



2025 Annual Groundwater Monitoring and Corrective Action Report

WEC Temporary Ash Disposal Area

Whelan Energy Center
Public Power Generation Agency/
Hastings Utilities, City of Hastings



Hastings, Nebraska
January 30, 2026



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Professional Engineer Certification

I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am duly licensed Professional Engineer under the laws of the State of Nebraska.

Print Name: Lori J. Calub

Signature: 

Date: January 30, 2026

License #: E-9881

My license renewal date is December 31, 2027.





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Executive Summary

Hastings Utilities, City of Hastings (Hastings) operates an existing fossil fuel combustion ash disposal area that is used exclusively by the Whelan Energy Center (WEC), designated as the WEC Temporary Ash Disposal Area. The WEC is located at 4520 East South Street, Hastings, Adams County, Nebraska, approximately two miles east of Hastings, Nebraska. The WEC site is a parcel of the historical Hastings Naval Ammunition Depot and is included in the Superfund activities for this subsite. WEC is also downgraded from additional Superfund subsites located in the City of Hastings.

On April 17, 2015, the United States Environmental Protection Agency (U.S. EPA) published the final rule for the regulation and management of coal combustion residuals (CCR) under the Resource Conservation and Recovery Act (RCRA). The CCR rule is formally promulgated in the Title 40 United States Code of Federal Regulations (CFR) Part 257. This annual report covers the WEC Temporary Ash Disposal Area and provides a summary of CCR groundwater monitoring system activities for calendar year 2025 for the assessment monitoring program under 40 CFR §257.95.

The WEC Temporary Ash Disposal Area transitioned from detection to assessment monitoring following the fall 2017 sampling event due to the following statistically significant increases (SSIs) in downgradient monitoring wells: calcium, chloride, sulfate, and total dissolved solids. An alternate source demonstration (ASD), dated May 1, 2018, was prepared to evaluate the published SSIs. The ASD established that the potential for an offsite source of contamination or natural variation in regional groundwater chemistry was supported for several of the SSIs, including calcium, chloride and total dissolved solids; however, this was not supported for sulfate based on the groundwater data available at the time. As a result, Hastings initiated an assessment monitoring program in 2018, as required in the CCR rule, for the WEC Temporary Ash Disposal Area within the 90-day period specified in 40 CFR §257.95. To continue collecting information on groundwater characteristics near the site, several investigative monitoring wells were installed, sampling was conducted, and a conceptual site model was completed in 2019. Assessment monitoring continued for sampling events in spring and fall 2025. No transition of monitoring programs occurred in 2025.

For the May 2025 sampling event, results of the analysis indicated two (2) SSIs above background for Appendix III constituents and four (4) SSIs above background for Appendix IV constituents.

- Calcium at MW-2B
- Sulfate at MW-4B
- Barium at MW-1, MW-2B
- Lithium at MW-4B
- Radium at MW-2B

For the November 2025 sampling event, results of the analysis indicated three (3) SSIs above background for Appendix IV constituents and no SSIs above background for Appendix III constituents.

- Barium at MW-2B
- Lithium at MW-4B
- Radium at MW-2B

There were no statistically significant levels (SSLs) of the monitored constituents above the groundwater protection standards (GWPS) for either the May 2025 or November 2025 sampling events. Assessment monitoring will continue with the next event tentatively scheduled for spring 2026. The following table summarizes the requested information under 40 CFR §257.90(e)(6).

Summary of 40 CFR Section § 257.90(e)(6) Groundwater Monitoring System Requirements and Site-Specific Compliance		
§ 257.90(e)(6) 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. At a minimum, the summary must specify all of the following:		WEC Temporary Ash Disposal Area
§257.90(e)(6)(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.	Assessment Monitoring Program
§257.90(e)(6)(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.	Assessment Monitoring Program
§257.90(e)(6)(iii)	If it was determined that there was a statistically significant increase over background for one or more constituents listed in Appendix III to this part pursuant to § 257.94(e):	Yes
§257.90(e)(6)(iii)(A)	Identify those constituents listed in Appendix III to this part and the names of the monitoring wells associated with such an increase.	• MW-2B – Calcium • MW-4B – Sulfate
§257.90(e)(6)(iii)(B)	Provide the date when the assessment monitoring program was initiated for the CCR unit.	July 2018
§257.90(e)(6)(iv)	If it was determined that there was a statistically significant level 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:	No SSLs
§257.90(e)(6)(iv) (A)	Identify those constituents listed in Appendix IV to this part and the names of the monitoring wells associated with such an increase.	N/A
§257.90(e)(6)(iv) (B)	Provide the date when the assessment of corrective measures was initiated for the CCR unit.	N/A
§257.90(e)(6)(iv)(C)	Provide the date when the public meeting was held for the assessment of corrective measures for the CCR unit.	N/A
§257.90(e)(6)(iv)(D)	Provide the date when the assessment of corrective measures was completed for the CCR unit.	N/A
§257.90(e)(6)(v)	Whether a remedy was selected pursuant to § 257.97 during the current annual reporting period, and if so, the date of remedy selection.	N/A
§257.90(e)(6)(vi)	(vi) Whether remedial activities were initiated or are ongoing pursuant to § 257.98 during the current annual reporting period.	N/A

1 Introduction

On April 17, 2015, the United States Environmental Protection Agency (U.S. EPA) published the final rule for the regulation and management of coal combustion residuals (CCR) under the Resource Conservation and Recovery Act (RCRA). The CCR rule is formally promulgated in the Title 40 United States Code of Federal Regulations (CFR) Parts 257 and 261. This regulation applies to the existing Whelan Energy Center (WEC) Temporary Ash Disposal Area operated by Hastings Utilities, City of Hastings, Nebraska (Hastings).

1.1 Purpose

The CCR rule established requirements for annual reporting of groundwater monitoring and corrective action in 40 CFR §257.90. The information included in this report complies with the requirements established in 40 CFR §257.90(e). This report provides a summary of CCR-related groundwater activities for calendar year 2025.

1.2 Facility Information

Hastings operates an existing fossil fuel combustion ash disposal area that is used exclusively by the WEC (designated as the WEC Temporary Ash Disposal Area). The WEC is located at 4520 East South Street, Hastings, Adams County, Nebraska, approximately two miles east of the City of Hastings, Nebraska. The WEC site is a parcel located within the historical Hastings Naval Ammunition Depot (NAD) and as such is included in the Superfund activities for this subsite of the Hastings Groundwater Contamination Superfund Site. The Superfund actions include groundwater and soil restoration. Buried byproducts of NAD have historically been found on the site. NAD extends south, east, and west of the site. The WEC is also downgradient of the various Superfund sites and subsites of the Hastings Groundwater Contamination Superfund Site located in the City of Hastings. These sites include, but are not limited to, the Colorado Avenue Subsite, Second Street Subsite, North Landfill Subsite, and the Far-Mar-Co Subsite.

WEC consists of two fossil fuel combustion units. WEC Unit No. 1 (WEC1) is owned and operated by Hastings. WEC Unit No. 2 (WEC2) is owned by Public Power Generation Agency (PPGA), of which Hastings is a member and acts as operating agent for PPGA. The WEC Temporary Ash Disposal Area is an existing CCR surface impoundment of approximately 23.2 acres and serves the two fossil fuel combustion units. With the constructed WEC2 liner (approved June 18, 2024), the permitted WEC Temporary Ash Disposal Area has both a lined CCR landfill area and a historical unlined area of the CCR surface impoundment. The CCR landfill consists of an approximate 4-acre cell with composite liner, and a 1.5-acre lined leachate pond, plus surrounding berms. The remaining area of existing CCR surface impoundment is approximately 17.2 acres.

CCR disposal at this site began in 1981, the same year that commercial operation of WEC1 began. Fossil fuel bottom ash and fly ash mixture (pond ash) from WEC1 was sluiced to the WEC Temporary Ash Disposal Area from initial operation through most of 2025. Commercial operation of WEC2 began on May 1, 2011. Fly ash from the WEC2 silo is typically loaded directly into trucks for off-site beneficial use. WEC2 bottom ash is hauled in dump trucks and stockpiled within the limits of the disposal area. Scrubber ash from WEC2 is moisture conditioned and hauled to the disposal area. The sluiced pond ash and scrubber ash are kept apart in the WEC Temporary Ash Disposal Area by a separation berm. Hastings has marketed

and utilized the CCR for beneficial reuse. The intent is to manage the CCR within the WEC Temporary Ash Disposal Area permitted limits and balance production with excavation for beneficial reuse.

1.3 Transition of Monitoring Programs

The following statistically significant increases (SSIs) were detected and reported in the 2017 WEC CCR Annual Groundwater Report in downgradient monitoring wells at the WEC Temporary Ash Disposal Area: calcium, chloride, sulfate, and total dissolved solids. An alternate source demonstration (ASD) was conducted for the published SSIs (dated May 1, 2018). The ASD established that the potential for an offsite source of contamination or natural variation in regional groundwater chemistry was supported for several of the SSIs, including calcium, chloride, and total dissolved solids; however, this was not supported for sulfate based on the groundwater data available at the time. As a result, Hastings initiated an assessment monitoring program in 2018, as required in the CCR rule, for the WEC Temporary Ash Disposal Area within the 90-day period specified in 40 CFR §257.95. To continue collecting information on groundwater characteristics near the site, several investigative monitoring wells were installed, sampling was conducted, and a conceptual site model was completed in 2019. Assessment monitoring continued for sampling events in spring and fall 2025. No transition of monitoring programs occurred in 2025.

2 Monitoring Program Summary

The groundwater monitoring system currently consists of nine monitoring wells. Monitoring well details for the monitoring network, including the date of installation, are provided in **Table 1**. The locations of the monitoring wells in the groundwater monitoring program with respect to the WEC Temporary Ash Disposal Area are shown in **Figure 1**. Based on historical data collected at the site during Nebraska Department of Water, Energy, and Environment (DWEE) Title 132 semiannual monitoring, monitoring wells upgradient of the CCR unit (current background wells) include MW-5B, MW-6, and MW-9, and downgradient monitoring wells include MW-1, MW-2B, MW-3R, MW-4B, MW-7, and MW-8. Upgradient monitoring wells MW-6 and downgradient well MW-3R continued remaining dry during the fall 2025 sampling event. Two replacement wells are anticipated to be installed at greater depths during spring 2026, as recommended in the WEC Groundwater Well Evaluation Report, included in **Appendix D**.

2.1 Groundwater Monitoring Network Condition Assessment

Hastings Utilities personnel evaluated the condition of each monitoring well in the groundwater monitoring system during the semiannual sampling events in May 2025 and November 2025. The wells were noted in good working condition, concrete pads were intact, and no damage was observed to the protective well casings. A non-dedicated spare pump was used to obtain samples from MW-5B and MW-9 during the May 2025 sampling event because the water was below the dedicated pumps. MW-3R and MW-6 were dry during the last three (3) consecutive sampling events and are planned to be removed from the certified monitoring well network in 2026. As recommended in the WEC Groundwater Well Evaluation Report, two replacement wells are anticipated to be installed at greater depths during the spring 2026 sampling event, as recommended in the WEC Groundwater Well Evaluation Report, included in **Appendix D**.

2.2 Groundwater Purging and Sampling

Groundwater sampling events were conducted by Hastings Utilities personnel in May 2025 and November 2025 at the site's CCR monitoring well network. Samples were collected in compliance with 40 CFR §257.90(c), which requires groundwater monitoring be conducted throughout the active life and post-closure care period of the CCR unit for wells in the monitoring network. The number of samples collected for each background and downgradient well during each groundwater sample event, whether the sample was required by detection or assessment monitoring programs, and the date of each event is summarized in **Table 2**.

Groundwater sampling was conducted by Hastings Utilities personnel in accordance with the WEC Temporary Ash Disposal Area's Groundwater Sampling and Analysis Plan (SAP) dated August 6, 2021. The monitoring wells were purged and sampled with dedicated Geotech SS Geosub pumps and controllers in the monitoring wells under low-flow sampling conditions except for MW-3R, MW-5B, MW-6 and MW-9. MW-5B and MW-9 were both sampled with spare pumps during the May 2025 sampling event as discussed in **Section 2.1**. Samples were not collected from monitoring wells MW-3R and MW-6 because insufficient water was present to sample. There was ongoing construction activities surrounding MW-8 during November 2025 sampling and samples were properly bagged at the time of collecting samples.

A calibrated water quality meter was used to monitor field parameters, including pH, temperature, turbidity, dissolved oxygen (DO), oxidation-reduction potential (ORP), and conductivity. Field sampling forms for May 2025 and November 2025 sampling events are provided in **Appendix A**. After the water quality parameters stabilized, groundwater samples were collected and placed into iced coolers under chain-of-custody control pending delivery to the laboratories. Groundwater samples were analyzed by Eurofins Environment Testing (Eurofins). The laboratory analytical reports are provided in **Appendix B**.

2.3 Groundwater Elevations & Flow Direction

Static groundwater level measurements were recorded at the network monitoring wells listed in **Table 1**, prior to purging and sampling activities conducted during the groundwater sampling events. Groundwater measurements were used to determine groundwater elevations for monitoring wells (**Table 3**). Groundwater flow observed during the two assessment monitoring sampling events was to the northeast with an average flow velocity of 2.23 ft/day to 3.41 ft/day during the spring sampling event and 1.89 ft/day to 2.88 ft/day during the fall sampling event, which is consistent with historical data observed from 2007 to 2024 (see **Figures 2 and 3**).

2.4 Detection Monitoring Program Results

The results of background sampling events in November 2016 through June 2017 and the detection and assessment monitoring activities in October 2017 through November 2025 for Appendix III and Appendix IV constituents are presented in **Table 4** and **Table 5**.

2.5 Assessment Monitoring Program Results

The WEC Temporary Ash Disposal Area transitioned from the detection monitoring program to the assessment monitoring program following the ASD dated May 1, 2018. Groundwater sampling was completed as part of an assessment monitoring program for the WEC CCR unit in

July 2018, as specified in 40 CFR §257.95(b), and October 2018, as specified in 40 CFR §257.95(d). The July and October 2018 sampling events were analyzed for the full Appendix III and Appendix IV constituent lists in accordance with 40 CFR §257.95(b) and 40 CFR §257.95(d). Semiannual sampling for the assessment monitoring program has continued through 2025. Samples were collected in accordance with 40 CFR §257.90(e). The samples were analyzed for all constituents from the Appendix III and IV lists during the May 2025 and November 2025 sampling events. The results of the assessment monitoring events for May 2025 and November 2025 are presented in **Table 4** and **Table 5**.

2.6 Statistical Analysis Results

Statistically derived background threshold values (BTVs) for Appendix III and Appendix IV constituents for assessment monitoring were updated in fall 2025 and provided in **Table 6**. Sampling results used to calculate BTVs were obtained during monitoring events conducted between November 2016 and November 2025. Background data sets will be evaluated for updates every two years or during monitoring program transition, as recommended by the U.S. EPA's Unified Guidance, "Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities" (2009) and in accordance with the facility's SAP. The next background update is scheduled in fall 2027.

As a result of entering the assessment monitoring program, groundwater protection standards (GWPS) were established for all detected Appendix IV constituents. The GWPS were established in accordance with 40 CFR §257.95(h) and are presented in **Table 7**.

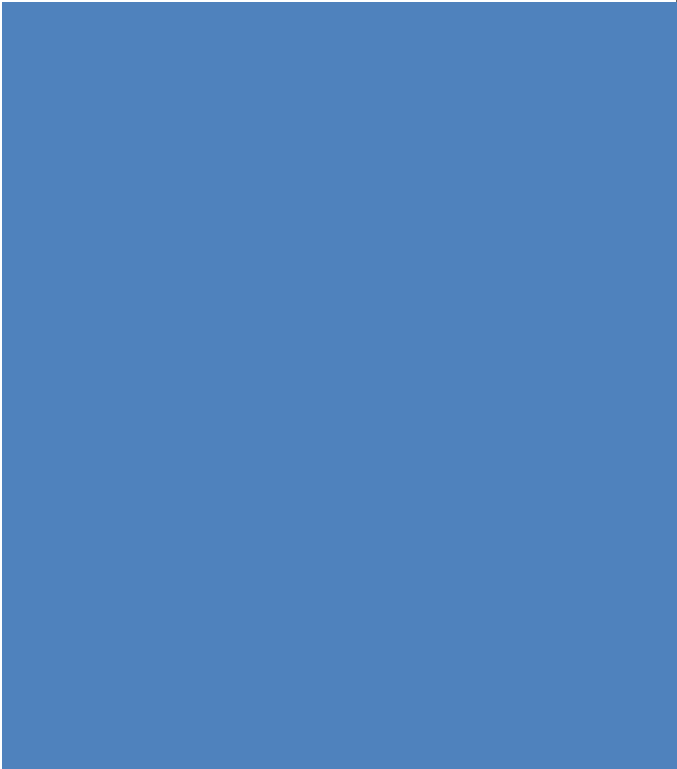
Spring and fall 2025 statistical analysis memos are included in **Appendix C**. The memos include a summary of the BTVs for the Appendix III and IV constituents in assessment monitoring. The memos also contain the results of statistical evaluation for SSIs above background and statistically significant levels (SSLs) above the GWPS at downgradient monitoring wells. No SSLs were identified.

2.7 Other Information Required under 40 CFR §257.90-98

No other information is required under 40 CFR §257.90 through 40 CFR §257.98 at this time.

3 Key Activities for Upcoming Year

In 2026, all wells in the CCR groundwater monitoring network will be sampled at least semiannually, in accordance with the assessment monitoring program requirements (40 CFR §257.95). Analytical results will be evaluated for SSIs above background and for SSLs above the GWPS in spring and fall 2026.



Figures



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NOTES:

1. AERIAL DATED FEBRUARY 2025 OBTAINED FROM GOOGLE EARTH.

CONTROLS	NORTHING	EASTING	ELEVATION	LONG DESCRIPTION
25	334815.14	2328892.86	1896.51	BRASS CAP
26	334879.51	2330467.21	1900.86	BRASS CAP
27	333932.07	2330190.86	1894.46	BRASS CAP

LEGEND

	MONITORING WELL
	CCR MONITORING WELL
	CONTROL POINT
	ASH DISPOSAL AREA BOUNDARY
	ORIGINAL TOE OF SLOPE

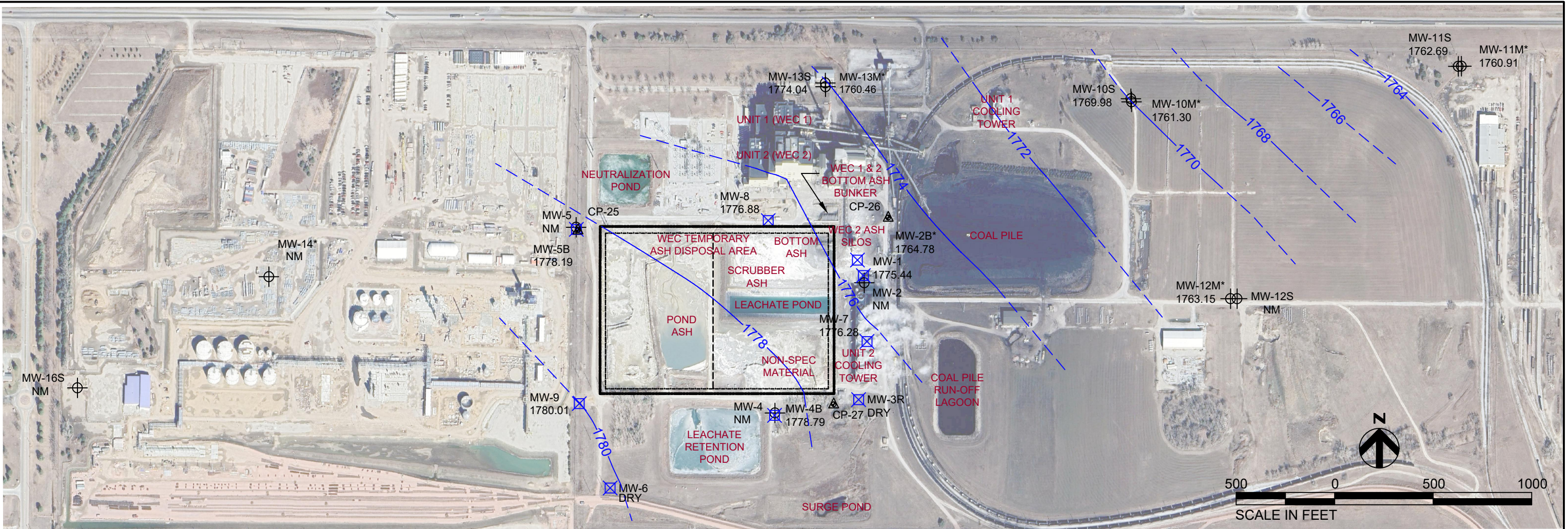


WEC CCR FACILITIES AND MONITORING WELL LOCATIONS

FIGURE

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C:\pwworking\central01\d5157110\Fig 3 - Spring 2025 GW Contours_EVAL.dwg, Plot, 1/26/2026 4:37:17 PM, SSARKER



GROUNDWATER MONITORING WELLS					
WELL DESIGNATION	NORTHING	EASTING	TOP OF CASING ELEVATION*	GROUND ELEVATION*	COMMENT
MW-1	334585.29	2330340.91	1903.16	1900.68	ASSESSMENT MONITORING WELL
MW-2	334549.00	2330345.01	1903.18	1900.93	DRY
MW-2B	334663.85	2330310.77	1903.43	1900.60**	ASSESSMENT MONITORING WELL
MW-3R	333955.95	2330316.80	1900.76	1897.98	ASSESSMENT MONITORING WELL
MW-4	333888.31	2329891.68	1899.21	1895.19	DRY
MW-4B	333876.00	2329890.22	1897.55	1894.69**	ASSESSMENT MONITORING WELL
MW-5	334830.77	2328882.44	1898.90	1897.60	DRY
MW-5B	334819.84	2328884.33	1899.84	1897.21**	UPGRADIENT/BACKGROUND WELL
MW-6	333507.64	2329055.42	1896.88	1893.54	UPGRADIENT/BACKGROUND WELL
MW-7	334250.89	2330359.26	1901.79	1899.14**	ASSESSMENT MONITORING WELL
MW-8	334864.54	2329857.95	1903.93	1901.05**	ASSESSMENT MONITORING WELL
MW-9	333935.57	2328898.85	1897.11	1894.31**	UPGRADIENT/BACKGROUND WELL
MW-10S	334585.29	2330340.91	1904.84	1904.16	DELINEATION WELL
MW-10M	334549.00	2330345.01	1905.18	1902.16	DELINEATION WELL
MW-11S	334663.85	2330310.77	1899.69	1897.13	DELINEATION WELL
MW-11M	333955.95	2330316.80	1899.66	1897.13	DELINEATION WELL
MW-12S	333888.31	2329891.68	1910.39	1907.3	DELINEATION WELL
MW-12M	333876.00	2329890.22	1910.15	1907.56	DELINEATION WELL
MW-13S	334830.77	2328882.44	1904.89	1902.34	DELINEATION WELL
MW-13M	334819.84	2328884.33	1905.04	1902.40	DELINEATION WELL
MW-14	333507.64	2329055.42	1897.46	1894.74	DELINEATION WELL
MW-16S****	333931.96	2326197.40	1897.50	1894.88	DELINEATION WELL

* TOP OF CASING AND GROUND ELEVATIONS PROVIDED BY HASTINGS UTILITIES JULY 23, 2019.
** DESIGNATED GROUND ELEVATIONS DEPICT THE ELEVATION OF THE TOP OF THE CONCRETE SLAB NEAREST TO THE CASING ON THE NORTH SIDE.
*** NORTHING AND EASTING COORDINATES ARE APPROXIMATIONS AND WILL BE UPDATED ALONG WITH TOC AND GROUND SURFACE ELEVATIONS DURING THE NEXT SITE SURVEY.
****MW-15 WAS ABANDONED ON JULY 26, 2022, AND WAS REPLACED WITH MW-16S ON JULY 27, 2022.

NOTES:

- AERIAL DATED FEBRUARY 2025 OBTAINED FROM GOOGLE EARTH.
- RISER ELEVATIONS PROVIDED BY HASTINGS UTILITIES.
- TOP OF CASING ELEVATIONS UTILIZED TO DETERMINE GROUNDWATER ELEVATIONS SURVEYED ON JULY 23, 2019.
- * DENOTES WELLS WERE NOT UTILIZED IN PRODUCTION OF GROUNDWATER CONTOUR DUE TO SCREEN INTERVALS DEEPER THAN THE UPPERMOST AQUIFER OR ANOMALOUS READING.
- NM - MONITORING WELL WAS STATIC WATER LEVEL WAS NOT MEASURED.

CONTROLS	NORTHING	EASTING	ELEVATION	LONG DESCRIPTION
25	334815.14	2328892.86	1896.51	BRASS CAP
26	334879.51	2330467.21	1900.86	BRASS CAP
27	333932.07	2330190.86	1894.46	BRASS CAP

*NOTE: STATE PLANE CONTROL IS BASED ON NEBRASKA SOUTH ZONE NAD 27. VERTICAL CONTROL IS BASED ON NGVD29.

VELOCITY COMPUTATIONS

TRACER VELOCITY = $V_T = \frac{K_i}{n}$
K = HYDRAULIC CONDUCTIVITY (SEE TABLE)
i = GRADIENT = $\frac{1.0 \text{ FT}}{224 \text{ FT}} = 0.004464 \text{ FT/FT}$
n = POROSITY = 0.3

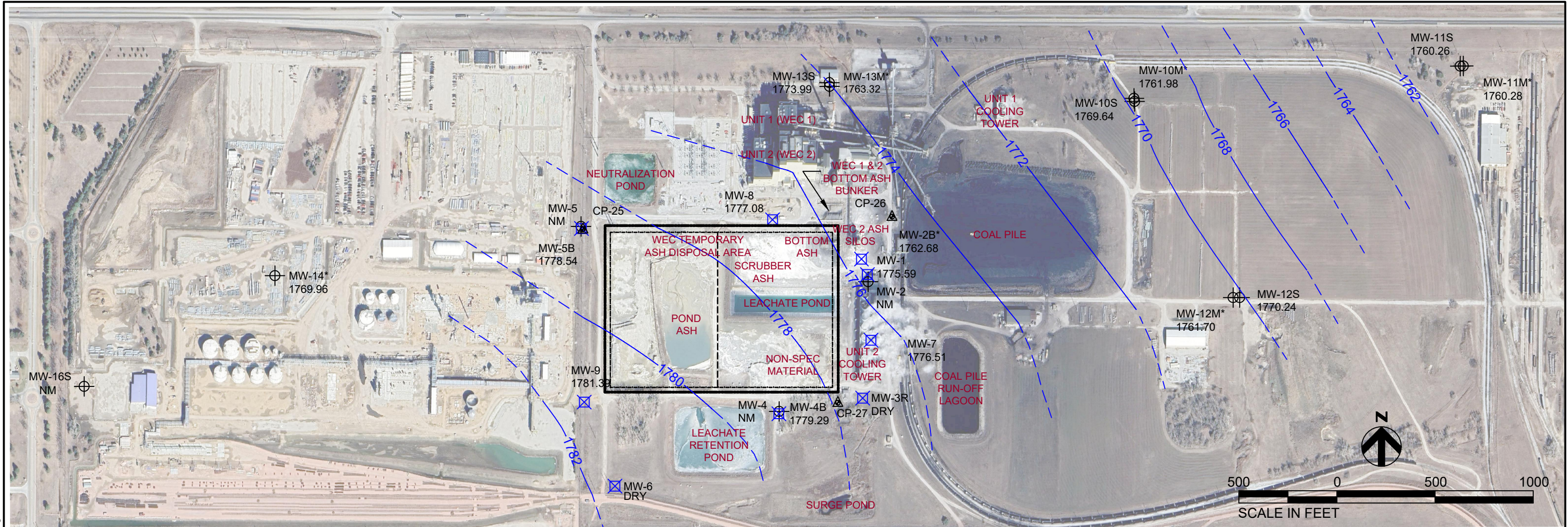
K**	V _T
150 FT/DAY	2.23 FT/DAY
229 FT/DAY	3.41 FT/DAY

LEGEND

- MONITORING WELL
- CCR MONITORING WELL
- CONTROL POINT
- ASH DISPOSAL AREA BOUNDARY
- ORIGINAL TOE OF SLOPE
- GROUNDWATER CONTOUR
- INFERRED GROUNDWATER CONTOUR

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C:\pwworking\central01\d5157110\Fig 3 - Fall 2025 GW Contours_EVAL.dwg, Plot, 1/26/2026 4:41:58 PM, SSARKER



GROUNDWATER MONITORING WELLS					
WELL DESIGNATION	NORTHING	EASTING	TOP OF CASING ELEVATION*	GROUND ELEVATION*	COMMENT
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*** NORTHING AND EASTING COORDINATES ARE APPROXIMATIONS AND WILL BE UPDATED ALONG WITH TOC AND GROUND SURFACE ELEVATIONS DURING THE NEXT SITE SURVEY.
**** MW-15 WAS ABANDONED ON JULY 26, 2022, AND WAS REPLACED WITH MW-16S ON JULY 27, 2022.
***** MW-3R AND MW-6 WERE DRY DURING THE FALL 2024, SPRING 2025, AND FALL 2025 SAMPLING EVENT. THOSE WELLS WILL BE ABANDONED AND TWO (2) ADDITIONAL WELLS ARE PLANNED TO BE DRILLED AT AN INCREASED DEPTH TO REPLACE MW-3R AND MW-6 PRIOR TO THE SPRING 2026 SAMPLING EVENTS.

