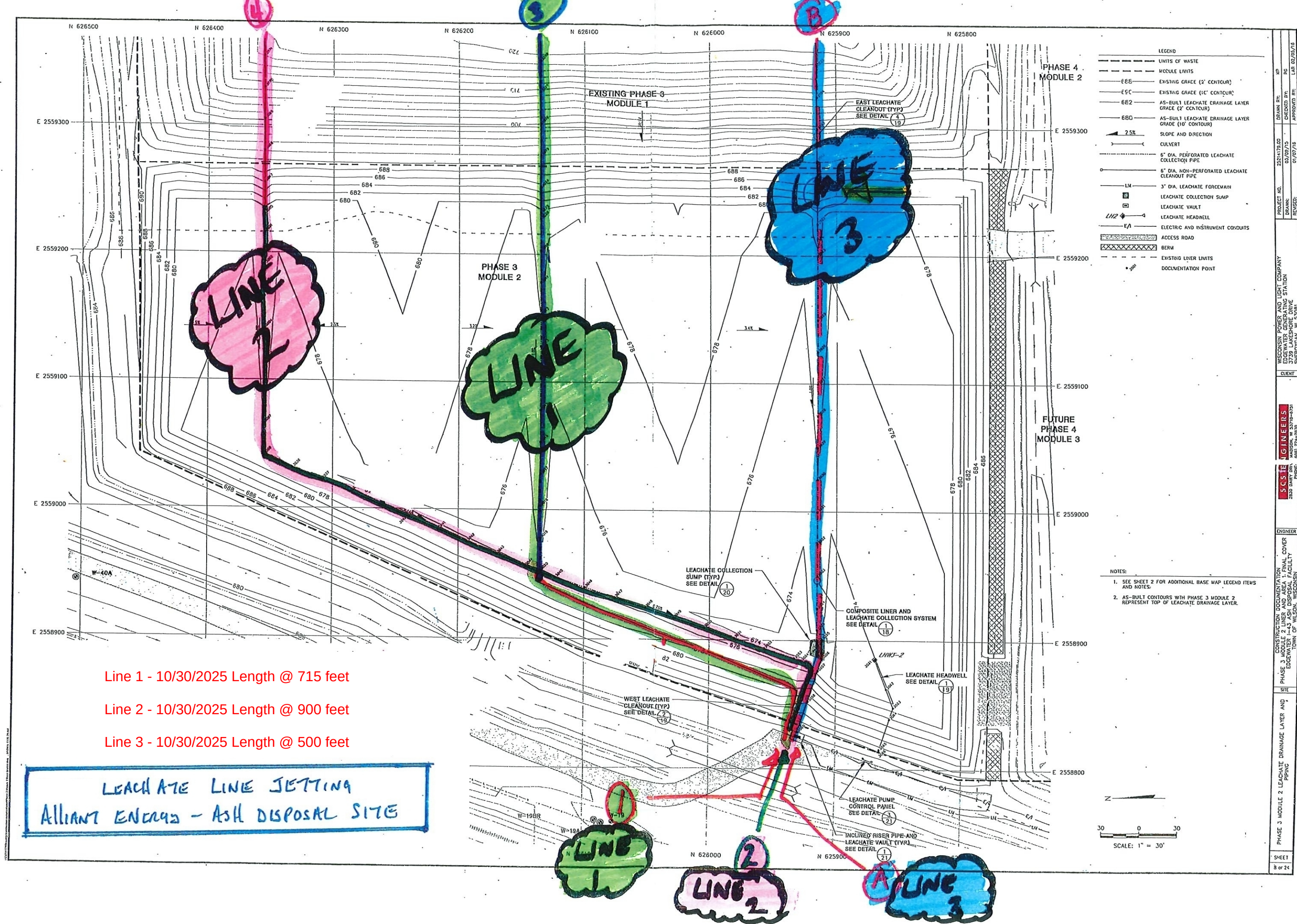
Formerly Northern Pipe, Inc.
2094 COUNTY ROAD QQ
GREEN BAY, WISCONSIN 54311
920.754.3216

Alliant Energy - Ash Disposal Site

Phase 3 Module 2 Leachate Jetting
W/O 2782

Freightliner | 6 hole 3/4" standard bullet tip | 3/4" Piranha HP12 80 GPM 2500 PSI | Gauthiers Super Slick

Line	Cleanout	Total Length	Jetted Length	Date	Comments
1	1	715'	715'	10.30.2025	Line is in good condition.
	3		-		
2	2	900'	900'	10.30.2025	Line is in good condition.
	4		-		
3	A	500'	500'	10.30.2025	Line is in good condition.
	B		-		
		2,115'	2,115'		