- NOTES:
- AERIAL DATED FEBRUARY 2025 OBTAINED FROM GOOGLE EARTH.
 - RISER ELEVATIONS PROVIDED BY HASTINGS UTILITIES.
 - TOP OF CASING ELEVATIONS UTILIZED TO DETERMINE GROUNDWATER ELEVATIONS SURVEYED ON JULY 23, 2019.
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*NOTE: STATE PLANE CONTROL IS BASED ON NEBRASKA SOUTH ZONE NAD 27. VERTICAL CONTROL IS BASED ON NGVD29.

VELOCITY COMPUTATIONS

TRACER VELOCITY = $V_T = \frac{K_i}{n}$

K = HYDRAULIC CONDUCTIVITY (SEE TABLE)

i = GRADIENT = $\frac{1.0 \text{ FT}}{265 \text{ FT}} = 0.00377 \text{ FT/FT}$

n = POROSITY = 0.3

K**	V _T
150 FT/DAY	1.89 FT/DAY
229 FT/DAY	2.88 FT/DAY

- LEGEND
- MONITORING WELL
 - CCR MONITORING WELL
 - CONTROL POINT
 - ASH DISPOSAL AREA BOUNDARY
 - ORIGINAL TOE OF SLOPE
 - GROUNDWATER CONTOUR
 - INFERRED GROUNDWATER CONTOUR

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Tables



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Table 1 - Groundwater Monitoring System

Groundwater Monitoring and Corrective Action Report

Whelan Energy Center - Public Power Generation Agency (PPGA) / Hastings Utilities

January 2026

Monitoring Well ID	Date Installed	Boring Depth ^[1] (feet bgs)	Well Depth (feet bgs)	Screened Interval (feet bgs)	Location w/ respect to Temporary Ash Disposal Area	Top of Well Casing Elevation ^[4] (ft AMSL)
CCR Monitoring System Network						
MW-5B ^[2]	10/11/2016	122	121	111.0 – 121.0	Upgradient	1899.84
MW-6	10/5/2004	110.5	110	100.0 – 110.0	Upgradient	1896.88
MW-9	10/10/2016	118.5	117	107.0 – 117.0	Upgradient	1897.11
MW-1	7/28/1999	135	134	104.0 – 134.0	Downgradient	1903.16
MW-2B	10/18/2016	162	160	150.0 – 160.0	Downgradient	1903.43
MW-3R	1/29/2011	126.7	111.9	101.9 – 111.9	Downgradient	1900.76
MW-4B ^[3]	10/26/2016	121	119	109.0 – 119.0	Downgradient/Cross-gradient	1897.55
MW-7	10/7/2016	127.2	127	117.0 – 127.0	Downgradient	1901.79
MW-8	10/20/2016	131	127	117.0 – 127.0	Downgradient/Cross-gradient	1903.93
Investigative - Water Level Only Wells						
MW-10S	12/14/2018	144	140	130 - 140	Downgradient/Cross-gradient	1904.84
MW-10M	12/15/2018	190	187	177 - 187	Downgradient/Cross-gradient	1905.18
MW-11S	12/18/2018	154	150	140 - 150	Downgradient	1899.69
MW-11M	12/19/2018	184	184	174 - 184	Downgradient	1899.66
MW-12S	12/17/2018	144	144	130 - 140	Downgradient/Cross-gradient	1910.39
MW-12M	12/16/2018	177	170	160 - 170	Downgradient/Cross-gradient	1910.15
MW-13S	12/12/2018	154	140	130 - 140	Downgradient/Cross-gradient	1904.89
MW-13M	12/13/2018	191	187	177 - 187	Downgradient/Cross-gradient	1905.04
MW-14	12/11/2018	140	140	130 - 140	Upgradient	1897.46
MW-16S ^[5]	7/27/2022	119	119	109 - 119	Upgradient	1897.50

Notes:^[1] - Gravel pack (16-30 Silica Sand) was utilized to fill annulus between the bottom of the bore hole to approximately 2 feet above the top of screen.^[2] - MW-5B is a replacement well for MW-5 which has not had sufficient water to sample since 2014. MW-5 has not been abandoned; however it is not included in the monitoring well system.^[3] - MW-4B is a replacement well for MW-4 which has not had sufficient water to sample since 2014. MW-4 has not been abandoned; however it is not included in the monitoring well system.^[4] - Top of Well Casing Elevations (TOCs) were updated based on survey as of July 23, 2019.^[5] MW-15 was abandoned on July 26, 2022 and replaced with MW-16S on July 27, 2022.

ft AMSL = feet above mean sea level

bgs = below ground surface

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Table 2 - Groundwater Sampling Event Summary

Groundwater Monitoring and Corrective Action Report

Whelan Energy Center - Public Power Generation Agency (PPGA) / Hastings Utilities

January 2026

Monitoring Well ID	# of Initial Background Samples	Initial Background Sample Dates	# of Detection Monitoring Samples	Detection Monitoring Sample Dates ^[1]	# of Assessment Monitoring Samples	Assessment Monitoring Sample Dates
Current Background Monitoring Wells^[2]						
MW-5B	8	11/16/2016, 12/20/2016, 1/23/2017, 2/21/2017, 3/22/2017, 4/26/2017, 5/26/2017, 6/27/2017	2	10/11/2017, 3/07/2018	17	7/25/2018, 10/16/2018, 5/13/2019, 11/18/2019, 2/17/2020, 5/6/2020, 11/16/2020, 4/19/21, 12/7/21, 4/25/22, 11/14/22, 4/20/23, 12/4/2023, 4/8/2024, 11/22/2024, 5/6/2025, 11/7/2025
MW-6 ^[4] ^[5]	8	11/16/2016, 12/20/2016, 1/23/2017, 2/21/2017, 3/22/2017, 4/26/2017, 5/26/2017, 6/27/2017	2	10/11/2017, 3/07/2018	14	7/25/2018, 10/16/2018, 5/13/2019, 11/18/2019, 2/17/2020, 5/6/2020, 11/16/2020, 4/19/21, 12/7/21, 4/18/22, 11/14/22, 4/20/23, 12/4/2023, 4/8/2024
MW-9	8	11/16/2016, 12/20/2016, 1/23/2017, 2/21/2017, 3/22/2017, 4/26/2017, 5/26/2017, 6/27/2017	2	10/11/2017, 3/07/2018	17	7/25/2018, 10/16/2018, 5/13/2019, 11/18/19, 2/17/2020, 5/6/2020, 11/16/2020, 4/19/21, 12/7/21, 4/25/22, 11/14/22, 4/20/23, 12/4/2023, 4/8/2024, 11/22/2024, 5/7/2025, 11/7/2025
Downgradient Monitoring Wells						
MW-1	8	11/17/2016, 2/21/2017, 3/22/2017, 4/26/2017, 5/26/2017, 7/6/2017, 8/8/2017, 9/12/2017	2	10/11/2017, 3/07/2018	17	7/25/2018, 10/16/2018, 5/13/2019, 11/19/2019, 2/17/2020, 5/6/2020, 11/16/2020, 4/19/21, 12/7/21, 4/25/22 ^[3] , 11/16/22, 4/20/23, 12/5/2023, 4/8/2024, 11/19/2024, 5/6/2025, 11/7/2025
MW-2B	9	12/21/2016, 1/23/2017, 2/21/2017, 3/23/2017, 4/26/2017, 5/26/2017, 6/27/2017, 8/8/2017, 9/12/2017	2	10/11/2017, 3/07/2018	17	7/25/2018, 10/16/2018, 5/13/2019, 11/19/2019, 2/17/2020, 5/6/2020, 11/18/2020, 4/20/21, 12/7/21, 4/25/22, 11/14/22, 4/20/23, 12/5/2023, 4/8/2024, 11/19/24, 5/6/2025, 11/7/2025
MW-3R ^[4] ^[5]	8	11/16/2016, 12/20/2016, 1/23/2017, 2/21/2017, 3/22/2017, 4/26/2017, 5/26/2017, 6/27/2017	2	10/11/2017, 3/07/2018	14	7/25/2018, 10/16/2018, 5/13/2019, 11/18/2019, 2/17/2020, 5/6/2020, 11/16/2020, 4/19/21, 12/7/21, 4/25/22, 11/16/22, 4/21/23, 12/7/2023, 4/10/2024
MW-4B	8	11/16/2016, 12/20/2016, 1/23/2017, 2/21/2017, 3/22/2017, 4/26/2017, 5/26/2017, 6/27/2017	2	11/01/2017, 3/07/2018	17	7/25/2018, 10/16/2018, 5/15/2019, 11/18/2019, 2/17/2020, 5/6/2020, 11/16/2020, 4/19/21, 12/7/21, 4/25/22, 11/14/22, 4/20/23, 12/5/2023, 4/8/2024, 11/19/2024, 5/6/2025, 11/10/2025
MW-7	8	11/16/2016, 12/20/2016, 1/23/2017, 2/21/2017, 3/22/2017, 4/26/2017, 5/26/2017, 6/27/2017	2	10/11/2017, 3/07/2018	17	7/25/2018, 10/16/2018, 5/13/2019, 11/18/2019, 2/17/2020, 5/6/2020, 11/16/2020, 4/20/21, 12/7/21, 4/25/22 ^[3] , 11/14/22, 4/20/23, 12/5/2023, 4/8/2024, 11/21/2024, 5/6/2025, 11/7/2025
MW-8 ^[4]	8	11/16/2016, 12/20/2016, 1/23/2017, 2/21/2017, 3/22/2017, 4/26/2017, 5/26/2017, 6/27/2017	2	10/11/2017, 3/07/2018	16	7/25/2018, 10/16/2018, 5/13/2019, 11/18/19, 2/17/2020, 5/6/2020, 11/16/2020, 4/19/21, 12/7/21, 4/25/22, 11/14/22, 4/20/23, 12/5/2023, 4/8/2024, 5/6/2025, 11/7/2025

Notes:^[1] The March 5th - 7th, 2018 sampling event was conducted as part of the Alternate Source Demonstration.^[2] Background monitoring wells are generally upgradient of CCR Unit; however, groundwater direction may fluctuate due to seasonal variation in irrigation and/or production wells use.^[3] Radium was not sampled at MW-1 and MW-7 during the spring 2022 sampling event due to a preservative error made by the lab. Radium at these wells was sampled during the fall 2022 sampling event.^[4] A sample was not collected from MW-8 during the fall 2024 sampling event because it was inaccessible due to active construction in the area.^[5] Samples were not collected from MW-3R and MW-6 during the fall 2024, spring 2025 and fall 2025 sampling event because insufficient water was present to sample.

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Table 3 - Groundwater Elevations
Groundwater Monitoring and Corrective Action Report
Whelan Energy Center - Public Power Generation Agency (PPGA) / Hastings Utilities
January 2026

CCR Monitoring System Network																		
Historical TOC July 2019 TOC	MW-1		MW-2B		MW-3R		MW-4B		MW-5B		MW-6		MW-7		MW-8		MW-9	
	TOC Elevation		TOC Elevation		TOC Elevation		TOC Elevation		TOC Elevation		TOC Elevation		TOC Elevation		TOC Elevation		TOC Elevation	
	1902.93 1903.16		1902.96 1903.43		1900.45 1900.76		1897.02 1897.55		1899.16 1899.84		1896.72 1896.88		1901.23 1901.79		1903.37 1903.93		1896.54 1897.11	
Date	Measured Depth to Water (ft)	GW Elevation (AMSL)	Measured Depth to Water (ft)	GW Elevation (AMSL)	Measured Depth to Water (ft)	GW Elevation (AMSL)	Measured Depth to Water (ft)	GW Elevation (AMSL)	Measured Depth to Water (ft)	GW Elevation (AMSL)	Measured Depth to Water (ft)	GW Elevation (AMSL)	Measured Depth to Water (ft)	GW Elevation (AMSL)	Measured Depth to Water (ft)	GW Elevation (AMSL)	Measured Depth to Water (ft)	GW Elevation (AMSL)
11/16/2016	123.65	1779.28	135.65	1767.31	120.10	1780.35	113.28	1783.74	117.31	1781.85	112.40	1784.32	121.50	1779.73	122.08	1781.29	112.33	1784.21
12/20/2016	123.90	1779.03	137.60	1765.36	120.33	1780.12	113.50	1783.52	117.40	1781.76	N.M.	N.M.	121.50	1779.73	122.80	1780.57	112.48	1784.06
1/23/2017	123.70	1779.23	137.80	1765.16	120.06	1780.39	113.41	1783.61	117.52	1781.64	N.M.	N.M.	121.40	1779.83	122.85	1780.52	112.98	1783.56
2/21/2017	123.78	1779.15	138.00	1764.96	120.10	1780.35	113.59	1783.43	117.68	1781.48	112.75	1783.97	121.42	1779.81	122.90	1780.47	112.96	1783.58
3/23/2017	123.85	1779.08	137.25	1765.71	120.13	1780.32	113.70	1783.32	117.79	1781.37	112.95	1783.77	121.60	1779.63	122.96	1780.41	113.12	1783.42
4/26/2017	124.08	1778.85	135.78	1767.18	120.30	1780.15	114.15	1782.87	118.10	1781.06	113.30	1783.42	121.72	1779.51	123.30	1780.07	113.52	1783.02
5/26/2017	124.53	1778.40	135.50	1767.46	121.08	1779.37	114.69	1782.33	118.41	1780.75	113.59	1783.13	122.27	1778.96	123.65	1779.72	113.80	1782.74
6/27/2017	N.M.	N.M.	139.13	1763.83	120.82	1779.63	114.32	1782.70	117.97	1781.19	113.20	1783.52	122.05	1779.18	123.45	1779.92	112.53	1784.01
8/8/2017	124.48	1778.45	141.19	1761.77	N.M.	N.M.	N.M.	N.M.	N.M.	N.M.	N.M.	N.M.	N.M.	N.M.	N.M.	N.M.	N.M.	N.M.
9/12/2017	124.53	1778.40	140.92	1762.04	121.18	1779.27	114.89	1782.13	117.10	1782.06	112.43	1784.29	122.32	1778.91	123.24	1780.13	110.75	1785.79
10/11/2017	124.68	1778.25	137.92	1765.04	121.34	1779.11	115.50	1781.52	117.72	1781.44	113.46	1783.26	122.53	1778.70	123.60	1779.77	112.83	1783.71
2/20/2018	125.50	1777.43	139.77	1763.19	121.85	1778.60	115.52	1781.50	117.80	1781.36	113.00	1783.72	123.25	1777.98	124.22	1779.15	111.40	1785.14
7/25/2018	126.29	1776.64	141.02	1761.94	122.95	1777.50	116.75	1780.27	119.42	1779.74	114.40	1782.32	124.14	1777.09	125.30	1778.07	113.52	1783.02
10/16/2018	125.78	1777.15	139.30	1763.66	121.71	1778.74	115.37	1781.65	118.70	1780.46	114.23	1782.49	123.32	1777.91	124.64	1778.73	113.77	1782.77
3/5/2019	122.40	1780.53	138.50	1764.46	120.85	1779.60	113.85	1783.17	117.28	1781.88	112.90	1783.82	122.00	1779.23	122.72	1780.65	112.33	1784.21
3/28/2019	124.16	1778.77	138.34	1764.62	120.46	1779.99	N.M.	N.M.	117.32	1781.84	112.35	1784.37	121.86	1779.37	122.80	1780.57	112.05	1784.49
4/30/2019	124.20	1778.73	137.13	1765.83	120.47	1779.98	N.M.	N.M.	117.85	1781.31	113.38	1783.34	121.90	1779.33	123.30	1780.07	113.33	1783.21
5/13/2019	124.56	1778.37	136.92	1766.04	120.98	1779.47	115.17	1781.85	118.37	1780.79	114.10	1782.62	122.35	1778.88	123.67	1779.70	114.03	1782.51
5/31/2019	125.10	1777.83	134.61	1768.35	121.77	1778.68	116.27	1780.75	118.88	1780.28	114.90	1781.82	122.98	1778.25	124.28	1779.09	114.84	1781.70
6/25/2019	125.59	1777.34	137.55	1765.41	121.55	1778.90	116.40	1780.62	119.00	1780.16	115.25	1781.47	121.20	1780.03	124.93	1778.44	115.25	1781.29
8/26/2019	125.47	1777.69	138.26	1765.17	121.39	1779.37	114.76	1782.79	119.36	1780.48	114.00	1782.88	123.00	1778.79	124.80	1779.13	114.10	1783.01
10/28/2019	124.62	1778.54	135.51	1767.92	120.95	1779.81	114.27	1783.28	117.70	1782.14	112.80	1784.08	122.22	1779.57	123.66	1780.27	111.20	1785.91
11/19/2019	124.32	1778.84	136.65	1766.78	121.08	1779.68	114.30	1783.25	116.87	1782.97	112.28	1784.60	122.10	1779.69	123.16	1780.77	110.10	1787.01
5/7/2020	124.23	1778.93	133.40	1770.03	121.44	1779.32	115.92	1781.63	117.00	1782.84	113.45	1783.43	122.37	1779.42	123.05	1780.88	112.85	1784.26
8/31/2020	124.50	1778.66	144.43	1759.00	121.17	1779.59	115.10	1782.45	116.63	1783.21	112.58	1784.30	122.40	1779.39	123.10	1780.83	109.80	1787.31
11/16/2020	125.24	1777.92	136.10	1767.33	122.20	1778.56	116.23	1781.32	117.60	1782.24	112.90	1783.98	123.20	1778.59	123.95	1779.98	110.95	1786.16
3/30/2021	124.08	1779.08	134.87	1768.56	121.25	1779.51	115.06	1782.49	116.70	1783.14	113.83	1783.05	122.20	1779.59	122.00	1781.93	112.82	1784.29
4/19/2021	123.80	1779.36	133.78	1769.65	120.88	1779.88	114.96	1782.59	116.80	1783.04	113.62	1783.26	121.92	1779.87	122.10	1781.83	113.00	1784.11
12/7/2021	124.35	1778.81	138.35	1765.08	120.60	1780.16	113.44	1784.11	118.22	1781.62	112.50	1784.38	121.90	1779.89	123.60	1780.33	112.96	1784.15
4/25/2022	124.20	1778.96	134.48	1768.95	120.47	1780.29	113.79	1783.76	118.25	1781.59	112.45	1784.43	121.78	1780.01	123.52	1780.41	113.12	1783.99
11/14/2022	124.95	1778.21	139.35	1764.08	121.55	1779.21	114.90	1782.65	118.05	1781.79	112.52	1784.36	122.62	1779.17	124.00	1779.93	111.70	1785.41
4/20/2023	125.05	1778.11	134.90	1768.53	121.50	1779.26	115.34	1782.21	118.12	1781.72	113.35	1783.53	122.92	1778.87	124.00	1779.93	113.18	1783.93
12/4/2023	126.55	1776.61	139.35	1764.08	123.15	1777.61	117.70	1779.85	119.70	1780.14	115.20	1781.68	124.47	1777.32	125.68	1778.25	115.10	1782.01
4/8/2024	125.76	1777.40	137.63	1765.80	122.60	1778.16	116.30	1781.25	119.25	1780.59	114.73	1782.15	123.60	1778.19	124.75	1779.18	114.62	1782.49
11/19/2024	N.M.	N.M.	140.60	1762.83	123.60	1777.16	118.10	1779.45	121.30	1778.54	116.20	1780.68	125.20	1776.59	N.M.	N.M.	116.40	1780.71
5/6/2025	127.72	1775.44	138.65	1764.78	124.25	1776.51	118.76	1778.79	121.65	1778.19	DRY	DRY	125.51	1776.28	127.05	1776.88	117.10	1780.01
11/7/2025	127.57	1775.59	140.75	1762.68	124.00	1776.76	118.26	1779.29	121.30	1778.54	116.20	1780.68	125.28	1776.51	126.85	1777.08	115.72	1781.39

Notes:
TOC: Top of PVC well casing
N.M. = not measured
AMSL = above mean sea level
MW-15 was abandoned and replaced by MW-16S in 2022.
MW-3R and MW-6 did not have sufficient water for sampling during the fall 2024, spring 2025, and fall 2025 sampling events.

Table 3 - Groundwater Elevations
Groundwater Monitoring and Corrective Action Report
Whelan Energy Center - Public Power Generation Agency (PPGA) / Hastings Utilities
November 2025

Investigative - Water Level Only Wells																				
Historical TOC July 2019 TOC	MW-10S		MW- 10M		MW-11S		MW-11M		MW-12S		MW-12M		MW-13S		MW-13M		MW-14		MW-15/16S	
	TOC Elevation		TOC Elevation		TOC Elevation		TOC Elevation		TOC Elevation		TOC Elevation		TOC Elevation		TOC Elevation		TOC Elevation		TOC Elevation	
	1904.83 1904.84		1905.08 1905.18		1899.63 1899.69		1899.63 1899.66		1910.30 1910.39		1910.06 1910.15		1905.01 1904.89		1905.07 1905.04		1897.41 1897.46		1897.65 1897.50	
Date	Measured Depth to Water (ft)	GW Elevation	Measured Depth to Water (ft)	GW Elevation	Measured Depth to Water (ft)	GW Elevation	Measure d Depth to Water (ft)	GW Elevation	Measured Depth to Water (ft)	GW Elevation	Measure d Depth to Water (ft)	GW Elevation	Measured Depth to Water (ft)	GW Elevation	Measured Depth to Water (ft)	GW Elevation	Measured Depth to Water (ft)	GW Elevation	Measured Depth to Water (ft)	GW Elevation
1/3/2019	134.05	1770.78	142.90	1762.18	135.60	1764.03	133.70	1765.93	138.80	1771.50	145.85	1764.21	128.30	1776.71	140.85	1764.22	125.20	1772.21	126.40	1771.25
1/23/2019	133.90	1770.93	144.23	1760.85	135.50	1764.13	134.22	1765.41	138.74	1771.56	145.95	1764.11	128.14	1776.87	140.50	1764.57	125.34	1772.07	126.65	1771.00
3/6/2019	133.70	1771.13	144.43	1760.65	135.25	1764.38	137.58	1762.05	N.M	N.M	145.82	1764.24	128.15	1776.86	140.87	1764.20	125.07	1772.34	127.03	1770.62
3/28/2019	133.83	1771.00	143.00	1762.08	135.26	1764.37	136.98	1762.65	138.65	1771.65	145.68	1764.38	128.25	1776.76	144.70	1760.37	125.30	1772.11	127.40	1770.25
4/30/2019	133.50	1771.33	140.68	1764.40	134.50	1765.13	136.20	1763.43	138.38	1771.92	144.97	1765.09	128.09	1776.92	139.68	1765.39	124.45	1772.96	126.48	1771.17
5/13/2019	133.60	1771.23	140.38	1764.70	134.55	1765.08	136.30	1763.33	138.40	1771.90	144.88	1765.18	128.40	1776.61	139.25	1765.82	124.45	1772.96	126.30	1771.35
5/31/2019	133.49	1771.34	137.87	1767.21	133.92	1765.71	134.15	1765.48	138.40	1771.90	143.07	1766.99	128.44	1776.57	136.35	1768.72	N.M.	N.M.	N.M.	N.M.
6/25/2019	133.46	1771.37	141.48	1763.60	134.15	1765.48	136.22	1763.41	138.37	1771.93	145.00	1765.06	128.72	1776.29	139.80	1765.27	125.54	1771.87	127.75	1769.90
8/26/2019	142.64	1762.20	142.64	1762.54	135.95	1763.74	137.28	1762.38	138.63	1771.76	145.97	1764.18	129.25	1775.64	140.68	1764.36	125.57	1771.89	127.95	1769.69
10/28/2019	133.60	1771.24	140.15	1765.03	134.34	1765.35	135.15	1764.51	138.37	1772.02	143.78	1766.37	128.69	1776.20	138.08	1766.96	123.65	1773.81	125.62	1772.02
11/19/2019	133.50	1771.34	141.45	1763.73	134.24	1765.45	135.75	1763.91	138.25	1772.14	144.42	1765.73	128.45	1776.44	139.05	1765.99	124.16	1773.30	126.57	1771.07
2/18/2020	133.15	1771.69	140.70	1764.48	133.86	1765.83	135.22	1764.44	138.10	1772.29	144.15	1766.00	127.72	1777.17	138.68	1766.36	123.17	1774.29	125.55	1772.09
5/7/2020	132.46	1772.38	140.10	1765.08	132.35	1767.34	133.72	1765.94	137.75	1772.64	141.95	1768.20	127.28	1777.61	135.30	1769.74	121.62	1775.84	123.82	1773.82
9/1/2020	133.68	1771.16	152.02	1753.16	140.45	1759.24	144.55	1755.11	138.27	1772.12	152.35	1757.80	127.98	1776.91	147.60	1757.44	128.80	1768.66	132.02	1765.62
11/17/2020	133.55	1771.29	143.10	1762.08	135.16	1764.53	136.62	1763.04	138.33	1772.06	145.20	1764.95	128.30	1776.59	139.40	1765.64	124.10	1773.36	126.95	1770.69
3/30/2021	133.30	1771.54	138.60	1766.58	133.70	1765.99	134.60	1765.06	138.20	1772.19	143.20	1766.95	127.75	1777.14	136.70	1768.34	122.60	1774.86	125.20	1772.44
4/19/2021	133.05	1771.79	137.42	1767.76	133.00	1766.69	133.49	1766.17	138.00	1772.39	142.60	1767.55	127.50	1777.39	135.75	1769.29	121.70	1775.76	124.35	1773.29
12/7/2021	133.40	1771.44	143.80	1761.38	135.30	1764.39	137.55	1762.11	138.10	1772.29	145.95	1764.20	128.15	1776.74	143.80	1761.24	124.20	1773.26	127.90	1769.74
4/18/2022	133.20	1771.64	137.55	1767.63	134.20	1765.49	134.55	1765.11	142.70	1767.69	142.45	1767.70	128.12	1776.77	135.90	1769.14	122.20	1775.26	124.75	1772.89
11/15/2022	133.90	1770.94	145.10	1760.08	136.96	1762.73	139.00	1760.66	N.M.	N.M.	147.12	1763.03	128.72	1776.17	141.43	1763.61	125.05	1772.41	114.62	1782.88
4/20/2023	133.40	1771.44	138.15	1767.03	133.90	1765.79	134.40	1765.26	N.M.	N.M.	143.12	1767.03	128.40	1776.49	136.64	1768.40	123.52	1773.94	N.M	N.M.
12/4/2023	134.25	1770.59	142.65	1762.53	137.53	1762.16	138.85	1760.81	139.15	1771.24	147.12	1763.03	129.42	1775.47	141.80	1763.24	125.20	1772.26	115.55	1781.95
4/10/2024	134.10	1770.74	142.45	1762.73	134.94	1764.75	137.45	1762.21	N.M.	N.M.	146.05	1764.10	129.05	1775.84	140.40	1764.64	N.M.	N.M.	N.M.	N.M.
11/21/2024	134.90	1769.94	144.50	1760.68	139.00	1760.69	140.25	1759.41	139.75	1770.64	148.65	1761.50	130.45	1774.44	142.40	1762.64	N.M.	N.M.	N.M.	N.M.
5/7/2025	134.86	1769.98	143.88	1761.30	137.00	1762.69	138.75	1760.91	N.M.	N.M.	147.00	1763.15	130.85	1774.04	144.58	1760.46	N.M.	N.M.	N.M.	N.M.
11/7/2025	135.20	1769.64	143.20	1761.98	139.43	1760.26	139.38	1760.28	140.15	1770.24	148.45	1761.70	130.90	1773.99	141.72	1763.32	127.50	1769.96	N.M.	N.M.

Notes:
TOC: Top of PVC well casing
N.M. = not measured
AMSL = above mean sea level
MW-15 was abandoned and replaced by MW-16S in 2022.
MW-3R and MW-6 did not have sufficient water for sampling during the fall 2024, spring 2025, and fall 2025 sampling events.

Table 4 - Appendix III Constituents in Groundwater

Groundwater Monitoring and Corrective Action Report

Whelan Energy Center - Public Power Generation Agency (PPGA) / Hastings Utilities

January 2026

Appendix III Constituents								
Constituent	Boron	Calcium	Chloride	Fluoride*	pH ^[1]	Sulfate	TDS	
Reporting Unit	mg/L	mg/L	mg/L	mg/L	S.U.	mg/L	mg/L	
MW-1	11/17/2016	1.0	41	31	0.28	6.15	165	510
	2/21/2017	1.2	39	31	0.28	6.68	166	506
	3/22/2017	1.2	38	31	0.29	6.8	175	436
	4/26/2017	1.4	42	31	0.29	6.69	175	412
	5/26/2017	1.3	38	32	0.28	6.7	184	412
	7/6/2017	1.4	37	32	0.29	6.49	170	510
	8/8/2017	1.3	36	34	0.29	6.51	191	504
	9/12/2017	1.5	40	34	0.30	6.76	179	480
	10/12/2017	1.4	38	32	0.28	6.50	158	492
	3/7/2018	1.18	33.8	32.1	<.500	6.79	165	322
	7/25/2018	1.14	38.1	28.9	<.500	6.14	182	432
	10/16/2018	1.39	37.1	27.9	<.500	6.51	155	400
	3/5/2019	1.16	43	27.8	0.382	6.75	160	404
	5/13/2019	1.06	44.6	33.6	0.549	6.31	203	476
	8/26/2019	1.35	38.7	29.5	<.500	6.11	182	634
	11/19/2019	1.14	32.2	26.7	0.445	6.94	152	354
	2/17/2020	1.13	30.4	24.8	0.259	5.74	143	364
	5/6/2020	1.35	36.2	26.7	0.587	5.34	158	390
	8/31/2020	1.32	30	27.6	0.724	6.86	140	342
	11/16/2020	0.969	28.2	24.8	0.374J	6.83	139	294
	4/19/2021	1.06	27.3	24.2	0.316J	6.94	149	344
	12/7/2021	1.19	35.7	29.2	0.663	6.72	169	342
	4/25/2022	1.23	34.9	28.3	<1.00	6.77	175	370
	11/16/2022	<1.00	38.5	26.5	0.488J	6.96	166	354
	4/20/2023	1.05	35.8	31.2	0.465J	6.70	161	364
	12/5/2023	0.936	31.0	29.0	0.447J	6.85	150	322
	4/8/2024	0.966	33.7	30.3	<1.00	6.70	155	382
	11/19/2024	1.12	29.7	26.5	0.549J	6.87	113	210
	5/6/2025	0.905	30.8	29.1	0.645	6.65	145	360
	11/7/2025	1.11	36.8	31.4	0.721	6.66	163	380
MW-2B ^[2]	12/21/2016	0.43	80	31	0.31	7.24	174	566
	1/23/2017	0.52	84	30	0.26	7.08	192	518
	2/21/2017	0.50	82	30	0.29	6.84	169	572
	3/23/2017	0.47	77	30	0.30	6.84	176	502
	4/26/2017	0.52	86	30	0.30	6.85	168	536
	5/26/2017	0.46	83	30	0.29	6.81	184	494
	6/27/2017	0.55	90	30	0.31	6.94	169	584
	8/8/2017	0.48	69	30	0.31	6.68	176	730
	9/12/2017	0.57	83	30	0.31	6.66	177	548
	10/11/2017	0.51	82	30	0.28	6.73	159	644
	3/7/2018	0.547	83.4	28.7	<.500	6.79	167	458
	7/25/2018	0.632	77.1	27.9	<.500	6.28	164	460
	10/16/2018	0.538	86.4	26.6	<.500	6.53	149	456
	3/5/2019	0.606	96.3	27.8	0.401	6.63	158	488
	5/13/2019	0.489	79.1	30.8	0.552	6.32	168	480
	8/26/2019	0.548	82.0	28.2	<.500	6.06	163	486
	11/19/2019	0.572	78.3	26.6	0.274	6.69	151	444
	2/17/2020	0.548	79.5	27.5	<.500	5.47	157	458
	5/6/2020	0.600	86.8	27.1	0.534	5.15	149	472
	11/18/2020	0.562	79.2	26.1	<0.500	6.95	153	474
	4/20/2021	0.542	69.2	25.2	<0.500	6.93	144	410
	12/7/2021	0.537	71.7	28.4	0.667	6.83	150	394
	4/25/2022	0.573	79.2	28.2	<.500	6.85	150	402
	11/14/2022	0.614	83.4	23.6	<.500	7.03	127	390
	4/21/2023	0.53	81.1	28.4	<1.00	6.86	136	424
	12/5/2023	0.585	79.1	29.7	<1.00	6.94	146	422
	4/8/2024	0.588	75.5	30.3	<1.00	6.89	140	452
	11/19/2024	0.510	81.4	28.9	<1.00	6.92	135	454
	5/6/2025	0.544	82.7	30.2	0.302	6.79	126	456
	11/7/2025	0.529	67.7	30.4	0.343	6.71	128	470

Table 4 - Appendix III Constituents in Groundwater

Groundwater Monitoring and Corrective Action Report

Whelan Energy Center - Public Power Generation Agency (PPGA) / Hastings Utilities

January 2026

Appendix III Constituents								
Constituent	Boron	Calcium	Chloride	Fluoride*	pH ^[1]	Sulfate	TDS	
Reporting Unit	mg/L	mg/L	mg/L	mg/L	S.U.	mg/L	mg/L	
MW-3R ⁽³⁾	11/16/2016	0.77	65	33	0.29	6.38	207	574
	12/20/2016	0.61	65	35	0.29	6.76	221	548
	1/23/2017	0.47	73	39	0.25	6.79	283	642
	2/21/2017	0.49	77	39	0.29	6.65	238	626
	3/22/2017	0.46	73	37	0.30	6.70	233	590
	4/26/2017	0.50	69	36	0.30	6.68	227	588
	5/26/2017	0.41	59	36	0.28	6.58	264	652
	6/27/2017	0.45	67	36	0.29	6.68	214	634
	10/11/2017	0.42	64	34	0.28	6.55	198	724
	3/7/2018	0.471	67.1	36.2	<.500	6.62	218	484
	7/25/2018	0.594	48.5	29	<.500	6.51	174	430
	10/16/2018	0.601	60	30.9	<.500	6.53	186	454
	3/7/2019	0.702	74.1	32.6	0.299	6.55	233	532
	5/13/2019	0.616	71.1	37.0	0.519	6.46	232	540
	8/26/2019	0.667	75.4	35.1	<.500	5.88	213	550
	11/18/2019	0.704	63.3	31.7	0.481	6.58	191	484
	2/17/2020	0.811	81.2	33.4	<.500	5.69	240	566
	5/6/2020	0.971	90.8	34.8	0.401	5.53	278	622
	8/31/2020	0.951	79.3	22.8	0.374J	6.68	265	568
	11/16/2020	0.925	64.4	33.1	<0.500	6.58	237	522
	4/19/2021	0.847	60.3	34.2	<0.500	6.95	240	514
	12/7/2021	0.616	67.2	31.9	0.498J	6.62	201	418
	4/25/2022	0.685	64.9	29.9	<.500	6.67	221	470
	11/16/2022	<1.00	74	29.7	<.500	6.73	208	478
	4/21/2023	0.674	70	31.7	<1.00	6.62	201	460
	12/7/2023	0.687	62.1	31.8	<1.00	6.57	214	484
	4/10/2024	0.807	57.6	30.5	<1.00	6.51	190	<50.0
	11/15/2024	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
	5/6/2025	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
	11/7/2025	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
MW-4B	11/16/2016	0.48	47	31	0.28	6.58	162	424
	12/20/2016	0.51	43	31	0.25	6.52	170	432
	1/23/2017	0.62	46	31	0.20	6.58	180	620
	2/21/2017	0.59	41	31	0.24	6.38	166	480
	3/22/2017	0.72	40	30	0.24	6.49	162	470
	4/26/2017	0.69	35	30	0.26	6.40	155	456
	5/26/2017	0.66	40	30	0.25	6.44	167	456
	6/27/2017	0.64	41	29	0.26	6.49	147	492
	11/1/2017	0.52	51	29	0.22	6.37	170	490
	3/7/2018	0.518	41.5	29.4	<.500	6.4	169	286
	7/25/2018	0.58	41.4	28.1	<.500	6.52	176	386
	10/16/2018	0.532	48.8	28.36	<.500	6.55	192	424
	3/7/2019	0.929	51.4	27.6	0.367	6.65	167	406
	5/15/2019	0.809	40.9	30.1	0.579	6.54	166	376
	8/27/2019	0.66	42.7	28.2	<.500	6.15	186	444
	11/18/2019	0.693	52.1	25.8	<.500	6.59	160	424
	2/17/2020	0.947	49.9	27.6	<.500	5.77	179	430
	5/6/2020	0.990	45.3	26.7	0.665	5.24	156	396
	8/31/2020	0.709	39.9	25.8	0.677	6.78	143	386
	11/16/2020	1.05	37.6	24.7	0.609	6.79	155	368
	4/19/2021	0.706	27.1	24.1	0.892	6.78	138	312
	12/7/2021	0.687	54.7	26.2	0.732	6.54	227	384
	4/25/2022	0.796	76.1	28.3	<.500	6.27	343	606
	11/14/2022	0.896	47.6	23.1	<.500	6.69	142	340
	4/20/2023	0.764	51.3	27.8	<1.00	6.55	192	388
	12/5/2023	0.657	48.4	28.2	<1.00	6.67	177	352
	4/8/2024	0.840	57.6	29.4	<1.00	6.58	230	460
	11/19/2024	0.739	54.2	27.5	<1.00	6.52	210	524
	5/6/2025	0.735	45.7	28.9	0.377	6.45	215	460
	11/10/2025	0.743	42.3	28.9	0.577	6.46	189	396

Table 4 - Appendix III Constituents in Groundwater

Groundwater Monitoring and Corrective Action Report

Whelan Energy Center - Public Power Generation Agency (PPGA) / Hastings Utilities

January 2026

Appendix III Constituents								
Constituent	Boron	Calcium	Chloride	Fluoride*	pH ^[1]	Sulfate	TDS	
Reporting Unit	mg/L	mg/L	mg/L	mg/L	S.U.	mg/L	mg/L	
MW-5B	11/16/2016	1.2	39	30	1.1	6.35	157	428
	12/20/2016	1.2	37	30	1.2	7.11	33.5	492
	1/23/2017	1.3	33	30	1.2	7.26	174	412
	2/21/2017	1.3	36	30	1.3	6.91	159	480
	3/22/2017	1.2	35	30	1.3	7.03	167	482
	4/26/2017	1.3	35	30	1.3	7.07	164	438
	5/26/2017	1.1	35	30	1.3	6.44	173	460
	6/27/2017	1.1	43	29	1.2	6.95	164	492
	10/11/2017	1.1	72	30	0.86	6.58	132	662
	3/7/2018	1.15	63.1	29.5	1.34	6.65	182	512
	7/25/2018	1.89	55.3	26.7	0.896	6.55	172	436
	10/16/2018	1.23	78.3	26.1	0.714	6.56	178	542
	3/5/2019	0.333	24.4	29.3	0.672	6.84	164	382
	5/13/2019	0.759	39.3	29.1	1.50	6.49	167	412
	8/28/2019	0.674	38.2	26.8	1.4	6.94	151	448
	11/18/2019	0.783	49	25.5	0.984	6.18	174	458
	2/17/2020	1.91	52.7	24.7	0.597	5.30	209	456
	5/6/2020	1.54	48.2	20.0	1.41	5.86	172	440
	8/31/2020	1.17	39.6	22	1.26	7.25	136	340
	11/16/2020	1.33	34.6	23.4	1.1	7.30	135	372
	4/19/2021	1.03	32.7	21.1	1.11	7.17	139	346
	12/7/2021	1.07	47.5	25.2	1.52	7.16	184	326
	4/25/2022	1.12	43.5	26.5	0.825J	7.07	182	358
	11/14/2022	1.54	42.0	18.4	0.451J	7.19	89.5	286
	4/20/2023	1.62	37.3	24.7	1.16	7.19	114	322
	12/4/2023	1.22	25.5	24.4	1.28	7.29	78.7	254
	4/8/2024	1.25	52.7	25.0	1.1	7.14	175	446
	11/22/2024	1.18	38.7	24.2	1.44	7.31	122	364
	5/6/2025	1.02	34.5	25.1	1.31	7.14	115	374
	11/7/2025	1.32	32.9	26.7	1.04	7.03	131	344
MW-6 ^[3]	11/16/2016	0.55	60	31	0.36	6.24	157	470
	12/20/2016	0.6	59	32	0.35	6.88	172	452
	1/23/2017	0.75	64	33	0.3	7.04	175	472
	2/21/2017	0.72	58	32	0.34	6.86	158	478
	3/22/2017	0.61	57	32	0.34	6.91	169	566
	4/26/2017	0.6	65	32	0.35	6.84	163	618
	5/26/2017	0.5	58	31	0.35	6.87	180	444
	6/27/2017	0.47	67	31	0.36	6.91	148	500
	10/11/2017	0.55	79	32	0.30	6.71	169	602
	3/7/2018	1.12	61.3	32.8	<.500	7.02	167	442
	7/25/2018	0.738	61.7	31.1	<.500	6.74	180	474
	10/16/2018	0.501	68.8	30.9	<.500	6.81	152	466
	3/5/2019	0.333	24.4	29.3	0.672	6.84	164	452
	5/13/2019	0.459	73.1	36.1	0.622	6.54	182	496
	8/26/2019	0.562	73.9	30.5	0.33	6.22	166	500
	11/18/2019	0.629	68.9	29.5	0.547	6.39	157	420
	2/17/2020	0.901	53.0	25.8	<.500	6.14	149	388
	5/6/2020	1.10	55.7	27.5	0.635	6.14	146	404
	8/31/2020	0.618	45.7	25.6	0.639	6.94	174	376
	11/16/2020	0.761	51.2	26.5	0.416J	6.82	148	416
	4/19/2021	0.855	46.3	27.4	0.433J	6.86	145	370
	12/7/2021	1.05	52.9	28	0.779	6.74	164	312
	4/18/2022	0.634	54.3	27.2	<1.00	6.61	134	348
	11/14/2022	0.577	59.0	23.0	<0.500	6.99	123	330
	4/20/2023	0.711	54	27.2	0.403J	6.84	137	352
	12/4/2023	0.705	55.0	30.3	0.400J	7.15	151	366
	4/8/2024	0.787	53.9	32.3	0.485J	7.15	143	376
	11/19/2024	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
	5/7/2025	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
	11/7/2025	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.

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Whelan Energy Center - Public Power Generation Agency (PPGA) / Hastings Utilities

January 2026

Appendix III Constituents								
Constituent	Boron	Calcium	Chloride	Fluoride*	pH ^[1]	Sulfate	TDS	
Reporting Unit	mg/L	mg/L	mg/L	mg/L	S.U.	mg/L	mg/L	
MW-7	11/16/2016	1.0	43	30	0.38	6.51	182	494
	12/20/2016	1.1	56	32	0.36	6.90	239	536
	1/23/2017	1.3	82	33	0.27	6.77	349	688
	2/21/2017	1.2	71	33	0.33	6.62	277	636
	3/22/2017	1.1	62	32	0.36	6.64	273	656
	4/26/2017	1.1	58	32	0.38	6.59	232	552
	5/26/2017	0.95	59	33	0.37	6.56	267	526
	6/27/2017	0.99	79	35	0.34	6.60	299	696
	10/11/2017	0.97	60	34	0.34	6.42	215	664
	3/7/2018	1.13	43	67.4	0.604	6.61	369	384
	7/25/2018	1.4	39.3	30.6	<.500	6.44	181	438
	10/16/2018	0.957	39	28.3	<.500	6.51	161	426
	3/5/2019	0.914	41	29.8	<.500	6.8	179	420
	5/13/2019	1.56	41.6	33.3	0.852	6.34	195	454
	8/26/2019	1.09	42.1	29.8	0.254	5.85	185	440
	11/18/2019	1.16	52.9	38.7	<.500	6.62	216	496
	2/17/2020	1.35	54.9	32.7	0.289	5.59	256	528
	5/6/2020	1.47	39.5	27.2	0.517	5.17	145	450
	8/31/2020	1.02	31	26.9	0.758	6.84	141	344
	11/16/2020	0.825	31	26.4	0.658	6.75	149	362
	4/20/2021	1.08	28.1	24.5	0.448J	6.83	145	320
	12/7/2021	1.31	79.7	47.5	0.67	6.52	348	608
	4/25/2022	1.33	109	38.7	0.371J	6.44	457	814
	11/14/2022	0.619	47.6	24.4	<.500	6.77	157	356
	4/20/2023	0.942	44.7	28.9	0.630J	6.64	153	364
	12/5/2023	0.813	48.1	30.3	0.649J	6.79	172	364
	4/8/2024	0.794	42.5	29.8	0.62J	6.67	148	362
	11/21/2024	1.1	42.8	27.4	0.691J	6.76	149	346
MW-8 ^[3]	5/6/2025	0.838	43.5	29.5	0.739	6.65	153	386
	11/7/2025	0.735	41.5	28.7	0.761	6.67	148	380
	11/16/2016	1.1	40	31	0.63	6.5	157	496
	12/20/2016	1.1	40	32	0.63	7.70	185	416
	1/23/2017	1.3	41	32	0.58	7.50	175	402
	2/21/2017	1.3	45	33	0.64	7.26	180	434
	3/22/2017	1.2	41	33	0.69	7.19	181	472
	4/26/2017	1.3	45	33	0.76	7.23	189	442
	5/26/2017	1.2	60	35	0.75	7.14	272	566
	6/27/2017	1.3	68	35	0.77	7.21	247	594
	10/11/2017	1	65	33	0.81	7.05	216	600
	3/7/2018	1.69	52.8	30.1	1.12	6.96	168	416
	7/26/2018	1.89	38.6	26.47	0.969	6.53	158	398
	10/16/2018	1.5	41.3	27.1	0.724	6.53	160	400
	3/5/2019	1.49	46.6	27.1	1.11	6.77	188	450
	5/13/2019	1.13	35.7	31.0	1.36	6.53	174	418
	8/26/2019	0.975	32	27.3	0.888	6.37	156	418
	11/18/2019	1.04	58.5	32.2	1.08	6.87	265	506
	2/17/2020	1.05	32.4	26.0	0.782	5.80	156	374
	5/7/2020	1.22	32.3	26.3	1.36	6.57	140	348
	8/31/2020	0.785	29.3	23.3	1.22	7.32	120	342
	11/16/2020	0.879	32.1	25.1	0.886	7.25	154	380
	4/19/2021	1.21	32.6	24.5	1.01	7.33	172	368
	12/7/2021	1.24	32.8	34.8	3.17	7.26	156	316
	4/25/2022	1.79	26.9	23.3	0.947	7.21	136	312
	11/14/2022	1.27	26	20.5	0.281J	7.37	109	280
	4/20/2023	1.19	35.2	26.2	0.949J	7.12	140	326
	12/5/2023	0.916	42.1	29.5	0.782J	7.20	165	344
	4/8/2024	1.01	41.5	25.5	0.775J	7.09	150	378
	11/21/2024	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
	5/6/2025	0.941	39	30.5	1.09	7.05	190	428
	11/7/2025	1.11	30.2	26.9	1.24	7.06	152	364

Table 4 - Appendix III Constituents in Groundwater

Groundwater Monitoring and Corrective Action Report

Whelan Energy Center - Public Power Generation Agency (PPGA) / Hastings Utilities

January 2026

Appendix III Constituents								
Constituent	Boron	Calcium	Chloride	Fluoride*	pH ^[1]	Sulfate	TDS	
Reporting Unit	mg/L	mg/L	mg/L	mg/L	S.U.	mg/L	mg/L	
MW-9	11/16/2016	0.83	39	28	1.0	6.67	154	376
	12/20/2016	0.74	42	29	0.97	6.89	177	414
	1/23/2017	0.87	48	29	0.87	7.19	166	412
	2/21/2017	0.73	43	30	0.91	7.02	154	444
	3/22/2017	0.83	45	30	0.91	7.08	171	480
	4/26/2017	1.0	43	30	0.9	7.04	163	400
	5/26/2017	0.98	44	30	0.87	6.93	175	396
	6/27/2017	0.89	46	30	0.85	7.03	155	496
	10/11/2017	1.7	45	29	0.59	6.85	139	496
	3/7/2018	0.365	42.6	36.4	0.639	6.95	215	418
	7/25/2018	0.816	35.4	26.5	0.472	6.47	152	344
	10/16/2018	1.19	33.1	26.9	0.618	6.59	126	330
	3/5/2019	1.07	37.7	26.7	1.33	6.94	138	352
	5/13/2019	0.862	32.9	29.4	1.56	6.58	144	378
	8/26/2019	0.957	30.4	25.5	0.956	6.21	133	364
	11/18/2019	1.55	33.4	23.6	1.08	6.16	119	276
	2/17/2020	0.968	33.9	25.9	0.798	6.01	132	338
	5/6/2020	0.750	33.4	25.4	0.992	5.35	126	328
	8/31/2020	1.54	36	24.7	0.813	7.13	125	312
	11/16/2020	1.37	27.2	23.5	1.14	7.14	121	332
	4/19/2021	0.748	28	23.7	0.717	7.19	124	280
	12/7/2021	1.36	40.5	26	1.02	7.09	138	294
	4/25/2022	0.622	38.2	28.5	<1.00	6.96	133	312
	11/14/2022	1.21	34.6	22.9	<0.500	7.17	125	270
	4/20/2023	0.468	35.7	26.9	0.753J	7.00	138	306
	12/4/2023	1.40	25.8	27.0	1.39	7.19	99.1	230
	4/8/2024	1.49	33.5	30.0	1.35	7.03	134	330
	11/22/2024	0.986	39.1	26.4	1.25	7.06	139	340
	5/7/2025	0.876	40.5	28.2	0.96	7.01	132	368
	11/7/2025	0.782	35.1	28.4	1.06	6.95	142	354

Notes:

^[1] During the spring 2020 semiannual sampling event, the pH meter did not calibrate within range, and therefore the pH values reported for the February 17th, 2020 and May 6th - 7th, 2020 sampling events were likely inaccurate. The values were marked as outliers for the fall 2020 sampling event and will not be used in future analysis. The meter was repaired after the spring 2020 sampling event.

^[2] During the August/September 2020 sampling event, the pump stopped working and therefore a sample was not collected.

^[3] N.S. = Not Sampled. A sample was not collected from MW-8 during the fall 2024 sampling event because it was inaccessible due to active construction in the area. Samples were not collected from MW-3R and MW-6 during the fall 2024, spring 2025, and fall 2025 sampling events because insufficient water was

* Fluoride is listed in both Appendix III and Appendix IV of the CCR Final Rule (40 CFR Part 257).

< For the period of November 2016 through October 2019, the symbol indicates analyte not detected above the reporting limit, which is the value shown following the "<" symbol. Starting in January 2020, the symbol indicates analyte not detected above the method detection limit, which is the value shown following the "<" symbol.

"J" data qualifier indicates the result is less than the laboratory reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value.

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Table 5 - Appendix IV Constituents in Groundwater
Groundwater Monitoring and Corrective Action Report
Whelan Energy Center - Public Power Generation Agency (PPGA) / HastingsUtilities
January 2026