Line 1 - 10/30/2025 Length @ 715 feet

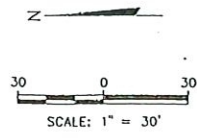
Line 2 - 10/30/2025 Length @ 900 feet

Line 3 - 10/30/2025 Length @ 500 feet

LEACHATE LINE JETTING
Alliant Energy - Ash Disposal Site

- LEGEND
- LIMITS OF WASTE
 - MODULE LIMITS
 - E8E- EXISTING GRADE (2' CONTOUR)
 - E5C- EXISTING GRADE (10' CONTOUR)
 - 682- AS-BUILT LEACHATE DRAINAGE LAYER GRADE (2' CONTOUR)
 - 680- AS-BUILT LEACHATE DRAINAGE LAYER GRADE (10' CONTOUR)
 - 2.5% SLOPE AND DIRECTION
 - CULVERT
 - 6" DIA. PERFORATED LEACHATE COLLECTION PIPE
 - 6" DIA. NON-PERFORATED LEACHATE CLEANOUT PIPE
 - 3" DIA. LEACHATE FORCEMAIN
 - LEACHATE COLLECTION SUMP
 - LEACHATE VAULT
 - LH2 LEACHATE HEADWELL
 - E/I ELECTRIC AND INSTRUMENT CONDUITS
 - ACCESS ROAD
 - BERM
 - EXISTING LINER LIMITS
 - DOCUMENTATION POINT

- NOTES:
1. SEE SHEET 2 FOR ADDITIONAL BASE MAP LEGEND ITEMS AND NOTES.
 2. AS-BUILT CONTOURS WITH PHASE 3 MODULE 2 REPRESENT TOP OF LEACHATE DRAINAGE LAYER.



PROJECT NO.	2024179-00	DRAWN BY	UP
DRAWN	03/29/23	CHECKED BY	PC
REVISION	07/27/18	APPROVED BY	LAB 02/05/18
CLIENT	WISCONSIN POWER AND LIGHT COMPANY EDGEWATER GENERATING STATION 3738 LAKESHORE DRIVE SHEBOYGAN, WI 53081		
ENGINEER	SCS ENGINEERS 2030 DARTY DRIVE MADISON, WI 53718-0725 PHONE: 608 224-3030		
SITE	CONSTRUCTION DOCUMENTATION PHASE 3 MODULE 2 LEACHATE DRAINAGE LAYER AND PIPING EDGEWATER T-43 ASH DISPOSAL FACILITY TOWN OF WILSON, WISCONSIN		
SHEET	8 of 24		

LEACHATE JETTING COMPLETION REPORT

PREPARED FOR:

Buteyn Peterson Construction

New Cell CCTV

Ash Disposal Site

- Sheboygan, WI

11.13.2025



aqualisco.com | 920.754.3216



2094 County Road QQ
Green Bay, Wisconsin 54311
(920) 754-3216
www.aqualisco.com

Table of Contents

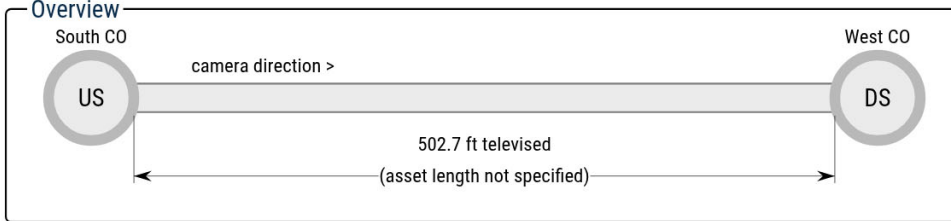
Inspections

South CO – West CO 1

West CO – South CO 5

Pipeline Inspection Report

Overview



Asset

Owner:	Ash Desposal Facility
Compass:	Northwest
Size:	6.0 in
Material:	Polyethylene
Joint Material:	
Joint Length:	
Sewer Use:	Leachate
Comments:	

Inspection

Start Time:	30 - Oct - 2025 08:23
End Time:	10:56
Customer:	Buteyn Peterson Const. Co.
Camera Direction:	Downstream
Surveyor Name:	Shayne DeGrave
Purpose:	Pre-Acceptance
Pre-Cleaning:	Jetting
Weather:	Dry
Media ID:	
PressureValue:	
WorkOrder:	2782
Project:	
Comments:	

Location

Street:	New Cell
City:	City of Sheboygan

Observations

South CO

camera direction >

flow >

Feet	Code	Clock	Value	Severity	Description	Comments
000.0	ACL MWL		0%		Access Point - Cleanout Landfill Water Level	Start of inspection at South Cleanout
127.0	LTS				Line - Toe Slope	
502.7	MSA				Survey Abandoned	as far as camera and nozzle will go due to length and friction from bends in 6 inch pipe - will attempt for overlap from west cleanout