Constituent ReportingUnit		Appendix IV Constituents														
		Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Fluoride*	Lead	Lithium	Mercury	Molybdenum	Combined Radium (Ra 226 + Ra 228)	Selenium	Thallium
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pCi/L	mg/L	mg/L
MW-1	11/17/2016 ^[1]	< 0.001	0.00341	0.0868	< 0.001	< 0.0005	0.0344	< 0.0005	0.28	< 0.0005	< 0.05	< 0.0002	0.0395	1.19	0.0367	< 0.001
	2/21/2017	< 0.001	0.00349	0.0826	< 0.001	< 0.0005	0.0344	< 0.0005	0.28	< 0.0005	< 0.05	< 0.0002	0.0387	1.22	0.0445	< 0.001
	3/22/2017	< 0.001	0.00314	0.0789	< 0.001	< 0.0005	0.0315	< 0.0005	0.29	< 0.0005	0.0146	< 0.0002	0.038	2.49	0.0411	< 0.001
	4/26/2017	< 0.001	0.00361	0.0812	< 0.001	< 0.0005	0.0336	< 0.0005	0.29	< 0.0005	0.0122	< 0.0002	0.0362	2.15	0.038	< 0.001
	5/26/2017	< 0.001	0.00338	0.0739	< 0.001	< 0.0005	0.0329	< 0.0005	0.28	< 0.0005	0.0154	< 0.0002	0.034	0.604	0.0377	< 0.001
	7/6/2017	< 0.001	0.00311	0.0788	< 0.001	< 0.0005	0.029	< 0.0005	0.29	< 0.0005	0.0126	< 0.0002	0.0337	1.16	0.042	< 0.001
	8/8/2017	< 0.001	0.00289	0.0806	< 0.001	< 0.0005	0.0259	< 0.0005	0.29	< 0.0005	0.0117	< 0.0002	0.031	1.02	0.0395	< 0.001
	9/12/2017	< 0.001	0.00288	0.0713	< 0.001	< 0.0005	0.0248	< 0.0005	0.30	0.0077	0.0117	< 0.0002	0.0353	1.41	0.0437	< 0.001
	10/12/2017	< 0.001	0.00362	0.0754	< 0.001	< 0.0005	0.025	< 0.0005	0.28	< 0.0005	0.0119	< 0.0002	0.0369	2.12	0.0369	< 0.001
	3/7/2018	0.000207J	0.00398	0.0699	<0.00100	< 0.000500	0.0306	0.000101J	<0.500	< 0.000500	0.0111	< 0.000200	0.035	0.842	0.0439	< 0.00100
	7/25/2018	< 0.00100	0.00399	0.0821	<0.00100	< 0.000500	0.033	0.00018J	<0.500	< 0.000500	0.0109	< 0.000200	0.0284	0.842	0.13	< 0.00100
	10/16/2018	< 0.00100	0.00444	0.0754	<0.00100	< 0.000500	0.033	0.000129J	<0.500	< 0.000500	0.0116	< 0.000200	0.0299	0.477	0.0894	< 0.00100
	3/5/2019	< 0.00100	0.00522	0.0973	<0.00100	< 0.000500	0.0413	0.000149J	0.382J	< 0.000500	0.0142	< 0.000200	0.0402	0.949	0.102	< 0.00100
	5/13/2019	<0.00300	0.00413	0.102	<0.00100	< 0.000500	0.0365	<0.00100	0.549	< 0.000500	0.0123	< 0.000200	0.0337	0.838	0.0943	<0.00200
	8/26/2019	< 0.00100	0.00409	0.0843	<0.00100	<0.000100	0.0311	0.000105J	<0.500	< 0.000500	0.0125	< 0.000200	0.0422	N.S.	0.0587	< 0.00100
	11/19/2019	< 0.00100	0.00447	0.0673	<0.00100	<0.000100	0.0315	0.000102J	0.445J	< 0.000500	0.00881J	< 0.000200	0.0386	1.53	0.0394	< 0.00100
	2/17/2020	<0.00100	0.00473	0.0640	<0.00100	<0.000100	0.0303	0.000129J	0.259J	<0.000500	0.0111	< 0.000200	0.0420	1.32	0.0448	<0.00100
	5/6/2020	<0.00100	0.00459	0.0770	<0.00100	<0.000100	0.0327	0.000119J	0.587	<0.000500	0.0107	<0.000200	0.0441	N.S. ^[3]	0.0668	<0.00100
	8/31/2020	<0.00100	0.00414	0.0655	<0.00100	<0.000100	0.0296	0.0000990J	0.724	<0.000500	0.0104	<0.000200	0.0436	N.S.	0.0404	<0.00100
	11/16/2020	<0.00100	0.00409	0.0627	<0.00100	<0.000100	0.0329	<0.000500	0.374J	<0.000500	0.0101	<0.000200	0.0395	0.269U	0.0297	<0.00100
	4/19/2021	<0.00200	0.00367	0.0726	<0.00100	<0.000100	0.0323	0.0000930J	0.316J	<0.000500	0.00997J	<0.000200	0.0281	0.647	0.0385	<0.00100
	12/7/2021	<0.00200	0.00298	0.0797	<0.00100	<0.000100	0.0324	<0.000500	0.663	<0.000500	0.00981J	<0.000200	0.0432	1.1	0.072	<0.00100
	4/25/2022	<0.00200	0.00371	0.0832	<0.00100	<0.000100	0.0207	<0.000500	<1.00	<0.000500	0.0107	<0.000200	0.037	N.S. ^[4]	0.0636	<0.00100
	11/16/2022	<0.00200	0.00452	0.0886	<0.00100	<0.000100	0.0262	<0.000500	0.488J	<0.000500	0.00907J	<0.000200	0.0280	1.06	0.0454	<0.00100
	4/20/2023	<0.00200	0.0043	0.0833	<0.00100	<0.000200	0.038	0.000206J	0.465J	<0.000500	0.014	<0.000200	0.035	0.830	0.0602	<0.00100
	12/5/2023	<0.00200	0.00449	0.0718	<0.00100	<0.000200	0.0331	<0.000500	0.447J	<0.000500	0.0102	<0.000200	0.0222	2.10	0.0413	<0.00100
	4/8/2024	<0.00200	0.00402	0.0809	<0.00100	<0.000200	0.0304	<0.000500	<1.00	<0.000500	0.0117	<0.000200	0.0196	1.55	0.0527	<0.00100
	11/19/2024	<0.00200	0.00432	0.0722	<0.00100	<0.000200	0.0268	<0.000500	0.549J	<0.000500	0.00951J	<0.000200	0.0483	1.14	0.0629	<0.00100
	5/6/2025	<0.00100	0.00365	0.0750	<0.000330	<0.000100	0.0422	<0.000170	0.645	<0.000330	0.00949J	<0.000110	0.0286	0.806	0.0443	<0.000570
	11/7/2025	<0.00100	0.00390	0.0794	<0.000330	<0.000100	0.0365	<0.000170	0.721	<0.000330	0.0102	<0.000110	0.0236	1.34	0.0337	<0.000570
MW-2B ^[2,4]	12/21/2016	< 0.001	0.00213	0.162	< 0.001	< 0.0005	0.0178	< 0.0005	0.31	< 0.0005	< 0.05	< 0.0002	0.0043	3.74U	0.0325	< 0.001
	1/23/2017	< 0.001	0.00204	0.159	< 0.001	< 0.0005	0.0144	< 0.0005	0.26	< 0.0005	< 0.05	< 0.0002	0.00329	1.56	0.0316	< 0.001
	2/21/2017	< 0.001	0.00224	0.172	< 0.001	< 0.0005	0.0154	< 0.0005	0.29	< 0.0005	< 0.05	< 0.0002	0.00302	1.25	0.036	< 0.001
	3/23/2017	< 0.001	< 0.002	0.161	< 0.001	< 0.0005	0.0154	< 0.0005	0.30	< 0.0005	0.0142	< 0.0002	0.00325	2.26U	0.0335	< 0.001
	4/26/2017	< 0.001	0.00235	0.183	< 0.001	< 0.0005	0.018	< 0.0005	0.30	< 0.0005	0.014	< 0.0002	0.00312	0.848	0.0351	< 0.001
	5/26/2017	< 0.001	< 0.002	0.165	< 0.001	< 0.0005	0.015	< 0.0005	0.29	< 0.0005	0.0151	< 0.0002	0.00249	1.12	0.0308	< 0.001
	6/27/2017	< 0.001	< 0.002	0.167	< 0.001	< 0.0005	0.0173	< 0.0005	0.31	< 0.0005	0.0143	< 0.0002	0.00277	1.71	0.0347	< 0.001
	8/8/2017	< 0.001	< 0.002	0.159	< 0.001	< 0.0005	0.0175	< 0.0005	0.31	< 0.0005	0.0143	< 0.0002	0.00254	1.32	0.0358	< 0.001
	9/12/2017	< 0.001	< 0.002	0.142	< 0.001	< 0.0005	0.153	< 0.0005	0.31	< 0.0005	< 0.01	< 0.0002	0.00258	1.67	0.0373	< 0.001
	10/11/2017	< 0.001	0.00211	0.174	< 0.001	< 0.0005	0.0154	< 0.0005	0.28	< 0.0005	0.0142	< 0.0002	0.00248	2.06	0.0324	< 0.001
	3/7/2018	0.000202J	0.00224	0.176	<0.00100	< 0.000500	0.0175	0.000075J	<0.500	< 0.000500	0.0141	< 0.000200	0.0026	1.38	0.0358	< 0.00100
	7/25/2019	< 0.00100	0.00216	0.169	<0.00100	< 0.000500	0.018	0.000067J	<0.500	< 0.000500	0.0127	< 0.000200	0.00287	1.26	0.0366	< 0.00100
	10/16/2019	< 0.00100	0.00245	0.19	<0.00100	< 0.000500	0.0174	0.000374J	<0.500	0.000934	0.0156	< 0.000200	0.00245	1.24	0.0324	< 0.00100
	3/5/2019	< 0.00100	0.00265	0.22	<0.00100	< 0.000500	0.0205	< 0.000500	0.401J	< 0.000500	0.0173	< 0.000200	0.00313	1.59	0.0419	< 0.00100
	5/13/2019	<0.00300	0.00235	0.181	<0.00100	< 0.000500	0.0163	<0.00100	0.552	< 0.000500	0.013	< 0.000200	0.00264J	0.994	0.0382	<0.00200
	8/26/2019	< 0.00100	0.0023	0.174	<0.00100	< 0.000100	0.0165	< 0.000500	<0.500	< 0.000500	0.0146	< 0.000200	0.00251	N.S.	0.0362	< 0.00100
	11/19/2019	< 0.00100	0.00211	0.167	<0.00100	< 0.000100	0.0157	< 0.000500	0.274J	< 0.000500	0.0128	< 0.000200	0.00248	1.23	0.0339	< 0.00100

Table 5 - Appendix IV Constituents in Groundwater
Groundwater Monitoring and Corrective Action Report
Whelan Energy Center - Public Power Generation Agency (PPGA) / HastingsUtilities
January 2026

Constituent ReportingUnit		Appendix IV Constituents														
		Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Fluoride*	Lead	Lithium	Mercury	Molybdenum	Combined Radium (Ra 226 + Ra 228)	Selenium	Thallium
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pCi/L	mg/L	mg/L
MW-2B ^[2,4]	2/17/2020	<0.00100	0.00217	0.184	<0.00100	<0.000100	0.0170	0.000100J	<0.500	<0.000500	0.0161	<0.000200	0.00249	2.12	0.0369	<0.00100
	5/6/2020	<0.00100	0.00237	0.193	<0.00100	<0.000100	0.0183	0.000347J	0.534	<0.000500	0.0145	<0.000200	0.00356	N.S. ^[3]	0.0363	<0.00100
	11/18/2020	<0.00100	0.00203	0.178	<0.00100	<0.0001000	0.0172	<0.000500	<0.500	<0.000500	0.0144	<0.000200	0.00267	0.982	0.0372	<0.00100
	4/20/2021	<0.00200	0.00204	0.193	<0.00100	<0.000100	0.0171	<0.000500	<0.500	<0.000500	0.0138	<0.000200	0.00265	0.768	0.0339	<0.00100
	12/7/2021	<0.00200	0.00174J	0.162	<0.00100	<0.000100	0.0178	<0.000500	0.667	<0.000500	0.0132	<0.000200	0.003	1.7	0.0359	<0.00100
	4/25/2022	<0.00200	0.00197J	0.182	<0.00100	<0.000100	0.0182	<0.000500	<0.500	<0.000500	0.0156	<0.000200	0.00216	1.1	0.0392	<0.00100
	11/14/2022	<0.00200	0.00208	0.192	<0.00100	<0.000100	0.0169	<0.000500	<0.500	<0.000500	0.0153	<0.000200	0.00210	N.S.	0.0388	<0.00100
	4/20/2023	<0.00200	0.00205	0.182	<0.00100	<0.000200	0.0179	<0.000500	<1.00	<0.000500	0.0162	<0.000200	0.0024	0.466	0.0369	<0.00100
	12/5/2023	<0.00200	0.00225	0.176	<0.00100	<0.000200	0.0178	<0.000500	<1.00	<0.000500	0.0156	<0.000200	0.00242	2.96	0.0372	<0.00100
	4/8/2024	<0.00200	0.00213	0.179	<0.00100	<0.000200	0.0161	<0.000500	<1.00	<0.000500	0.017	<0.000200	0.00209	2.28	0.0356	<0.00100
	11/19/2024	<0.00200	0.00206	0.198	<0.00100	<0.000200	0.0162	<0.000500	<1.00	<0.000500	0.0145	<0.000200	0.00209	1.76	0.0334	<0.00100
	5/6/2025	<0.00100	0.00227	0.189	<0.000330	<0.000100	0.0163	<0.000170	0.302	<0.000330	0.0149	<0.000110	0.00270	2.10	0.0354	<0.000570
	11/7/2025	0.00198J	0.00222	0.157	<0.000330	<0.000100	0.0138	<0.000170	0.343	<0.000330	0.0136	<0.000110	0.00224	2.30	0.0318	<0.000570
MW-3R ^[6]	11/16/2016 ^[1]	< 0.001	0.00246	0.0857	< 0.001	< 0.0005	0.00941	< 0.0005	0.29	< 0.0005	< 0.05	< 0.0002	0.00414	0.791	0.0421	< 0.001
	12/20/2016	< 0.001	0.00285	0.0927	< 0.001	< 0.0005	0.00785	< 0.0005	0.29	< 0.0005	< 0.05	< 0.0002	0.00412	1.35	0.0367	< 0.001
	1/23/2017	< 0.001	0.0024	0.102	< 0.001	< 0.0005	0.00553	< 0.0005	0.25	< 0.0005	< 0.05	< 0.0002	0.00294	1.35	0.0348	< 0.001
	2/21/2017	< 0.001	0.00261	0.0993	< 0.001	< 0.0005	0.00526	< 0.0005	0.29	< 0.0005	< 0.05	< 0.0002	0.0031	1.31U	0.0339	< 0.001
	3/22/2017	< 0.001	0.00226	0.0906	< 0.001	< 0.0005	< 0.005	< 0.0005	0.3	< 0.0005	0.0274	< 0.0002	0.00335	1.42	0.0319	< 0.001
	4/26/2017	< 0.001	0.00276	0.087	< 0.001	< 0.0005	< 0.005	< 0.0005	0.3	< 0.0005	0.0258	< 0.0002	0.00365	0.44	0.032	< 0.001
	5/26/2017	< 0.001	0.00238	0.0757	< 0.001	< 0.0005	< 0.005	< 0.0005	0.28	< 0.0005	0.0292	< 0.0002	0.00302	1.21	0.0299	< 0.001
	6/27/2017	< 0.001	0.00224	0.0814	< 0.001	< 0.0005	0.00578	< 0.0005	0.29	< 0.0005	0.03	< 0.0002	0.00361	1.28	0.0339	< 0.001
	10/11/2017	< 0.001	0.0026	0.756	< 0.001	< 0.0005	0.00876	< 0.0005	0.28	< 0.0005	< 0.01	< 0.0002	0.00271	2.15	0.0333	< 0.001
	3/7/2018	0.000192J	0.00231	0.0672	<0.00100	<0.000500	0.00877	0.000064J	<0.500	< 0.000500	0.0262	< 0.000200	0.00251	0.843	0.0384	< 0.00100
	7/25/2018	< 0.00100	0.00205	0.0611	<0.00100	<0.000500	0.00675	<0.000500	<0.500	< 0.000500	0.0258	< 0.000200	0.00322	0.637	0.0255	< 0.00100
	10/16/2018	< 0.00100	0.00225	0.0709	<0.00100	<0.000500	0.00463J	<0.000500	<0.500	< 0.000500	0.0299	< 0.000200	0.00327	0.519	0.0277	< 0.00100
	3/7/2019	< 0.00100	0.00204	0.0784	<0.00100	<0.000500	0.0126	0.000279	0.299J	< 0.000500	0.0302	< 0.000200	0.00476	1.55	0.0607	< 0.00100
	5/13/2019	<0.00300	0.00231	0.0802	<0.00100	<0.000500	0.0125	<0.00100	0.519	< 0.000500	0.0274	< 0.000200	0.00566	0.921	0.0590	<0.00200
	8/26/2019	< 0.00100	0.00246	0.079	<0.00100	< 0.000100	0.00392J	< 0.000500	<0.500	< 0.000500	0.0302	< 0.000200	0.00613	N.S.	0.035	< 0.00100
	11/18/2019	< 0.00100	0.00259	0.0651	<0.00100	< 0.000100	0.00385J	< 0.000500	0.481J	< 0.000500	0.0266	< 0.000200	0.00553	1.04	0.038	< 0.00100
	2/17/2020	<0.00100	0.00220	0.0874	<0.00100	<0.000100	0.00355J	0.000108J	<0.500	<0.000500	0.0327	<0.000200	0.00401	1.49	0.0595	<0.00100
	5/6/2020	<0.00100	0.00239	0.0905	<0.00100	<0.000100	0.01	0.000188J	0.401J	<0.000500	0.0306	<0.000200	0.00593	N.S. ^[3]	0.0606	<0.00100
	8/31/2020	<0.00100	0.00217	0.0755	<0.00100	<0.000100	0.0125	0.0003J	0.374J	<0.0005000	0.0322	<0.000200	0.00673	N.S.	0.0398	<0.001000
	11/16/2020	<0.00100	0.00198J	0.0611	<0.00100	<0.0001	0.0237	0.000668	<0.500	<0.000500	0.0314	<0.000200	0.0107	0.427U	0.0351	<0.00100
	4/19/2021	<0.00200	0.00234	0.0585	<0.00100	<0.000100	0.0233	0.000806	<0.500	<0.000500	0.0271	<0.000200	0.0122	0.184U	0.0382	<0.00100
	12/7/2021	<0.00200	0.00190J	0.0648	<0.00100	<0.000100	0.0353	0.000873	0.498J	<0.000500	0.0248	<0.000200	0.0114	1.27	0.0495	<0.00100
	4/25/2022	<0.00200	0.00237	0.0598	<0.00100	<0.000100	0.0341	0.00221	<0.500	<0.000500	0.0229	<0.000200	0.0194	0.727	0.0473	<0.00100
	11/16/2022	<0.00200	0.00293	0.0705	<0.00100	<0.000100	0.00515	< 0.000500	<0.500	<0.000500	0.0293	<0.000200	0.00687	N.S.	0.0548	<0.00100
	4/21/2023	<0.00200	0.00244	0.0639	<0.00100	<0.000200	0.00480J	<0.000500	<1.00	<0.000500	0.0302	<0.000200	0.00527	0.595U	0.0408	<0.00100
	12/7/2023	<0.00200	0.00252	0.0642	<0.00100	<0.000200	0.00334J	<0.000500	<1.00	<0.000500	0.0361	<0.000200	0.00820	2.09	0.0216	<0.00100
	4/10/2024	<0.00200	0.00254	0.0558	<0.00100	<0.000200	0.00653	<0.000500	<1.00	<0.000500	0.0322	<0.000200	0.00804	N.S. ^[5]	0.035	<0.00100
	11/15/2024	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
	5/6/2025	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
	11/7/2025	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
MW-4B	11/16/2016 ^[1]	< 0.001	0.00281	0.0364	< 0.001	< 0.0005	0.00648	< 0.0005	0.28	< 0.0005	< 0.05	< 0.0002	0.0123	0.424U	0.0288	< 0.001
	12/20/2016	< 0.001	0.00297	0.0327	< 0.001	< 0.0005	< 0.005	< 0.0005	0.25	< 0.0005	< 0.05	< 0.0002	0.00402	1.08	0.0253	< 0.001
	1/23/2017	< 0.001	0.00286	0.033	< 0.001	< 0.0005	< 0.005	< 0.0005	0.20	< 0.0005	< 0.05	< 0.0002	0.00314	0.737	0.0281	< 0.001
	2/21/2017	< 0.001	0.00316	0.0337	< 0.001	< 0.0005	< 0.005	< 0.0005	0.24	< 0.0005	< 0.05	< 0.0002	0.00287	0.555U	0.0263	< 0.001
	3/22/2017	< 0.001	0.00274	0.0296	< 0.001	< 0.0005	< 0.005	< 0.0005	0.24	< 0.0005	0.0321	< 0.0002	0.00266	0.775	0.0256	< 0.001

Table 5 - Appendix IV Constituents in Groundwater
Groundwater Monitoring and Corrective Action Report
Whelan Energy Center - Public Power Generation Agency (PPGA) / HastingsUtilities
January 2026

Constituent ReportingUnit		Appendix IV Constituents														
		Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Fluoride*	Lead	Lithium	Mercury	Molybdenum	Combined Radium (Ra 226 + Ra 228)	Selenium	Thallium
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pCi/L	mg/L	mg/L
MW-4B	4/26/2017	< 0.001	0.00376	0.0323	< 0.001	< 0.0005	0.00508	< 0.0005	0.26	< 0.0005	0.0313	< 0.0002	0.00324	0.917	0.0308	< 0.001
	5/26/2017	< 0.001	0.00315	0.0291	< 0.001	< 0.0005	0.00758	< 0.0005	0.25	< 0.0005	0.0373	< 0.0002	0.00327	0.625U	0.029	< 0.001
	6/27/2017	< 0.001	0.0032	0.0319	< 0.001	< 0.0005	0.0105	< 0.0005	0.26	< 0.0005	0.0296	< 0.0002	0.00411	0.0747U	0.0291	< 0.001
	11/1/2017	0.0011	< 0.002	0.0356	< 0.001	< 0.0005	0.0123	< 0.0005	0.22	< 0.0005	0.0325	< 0.0002	0.00515	2.33	0.0323	< 0.001
	3/7/2018	< 0.00100	0.00228	0.032	<0.00100	< 0.000500	0.00444J	< 0.000500	<0.500	< 0.000500	0.0271	< 0.000200	0.00557	0.468	0.0177	< 0.00100
	7/25/2018	< 0.00100	0.00202	0.0319	<0.00100	< 0.000500	0.00328J	< 0.000500	<0.500	< 0.000500	0.026	< 0.000200	0.00458	0.614	0.016	< 0.00100
	10/16/2018	< 0.00100	0.00245	0.0353	<0.00100	< 0.000500	0.00185	< 0.000500	<0.500	0.000606	0.031	< 0.000200	0.00604	0.26U	0.0103	< 0.00100
	3/7/2019	< 0.00100	0.00319	0.0443	<0.00100	< 0.000500	0.0131	< 0.000500	<1.00	< 0.000500	0.0311	< 0.000200	0.0139	0.899	0.0529	< 0.00100
	5/13/2019	<0.00300	0.00278	0.0337	<0.00100	< 0.000500	0.0639	0.00287	0.579	0.000195J	0.0245	< 0.000200	0.0259	1.19	0.0232	<0.00200
	8/27/2019	< 0.00100	0.00261	0.0347	<0.00100	< 0.000100	< 0.00500	< 0.000500	<0.500	< 0.000500	0.0265	< 0.000200	0.00578	N.S.	0.0156	< 0.00100
	11/18/2019	< 0.00100	0.00447	0.0403	<0.00100	< 0.000100	0.00933	< 0.000500	<0.500	< 0.000500	0.0334	< 0.000200	0.00683	0.975	0.0656	< 0.00100
	2/17/2020	<0.00100	0.00250	0.0392	<0.00100	<0.000100	0.0148	<0.000500	<0.500	<0.000500	0.0314	<0.000200	0.0145	1.85	0.0538	<0.00100
	5/6/2020	<0.00100	0.00286	0.0349	<0.00100	<0.000100	0.0216	<0.000500	0.665	<0.000500	0.0228	<0.000200	0.0188	N.S. ^[3]	0.0416	<0.00100
	8/31/2020	<0.00100	0.00270	0.0327	<0.00100	<0.000100	0.024	<0.000500	0.677	<0.000500	0.0213	<0.000200	0.0151	N.S.	0.036	<0.00100
	11/16/2020	<0.00100	0.00238	0.031	<0.00100	<0.000100	0.0246	<0.000500	0.609	<0.000500	0.0174	<0.000200	0.0185	0.707	0.0372	<0.00100
	4/19/2021	<0.00200	0.00345	0.0276	<0.00100	<0.000100	0.0267	<0.000500	0.892	<0.000500	0.015	<0.000200	0.0172	0.375	0.025	<0.00100
	12/7/2021	<0.00200	0.00227	0.0623	<0.00100	0.0000520J	<0.00500	<0.000500	0.732	<0.000500	0.0214	<0.000200	0.0108	1.26	0.0445	<0.00100
	4/25/2022	<0.00200	0.00222	0.0675	<0.00100	<0.000100	0.00271J	<0.000500	<0.500	<0.000500	0.0467	<0.000200	0.00446	1.10	0.032	<0.00100
	11/14/2022	<0.00200	0.00288	0.0398	<0.00100	<0.000100	0.0118	<0.000500	<0.500	<0.000500	0.0268	<0.000200	0.00863	N.S.	0.0425	<0.00100
	4/20/2023	<0.00200	0.00258	0.0441	<0.00100	<0.000200	0.00731	0.000236J	<1.00	<0.000500	0.0322	<0.000200	0.0104	0.696	0.0273	<0.00100
	12/5/2023	<0.00200	0.00258	0.0444	<0.00100	<0.000200	0.0122	<0.000500	<1.00	<0.000500	0.0264	<0.000200	0.0110	2.01	0.0638	<0.00100
	4/8/2024	<0.00200	0.00228	0.0516	<0.00100	<0.000200	0.00878	0.000353J	<1.00	<0.000500	0.0262	<0.000200	0.01010	1.51	0.0363	<0.00100
	11/19/2024	<0.00200	0.00267	0.0507	<0.00100	<0.000200	0.0141	0.000763	<1.00	<0.000500	0.0323	<0.000200	0.01350	0.218U	0.0424	<0.00100
	5/6/2025	<0.00100	0.00225	0.0435	<0.000330	<0.000100	0.00553	<0.000170	0.377	<0.000330	0.0248	<0.000110	0.00970	0.853	0.0407	<0.000570
	11/10/2025	<0.00100	0.00230	0.0356	<0.000330	<0.000100	0.0112	<0.000170	0.577	<0.000330	0.0208	<0.000110	0.00810	1.33	0.0494	<0.000570
MW-5B	11/16/2016 ^[1]	< 0.00100	0.00562	0.0379	< 0.001	< 0.0005	0.0342	< 0.0005	1.1	< 0.0005	< 0.05	< 0.0002	0.029	1.42	0.0662	< 0.001
	12/20/2016	< 0.00100	0.00601	0.035	< 0.001	< 0.0005	0.0312	< 0.0005	1.2	< 0.0005	< 0.05	< 0.0002	0.028	0.672U	0.0683	< 0.001
	1/23/2017	< 0.00100	0.00568	0.0347	< 0.001	< 0.0005	0.0314	< 0.0005	1.2	< 0.0005	< 0.05	< 0.0002	0.0283	0.344	0.0672	< 0.001
	2/21/2017	< 0.00100	0.00609	0.0352	< 0.001	< 0.0005	0.0327	< 0.0005	1.3	< 0.0005	< 0.05	< 0.0002	0.0282	0.659	0.0655	< 0.001
	3/22/2017	< 0.00100	0.00553	0.0354	< 0.001	< 0.0005	0.0308	< 0.0005	1.3	< 0.0005	0.0123	< 0.0002	0.0273	1.07	0.0594	< 0.001
	4/26/2017	< 0.00100	0.00632	0.0344	< 0.001	< 0.0005	0.0329	< 0.0005	1.3	< 0.0005	0.0103	< 0.0002	0.0276	0.607	0.054	< 0.001
	5/26/2017	< 0.00100	0.0055	0.0311	< 0.001	< 0.0005	0.0325	< 0.0005	1.3	< 0.0005	0.0125	< 0.0002	0.0229	0.228U	0.0474	< 0.001
	6/27/2017	< 0.00100	0.00529	0.0378	< 0.001	< 0.0005	0.0392	< 0.0005	1.2	< 0.0005	0.013	< 0.0002	0.0234	-0.00269U	0.0634	< 0.001
	10/11/2017	< 0.00100	0.0036	0.0632	< 0.001	< 0.0005	0.0404	< 0.0005	0.86	< 0.0005	0.0151	< 0.0002	0.0195	1.99	0.104	< 0.001
	3/7/2018	0.000202J	0.00393	0.0531	<0.00100	< 0.000500	0.0302	0.000405J	1.34	< 0.000500	0.0134	< 0.000200	0.026	0.694	0.17	< 0.00100
	7/25/2018	<0.00100	0.00399	0.0473	<0.00100	< 0.000500	0.0368	0.000188J	0.896	< 0.000500	0.0117	< 0.000200	0.0404	0.527	0.1	< 0.00100
	10/16/2018	<0.00100	0.00409	0.0623	<0.00100	< 0.000500	0.0306	0.00012J	0.714	< 0.000500	0.0144	< 0.000200	0.026	0.878	0.108	< 0.00100
	3/5/2019	<0.00100	0.00645	0.0469	<0.00100	< 0.000500	0.0484	0.000125J	1.28	0.000703	0.0176	< 0.000200	0.047	0.313U	0.0588	< 0.00100
	5/15/2019	<0.00300	0.00485	0.0415	<0.00100	< 0.000500	0.0378	<0.00100	1.5	< 0.000500	0.0125	< 0.000200	0.0259	0.352U	0.0771	<0.00200
	8/28/2019	<0.00100	0.00505	0.0387	<0.00100	< 0.000100	0.0369	0.000149J	1.4	0.000279J	0.0136	< 0.000200	0.0209	N.S.	0.0685	< 0.00100
	11/18/2019	0.000709J	0.00499	0.0492	<0.00100	< 0.000100^	0.0389	0.000141J	0.984	< 0.000500	0.0143	< 0.000200	0.0163	0.945	0.106	< 0.00100
	2/17/2020	<0.00100	0.00266	0.0574	<0.00100	<0.000100	0.0485	0.000298J	0.597	<0.000500	0.0172	<0.000200	0.0401	1.30	0.131	<0.00100
	5/6/2020	<0.00100	0.00381	0.0496	<0.00100	<0.000100	0.05	0.000420J	1.41	<0.000500	0.0115	<0.000200	0.0635	N.S. ^[3]	0.182	<0.00100
	8/31/2020	<0.00100	0.00507	0.0412	<0.00100	<0.000100	0.0439	0.000217J	1.26	0.000190J	0.0109	<0.000200	0.0462	N.S.	0.116	<0.00100
	11/16/2020	<0.00100	0.00498	0.0349	<0.00100	<0.000100	0.0383	0.000166J	1.1	<0.000500	0.0105	<0.000200	0.0396	0.203U	0.0938	<0.00100

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January 2026

Constituent ReportingUnit		Appendix IV Constituents														
		Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Fluoride*	Lead	Lithium	Mercury	Molybdenum	Combined Radium (Ra 226 + Ra 228)	Selenium	Thallium
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pCi/L	mg/L	mg/L
MW-5B	4/19/2021	<0.00200	0.00589	0.0423	<0.00100	<0.000100	0.0445	0.000140J	1.11	<0.000500	0.0108	<0.000200	0.0444	1.17	0.122	<0.00100
	12/7/2021	<0.00200	0.004	0.0481	<0.00100	<0.000100	0.0435	<0.000500	1.52	<0.000500	0.012	<0.000200	0.0242	0.94	0.0843	<0.00100
	4/25/2022	<0.00200	0.00318	0.0478	<0.00100	<0.000100	0.0396	<0.000500	0.825J	<0.000500	0.0127	<0.000200	0.0225	0.68	0.107	<0.00100
	11/14/2022	<0.00200	0.00431	0.0465	<0.00100	<0.000100	0.0300	0.000400J	0.451J	<0.000500	0.0109	<0.000200	0.0605	N.S.	0.119	<0.00100
	5/20/2023	<0.00200	0.00446	0.0412	<0.00100	<0.000200	0.0408	0.000322J	1.16	<0.000500	0.0123	<0.000200	0.064	-0.0911U	0.0597	<0.00100
	12/4/2023	<0.00200	0.00513	0.0422	<0.00100	<0.000200	0.0227	<0.000500	1.28	<0.000500	0.0110	<0.000200	0.0560	1.86	0.0505	<0.00100
	4/8/2024	<0.00200	0.00371	0.0901	<0.00100	<0.000200	0.0416	0.000275J	1.10	<0.000500	0.0161	<0.000200	0.0398	0.933	0.0824	<0.00100
	11/22/2024	<0.00200	0.00486	0.0707	<0.00100	<0.000200	0.0306	0.000234J	1.44	<0.000500	0.0124	<0.000200	0.0378	0.908	0.0619	0.000627J
	5/6/2025	<0.00100	0.00443	0.0655	<0.000330	<0.000100	0.0223	<0.000170	1.31	<0.000330	0.0115	<0.000110	0.0342	0.867	0.0513	<0.000570
	11/7/2025	<0.00100	0.00335	0.0628	<0.000330	<0.000100	0.0411	0.000175J	1.04	<0.000330	0.0112	<0.000110	0.0219	0.745	0.0713	<0.000570
MW-6 ^[6]	11/16/2016 ^[1]	< 0.001	0.0025	0.0496	< 0.001	< 0.0005	0.00601	< 0.0005	0.36	< 0.0005	< 0.05	< 0.0002	0.00761	2.03	0.0397	< 0.001
	12/20/2016	< 0.001	0.0022	0.0423	< 0.001	< 0.0005	< 0.005	< 0.0005	0.35	< 0.0005	< 0.05	< 0.0002	0.00685	0.453	0.0427	< 0.001
	1/23/2017	< 0.001	0.00234	0.0456	< 0.001	< 0.0005	< 0.005	< 0.0005	0.3	0.0207	< 0.05	< 0.0002	0.00746	1.38U	0.059	< 0.001
	2/21/2017	< 0.001	0.00336	0.058	< 0.001	< 0.0005	0.00998	< 0.0005	0.34	< 0.0005	< 0.05	< 0.0002	0.0105	0.487	0.0913	< 0.001
	3/22/2017	< 0.001	0.00226	0.0454	< 0.001	< 0.0005	0.00896	< 0.0005	0.34	< 0.0005	0.015	< 0.0002	0.00795	0.988	0.0606	< 0.001
	4/26/2017	< 0.001	0.0027	0.051	< 0.001	< 0.0005	0.011	< 0.0005	0.35	< 0.0005	0.0146	< 0.0002	0.00795	1.52	0.0612	< 0.001
	5/26/2017	< 0.001	0.00237	0.0406	< 0.001	< 0.0005	0.0126	< 0.0005	0.35	< 0.0005	0.0164	< 0.0002	0.00771	0.528U	0.042	< 0.001
	6/27/2017	< 0.001	0.00259	0.0454	< 0.001	< 0.0005	0.0133	< 0.0005	0.36	< 0.0005	0.0163	< 0.0002	0.00831	0.427	0.0415	< 0.001
	10/11/2017	< 0.001	0.00244	0.0535	< 0.001	< 0.0005	0.016	< 0.0005	0.30	< 0.0005	0.015	< 0.0002	0.00713	1.95	0.0528	< 0.001
	3/7/2018	0.000187J	0.00262	0.0443	<0.00100	< 0.000500	0.0241	0.000052J	<0.500	< 0.000500	0.0137	< 0.000200	0.0119	0.575	0.0407	< 0.00100
	7/25/2018	<0.00100	0.00262	0.0483	<0.00100	< 0.000500	0.0202	<0.000500	<0.500	< 0.000500	0.0134	< 0.000200	0.0121	0.376U	0.0354	< 0.00100
	10/16/2018	<0.00100	0.00283	0.0547	<0.00100	< 0.000500	0.0167	<0.000500	<0.500	< 0.000500	0.014	< 0.000200	0.0115	0.716	0.0343	< 0.00100
	3/5/2019	<0.00100	0.00101	0.0202	<0.00100	< 0.000500	0.0108	<0.000500	0.672	< 0.000500	0.00714	< 0.000200	0.00471	0.705	0.0245	< 0.00100
	5/13/2019	<0.00300	0.00301	0.0858	<0.00100	< 0.000500	0.00961	<0.00100	0.622	0.000558	0.0134	< 0.000200	0.00776	1.03	0.0685	<0.00200
	8/26/2019	<0.00100	0.00243	0.0546	<0.00100	< 0.000100	0.00877	<0.000500	0.330J	< 0.000500	0.0153	< 0.000200	0.00934	N.S.	0.0803	< 0.00100
	11/18/2019	<0.00100	0.00317	0.0476	<0.00100	< 0.000100^	0.0141	<0.000500	0.547	< 0.000500	0.015	< 0.000200	0.00965	0.45	0.108	< 0.00100
	2/17/2020	<0.00100	0.00231	0.0421	<0.00100	<0.000100	0.0252	<0.000500	<0.500	<0.000500	0.0147	<0.000200	0.00998	1.70	0.178	<0.00100
	5/6/2020	<0.00100	0.00259	0.0512	<0.00100	<0.000100	0.0229	<0.000500	0.635	<0.000500	0.0114	<0.000200	0.00831	N.S. ^[3]	0.135	<0.00100
	8/31/2020	<0.00100	0.00226	0.0401	<0.00100	<0.000100	0.0261	<0.000500	0.639	<0.000500	0.0122	<0.000200	0.00998	N.S.	0.049	<0.00100
	11/16/2020	<0.00100	0.00203	0.0433	<0.00100	<0.000100	0.0244	<0.000500	0.416J	<0.000500	0.0134	<0.000200	0.00793	0.485	0.0601	<0.00100
	4/19/2021	<0.00200	0.00229	0.0481	<0.00100	<0.000100	0.0225	<0.000500	0.433J	<0.000500	0.0136	<0.000200	0.01	1.22	0.0406	<0.00100
	12/7/2021	<0.00200	0.00233	0.0449	<0.00100	<0.000100	0.00631	<0.000500	0.779	<0.000500	0.0136	<0.000200	0.0138	0.738	0.0337	<0.00100
	4/18/2022	0.00103J	0.00275	0.0543	<0.00100	<0.000100	0.0113	<0.000500	<1.00	<0.000500	0.0132	<0.000200	0.0142	1.13	0.0812	<0.00100
	11/14/2022	<0.00200	0.00243	0.0519	<0.00100	<0.000100	0.0172	<0.000500	<0.500	<0.000500	0.0141	<0.000200	0.00984	N.S.	0.0790	<0.00100
	4/20/2023	<0.00200	0.00226	0.054	<0.00100	<0.000200	0.023	<0.000500	0.403J	<0.000500	0.014	<0.000200	0.0106	0.972	0.108	<0.00100
	12/4/2023	<0.00200	0.00281	0.0491	<0.00100	<0.000200	0.0169	<0.000500	0.400J	<0.000500	0.0131	<0.000200	0.0108	1.25	0.0663	<0.00100
	4/8/2024	<0.00200	0.00288	0.0547	<0.00100	<0.000200	0.0157	<0.000500	0.485J	<0.000500	0.0133	<0.000200	0.0122	0.19	0.0575	<0.00100
	11/19/2024	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
	5/7/2025	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
	11/7/2025	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
MW-7	11/16/2016 ^[1]	< 0.001	0.00338	0.0518	< 0.001	< 0.0005	0.0241	< 0.0005	0.38	< 0.0005	< 0.05	< 0.0002	0.0262	1.27	0.045	< 0.001
	12/20/2016	< 0.001	0.00327	0.0688	< 0.001	< 0.0005	0.0129	< 0.0005	0.36	< 0.0005	< 0.05	< 0.0002	0.0229	0.622	0.0576	< 0.001
	1/23/2017	< 0.001	0.00293	0.09	< 0.001	< 0.0005	0.00689	< 0.0005	0.27	< 0.0005	< 0.05	< 0.0002	0.0193	2.42	0.0649	< 0.001
	2/21/2017	< 0.001	0.00351	0.088	< 0.001	< 0.0005	0.00959	< 0.0005	0.33	< 0.0005	< 0.05	< 0.0002	0.0219	1.01	0.0714	< 0.001
	3/22/2017	< 0.001	0.00321	0.073	< 0.001	< 0.0005	0.00827	< 0.0005	0.36	< 0.0005	0.0172	< 0.0002	0.0222	2.11	0.0568	< 0.001
	4/26/2017	< 0.001	0.0038	0.0649	< 0.001	< 0.0005	0.00562	< 0.0005	0.38	< 0.0005	0.014	< 0.0002	0.0201	1.06	0.0477	< 0.001
	5/26/2017	< 0.001	0.00333	0.0625	< 0.001	< 0.0005	< 0.005	< 0.0005	0.37	< 0.0005	0.017	< 0.0002	0.017	1.19U	0.0469	< 0.001
	6/27/2017	< 0.001	0.00308	0.086	< 0.001	< 0.0005	0.00613	< 0.0005	0.34	< 0.0005	0.0184	< 0.0002	0.0145	0.948	0.0475	< 0.001

Table 5 - Appendix IV Constituents in Groundwater
Groundwater Monitoring and Corrective Action Report
Whelan Energy Center - Public Power Generation Agency (PPGA) / HastingsUtilities
January 2026

Constituent ReportingUnit		Appendix IV Constituents														
		Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Fluoride*	Lead	Lithium	Mercury	Molybdenum	Combined Radium (Ra 226 + Ra 228)	Selenium	Thallium
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pCi/L	mg/L	mg/L
MW-7	10/11/2017	< 0.001	0.00368	0.0647	< 0.001	< 0.0005	0.00956	< 0.0005	0.34	< 0.0005	0.0157	< 0.0002	0.0147	1.57	0.0459	< 0.001
	3/7/2018	<0.00100	0.00411	0.051	<0.00100	< 0.000500	0.0264	0.000104J	0.604	< 0.000500	0.0146	< 0.000200	0.0194	0.439	0.0998	< 0.00100
	7/25/2018	<0.00100	0.00421	0.0518	<0.00100	< 0.000500	0.029	0.00008J	<0.500	< 0.000500	0.0128	< 0.000200	0.0203	0.73	0.0677	< 0.00100
	10/16/2018	<0.00100	0.00378	0.0489	<0.00100	< 0.000500	0.0282	<0.000500	<0.500	< 0.000500	0.0151	< 0.000200	0.0248	0.721	0.0414	< 0.00100
	3/5/2019	<0.00100	0.0032	0.052	<0.00100	< 0.000500	0.0295	<0.000500	<0.500	< 0.000500	0.0143	< 0.000200	0.0227	0.925	0.0678	< 0.00100
	5/13/2019	<0.00300	0.00361	0.0534	<0.00100	< 0.000500	0.0318	0.00045J	0.852	< 0.000500	0.0126	< 0.000200	0.0258	0.917	0.0644	<0.00200
	8/26/2019	<0.00100	0.00386	0.0528	<0.00100	< 0.000100	0.0232	<0.000500	0.254J	< 0.000500	0.0146	< 0.000200	0.0284	N.S.	0.0516	< 0.00100
	11/18/2019	<0.00100	0.0042	0.0644	<0.00100	< 0.000100^	0.0167	<0.000500	<0.500	< 0.000500	0.0141	< 0.000200	0.0222	1.66	0.0719	< 0.00100
	2/17/2020	<0.00100	0.00347	0.0603	<0.00100	<0.000100	0.0287	0.000103J	0.289J	<0.000500	0.0159	<0.000200	0.0213	1.56	0.0457	<0.00100
	5/6/2020	<0.00100	0.00415	0.0407	<0.00100	<0.000100	0.0264	0.0000910J	0.517	<0.000500	0.00936J	<0.000200	0.0255	N.S. ^[3]	0.0421	<0.00100
	8/31/2020	<0.00100	0.00442	0.0402	<0.00100	<0.000100	0.0302	<0.000500	0.758	<0.000500	0.011	<0.000200	0.0286	N.S.	0.0255	<0.00100
	11/16/2020	0.00103	0.00417	0.0388	<0.00100	<0.000100	0.0267	<0.000500	0.658	<0.000500	0.0117	<0.000200	0.0245	0.423	0.0381	<0.00100
	4/20/2021	<0.00200	0.0036	0.0456	<0.00100	0.0000610J	0.0235	0.000164J	0.448J	0.000497J	0.0118	<0.000200	0.0231	0.893	0.0543	<0.00100
	12/7/2021	<0.00200	0.00279	0.0639	<0.00100	<0.000100	0.0148	<0.000500	0.67	<0.000500	0.0168	<0.000200	0.0221	1.33	0.0545	<0.00100
	4/25/2022	<0.00200	0.00285	0.0417	<0.00100	<0.000100	0.0062	<0.000500	0.371J	<0.000500	0.0226	<0.000200	0.0128	N.S. ^[4]	0.0481	<0.00100
	11/14/2022	<0.00200	0.00349	0.0311	<0.00100	<0.000100	0.00925	<0.000500	<0.500	<0.000500	0.0138	<0.000200	0.0113	1.14	0.0539	<0.00100
	4/20/2023	<0.00200	0.00351	0.0312	<0.00100	<0.000200	0.0166	<0.000500	0.630J	<0.000500	0.0164	<0.000200	0.0138	0.787	0.0502	<0.00100
	12/5/2023	<0.00200	0.00295	0.0347	<0.00100	<0.000200	0.0164	<0.000500	0.649J	<0.000500	0.0149	<0.000200	0.0146	1.39	0.0540	<0.00100
	4/8/2024	<0.00200	0.00298	0.0329	<0.00100	<0.000200	0.0169	<0.000500	0.620J	<0.000500	0.0152	<0.000200	0.0137	1.05	0.0633	<0.00100
	11/21/2024	<0.00200	0.00308	0.0537	<0.00100	<0.000200	0.0221	<0.000500	0.691J	0.000281J	0.0129	<0.000200	0.0164	1.58	0.0626	<0.00100
	5/6/2025	<0.00100	0.00332	0.0605	<0.000330	<0.000100	0.0152	0.000332J	0.739	0.000597	0.0137	<0.000110	0.0147	1.56	0.0688	<0.000570
	11/7/2025	<0.00100	0.00284	0.0474	<0.000330	<0.000100	0.0194	<0.000170	0.761	<0.000330	0.0128	<0.000110	0.0125	0.699	0.0606	<0.000570
MW-8 ^[6]	11/16/2016 ^[1]	<0.00100	0.00429	0.0498	< 0.001	< 0.0005	0.0332	< 0.0005	0.63	< 0.0005	< 0.05	< 0.0002	0.0499	0.56U	0.035	< 0.001
	12/20/2016	<0.00100	0.00347	0.0456	< 0.001	< 0.0005	0.0347	< 0.0005	0.63	< 0.0005	< 0.05	< 0.0002	0.0479	0.397U	0.0396	< 0.001
	1/23/2017	<0.00100	0.00333	0.0433	< 0.001	< 0.0005	0.0347	< 0.0005	0.58	0.0613	< 0.05	< 0.0002	0.0455	0.860U	0.0374	< 0.001
	2/21/2017	<0.00100	0.00374	0.0516	< 0.001	< 0.0005	0.037	< 0.0005	0.64	< 0.0005	< 0.05	< 0.0002	0.0481	0.964	0.0415	< 0.001
	3/22/2017	<0.00100	0.00316	0.0448	< 0.001	< 0.0005	0.0326	< 0.0005	0.69	< 0.0005	0.0118	< 0.0002	0.0425	1.18	0.04	< 0.001
	4/26/2017	<0.00100	0.00414	0.0516	< 0.001	< 0.0005	0.0382	< 0.0005	0.76	< 0.0005	0.0122	< 0.0002	0.0458	0.678U	0.0441	< 0.001
	5/26/2017	<0.00100	0.00345	0.0545	< 0.001	< 0.0005	0.0303	< 0.0005	0.75	< 0.0005	0.0141	< 0.0002	0.0384	0.103U	0.0368	< 0.001
	6/27/2017	<0.00100	0.00338	0.0535	< 0.001	< 0.0005	0.031	< 0.0005	0.77	< 0.0005	0.013	< 0.0002	0.04	0.293U	0.04	< 0.001
	10/11/2017	<0.00100	0.00384	0.0385	< 0.001	< 0.0005	0.0292	< 0.0005	0.81	< 0.0005	0.0111	< 0.0002	0.0385	0.894	0.0484	< 0.001
	3/7/2018	<0.00100	0.00394	0.0423	<0.00100	< 0.000500	0.0456	0.000103J	1.12	< 0.000500	0.0112	< 0.000200	0.0407	0.517	0.0741	< 0.00100
	7/26/2018	<0.00100	0.0045	0.0402	<0.00100	< 0.000500	0.0433	0.000129J	0.969	< 0.000500	0.0101	< 0.000200	0.0601	0.21U	0.145	< 0.00100
	10/16/2018	<0.00100	0.00472	0.0403	<0.00100	< 0.000500	0.0393	0.000095J	0.724	< 0.000500	0.0111	< 0.000200	0.0552	0.466	0.0829	< 0.00100
	3/5/2019	<0.00100	0.00575	0.0545	<0.00100	< 0.000500	0.0494	0.000199J	1.11	< 0.000500	0.0139	< 0.000200	0.0661	0.516	0.0809	< 0.00100
	5/13/2019	<0.00300	0.0055	0.0449	<0.00100	< 0.000500	0.0335	<0.00100	1.36	< 0.000500	0.0111	< 0.000200	0.0705	0.506	0.0506	<0.00200
	8/26/2019	<0.00100	0.00509	0.0439	<0.00100	< 0.000100	0.034	0.000227J	0.888	0.000288J	0.0123	< 0.000200	0.0417	N.S.	0.0348	< 0.00100
	11/18/2019	<0.00100	0.00449	0.0646	<0.00100	< 0.000100^	0.0349	0.000131J	1.08	< 0.000500	0.0129	< 0.000200	0.0381	1.2	0.0697	< 0.00100
	2/17/2020	<0.00100	0.00414	0.0393	<0.00100	<0.000100	0.0380	<0.000500	0.782	<0.000500	0.0127	<0.000200	0.0387	0.708	0.0768	<0.00100
	5/7/2020	<0.00100	0.004	0.0358	<0.00100	0.0000880J	0.0380	0.000102J	1.36	0.000302J	0.00837J	<0.000200	0.0371	N.S. ^[3]	0.0293	<0.00100
	8/31/2020	<0.00100	0.0037	0.0346	<0.00100	<0.000100	0.0483	<0.000500	1.22	<0.000500	0.0101	<0.000200	0.0381	N.S.	0.0417	<0.00100
	11/16/2020	<0.00100	0.00329	0.0383	<0.00100	<0.000100	0.0445	<0.000500	0.886	<0.000500	0.0103	<0.000200	0.0318	0.313U	0.0408	<0.00100
	4/19/2021	<0.00200	0.00417	0.0415	<0.00100	<0.000100	0.037	0.000122J	1.01	<0.000500	0.0102	<0.000200	0.0301	1.09	0.0596	<0.00100
	12/7/2021	<0.00200	0.00444	0.038	<0.00100	<0.000100	0.0486	<0.000500	3.17	<0.000500	0.0101	<0.000200	0.0435	1.24	0.0428	<0.00100
	4/25/2022	<0.00200	0.00452	0.0321	<0.00100	<0.000100	0.0431	0.000243J	0.947	<0.000500	0.00987J	<0.000200	0.0767	0.559	0.0572	<0.00100
	11/14/2022	<0.00200	0.00408	0.0370	<0.00100	<0.000100	0.0327	<0.000500	0.281J	<0.000500	0.00884J	<0.000200	0.0617	N.S.	0.0778	<0.00100
	4/20/2023	<0.00200	0.00448	0.0471	<0.00100	<0.000200	0.0384	<0.000500	0.949J	<0.000500	0.012	<0.000200	0.0336	0.481U	0.107	<0.00100
	12/5/2023	<0.00200	0.00371	0.0484	<0.00100	<0.000200	0.0330	<0.000500	0.782J	<0.000500	0.0117	<0.000200	0.0252	0.725	0.0602	<0.00100
	4/8/2024	<0.00200	0.00368	0.0492	<0.00100	<0.000200	0.0325	<0.000500	0.775J	<0.000500	0.0127	<0.000200	0.0301	1.470	0.184	<0.00100
	11/19/2024	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
	5/6/2025	<0.00100	0.00327	0.0590	<0.000330	<0.000100	0.0329	<0.000170	1.09	<0.000330	0.0107	<0.000110	0.0335	0.814	0.0533	<0.000570
	11/7/2025	<0.00100	0.00356	0.0459	<0.000330	<0.000100	0.0405	<0.000170	1.24	<0.000330	0.00975J	<0.000110	0.0436	0.984	0.0496	<0.000570

Table 5 - Appendix IV Constituents in Groundwater
Groundwater Monitoring and Corrective Action Report
Whelan Energy Center - Public Power Generation Agency (PPGA) / HastingsUtilities
January 2026

		Appendix IV Constituents														
		Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Fluoride*	Lead	Lithium	Mercury	Molybdenum	Combined Radium (Ra 226 + Ra 228)	Selenium	Thallium
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pCi/L	mg/L	mg/L
MW-9	11/16/2016 ^[1]	<0.00100	0.00284	0.0456	< 0.001	< 0.0005	0.027	< 0.0005	1.0	< 0.0005	< 0.05	< 0.0002	0.0248	0.636U	0.0586	< 0.001
	12/20/2016	<0.00100	0.00283	0.0462	< 0.001	< 0.0005	0.029	< 0.0005	0.97	< 0.0005	< 0.05	< 0.0002	0.0245	0.269U	0.0638	< 0.001
	1/23/2017	<0.00100	0.0029	0.0467	< 0.001	< 0.0005	0.0278	< 0.0005	0.87	< 0.0005	< 0.05	< 0.0002	0.0235	0.953U	0.0684	< 0.001
	2/21/2017	<0.00100	0.00317	0.0507	< 0.001	< 0.0005	0.0262	< 0.0005	0.91	< 0.0005	< 0.05	< 0.0002	0.0232	0.747	0.0686	< 0.001
	3/22/2017	<0.00100	0.00289	0.0531	< 0.001	< 0.0005	0.0166	< 0.0005	0.91	< 0.0005	0.0128	< 0.0002	0.0214	1.49	0.0591	< 0.001
	4/26/2017	<0.00100	0.00344	0.0477	< 0.001	< 0.0005	0.0095	< 0.0005	0.9	< 0.0005	0.0115	< 0.0002	0.0197	1.3	0.0458	< 0.001
	5/26/2017	<0.00100	0.00323	0.0437	< 0.001	< 0.0005	0.0109	< 0.0005	0.87	< 0.0005	0.0144	< 0.0002	0.0188	0.977	0.0461	< 0.001
	6/27/2017	<0.00100	0.00305	0.0529	< 0.001	< 0.0005	0.0157	< 0.0005	0.85	< 0.0005	0.0129	< 0.0002	0.0201	0.571	0.049	< 0.001
	10/11/2017	<0.00100	0.00252	0.0473	< 0.001	< 0.0005	0.0318	< 0.0005	0.59	< 0.0005	0.0102	< 0.0002	0.0222	1.49	0.0345	< 0.001
	3/7/2018	<0.00100	0.00199J	0.0551	<0.00100	< 0.000500	0.0274	0.000049J	0.639	< 0.000500	0.01	< 0.000200	0.015	0.71	0.0241	< 0.00100
	7/25/2018	<0.00100	0.00124J	0.0431	<0.00100	< 0.000500	0.0265	<0.000500	0.472J	< 0.000500	0.00699J	< 0.000200	0.0135	0.7	0.0373	< 0.00100
	10/16/2018	<0.00100	0.00193J	0.0425	<0.00100	< 0.000500	0.0294	<0.000500	0.618	< 0.000500	0.00889J	< 0.000200	0.0251	0.613	0.039	< 0.00100
	3/5/2019	<0.00100	0.00282	0.055	<0.00100	< 0.000500	0.0318	<0.000500	1.33	< 0.000500	0.0101	< 0.000200	0.0306	0.933	0.404	< 0.00100
	5/13/2019	<0.00300	0.00297	0.049	<0.00100	< 0.000500	0.0282	<0.001000	1.56	< 0.000500	0.00853	< 0.000200	0.029	0.658	0.0447	<0.00200
	8/26/2019	<0.00100	0.00339	0.0428	<0.00100	< 0.000100	0.0306	<0.000500	0.956	< 0.000500	0.0109	< 0.000200	0.029	N.S.	0.0598	< 0.00100
	11/18/2019	<0.00100	0.0051	0.0426	<0.00100	< 0.000100^	0.0265	<0.000500	1.08	< 0.000500	0.0101	< 0.000200	0.0313	0.769	0.387	< 0.00100
	2/17/2020	<0.00100	0.00291	0.0516	<0.00100	<0.000100	0.0271	<0.000500	0.798	<0.000500	0.0119	<0.000200	0.0204	0.982	0.0501	<0.00100
	5/6/2020	<0.00100	0.00209	0.0473	<0.00100	<0.000100	0.0298	<0.000500	0.992	<0.000500	0.00670J	<0.000200	0.0182	N.S. ^[3]	0.0363	<0.00100
	8/31/2020	<0.00100	0.00229	0.0563	<0.00100	<0.000100	0.0469	<0.000500	0.813	<0.000500	0.00953J	<0.000200	0.0175	N.S.	0.0637	<0.00100
	11/16/2020	<0.00100	0.0028	0.0431	<0.00100	<0.000100	0.0469	<0.000500	1.14	<0.000500	0.00990J	<0.000200	0.0241	0.531	0.0751	<0.00100
	4/19/2021	<0.00200	0.00184J	0.0604	<0.00100	<0.000100	0.0343	<0.000500	0.717	<0.000500	0.00869J	<0.000200	0.0163	2.68	0.0578	<0.00100
	12/7/2021	<0.00200	0.00246	0.068	<0.00100	<0.000100	0.00426J	<0.000500	1.02	<0.000500	0.00954J	<0.000200	0.0137	2.17	0.0277	<0.00100
	4/25/2022	<0.00200	0.00296	0.0683	<0.00100	<0.000100	0.0114	<0.000500	<1.00	<0.000500	0.0121	<0.000200	0.0193	0.681	0.0394	<0.00100
	11/14/2022	<0.00200	0.00201	0.0573	<0.00100	<0.000100	0.0283	<0.000500	<0.000500	<0.000500	0.00945J	<0.000200	0.0176	N.S.	0.0340	<0.00100
	4/20/2023	<0.00200	0.00134J	0.0657	<0.00100	< 0.000200	0.06	<0.000500	0.753J	<0.000500	0.00918J	<0.000200	0.0143	0.301U	0.0266	<0.00100
	12/4/2023	<0.00200	0.00246	0.0532	<0.00100	<0.000200	0.0575	<0.000500	1.39	<0.000500	0.00982J	<0.000200	0.0301	2.27	0.0880	<0.00100
	4/8/2024	<0.00200	0.00246	0.076	<0.00100	<0.000200	0.0456	<0.000500	1.35	<0.000500	0.0122	<0.000200	0.0279	0.585	0.1580	<0.00100
	11/22/2024	<0.00200	0.00292	0.0947	<0.00100	<0.000200	0.0211	<0.000500	1.25	<0.000500	0.0103	<0.000200	0.0157	1.24	0.0835	<0.00100
	5/7/2025	<0.00100	0.00261	0.0967	<0.000330	<0.000100	0.0186	<0.000170	0.956	<0.000330	0.0112	<0.000110	0.0183	1.05	0.0852	<0.000570
	11/7/2025	<0.00100	0.00233	0.0760	<0.000330	<0.000100	0.0248	<0.000170	1.06	<0.000330	0.0117	<0.000110	0.0126	1.44	0.0851	<0.000570

Notes:

- ^[1] Radium was sampled at a later date in November (11/28/2016) than other constituents which were sampled on 11/16/2016 & 11/17/2016.
- ^[2] MW-2B not sampled in November 2016.
- ^[3] Radium was not sampled during the May 2020 event, so radium data from February 17, 2020 was used for the Spring 2020 Title 132 report and statistical analysis.
- ^[4] Radium was not sampled at MW-1 and MW-7 during the spring 2022 sampling event due to a preservative error made by the lab. Radium at these wells was sampled during the fall 2022 sampling event.
- ^[5] Radium was not sampled at MW-3R during the spring 2024 sampling event due to a sampling error.
- ^[6] A sample was not collected from MW-8 during the fall 2024 sampling event because it was inaccessible due to active construction in the area. Samples were not collected from MW-3R and MW-6 during the fall 2024, spring 2025, and fall 2025 sampling events because insufficient water was present to sample.