West CO

Snapshots



Access Point - Cleanout Landfill at 000.0 ft | Start of inspection at South Cleanout



Water Level at 000.0 ft



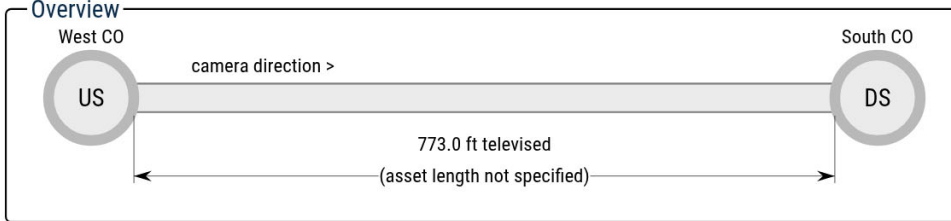
Line - Toe Slope at 127.0 ft



Survey Abandoned at 502.7 ft | as far as camera and nozzle will go due to length and friction from bends in

Pipeline Inspection Report

Overview



Asset

Owner:	Ash Desposal Facility
Compass:	Southeast
Size:	6.0 in
Material:	Polyethylene
Joint Material:	
Joint Length:	
Sewer Use:	Leachate
Comments:	

Inspection

Start Time:	30 • Oct • 2025 12:25
End Time:	13:43
Customer:	Buteyn Peterson Const. Co.
Camera Direction:	Downstream
Surveyor Name:	Shayne DeGrave
Purpose:	Pre-Acceptance
Pre-Cleaning:	Jetting
Weather:	Dry
Media ID:	
PressureValue:	
WorkOrder:	2782
Project:	
Comments:	

Location

Street:	New Cell
City:	City of Sheboygan

Observations

West CO

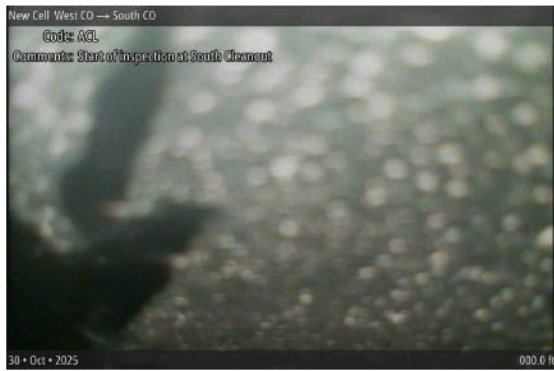
camera direction >

flow >

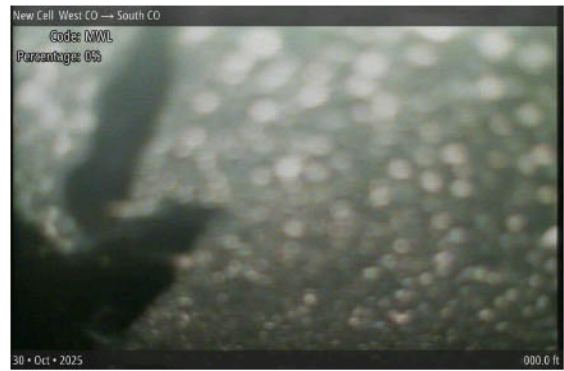
Feet	Code	Clock	Value	Severity	Description	Comments
000.0	ACL MWL		0%		Access Point - Cleanout Landfill Water Level	Start of inspection at South Cleanout
042.6	LTS				Line - Toe Slope	
773.0	MSA				Survey Abandoned	as far as needed to achieve full footage of overlap - end of inspection

South CO

Snapshots



Access Point - Cleanout Landfill at 000.0 ft | Start of inspection at South Cleanout



Water Level at 000.0 ft



Line - Toe Slope at 042.6 ft



Survey Abandoned at 773.0 ft | as far as needed to achieve full footage of overlap - end of inspection

C L E A N I N G



Freightliner | 6 hole 3/4" standard bullet tip | 3/4" Piranha HP12 80 GPM 2500 PSI | Gauthiers Super Slick

Phase	Line	Line Length	Length Cleaned	Date	Comments
	SE Cleanout	1,250'	650'	10.30.2025	Line is in good condition
	NE Cleanout		650'		
		50'		10.30.2025	Line is in good condition
	LHW / CWS - 1		50'		
		50'		10.30.2025	Line is in good condition
	LHW / CWS - 2		50'		

TOTAL LENGTH: 1,350' 1,400'



F I E L D M A P S