* Fluoride is listed in both Appendix III and Appendix IV of the CCR Final Rule (40 CFR Part 257).

< For the period of November 2016 through October 2019, the symbol indicates analyte not detected above the reporting limit, which is the value shown following the "<" symbol. Starting in January 2020, the symbol indicates analyte not detected above the method detection limit, which is the value shown following the "<" symbol.

"U" data qualifier (radium) indicates parameter was analyzed for but not detected above limiting criteria (minimum detectable concentration) as defined in the analytical laboratory data package.

"J" data qualifier indicates the result is less than the laboratory reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value.

"N.S." = not sampled

Table 6 - Background Threshold Values for Assessment Monitoring

Groundwater Monitoring and Corrective Action Report

Whelan Energy Center - Public Power Generation Agency (PPGA) / Hastings Utilities

January 2026

Constituents	Units	Background Threshold Values (UPLs) - 2025 ^[1]
Appendix III		
Boron	mg/l	1.64
Calcium	mg/l	72.3
Chloride	mg/l	34.1
Fluoride*	mg/l	1.56
pH (LPL)**	SU	6.33
pH (UPL)***	SU	7.46
Sulfate	mg/l	196
TDS	mg/l	563
Appendix IV		
Antimony	mg/l	0.00103
Arsenic	mg/l	0.00615
Barium	mg/l	0.0967
Beryllium	mg/l	0.000330
Cadmium	mg/l	0.000100
Chromium	mg/l	0.0507
Cobalt	mg/l	0.000420
Fluoride*	mg/l	1.56
Lead	mg/l	0.0207
Lithium	mg/l	0.0167
Mercury	mg/l	0.000110
Molybdenum	mg/l	0.0493
Radium 226 + 228	pCi/l	2.27
Selenium	mg/l	0.139
Thallium	mg/l	0.000627

Notes:

^[1] BTVs were updated in fall 2025. BTVs are updated every four to eight measurements (i.e., approximately every two years if samples are collected semi-annually). The next background update is scheduled for fall 2027.

* Fluoride is listed in both Appendix III and Appendix IV of the CCR Final Rule (40 CFR Part 257).

** Indicates the lower bound of the range is the lower prediction limit (LPL).

*** Indicates the upper bound is the upper prediction limit (UPL).

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Table 7 - Established Groundwater Protection Standards

Groundwater Monitoring and Corrective Action Report

Whelan Energy Center - Public Power Generation Agency (PPGA) / Hastings Utilities

January 2026

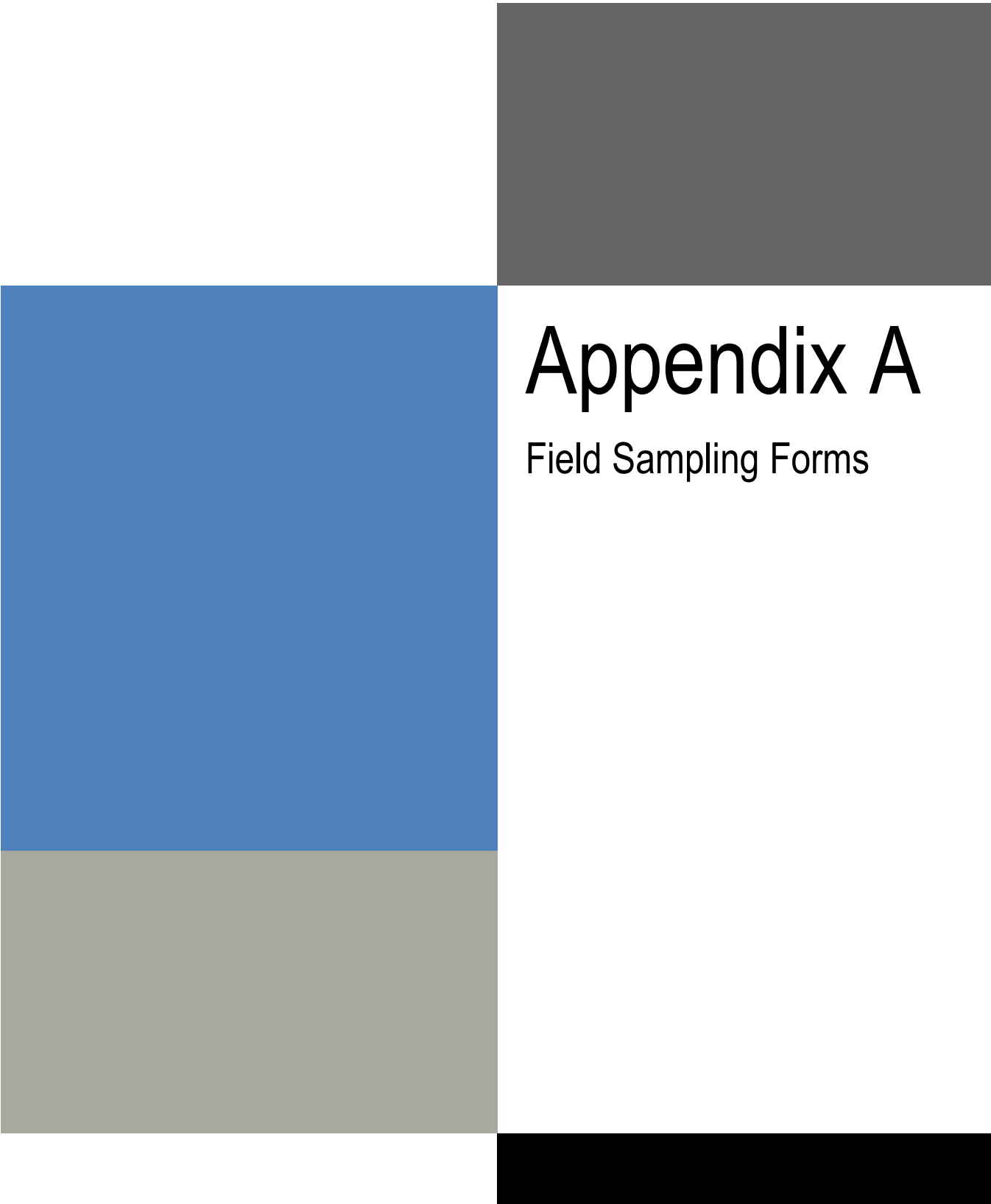
Constituents	Units	Established Groundwater Protection Standard (GWPS) ^[1]
Appendix IV		
Antimony	mg/l	0.006
Arsenic	mg/l	0.01
Barium	mg/l	2.00
Beryllium	mg/l	0.004
Cadmium	mg/l	0.005
Chromium	mg/l	0.10
Cobalt	mg/l	0.006
Fluoride	mg/l	4.00
Lead	mg/l	0.0207 ^[2]
Lithium	mg/l	0.04
Mercury	mg/l	0.002
Molybdenum	mg/l	0.1
Radium 226 + 228	pCi/l	5.00
Selenium	mg/l	0.139 ^[2]
Thallium	mg/l	0.002

Notes:

^[1] GWPS is established as the U.S. EPA Maximum Contaminant Level (MCL) or the GWPS specified in §257.95(h)(2); unless otherwise specified.

^[2] GWPS is established as the upper prediction limit (UPL) when the background level is higher than the U.S. EPA MCL or the GWPS specified in §257.95(h)(2).

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Appendix A

Field Sampling Forms

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Groundwater Monitoring Sampling Collection Field Log

Project: WEC MW Sampling Hastings, NE		(Circle One) Monthly Quarterly		Duplicate Collected: YES / NO If yes, Sample ID _____	
Sample No: MW-01		Weather: CLR P.CLDY CLDY FOG		Prepared By: J. Sidlo	
Sample Media: Groundwater		Temp: 44 °F Wind: Calm Mod High		Personnel:	
Sample Date: 5/6/25		Precip: Rain Lite Mod High Snow: Lite Mod High		Sample Time: 10:00	

Purging Information

Date: ____/____/____	Time Started: 9:42	Time Completed: 10:08
Method: Electric 12V DC Sampling Pump		
Water Level: 127.72	Purge Rate: _____	

Water Quality Parameters During Purging

Time	Volume Purged	*pH (mV)	*Cond. (S/m)	Turbidity (NTU)	DO (mg/L)	*Temp (°C)	ORP (mV)
9:55		6.64	0.456	2.67	4.88	16.3	182.7
9:57		6.65	0.458	2.49	4.80	16.3	185.3
9:59		6.65	0.457	2.27	4.80	16.3	186.4
Expected Range		6 to 8.5	0 to 100	0 to 5	4 to 10	10 to 20	-350 to 350
Physical Range		0 to 14	0 to 10000	0 to 10000	0 to 20	0 to 100	-750 to 750

Sampling Information

Sample Container	Preservative	Analysis Required	Method Number	Laboratory
1 x 250mL Poly	HNO ³	Metals	SW846	Test America
1 x 500mL Poly	None	B, Ca, Cl, F, TSS		Test America
3 x 1L Poly	None	Radium		Test America

Other Information

Appearance (circle one) Clear Sl. Cloudy Cloudy	Odor (circle one) None Strong Weak
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Field Notes:

Groundwater Monitoring Sampling Collection Field Log

Project: WEC MW Sampling Hastings, NE		(Circle One) Monthly Quarterly		Duplicate Collected: YES / <u>NO</u> If yes, Sample ID _____	
Sample No: <u>MW-2B</u>		Weather: <u>CLR</u> P CLDY CLDY FOG		Prepared By: <u>J. Sidlo</u>	
Sample Media: Groundwater		Temp: <u>6.5</u> °F Wind: <u>Calm</u> Mod High		Personnel:	
Sample Date: <u>5/6/25</u>		Precip: Rain Lite Mod High Snow Lite Mod High		Sample Time: <u>10:40</u>	

Purging Information

Date: ___/___/___	Time Started: <u>10:18</u>	Time Completed:
Method: Electric 12V DC Sampling Pump		
Water Level: <u>138.105</u>	Purge Rate:	

Water Quality Parameters During Purging

Time	Volume Purged	*pH (mV)	*Cond. (S/m)	Turbidity (NTU)	DO (mg/L)	*Temp (°C)	ORP (mV)
10:32		6.79	0.56	0.38	6.72	14.7	260.6
10:34		6.78	0.56	0.98	6.61	14.7	259.6
10:36		6.79	0.56	0.74	6.61	14.8	258.4
				0.85			
Expected Range		6 to 8.5	0 to 100	0 to 5	4 to 10	10 to 20	-350 to 350
Physical Range		0 to 14	0 to 10000	0 to 10000	0 to 20	0 to 100	-750 to 750

Sampling Information

Sample Container	Preservative	Analysis Required	Method Number	Laboratory
1 x 250mL Poly	HNO ³	Metals	SW846	Test America
1 x 500mL Poly	None	B, Ca, Cl, F, TSS		Test America
3 x 1L Poly	None	Radium		Test America

Other Information

Appearance (circle one) <u>Clear</u> Sl. Cloudy Cloudy	Odor (circle one) <u>None</u> Strong Weak
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Field Notes:

Groundwater Monitoring Sampling Collection Field Log

Project: WEC MW Sampling Hastings, NE		(Circle One) Monthly Quarterly		Duplicate Collected: YES / <u>NO</u> If yes, Sample ID _____	
Sample No: <u>MW - 3R</u>		Weather CLR <u>R</u> <u>CLDY</u> CLDY FOG		Prepared By: <u>J. Sidlo</u>	
Sample Media: Groundwater		Temp <u>8</u> °F Wind Calm <u>Mod</u> High		Personnel:	
Sample Date: <u>5/6/25</u>		Precip Rain Lite Mod High Snow- Lite Mod High		Sample Time:	

Purging Information

Date: ___/___/___	Time Started: <u>15:26</u>	Time Completed:
Method: Electric 12V DC Sampling Pump		
Water Level: <u>124.25</u>	Purge Rate:	

Water Quality Parameters During Purging

Time	Volume Purged	*pH (m/V)	*Cond. (S/m)	Turbidity (NTU)	DO (mg/L)	*Temp (°C)	ORP (mV)
Expected Range		6 to 8.5	0 to 100	0 to 5	4 to 10	10 to 20	-350 to 350
Physical Range		0 to 14	0 to 10000	0 to 10000	0 to 20	0 to 100	-750 to 750

Sampling Information

Sample Container	Preservative	Analysis Required	Method Number	Laboratory
1 x 250mL Poly	HNO ³	Metals	SW846	Test America
1 x 500mL Poly	None	B,Ca,Cl,F, TSS		Test America
3 x 1L Poly	None	Radium		Test America

Other Information

Appearance (circle one) Clear SI.Cloudy Cloudy	Odor (circle one) None Strong Weak
--	------------------------------------

Field Notes:

Pump set at 126.5' in sump. No water after sump cleaned out. No recharge due to bottom of screen below water level.

* May need to drill new well

Groundwater Monitoring Sampling Collection Field Log

Project: WEC MW Sampling Hastings, NE		(Circle One) Monthly Quarterly	Duplicate Collected: YES / <u>NO</u> If yes, Sample ID _____
Sample No: <u>MW-4B</u>	Weather CLR <u>P.CLDY</u> CLDY FOG		Prepared By: <u>J Sidlo</u>
Sample Media: Groundwater	Temp <u>78</u> °F Wind <u>Calm</u> Mod High		Personnel:
Sample Date: <u>5/10/25</u>	Precip <u>Rain</u> Lite Mod High <u>Snow</u> Lite Mod High		Sample Time: <u>16:15</u>

Purging Information

Date: ___/___/___	Time Started: <u>15:56</u>	Time Completed:
Method: Electric 12V DC Sampling Pump		
Water Level: <u>118.76</u>	Purge Rate:	

Water Quality Parameters During Purging

Time	Volume Purged	*pH (m/V)	*Cond. (S/m)	Turbidity (NTU)	DO (mg/L)	*Temp (°C)	ORP (mV)
<u>16:10</u>		<u>6.43</u>	<u>0.56</u>	<u>6.62</u>	<u>3.65</u>	<u>15.9</u>	<u>295.9</u>
<u>16:12</u>		<u>6.44</u>	<u>0.57</u>	<u>4.02</u>	<u>3.61</u>	<u>15.9</u>	<u>294.8</u>
<u>16:14</u>		<u>6.45</u>	<u>0.56</u>	<u>3.15</u>	<u>3.66</u>	<u>16.0</u>	<u>293.8</u>
Expected Range		6 to 8.5	0 to 100	0 to 5	4 to 10	10 to 20	-350 to 350
Physical Range		0 to 14	0 to 10000	0 to 10000	0 to 20	0 to 100	-750 to 750

Sampling Information

Sample Container	Preservative	Analysis Required	Method Number	Laboratory
1 x 250mL Poly	HNO ³	Metals	SW846	Test America
1 x 500mL Poly	None	B,Ca,Cl,F, TSS		Test America
3 x 1L Poly	None	Radium		Test America

Other Information

Appearance (circle one) <u>Clear</u> Sl.Cloudy Cloudy	Odor (circle one) <u>None</u> Strong Weak
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Field Notes:

Set pump at 119'

Bottom around 120'

Groundwater Monitoring Sampling Collection Field Log

Project: WEC MW Sampling Hastings, NE		(Circle One) Monthly Quarterly		Duplicate Collected: YES / NO If yes, Sample ID _____	
Sample No: <u>MW-5B</u>		Weather: <u>CLR</u> <u>P</u> <u>CLDY</u> CLDY FOG		Prepared By: <u>J. Sidlo</u>	
Sample Media: Groundwater		Temp <u>77</u> °F Wind Calm <u>Mod</u> High		Personnel:	
Sample Date: <u>5/6/25</u>		Precip Rain- Lite Mod High Snow- Lite Mod High		Sample Time: <u>13:15</u>	

Purging Information

Date: <u> </u> / <u> </u> / <u> </u>	Time Started: <u>12:48</u>	Time Completed:
Method: Electric 12V DC Sampling Pump		
Water Level: <u>121.65</u>	Purge Rate:	

Water Quality Parameters During Purging

Time	Volume Purged	*pH (m/V)	*Cond. (S/m)	Turbidity (NTU)	DO (mg/L)	*Temp (°C)	ORP (mV)
13:05		7.16	0.487	6.26	6.94	16.9	275.4
13:07		7.14	0.484	4.28	7.01	16.8	274.0
13:09		7.17	0.481	4.93	6.99	16.9	271.4
13:11		7.14	0.481	3.48	6.99	16.9	270.5
Expected Range		6 to 8.5	0 to 100	0 to 5	4 to 10	10 to 20	-350 to 350
Physical Range		0 to 14	0 to 10000	0 to 10000	0 to 20	0 to 100	-750 to 750

Sampling Information

Sample Container	Preservative	Analysis Required	Method Number	Laboratory
1 x 250mL Poly	HNO ³	Metals	SW846	Test America
1 x 500mL Poly	None	B, Ca, Cl, F, TSS		Test America
3 x 1L Poly	None	Radium		Test America

Other Information

Appearance (circle one) <u>Clear</u> Sl. Cloudy Cloudy	Odor (circle one) None Strong Weak
--	------------------------------------

Field Notes:

Used spare pump. Deployed to bottom + lifted
couple inches

Groundwater Monitoring Sampling Collection Field Log

Project: WEC MW Sampling Hastings, NE		(Circle One) Monthly Quarterly	Duplicate Collected: YES / NO If yes, Sample ID _____
Sample No: <u>MW-06</u>	Weather CLR P.CLDY CLDY FOG		Prepared By:
Sample Media: Groundwater	Temp ____ °F Wind Calm Mod High		Personnel:
Sample Date: <u>5/7/25</u>	Precip Rain- Lite Mod High Snow- Lite Mod High		Sample Time:

Purging Information

Date: ____/____/____	Time Started:	Time Completed:
Method: Electric 12V DC Sampling Pump		
Water Level: <u>116.80 bottom of well</u>	Purge Rate:	

Water Quality Parameters During Purging

Time	Volume Purged	*pH (mV)	*Cond. (S/m)	Turbidity (NTU)	DO (mg/L)	*Temp (°C)	ORP (mV)
Expected Range		6 to 8.5	0 to 100	0 to 5	4 to 10	10 to 20	-350 to 350
Physical Range		0 to 14	0 to 10000	0 to 10000	0 to 20	0 to 100	-750 to 750

Sampling Information

Sample Container	Preservative	Analysis Required	Method Number	Laboratory
1 x 250mL Poly	HNO ³	Metals	SW846	Test America
1 x 500mL Poly	None	B,Ca,Cl,F, TSS		Test America
3 x 1L Poly	None	Radium		Test America

Other Information

Appearance (circle one) Clear SI.Cloudy Cloudy	Odor (circle one) None Strong Weak
--	------------------------------------

Field Notes:

No water

Groundwater Monitoring Sampling Collection Field Log

Project: WEC MW Sampling Hastings, NE	(Circle One) Monthly Quarterly	Duplicate Collected: YES / NO If yes, Sample ID: <u>Field Blank</u>
Sample No: <u>MW-07</u>	Weather CLR <u>P.CLDY</u> CLDY FOG	Prepared By: <u>jsidlo</u>
Sample Media: Groundwater	Temp <u>78</u> °F Wind Calm <u>Mod</u> High	Personnel:
Sample Date: <u>5/6/25</u>	Precip <u>Rain</u> Lite Mod High Snow Lite Mod High	Sample Time: <u>15:00</u>

5-6-25
14:55

Purging Information

Date: <u> </u> / <u> </u> / <u> </u>	Time Started: <u>14:36</u>	Time Completed: <u>15:10</u>
Method: Electric 12V DC Sampling Pump		
Water Level: <u>125.51</u>	Purge Rate:	

Water Quality Parameters During Purging

Time	Volume Purged	*pH (mV)	*Cond. (S/m)	Turbidity (NTU)	DO (mg/L)	*Temp (°C)	ORP (mV)
14:50		6.64	0.51	31.8	4.35	17.3	289.8
14:52		6.65	0.51	28.1	4.31	17.3	289.1
14:54		6.66	0.52	28.3	4.33	17.2	288.0
14:56		6.65	0.51	22.0	4.33	17.2	287.4
Expected Range		6 to 8.5	0 to 100	0 to 5	4 to 10	10 to 20	-350 to 350
Physical Range		0 to 14	0 to 10000	0 to 10000	0 to 20	0 to 100	-750 to 750

Sampling Information

Sample Container	Preservative	Analysis Required	Method Number	Laboratory
1 x 250mL Poly	HNO ³	Metals	SW846	Test America
1 x 500mL Poly	None	B,Ca,Cl,F, TSS		Test America
3 x 1L Poly	None	Radium		Test America

Other Information

Appearance (circle one) <u>Clear</u> Sl.Cloudy Cloudy	Odor (circle one) <u>None</u> Strong Weak
---	---

Field Notes:

Collected equipment blank EB-01 5-6-25 14:20

Groundwater Monitoring Sampling Collection Field Log

Project: WEC MW Sampling Hastings, NE	(Circle One) Monthly Quarterly	Duplicate Collected: <u>YES</u> / NO If yes, Sample ID <u>MW-208</u>
Sample No: <u>MW-08</u>	Weather CLR <u>P.CLDY</u> CLDY FOG	Prepared By: <u>Jsidlo</u>
Sample Media: Groundwater	Temp <u>77</u> °F Wind Calm <u>Mod</u> High	Personnel:
Sample Date: <u>5/6/25</u>	Precip Rain Lite Mod High Snow Lite Mod High	Sample Time: <u>13:55</u>

5-6-25
8:30am

Purging Information

Date: <u> </u> / <u> </u> / <u> </u>	Time Started: <u>13:36</u>	Time Completed:
Method: Electric 12V DC Sampling Pump		
Water Level: <u>127.05</u>	Purge Rate:	

Water Quality Parameters During Purging

Time	Volume Purged	*pH (m/V)	*Cond. (S/m)	Turbidity (NTU)	DO (mg/L)	*Temp (°C)	ORP (mV)
13:50		7.09	0.56	4.23	5.84	15.8	224.6
13:52		7.06	0.55	3.47	5.85	15.8	225.6
13:54		7.05	0.55	2.80	5.83	15.8	224.6
Expected Range		6 to 8.5	0 to 100	0 to 5	4 to 10	10 to 20	-350 to 350
Physical Range		0 to 14	0 to 10000	0 to 10000	0 to 20	0 to 100	-750 to 750

224.6

Sampling Information

Sample Container	Preservative	Analysis Required	Method Number	Laboratory
1 x 250mL Poly	HNO ³	Metals	SW846	Test America
1 x 500mL Poly	None	B,Ca,Cl,F, TSS		Test America
3 x 1L Poly	None	Radium		Test America

Other Information

Appearance (circle one) <u>Clear</u> Sl. Cloudy Cloudy	Odor (circle one) <u>None</u> Strong Weak
--	---

Field Notes:

Groundwater Monitoring Sampling Collection Field Log

Project: WEC MW Sampling Hastings, NE		(Circle One) Monthly Quarterly	Duplicate Collected: YES / NO If yes, Sample ID _____
Sample No: MW-09	Weather CLR R CLDY CLDY FOG		Prepared By: J. Sidlo
Sample Media: Groundwater	Temp 64 °F Wind Calm Mod High		Personnel:
Sample Date: 5/7/25	Precip Rain Lite Mod High Snow Lite Mod High		Sample Time: 10:10

Purging Information

Date: ____/____/____	Time Started: 9:47	Time Completed: 10:18
Method: Electric 12V DC Sampling Pump		
Water Level: 117.10	Purge Rate:	

Water Quality Parameters During Purging

Time	Volume Purged	*pH (mV)	*Cond. (S/m)	Turbidity (NTU)	DO (mg/L)	*Temp (°C)	ORP (mV)
10:02		7.04	0.484	1.82	6.22	15.7	278.7
10:04		7.01	0.487	1.84	6.17	15.8	278.4
10:06		7.01	0.481	1.50	6.18	15.8	278.2
Expected Range		6 to 8.5	0 to 100	0 to 5	4 to 10	10 to 20	-350 to 350
Physical Range		0 to 14	0 to 10000	0 to 10000	0 to 20	0 to 100	-750 to 750

Sampling Information

Sample Container	Preservative	Analysis Required	Method Number	Laboratory
1 x 250mL Poly	HNO ³	Metals	SW846	Test America
1 x 500mL Poly	None	B, Ca, Cl, F, TSS		Test America
3 x 1L Poly	None	Radium		Test America

Other Information

Appearance (circle one) Clear Sl. Cloudy Cloudy	Odor (circle one) None Strong Weak
--	---

Field Notes:

Dedicated pump no longer deep enough
Used spare pump. Set around 119'

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Groundwater Monitoring Sampling Collection Field Log

Project: WEC MW Sampling Hastings, NE		(Circle One) Monthly Quarterly	Duplicate Collected: YES / <u>NO</u> If yes, Sample ID _____
Sample No: <u>MW-01</u>	Weather: <u>CLR</u> P.CLDY CLDY FOG		Prepared By: <u>J Sidlo</u>
Sample Media: Groundwater	Temp: <u>48</u> °F Wind Calm <u>Mod</u> High		Personnel:
Sample Date: <u>11/7/25</u>	Precip: <u>Rain- Lite Mod High</u> <u>Snow- Lite Mod High</u>		Sample Time: <u>14:10</u>

Purging Information

Date: <u> </u> / <u> </u> / <u> </u>	Time Started: <u>13:47</u>	Time Completed:
Method: Electric 12V DC Sampling Pump		
Water Level: <u>127.57</u>	Purge Rate:	

Water Quality Parameters During Purging

Time	Volume Purged	*pH (mV)	*Cond. (S/m)	Turbidity (NTU)	DO (mg/L)	*Temp (°C)	ORP (mV)
14:02		6.65	0.491	2.74	4.62	15.8	129.5
14:05		6.65	0.487	2.05	4.61	15.9	134.5
14:08		6.66	0.489	1.77	4.56	15.9	143.2
Expected Range		6 to 8.5	0 to 100	0 to 5	4 to 10	10 to 20	-350 to 350
Physical Range		0 to 14	0 to 10000	0 to 10000	0 to 20	0 to 100	-750 to 750

Sampling Information

Sample Container	Preservative	Analysis Required	Method Number	Laboratory
1 x 250mL Poly	HNO ³	Metals	SW846	Test America
1 x 500mL Poly	None	B,Ca,Cl,F, TSS		Test America
3 x 1L Poly	None	Radium		Test America

Other Information

Appearance (circle one) <u>Clear</u> Sl.Cloudy Cloudy	Odor (circle one) <u>None</u> Strong Weak
---	---

Field Notes:

Groundwater Monitoring Sampling Collection Field Log

11/7/25
15:15
MW-
102B

Project: WEC MW Sampling Hastings, NE		(Circle One) Monthly Quarterly	Duplicate Collected: <u>YES</u> NO If yes, Sample ID <u>MW-202B</u>
Sample No: <u>MW-2B</u>	Weather CLR P.CLDY <u>CLDY</u> FOG		Prepared By: <u>J. Sidlo</u>
Sample Media: Groundwater	Temp <u>60</u> °F Wind Calm <u>Mod</u> High		Personnel:
Sample Date: <u>11/7/25</u>	Precip Rain- Lite Mod High Snow- Lite Mod High		Sample Time: <u>14:55</u>

Purging Information

Date: <u> </u> / <u> </u> / <u> </u>	Time Started: <u>14:28</u>	Time Completed:
Method: Electric 12V DC Sampling Pump		
Water Level: <u>140.75</u>	Purge Rate:	

Water Quality Parameters During Purging

Time	Volume Purged	*pH (m/V)	*Cond. (µS/cm)	Turbidity (NTU)	DO (mg/L)	*Temp (°C)	ORP (mV)
14:45		6.70	0.57	0.50	6.56	14.9	246.5
14:48		6.69	0.57	0.19	6.58	14.9	246.6
14:51		6.71	0.57	0.25	6.58	14.9	246.10
Expected Range		6 to 8.5	0 to 100	0 to 5	4 to 10	10 to 20	-350 to 350
Physical Range		0 to 14	0 to 10000	0 to 10000	0 to 20	0 to 100	-750 to 750

Sampling Information

Sample Container	Preservative	Analysis Required	Method Number	Laboratory
1 x 250mL Poly	HNO ³	Metals	SW846	Test America
1 x 500mL Poly	None	B, Ca, Cl, F, TSS		Test America
3 x 1L Poly	None	Radium		Test America

Other Information

Appearance (circle one) <u>Clear</u> Sl. Cloudy Cloudy	Odor (circle one) <u>None</u> Strong Weak
--	---

Field Notes:

Groundwater Monitoring Sampling Collection Field Log

Project: WEC MW Sampling Hastings, NE		(Circle One) Monthly Quarterly	Duplicate Collected: YES / NO If yes, Sample ID _____
Sample No: MW-4B	Weather: <u>CLR</u> P.CLDY CLDY FOG		Prepared By: J. Sidlo
Sample Media: Groundwater	Temp: <u>42.3</u> °F Wind: <u>Calm</u> Mod High		Personnel:
Sample Date: 11/10/25	Precip: <u>Rain</u> - Lite Mod High Snow: <u>Lite</u> Mod High		Sample Time: 10:40

Purging Information

Date: __/__/__	Time Started: 10:15	Time Completed:
Method: Electric 12V DC Sampling Pump		
Water Level: 118.26	Purge Rate:	

Water Quality Parameters During Purging

Time	Volume Purged	*pH (mV)	*Cond. (µS/cm)	Turbidity (NTU)	DO (mg/L)	*Temp (°C)	ORP (mV)
10:30		6.45	0.51	4.63	3.69	13.7	257.8
10:33		6.46	0.51	3.72	3.66	13.8	258.0
10:36		6.46	0.50	3.62	3.67	13.7	258.7
Expected Range		6 to 8.5	0 to 100	0 to 5	4 to 10	10 to 20	-350 to 350
Physical Range		0 to 14	0 to 10000	0 to 10000	0 to 20	0 to 100	-750 to 750

Sampling Information

Sample Container	Preservative	Analysis Required	Method Number	Laboratory
1 x 250mL Poly	HNO ³	Metals	SW846	Test America
1 x 500mL Poly	None	B, Ca, Cl, F, TSS		Test America
3 x 1L Poly	None	Radium		Test America

Other Information

Appearance (circle one) <u>Clear</u> Sl. Cloudy Cloudy	Odor (circle one) <u>None</u> Strong Weak
--	---

Field Notes:

Groundwater Monitoring Sampling Collection Field Log

Project: WEC MW Sampling Hastings, NE		(Circle One) Monthly Quarterly		Duplicate Collected: YES / <u>NO</u> If yes, Sample ID _____	
Sample No: <u>MW - 5B</u>		Weather: <u>CLR</u> P.CLDY CLDY FOG		Prepared By: <u>J. Sidlo</u>	
Sample Media: Groundwater		Temp: <u>50</u> °F Wind: <u>Calm</u> Mod High		Personnel:	
Sample Date: <u>11/7/25</u>		Precip: <u>Rain</u> Lite Mod High Snow: <u>Lite</u> Mod High		Sample Time: <u>10:25</u>	

Purging Information

Date: <u> </u> / <u> </u> / <u> </u>	Time Started: <u>10:00</u>	Time Completed: <u> </u>
Method: Electric 12V DC Sampling Pump		
Water Level: <u>121.3</u>	Purge Rate: <u> </u>	

Water Quality Parameters During Purging

Time	Volume Purged	*pH (mV)	*Cond. mS/m	Turbidity (NTU)	DO (mg/L)	*Temp (°C)	ORP (mV)
10:15		7.03	0.432	20.2	7.34	13.8	264.9
10:18		7.07	0.434	16.0	7.34	13.9	266.8
10:21		7.06	0.434	14.8	7.28	14.0	268.1
10:23		7.05	0.434	12.9	7.28	14.0	269.3
10:25		7.03	0.435	12.5	7.29	14.0	270.1
Expected Range		6 to 8.5	0 to 100	0 to 5	4 to 10	10 to 20	-350 to 350
Physical Range		0 to 14	0 to 10000	0 to 10000	0 to 20	0 to 100	-750 to 750

Sampling Information

Sample Container	Preservative	Analysis Required	Method Number	Laboratory
1 x 250mL Poly	HNO ³	Metals	SW846	Test America
1 x 500mL Poly	None	B,Ca,Cl,F, TSS		Test America
3 x 1L Poly	None	Radium		Test America

Other Information

Appearance (circle one) <u>Clear</u> Sl.Cloudy Cloudy	Odor (circle one) <u>None</u> Strong Weak
---	---

Field Notes:

Collected Equipment Blank

EB-01 11/7/25 11:00

Groundwater Monitoring Sampling Collection Field Log

Project: WEC MW Sampling Hastings, NE	(Circle One) Monthly Quarterly	Duplicate Collected: YES / <u>NO</u> If yes, Sample ID _____
Sample No: <u>12-5 MW-07</u>	Weather <u>CLR</u> P.CLDY CLDY FOG	Prepared By: <u>J Sidlo</u>
Sample Media: Groundwater	Temp <u>64</u> °F Wind Calm <u>Mod</u> High	Personnel:
Sample Date: <u>11/7/25</u>	Precip <u>Rain</u> Lite Mod High Snow Lite Mod High	Sample Time: <u>13:15</u>

Purging Information

Date: ___/___/___	Time Started: <u>12:52</u>	Time Completed:
Method: Electric 12V DC Sampling Pump		
Water Level: <u>125.28</u>	Purge Rate:	

Water Quality Parameters During Purging

Time	Volume Purged	*pH (mV)	*Cond. (µS/cm)	Turbidity (NTU)	DO (mg/L)	*Temp (°C)	ORP (mV)
13:08		6.67	0.51	7.08	4.22	16.4	257.7
13:11		6.64	0.51	7.74	4.29	16.5	257.0
13:14		6.67	0.50	6.43	4.26	16.5	257.4
Expected Range		6 to 8.5	0 to 100	0 to 5	4 to 10	10 to 20	-350 to 350
Physical Range		0 to 14	0 to 10000	0 to 10000	0 to 20	0 to 100	-750 to 750

Sampling Information

Sample Container	Preservative	Analysis Required	Method Number	Laboratory
1 x 250mL Poly	HNO ³	Metals	SW846	Test America
1 x 500mL Poly	None	B,Ca,Cl,F, TSS		Test America
3 x 1L Poly	None	Radium		Test America

Other Information

Appearance (circle one) <u>Clear</u> Sl.Cloudy Cloudy	Odor (circle one) <u>None</u> Strong Weak
---	---

Field Notes:

9

Groundwater Monitoring Sampling Collection Field Log

Project: WEC MW Sampling Hastings, NE		(Circle One) Monthly Quarterly		Duplicate Collected: YES / <u>NO</u> If yes, Sample ID _____	
Sample No: <u>MW-08</u>		Weather <u>CLR</u> P.CLDY CLDY FOG		Prepared By: <u>J. Sidlo</u>	
Sample Media: Groundwater		Temp <u>60</u> F Wind Calm <u>Mod</u> High		Personnel:	
Sample Date: <u>11/7/25</u>		Precip Rain Lite Med High Snow Lite Med High		Sample Time: <u>15:40</u>	

Purging Information

Date: <u> </u> / <u> </u> / <u> </u>	Time Started: <u>15:18</u>	Time Completed:
Method: Electric 12V DC Sampling Pump		
Water Level: <u>126.85</u>	Purge Rate:	

Water Quality Parameters During Purging

Time	Volume Purged	*pH (m/V)	*Cond. (S/m)	Turbidity (NTU)	DO (mg/L)	*Temp (°C)	ORP (mV)
15:32		7.05	0.459	2.04	5.21	15.3	184.6
15:35		7.08	0.458	1.86	5.21	15.3	178.8
15:38		7.06	0.456	0.98	5.24	15.3	174.4
15:40		7.06	0.456	0.80	5.22	15.3	174.4
Expected Range		6 to 8.5	0 to 100	0 to 5	4 to 10	10 to 20	-350 to 350
Physical Range		0 to 14	0 to 10000	0 to 10000	0 to 20	0 to 100	-750 to 750

Sampling Information

Sample Container	Preservative	Analysis Required	Method Number	Laboratory
1 x 250mL Poly	HNO ³	Metals	SW846	Test America
1 x 500mL Poly	None	B,Ca,Cl,F, TSS		Test America
3 x 1L Poly	None	Radium		Test America

Other Information

Appearance (circle one) <u>Clear</u> Sl.Cloudy Cloudy	Odor (circle one) <u>None</u> Strong Weak
---	---

Field Notes:

grinding/shaving metal
Welding torching in the area of sampling. Bagged samples
at collection time.

Groundwater Monitoring Sampling Collection Field Log

Project: WEC MW Sampling Hastings, NE		(Circle One) Monthly Quarterly		Duplicate Collected: YES / NO If yes, Sample ID _____	
Sample No: MW-09		Weather CLR P.CLDY CLDY FOG		Prepared By: J. Sidlo	
Sample Media: Groundwater		Temp 64 °F Wind Calm Mod High		Personnel:	
Sample Date: 11/17/25		Precip Rain Lite Mod High Snow Lite Mod High		Sample Time: 12:00	

Purging Information

Date: ____/____/____	Time Started: 11:35	Time Completed: 12:15
Method: Electric 12V DC Sampling Pump		
Water Level: 115.72	Purge Rate: _____	

Water Quality Parameters During Purging

Time	Volume Purged	*pH (m/V)	*Cond. (µS/cm)	Turbidity (NTU)	DO (mg/L)	*Temp (°C)	ORP (mV)
11:50		6.98	0.478	2.96	6.41	16.0	244.0
11:53		6.94	0.496	1.89	6.45	15.9	246.0
11:56		6.95	0.480	2.29	6.41	16.0	
		6.95	0.478	1.89	6.40	16.0	
Expected Range		6 to 8.5	0 to 100	0 to 5	4 to 10	10 to 20	-350 to 350
Physical Range		0 to 14	0 to 10000	0 to 10000	0 to 20	0 to 100	-750 to 750

249.5
251.3

Sampling Information

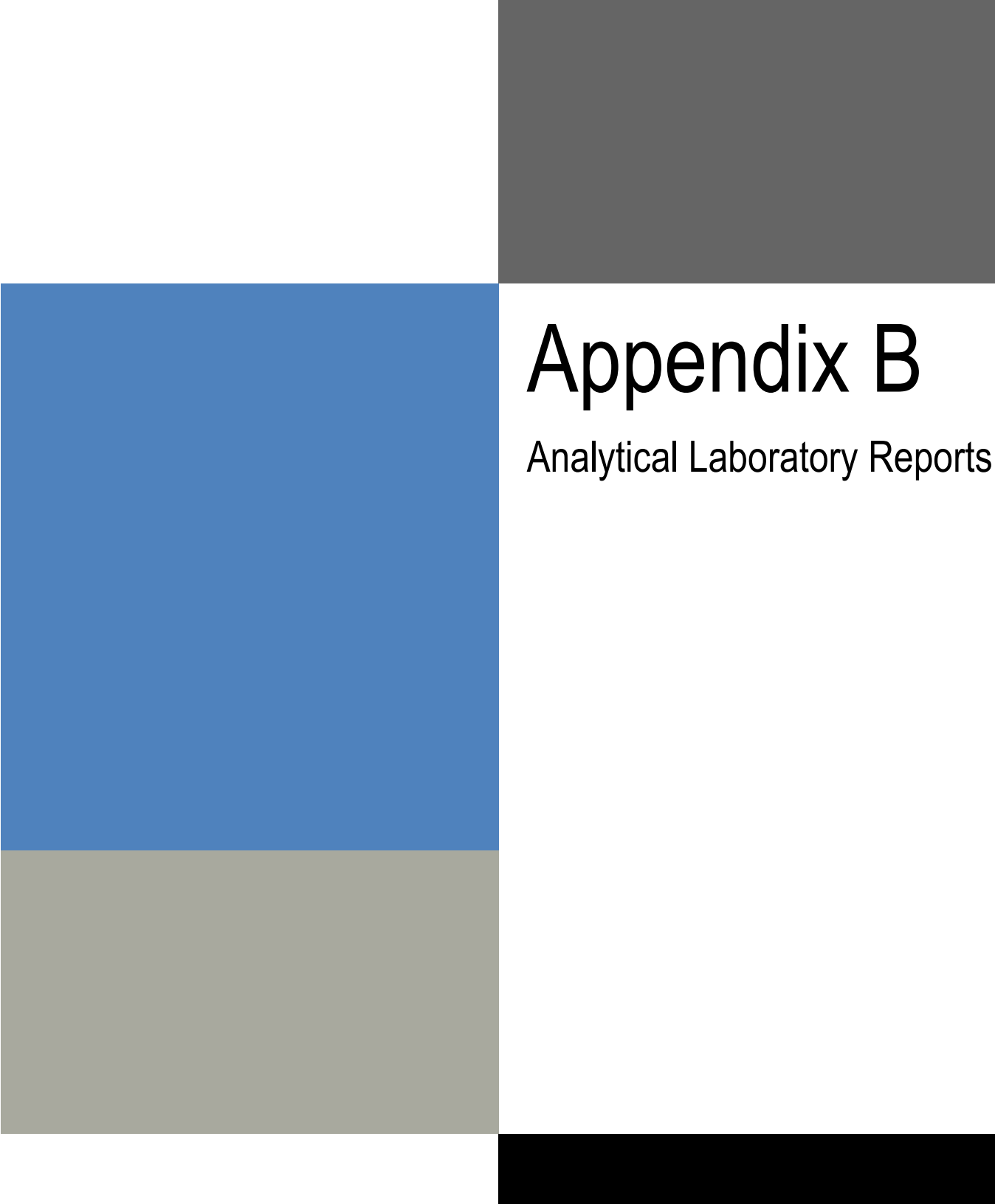
Sample Container	Preservative	Analysis Required	Method Number	Laboratory
1 x 250mL Poly	HNO ³	Metals	SW846	Test America
1 x 500mL Poly	None	B, Ca, Cl, F, TSS		Test America
3 x 1L Poly	None	Radium		Test America

Other Information

Appearance (circle one) Clear Sl. Cloudy Cloudy	Odor (circle one) None Strong Weak
--	---

Field Notes:

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Appendix B

Analytical Laboratory Reports

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ANALYTICAL REPORT

PREPARED FOR

Attn: Jenny Sidlo
Public Power Generation Agency
1228 N Denver Ave
PO BOX 289
Hastings, Nebraska 68901

Generated 5/23/2025 1:19:22 PM

JOB DESCRIPTION

WEC MW Sampling
WEC - In Network CCR Wells

JOB NUMBER

310-306220-1

Eurofins Cedar Falls

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing North Central, LLC Project Manager.

Authorization



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5/23/2025 1:19:22 PM

Authorized for release by
Samuel Miller, Project Management Assistant I
Samuel.Miller@et.eurofinsus.com
(319)595-2008

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Case Narrative

Client: Public Power Generation Agency
Project: WEC MW Sampling

Job ID: 310-306220-1

Job ID: 310-306220-1

Eurofins Cedar Falls

Job Narrative 310-306220-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 5/13/2025 8:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -0.2°C.

HPLC/IC

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

Metals

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

General Chemistry

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

Eurofins Cedar Falls

Sample Summary

Client: Public Power Generation Agency
Project/Site: WEC MW Sampling

Job ID: 310-306220-1
SDG: WEC - In Network CCR Wells

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-306220-1	MW-01	Water	05/06/25 10:00	05/13/25 08:30
310-306220-2	MW-2B	Water	05/06/25 10:40	05/13/25 08:30
310-306220-3	MW-4B	Water	05/06/25 16:15	05/13/25 08:30
310-306220-4	MW-5B	Water	05/06/25 13:15	05/13/25 08:30
310-306220-5	MW-07	Water	05/06/25 15:00	05/13/25 08:30
310-306220-6	MW-08	Water	05/06/25 13:55	05/13/25 08:30
310-306220-7	MW-09	Water	05/07/25 10:10	05/13/25 08:30
310-306220-8	FB-01	Water	05/07/25 14:55	05/13/25 08:30
310-306220-9	EB-01	Water	05/06/25 14:20	05/13/25 08:30
310-306220-10	MW-208	Water	05/06/25 08:30	05/13/25 08:30

Detection Summary

Client: Public Power Generation Agency
Project/Site: WEC MW Sampling

Job ID: 310-306220-1
SDG: WEC - In Network CCR Wells

Client Sample ID: MW-01

Lab Sample ID: 310-306220-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Chloride	29.1		1.00	0.450	mg/L	1			300.0	Total/NA
Fluoride	0.645		0.200	0.0750	mg/L	1			300.0	Total/NA
Sulfate	145		5.00	2.10	mg/L	5			300.0	Total/NA
Arsenic	0.00365		0.00200	0.000530	mg/L	1			200.8	Total/NA
Barium	0.0750		0.00200	0.000660	mg/L	1			200.8	Total/NA
Boron	0.905		0.100	0.0820	mg/L	1			200.8	Total/NA
Calcium	30.8		0.500	0.190	mg/L	1			200.8	Total/NA
Chromium	0.0422		0.00500	0.00180	mg/L	1			200.8	Total/NA
Iron	0.130		0.100	0.0500	mg/L	1			200.8	Total/NA
Lithium	0.00949	J	0.0100	0.00290	mg/L	1			200.8	Total/NA
Molybdenum	0.0286		0.00200	0.00130	mg/L	1			200.8	Total/NA
Selenium	0.0443		0.00500	0.00140	mg/L	1			200.8	Total/NA
Total Dissolved Solids	360		50.0	36.0	mg/L	1			SM 2540C	Total/NA

Client Sample ID: MW-2B

Lab Sample ID: 310-306220-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Chloride	30.2		1.00	0.450	mg/L	1			300.0	Total/NA
Fluoride	0.302		0.200	0.0750	mg/L	1			300.0	Total/NA
Sulfate	126		5.00	2.10	mg/L	5			300.0	Total/NA
Arsenic	0.00227		0.00200	0.000530	mg/L	1			200.8	Total/NA
Barium	0.189		0.00200	0.000660	mg/L	1			200.8	Total/NA
Boron	0.544		0.100	0.0820	mg/L	1			200.8	Total/NA
Calcium	82.7		0.500	0.190	mg/L	1			200.8	Total/NA
Chromium	0.0163		0.00500	0.00180	mg/L	1			200.8	Total/NA
Lithium	0.0149		0.0100	0.00290	mg/L	1			200.8	Total/NA
Molybdenum	0.00270		0.00200	0.00130	mg/L	1			200.8	Total/NA
Selenium	0.0354		0.00500	0.00140	mg/L	1			200.8	Total/NA
Total Dissolved Solids	456		50.0	36.0	mg/L	1			SM 2540C	Total/NA

Client Sample ID: MW-4B

Lab Sample ID: 310-306220-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Chloride	28.9		1.00	0.450	mg/L	1			300.0	Total/NA
Fluoride	0.377		0.200	0.0750	mg/L	1			300.0	Total/NA
Sulfate	215		5.00	2.10	mg/L	5			300.0	Total/NA
Arsenic	0.00225		0.00200	0.000530	mg/L	1			200.8	Total/NA
Barium	0.0435		0.00200	0.000660	mg/L	1			200.8	Total/NA
Boron	0.735		0.100	0.0820	mg/L	1			200.8	Total/NA
Calcium	45.7		0.500	0.190	mg/L	1			200.8	Total/NA
Chromium	0.00553		0.00500	0.00180	mg/L	1			200.8	Total/NA
Iron	0.128		0.100	0.0500	mg/L	1			200.8	Total/NA
Lithium	0.0248		0.0100	0.00290	mg/L	1			200.8	Total/NA
Molybdenum	0.00970		0.00200	0.00130	mg/L	1			200.8	Total/NA
Selenium	0.0407		0.00500	0.00140	mg/L	1			200.8	Total/NA
Total Suspended Solids	4.00	J	5.00	3.50	mg/L	1			I-3765-85	Total/NA
Total Dissolved Solids	460		50.0	36.0	mg/L	1			SM 2540C	Total/NA

Client Sample ID: MW-5B

Lab Sample ID: 310-306220-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Chloride	25.1		1.00	0.450	mg/L	1			300.0	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Detection Summary

Client: Public Power Generation Agency
Project/Site: WEC MW Sampling

Job ID: 310-306220-1
SDG: WEC - In Network CCR Wells

Client Sample ID: MW-5B (Continued)

Lab Sample ID: 310-306220-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	1.31		0.200	0.0750	mg/L	1		300.0	Total/NA
Sulfate	115		5.00	2.10	mg/L	5		300.0	Total/NA
Arsenic	0.00443		0.00200	0.000530	mg/L	1		200.8	Total/NA
Barium	0.0655		0.00200	0.000660	mg/L	1		200.8	Total/NA
Boron	1.02		0.100	0.0820	mg/L	1		200.8	Total/NA
Calcium	34.5		0.500	0.190	mg/L	1		200.8	Total/NA
Chromium	0.0223		0.00500	0.00180	mg/L	1		200.8	Total/NA
Iron	0.214		0.100	0.0500	mg/L	1		200.8	Total/NA
Lithium	0.0115		0.0100	0.00290	mg/L	1		200.8	Total/NA
Molybdenum	0.0342		0.00200	0.00130	mg/L	1		200.8	Total/NA
Selenium	0.0513		0.00500	0.00140	mg/L	1		200.8	Total/NA
Total Dissolved Solids	374		50.0	36.0	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-07

Lab Sample ID: 310-306220-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	29.5		1.00	0.450	mg/L	1		300.0	Total/NA
Fluoride	0.739		0.200	0.0750	mg/L	1		300.0	Total/NA
Sulfate	153		5.00	2.10	mg/L	5		300.0	Total/NA
Arsenic	0.00332		0.00200	0.000530	mg/L	1		200.8	Total/NA
Barium	0.0605		0.00200	0.000660	mg/L	1		200.8	Total/NA
Boron	0.838		0.100	0.0820	mg/L	1		200.8	Total/NA
Calcium	43.5		0.500	0.190	mg/L	1		200.8	Total/NA
Chromium	0.0152		0.00500	0.00180	mg/L	1		200.8	Total/NA
Cobalt	0.000332	J	0.000500	0.000170	mg/L	1		200.8	Total/NA
Iron	1.33		0.100	0.0500	mg/L	1		200.8	Total/NA
Lead	0.000597		0.000500	0.000330	mg/L	1		200.8	Total/NA
Lithium	0.0137		0.0100	0.00290	mg/L	1		200.8	Total/NA
Molybdenum	0.0147		0.00200	0.00130	mg/L	1		200.8	Total/NA
Selenium	0.0688		0.00500	0.00140	mg/L	1		200.8	Total/NA
Total Suspended Solids	17.3		5.00	3.50	mg/L	1		I-3765-85	Total/NA
Total Dissolved Solids	386		50.0	36.0	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-08

Lab Sample ID: 310-306220-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	30.5		1.00	0.450	mg/L	1		300.0	Total/NA
Fluoride	1.09		0.200	0.0750	mg/L	1		300.0	Total/NA
Sulfate	190		5.00	2.10	mg/L	5		300.0	Total/NA
Arsenic	0.00327		0.00200	0.000530	mg/L	1		200.8	Total/NA
Barium	0.0590		0.00200	0.000660	mg/L	1		200.8	Total/NA
Boron	0.941		0.100	0.0820	mg/L	1		200.8	Total/NA
Calcium	39.0		0.500	0.190	mg/L	1		200.8	Total/NA
Chromium	0.0329		0.00500	0.00180	mg/L	1		200.8	Total/NA
Iron	0.157		0.100	0.0500	mg/L	1		200.8	Total/NA
Lithium	0.0107		0.0100	0.00290	mg/L	1		200.8	Total/NA
Molybdenum	0.0335		0.00200	0.00130	mg/L	1		200.8	Total/NA
Selenium	0.0533		0.00500	0.00140	mg/L	1		200.8	Total/NA
Total Dissolved Solids	428		50.0	36.0	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Detection Summary

Client: Public Power Generation Agency
Project/Site: WEC MW Sampling

Job ID: 310-306220-1
SDG: WEC - In Network CCR Wells

Client Sample ID: MW-09

Lab Sample ID: 310-306220-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	28.2		1.00	0.450	mg/L	1		300.0	Total/NA
Fluoride	0.956		0.200	0.0750	mg/L	1		300.0	Total/NA
Sulfate	132		5.00	2.10	mg/L	5		300.0	Total/NA
Arsenic	0.00261		0.00200	0.000530	mg/L	1		200.8	Total/NA
Barium	0.0967		0.00200	0.000660	mg/L	1		200.8	Total/NA
Boron	0.876		0.100	0.0820	mg/L	1		200.8	Total/NA
Calcium	40.5		0.500	0.190	mg/L	1		200.8	Total/NA
Chromium	0.0186		0.00500	0.00180	mg/L	1		200.8	Total/NA
Iron	0.0591	J	0.100	0.0500	mg/L	1		200.8	Total/NA
Lithium	0.0112		0.0100	0.00290	mg/L	1		200.8	Total/NA
Molybdenum	0.0183		0.00200	0.00130	mg/L	1		200.8	Total/NA
Selenium	0.0852		0.00500	0.00140	mg/L	1		200.8	Total/NA
Total Dissolved Solids	368		50.0	36.0	mg/L	1		SM 2540C	Total/NA

Client Sample ID: FB-01

Lab Sample ID: 310-306220-8

No Detections.

Client Sample ID: EB-01

Lab Sample ID: 310-306220-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.00496		0.00200	0.000660	mg/L	1		200.8	Total/NA
Iron	0.0614	J	0.100	0.0500	mg/L	1		200.8	Total/NA

Client Sample ID: MW-208

Lab Sample ID: 310-306220-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	30.5		1.00	0.450	mg/L	1		300.0	Total/NA
Fluoride	1.09		0.200	0.0750	mg/L	1		300.0	Total/NA
Sulfate	189		5.00	2.10	mg/L	5		300.0	Total/NA
Arsenic	0.00328		0.00200	0.000530	mg/L	1		200.8	Total/NA
Barium	0.0613		0.00200	0.000660	mg/L	1		200.8	Total/NA
Boron	0.964		0.100	0.0820	mg/L	1		200.8	Total/NA
Calcium	40.0		0.500	0.190	mg/L	1		200.8	Total/NA
Chromium	0.0325		0.00500	0.00180	mg/L	1		200.8	Total/NA
Iron	0.118		0.100	0.0500	mg/L	1		200.8	Total/NA
Lithium	0.0109		0.0100	0.00290	mg/L	1		200.8	Total/NA
Molybdenum	0.0344		0.00200	0.00130	mg/L	1		200.8	Total/NA
Selenium	0.0534		0.00500	0.00140	mg/L	1		200.8	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Client Sample Results

Client: Public Power Generation Agency
Project/Site: WEC MW Sampling

Job ID: 310-306220-1
SDG: WEC - In Network CCR Wells

Client Sample ID: MW-01

Lab Sample ID: 310-306220-1

Date Collected: 05/06/25 10:00

Matrix: Water

Date Received: 05/13/25 08:30

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	29.1		1.00	0.450	mg/L			05/13/25 10:40	1
Fluoride	0.645		0.200	0.0750	mg/L			05/13/25 10:40	1
Sulfate	145		5.00	2.10	mg/L			05/13/25 18:44	5

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		05/15/25 09:00	05/15/25 19:09	1
Arsenic	0.00365		0.00200	0.000530	mg/L		05/15/25 09:00	05/15/25 19:09	1
Barium	0.0750		0.00200	0.000660	mg/L		05/15/25 09:00	05/15/25 19:09	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		05/15/25 09:00	05/15/25 19:09	1
Boron	0.905		0.100	0.0820	mg/L		05/15/25 09:00	05/15/25 19:09	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		05/15/25 09:00	05/15/25 19:09	1
Calcium	30.8		0.500	0.190	mg/L		05/15/25 09:00	05/15/25 19:09	1
Chromium	0.0422		0.00500	0.00180	mg/L		05/15/25 09:00	05/15/25 19:09	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		05/15/25 09:00	05/15/25 19:09	1
Iron	0.130		0.100	0.0500	mg/L		05/15/25 09:00	05/15/25 19:09	1
Lead	<0.000500		0.000500	0.000330	mg/L		05/15/25 09:00	05/15/25 19:09	1
Lithium	0.00949 J		0.0100	0.00290	mg/L		05/15/25 09:00	05/15/25 19:09	1
Molybdenum	0.0286		0.00200	0.00130	mg/L		05/15/25 09:00	05/15/25 19:09	1
Nickel	<0.00500		0.00500	0.00230	mg/L		05/15/25 09:00	05/15/25 19:09	1
Selenium	0.0443		0.00500	0.00140	mg/L		05/15/25 09:00	05/15/25 19:09	1
Thallium	<0.00100		0.00100	0.000570	mg/L		05/15/25 09:00	05/15/25 19:09	1
Copper	<0.00500		0.00500	0.00320	mg/L		05/15/25 09:00	05/15/25 19:09	1

Method: EPA 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200	0.000110	mg/L		05/19/25 12:24	05/20/25 13:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	<5.00		5.00	3.50	mg/L			05/13/25 11:52	1
Total Dissolved Solids (SM 2540C)	360		50.0	36.0	mg/L			05/13/25 14:12	1

Client Sample Results

Client: Public Power Generation Agency
Project/Site: WEC MW Sampling

Job ID: 310-306220-1
SDG: WEC - In Network CCR Wells

Client Sample ID: MW-2B

Lab Sample ID: 310-306220-2

Date Collected: 05/06/25 10:40

Matrix: Water

Date Received: 05/13/25 08:30

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	30.2		1.00	0.450	mg/L			05/13/25 11:19	1
Fluoride	0.302		0.200	0.0750	mg/L			05/13/25 11:19	1
Sulfate	126		5.00	2.10	mg/L			05/13/25 19:23	5

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		05/15/25 09:00	05/22/25 15:02	1
Arsenic	0.00227		0.00200	0.000530	mg/L		05/15/25 09:00	05/20/25 19:14	1
Barium	0.189		0.00200	0.000660	mg/L		05/15/25 09:00	05/20/25 19:14	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		05/15/25 09:00	05/20/25 19:14	1
Boron	0.544		0.100	0.0820	mg/L		05/15/25 09:00	05/22/25 15:02	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		05/15/25 09:00	05/20/25 19:14	1
Calcium	82.7		0.500	0.190	mg/L		05/15/25 09:00	05/20/25 19:14	1
Chromium	0.0163		0.00500	0.00180	mg/L		05/15/25 09:00	05/20/25 19:14	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		05/15/25 09:00	05/20/25 19:14	1
Iron	<0.100		0.100	0.0500	mg/L		05/15/25 09:00	05/20/25 19:14	1
Lead	<0.000500		0.000500	0.000330	mg/L		05/15/25 09:00	05/20/25 19:14	1
Lithium	0.0149		0.0100	0.00290	mg/L		05/15/25 09:00	05/20/25 19:14	1
Molybdenum	0.00270		0.00200	0.00130	mg/L		05/15/25 09:00	05/20/25 19:14	1
Nickel	<0.00500		0.00500	0.00230	mg/L		05/15/25 09:00	05/20/25 19:14	1
Selenium	0.0354		0.00500	0.00140	mg/L		05/15/25 09:00	05/20/25 19:14	1
Thallium	<0.00100		0.00100	0.000570	mg/L		05/15/25 09:00	05/20/25 19:14	1
Copper	<0.00500		0.00500	0.00320	mg/L		05/15/25 09:00	05/20/25 19:14	1

Method: EPA 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200	0.000110	mg/L		05/19/25 12:24	05/20/25 13:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	<5.00		5.00	3.50	mg/L			05/13/25 11:52	1
Total Dissolved Solids (SM 2540C)	456		50.0	36.0	mg/L			05/13/25 14:12	1

Client Sample Results

Client: Public Power Generation Agency
Project/Site: WEC MW Sampling

Job ID: 310-306220-1
SDG: WEC - In Network CCR Wells

Client Sample ID: MW-4B

Lab Sample ID: 310-306220-3

Date Collected: 05/06/25 16:15

Matrix: Water

Date Received: 05/13/25 08:30

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	28.9		1.00	0.450	mg/L			05/13/25 11:33	1
Fluoride	0.377		0.200	0.0750	mg/L			05/13/25 11:33	1
Sulfate	215		5.00	2.10	mg/L			05/13/25 19:36	5

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		05/15/25 09:00	05/15/25 18:51	1
Arsenic	0.00225		0.00200	0.000530	mg/L		05/15/25 09:00	05/15/25 18:51	1
Barium	0.0435		0.00200	0.000660	mg/L		05/15/25 09:00	05/15/25 18:51	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		05/15/25 09:00	05/15/25 18:51	1
Boron	0.735		0.100	0.0820	mg/L		05/15/25 09:00	05/15/25 18:51	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		05/15/25 09:00	05/15/25 18:51	1
Calcium	45.7		0.500	0.190	mg/L		05/15/25 09:00	05/15/25 18:51	1
Chromium	0.00553		0.00500	0.00180	mg/L		05/15/25 09:00	05/15/25 18:51	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		05/15/25 09:00	05/15/25 18:51	1
Iron	0.128		0.100	0.0500	mg/L		05/15/25 09:00	05/15/25 18:51	1
Lead	<0.000500		0.000500	0.000330	mg/L		05/15/25 09:00	05/15/25 18:51	1
Lithium	0.0248		0.0100	0.00290	mg/L		05/15/25 09:00	05/15/25 18:51	1
Molybdenum	0.00970		0.00200	0.00130	mg/L		05/15/25 09:00	05/15/25 18:51	1
Nickel	<0.00500		0.00500	0.00230	mg/L		05/15/25 09:00	05/15/25 18:51	1
Selenium	0.0407		0.00500	0.00140	mg/L		05/15/25 09:00	05/15/25 18:51	1
Thallium	<0.00100		0.00100	0.000570	mg/L		05/15/25 09:00	05/15/25 18:51	1
Copper	<0.00500		0.00500	0.00320	mg/L		05/15/25 09:00	05/15/25 18:51	1

Method: EPA 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200	0.000110	mg/L		05/19/25 12:24	05/20/25 13:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	4.00	J	5.00	3.50	mg/L			05/13/25 11:52	1
Total Dissolved Solids (SM 2540C)	460		50.0	36.0	mg/L			05/13/25 14:12	1

Client Sample Results

Client: Public Power Generation Agency
Project/Site: WEC MW Sampling

Job ID: 310-306220-1
SDG: WEC - In Network CCR Wells

Client Sample ID: MW-5B

Lab Sample ID: 310-306220-4

Date Collected: 05/06/25 13:15

Matrix: Water

Date Received: 05/13/25 08:30

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	25.1		1.00	0.450	mg/L			05/13/25 11:46	1
Fluoride	1.31		0.200	0.0750	mg/L			05/13/25 11:46	1
Sulfate	115		5.00	2.10	mg/L			05/13/25 19:50	5

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		05/15/25 09:00	05/15/25 19:06	1
Arsenic	0.00443		0.00200	0.000530	mg/L		05/15/25 09:00	05/15/25 19:06	1
Barium	0.0655		0.00200	0.000660	mg/L		05/15/25 09:00	05/15/25 19:06	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		05/15/25 09:00	05/15/25 19:06	1
Boron	1.02		0.100	0.0820	mg/L		05/15/25 09:00	05/15/25 19:06	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		05/15/25 09:00	05/15/25 19:06	1
Calcium	34.5		0.500	0.190	mg/L		05/15/25 09:00	05/15/25 19:06	1
Chromium	0.0223		0.00500	0.00180	mg/L		05/15/25 09:00	05/15/25 19:06	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		05/15/25 09:00	05/15/25 19:06	1
Iron	0.214		0.100	0.0500	mg/L		05/15/25 09:00	05/15/25 19:06	1
Lead	<0.000500		0.000500	0.000330	mg/L		05/15/25 09:00	05/15/25 19:06	1
Lithium	0.0115		0.0100	0.00290	mg/L		05/15/25 09:00	05/15/25 19:06	1
Molybdenum	0.0342		0.00200	0.00130	mg/L		05/15/25 09:00	05/15/25 19:06	1
Nickel	<0.00500		0.00500	0.00230	mg/L		05/15/25 09:00	05/15/25 19:06	1
Selenium	0.0513		0.00500	0.00140	mg/L		05/15/25 09:00	05/15/25 19:06	1
Thallium	<0.00100		0.00100	0.000570	mg/L		05/15/25 09:00	05/15/25 19:06	1
Copper	<0.00500		0.00500	0.00320	mg/L		05/15/25 09:00	05/15/25 19:06	1

Method: EPA 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200	0.000110	mg/L		05/19/25 12:24	05/20/25 13:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	<5.00		5.00	3.50	mg/L			05/13/25 11:52	1
Total Dissolved Solids (SM 2540C)	374		50.0	36.0	mg/L			05/13/25 14:12	1

Client Sample Results

Client: Public Power Generation Agency
Project/Site: WEC MW Sampling

Job ID: 310-306220-1
SDG: WEC - In Network CCR Wells

Client Sample ID: MW-07

Lab Sample ID: 310-306220-5

Date Collected: 05/06/25 15:00

Matrix: Water

Date Received: 05/13/25 08:30

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	29.5		1.00	0.450	mg/L			05/13/25 11:59	1
Fluoride	0.739		0.200	0.0750	mg/L			05/13/25 11:59	1
Sulfate	153		5.00	2.10	mg/L			05/13/25 20:29	5

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		05/15/25 09:00	05/15/25 18:49	1
Arsenic	0.00332		0.00200	0.000530	mg/L		05/15/25 09:00	05/15/25 18:49	1
Barium	0.0605		0.00200	0.000660	mg/L		05/15/25 09:00	05/15/25 18:49	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		05/15/25 09:00	05/15/25 18:49	1
Boron	0.838		0.100	0.0820	mg/L		05/15/25 09:00	05/15/25 18:49	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		05/15/25 09:00	05/15/25 18:49	1
Calcium	43.5		0.500	0.190	mg/L		05/15/25 09:00	05/15/25 18:49	1
Chromium	0.0152		0.00500	0.00180	mg/L		05/15/25 09:00	05/15/25 18:49	1
Cobalt	0.000332	J	0.000500	0.000170	mg/L		05/15/25 09:00	05/15/25 18:49	1
Iron	1.33		0.100	0.0500	mg/L		05/15/25 09:00	05/15/25 18:49	1
Lead	0.000597		0.000500	0.000330	mg/L		05/15/25 09:00	05/15/25 18:49	1
Lithium	0.0137		0.0100	0.00290	mg/L		05/15/25 09:00	05/15/25 18:49	1
Molybdenum	0.0147		0.00200	0.00130	mg/L		05/15/25 09:00	05/15/25 18:49	1
Nickel	<0.00500		0.00500	0.00230	mg/L		05/15/25 09:00	05/15/25 18:49	1
Selenium	0.0688		0.00500	0.00140	mg/L		05/15/25 09:00	05/15/25 18:49	1
Thallium	<0.00100		0.00100	0.000570	mg/L		05/15/25 09:00	05/15/25 18:49	1
Copper	<0.00500		0.00500	0.00320	mg/L		05/15/25 09:00	05/15/25 18:49	1

Method: EPA 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200	0.000110	mg/L		05/19/25 12:24	05/20/25 13:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	17.3		5.00	3.50	mg/L			05/13/25 11:52	1
Total Dissolved Solids (SM 2540C)	386		50.0	36.0	mg/L			05/13/25 14:12	1

Client Sample Results

Client: Public Power Generation Agency
Project/Site: WEC MW Sampling

Job ID: 310-306220-1
SDG: WEC - In Network CCR Wells

Client Sample ID: MW-08

Lab Sample ID: 310-306220-6

Date Collected: 05/06/25 13:55

Matrix: Water

Date Received: 05/13/25 08:30

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	30.5		1.00	0.450	mg/L			05/13/25 12:12	1
Fluoride	1.09		0.200	0.0750	mg/L			05/13/25 12:12	1
Sulfate	190		5.00	2.10	mg/L			05/13/25 20:42	5

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		05/15/25 09:00	05/15/25 19:04	1
Arsenic	0.00327		0.00200	0.000530	mg/L		05/15/25 09:00	05/15/25 19:04	1
Barium	0.0590		0.00200	0.000660	mg/L		05/15/25 09:00	05/15/25 19:04	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		05/15/25 09:00	05/15/25 19:04	1
Boron	0.941		0.100	0.0820	mg/L		05/15/25 09:00	05/15/25 19:04	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		05/15/25 09:00	05/15/25 19:04	1
Calcium	39.0		0.500	0.190	mg/L		05/15/25 09:00	05/15/25 19:04	1
Chromium	0.0329		0.00500	0.00180	mg/L		05/15/25 09:00	05/15/25 19:04	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		05/15/25 09:00	05/15/25 19:04	1
Iron	0.157		0.100	0.0500	mg/L		05/15/25 09:00	05/15/25 19:04	1
Lead	<0.000500		0.000500	0.000330	mg/L		05/15/25 09:00	05/15/25 19:04	1
Lithium	0.0107		0.0100	0.00290	mg/L		05/15/25 09:00	05/15/25 19:04	1
Molybdenum	0.0335		0.00200	0.00130	mg/L		05/15/25 09:00	05/15/25 19:04	1
Nickel	<0.00500		0.00500	0.00230	mg/L		05/15/25 09:00	05/15/25 19:04	1
Selenium	0.0533		0.00500	0.00140	mg/L		05/15/25 09:00	05/15/25 19:04	1
Thallium	<0.00100		0.00100	0.000570	mg/L		05/15/25 09:00	05/15/25 19:04	1
Copper	<0.00500		0.00500	0.00320	mg/L		05/15/25 09:00	05/15/25 19:04	1

Method: EPA 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200	0.000110	mg/L		05/19/25 12:24	05/20/25 13:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	<5.00		5.00	3.50	mg/L			05/13/25 11:52	1
Total Dissolved Solids (SM 2540C)	428		50.0	36.0	mg/L			05/13/25 14:12	1

Client Sample Results

Client: Public Power Generation Agency
Project/Site: WEC MW Sampling

Job ID: 310-306220-1
SDG: WEC - In Network CCR Wells

Client Sample ID: MW-09

Lab Sample ID: 310-306220-7

Date Collected: 05/07/25 10:10

Matrix: Water

Date Received: 05/13/25 08:30

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	28.2		1.00	0.450	mg/L			05/13/25 12:51	1
Fluoride	0.956		0.200	0.0750	mg/L			05/13/25 12:51	1
Sulfate	132		5.00	2.10	mg/L			05/13/25 20:55	5

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		05/15/25 09:00	05/15/25 19:17	1
Arsenic	0.00261		0.00200	0.000530	mg/L		05/15/25 09:00	05/15/25 19:17	1
Barium	0.0967		0.00200	0.000660	mg/L		05/15/25 09:00	05/15/25 19:17	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		05/15/25 09:00	05/15/25 19:17	1
Boron	0.876		0.100	0.0820	mg/L		05/15/25 09:00	05/15/25 19:17	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		05/15/25 09:00	05/15/25 19:17	1
Calcium	40.5		0.500	0.190	mg/L		05/15/25 09:00	05/15/25 19:17	1
Chromium	0.0186		0.00500	0.00180	mg/L		05/15/25 09:00	05/15/25 19:17	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		05/15/25 09:00	05/15/25 19:17	1
Iron	0.0591 J		0.100	0.0500	mg/L		05/15/25 09:00	05/15/25 19:17	1
Lead	<0.000500		0.000500	0.000330	mg/L		05/15/25 09:00	05/15/25 19:17	1
Lithium	0.0112		0.0100	0.00290	mg/L		05/15/25 09:00	05/15/25 19:17	1
Molybdenum	0.0183		0.00200	0.00130	mg/L		05/15/25 09:00	05/15/25 19:17	1
Nickel	<0.00500		0.00500	0.00230	mg/L		05/15/25 09:00	05/15/25 19:17	1
Selenium	0.0852		0.00500	0.00140	mg/L		05/15/25 09:00	05/15/25 19:17	1
Thallium	<0.00100		0.00100	0.000570	mg/L		05/15/25 09:00	05/15/25 19:17	1
Copper	<0.00500		0.00500	0.00320	mg/L		05/15/25 09:00	05/15/25 19:17	1

Method: EPA 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200	0.000110	mg/L		05/19/25 12:24	05/20/25 13:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	<5.00		5.00	3.50	mg/L			05/13/25 11:52	1
Total Dissolved Solids (SM 2540C)	368		50.0	36.0	mg/L			05/13/25 14:12	1

Client Sample Results

Client: Public Power Generation Agency
Project/Site: WEC MW Sampling

Job ID: 310-306220-1
SDG: WEC - In Network CCR Wells

Client Sample ID: FB-01

Lab Sample ID: 310-306220-8

Date Collected: 05/07/25 14:55

Matrix: Water

Date Received: 05/13/25 08:30

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<1.00		1.00	0.450	mg/L			05/13/25 13:04	1
Fluoride	<0.200		0.200	0.0750	mg/L			05/13/25 13:04	1
Sulfate	<1.00		1.00	0.420	mg/L			05/13/25 13:04	1

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		05/15/25 09:00	05/15/25 18:59	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		05/15/25 09:00	05/15/25 18:59	1
Barium	<0.00200		0.00200	0.000660	mg/L		05/15/25 09:00	05/15/25 18:59	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		05/15/25 09:00	05/15/25 18:59	1
Boron	<0.100		0.100	0.0820	mg/L		05/15/25 09:00	05/15/25 18:59	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		05/15/25 09:00	05/15/25 18:59	1
Calcium	<0.500		0.500	0.190	mg/L		05/15/25 09:00	05/15/25 18:59	1
Chromium	<0.00500		0.00500	0.00180	mg/L		05/15/25 09:00	05/15/25 18:59	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		05/15/25 09:00	05/15/25 18:59	1
Iron	<0.100		0.100	0.0500	mg/L		05/15/25 09:00	05/15/25 18:59	1
Lead	<0.000500		0.000500	0.000330	mg/L		05/15/25 09:00	05/15/25 18:59	1
Lithium	<0.0100		0.0100	0.00290	mg/L		05/15/25 09:00	05/15/25 18:59	1
Molybdenum	<0.00200		0.00200	0.00130	mg/L		05/15/25 09:00	05/15/25 18:59	1
Nickel	<0.00500		0.00500	0.00230	mg/L		05/15/25 09:00	05/15/25 18:59	1
Selenium	<0.00500		0.00500	0.00140	mg/L		05/15/25 09:00	05/15/25 18:59	1
Thallium	<0.00100		0.00100	0.000570	mg/L		05/15/25 09:00	05/15/25 18:59	1
Copper	<0.00500		0.00500	0.00320	mg/L		05/15/25 09:00	05/15/25 18:59	1

Method: EPA 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200	0.000110	mg/L		05/19/25 12:24	05/20/25 13:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	<5.00		5.00	3.50	mg/L			05/13/25 11:52	1
Total Dissolved Solids (SM 2540C)	<50.0		50.0	36.0	mg/L			05/13/25 14:12	1

Client Sample Results

Client: Public Power Generation Agency
Project/Site: WEC MW Sampling

Job ID: 310-306220-1
SDG: WEC - In Network CCR Wells

Client Sample ID: EB-01

Lab Sample ID: 310-306220-9

Date Collected: 05/06/25 14:20

Matrix: Water

Date Received: 05/13/25 08:30

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<1.00		1.00	0.450	mg/L			05/13/25 13:17	1
Fluoride	<0.200		0.200	0.0750	mg/L			05/13/25 13:17	1
Sulfate	<1.00		1.00	0.420	mg/L			05/13/25 13:17	1

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		05/15/25 09:00	05/15/25 19:12	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		05/15/25 09:00	05/15/25 19:12	1
Barium	0.00496		0.00200	0.000660	mg/L		05/15/25 09:00	05/15/25 19:12	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		05/15/25 09:00	05/15/25 19:12	1
Boron	<0.100		0.100	0.0820	mg/L		05/15/25 09:00	05/15/25 19:12	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		05/15/25 09:00	05/15/25 19:12	1
Calcium	<0.500		0.500	0.190	mg/L		05/15/25 09:00	05/15/25 19:12	1
Chromium	<0.00500		0.00500	0.00180	mg/L		05/15/25 09:00	05/15/25 19:12	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		05/15/25 09:00	05/15/25 19:12	1
Iron	0.0614	J	0.100	0.0500	mg/L		05/15/25 09:00	05/15/25 19:12	1
Lead	<0.000500		0.000500	0.000330	mg/L		05/15/25 09:00	05/15/25 19:12	1
Lithium	<0.0100		0.0100	0.00290	mg/L		05/15/25 09:00	05/15/25 19:12	1
Molybdenum	<0.00200		0.00200	0.00130	mg/L		05/15/25 09:00	05/15/25 19:12	1
Nickel	<0.00500		0.00500	0.00230	mg/L		05/15/25 09:00	05/15/25 19:12	1
Selenium	<0.00500		0.00500	0.00140	mg/L		05/15/25 09:00	05/15/25 19:12	1
Thallium	<0.00100		0.00100	0.000570	mg/L		05/15/25 09:00	05/15/25 19:12	1
Copper	<0.00500		0.00500	0.00320	mg/L		05/15/25 09:00	05/15/25 19:12	1

Method: EPA 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200	0.000110	mg/L		05/19/25 12:24	05/20/25 13:53	1

Client Sample Results

Client: Public Power Generation Agency
Project/Site: WEC MW Sampling

Job ID: 310-306220-1
SDG: WEC - In Network CCR Wells

Client Sample ID: MW-208

Lab Sample ID: 310-306220-10

Date Collected: 05/06/25 08:30

Matrix: Water

Date Received: 05/13/25 08:30

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	30.5		1.00	0.450	mg/L			05/13/25 13:30	1
Fluoride	1.09		0.200	0.0750	mg/L			05/13/25 13:30	1
Sulfate	189		5.00	2.10	mg/L			05/13/25 21:08	5

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		05/15/25 09:00	05/15/25 19:15	1
Arsenic	0.00328		0.00200	0.000530	mg/L		05/15/25 09:00	05/15/25 19:15	1
Barium	0.0613		0.00200	0.000660	mg/L		05/15/25 09:00	05/15/25 19:15	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		05/15/25 09:00	05/15/25 19:15	1
Boron	0.964		0.100	0.0820	mg/L		05/15/25 09:00	05/15/25 19:15	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		05/15/25 09:00	05/15/25 19:15	1
Calcium	40.0		0.500	0.190	mg/L		05/15/25 09:00	05/15/25 19:15	1
Chromium	0.0325		0.00500	0.00180	mg/L		05/15/25 09:00	05/15/25 19:15	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		05/15/25 09:00	05/15/25 19:15	1
Iron	0.118		0.100	0.0500	mg/L		05/15/25 09:00	05/15/25 19:15	1
Lead	<0.000500		0.000500	0.000330	mg/L		05/15/25 09:00	05/15/25 19:15	1
Lithium	0.0109		0.0100	0.00290	mg/L		05/15/25 09:00	05/15/25 19:15	1
Molybdenum	0.0344		0.00200	0.00130	mg/L		05/15/25 09:00	05/15/25 19:15	1
Nickel	<0.00500		0.00500	0.00230	mg/L		05/15/25 09:00	05/15/25 19:15	1
Selenium	0.0534		0.00500	0.00140	mg/L		05/15/25 09:00	05/15/25 19:15	1
Thallium	<0.00100		0.00100	0.000570	mg/L		05/15/25 09:00	05/15/25 19:15	1
Copper	<0.00500		0.00500	0.00320	mg/L		05/15/25 09:00	05/15/25 19:15	1

Method: EPA 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200	0.000110	mg/L		05/19/25 12:24	05/20/25 13:55	1

Definitions/Glossary

Client: Public Power Generation Agency
Project/Site: WEC MW Sampling

Job ID: 310-306220-1
SDG: WEC - In Network CCR Wells

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Metals

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

General Chemistry

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

Glossary

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

QC Sample Results

Client: Public Power Generation Agency
Project/Site: WEC MW Sampling

Job ID: 310-306220-1
SDG: WEC - In Network CCR Wells

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 310-454647/3

Matrix: Water

Analysis Batch: 454647

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<1.00		1.00	0.450	mg/L			05/13/25 10:15	1
Fluoride	<0.200		0.200	0.0750	mg/L			05/13/25 10:15	1
Sulfate	<1.00		1.00	0.420	mg/L			05/13/25 10:15	1

Lab Sample ID: LCS 310-454647/4

Matrix: Water

Analysis Batch: 454647

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.0	9.762		mg/L		98	90 - 110
Fluoride	2.00	2.038		mg/L		102	90 - 110
Sulfate	10.0	10.03		mg/L		100	90 - 110

Lab Sample ID: 310-306220-1 MS

Matrix: Water

Analysis Batch: 454647

Client Sample ID: MW-01

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	29.1		5.00	33.82	4	mg/L		94	80 - 120
Fluoride	0.645		1.00	1.653		mg/L		101	80 - 120

Lab Sample ID: 310-306220-1 MS

Matrix: Water

Analysis Batch: 454647

Client Sample ID: MW-01

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	145		25.0	166.6	4	mg/L		87	80 - 120

Lab Sample ID: 310-306220-1 MSD

Matrix: Water

Analysis Batch: 454647

Client Sample ID: MW-01

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	29.1		5.00	33.67	4	mg/L		91	80 - 120	0	15
Fluoride	0.645		1.00	1.628		mg/L		98	80 - 120	2	15

Lab Sample ID: 310-306220-1 MSD

Matrix: Water

Analysis Batch: 454647

Client Sample ID: MW-01

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	145		25.0	167.1	4	mg/L		89	80 - 120	0	15

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QC Sample Results

Client: Public Power Generation Agency
Project/Site: WEC MW Sampling

Job ID: 310-306220-1
SDG: WEC - In Network CCR Wells

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 310-454692/1-A
Matrix: Water
Analysis Batch: 454894

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 454692

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		05/15/25 09:00	05/15/25 18:09	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		05/15/25 09:00	05/15/25 18:09	1
Barium	<0.00200		0.00200	0.000660	mg/L		05/15/25 09:00	05/15/25 18:09	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		05/15/25 09:00	05/15/25 18:09	1
Boron	<0.100		0.100	0.0820	mg/L		05/15/25 09:00	05/15/25 18:09	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		05/15/25 09:00	05/15/25 18:09	1
Calcium	<0.500		0.500	0.190	mg/L		05/15/25 09:00	05/15/25 18:09	1
Chromium	<0.00500		0.00500	0.00180	mg/L		05/15/25 09:00	05/15/25 18:09	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		05/15/25 09:00	05/15/25 18:09	1
Iron	<0.100		0.100	0.0500	mg/L		05/15/25 09:00	05/15/25 18:09	1
Lead	<0.000500		0.000500	0.000330	mg/L		05/15/25 09:00	05/15/25 18:09	1
Lithium	<0.0100		0.0100	0.00290	mg/L		05/15/25 09:00	05/15/25 18:09	1
Molybdenum	<0.00200		0.00200	0.00130	mg/L		05/15/25 09:00	05/15/25 18:09	1
Nickel	<0.00500		0.00500	0.00230	mg/L		05/15/25 09:00	05/15/25 18:09	1
Selenium	<0.00500		0.00500	0.00140	mg/L		05/15/25 09:00	05/15/25 18:09	1
Copper	<0.00500		0.00500	0.00320	mg/L		05/15/25 09:00	05/15/25 18:09	1

Lab Sample ID: MB 310-454692/1-A
Matrix: Water
Analysis Batch: 454996

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 454692

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00100		0.00100	0.000570	mg/L		05/15/25 09:00	05/16/25 13:09	1

Lab Sample ID: LCS 310-454692/2-A
Matrix: Water
Analysis Batch: 454894

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 454692

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.200	0.2011		mg/L		101	85 - 115
Arsenic	0.200	0.1909		mg/L		95	85 - 115
Barium	0.100	0.09665		mg/L		97	85 - 115
Beryllium	0.100	0.08537		mg/L		85	85 - 115
Boron	0.200	0.2227		mg/L		111	85 - 115
Cadmium	0.100	0.09274		mg/L		93	85 - 115
Calcium	2.00	1.833		mg/L		92	85 - 115
Chromium	0.100	0.09189		mg/L		92	85 - 115
Cobalt	0.100	0.09553		mg/L		96	85 - 115
Iron	0.200	0.2048		mg/L		102	85 - 115
Lead	0.200	0.1900		mg/L		95	85 - 115
Lithium	0.200	0.1863		mg/L		93	85 - 115
Molybdenum	0.200	0.1923		mg/L		96	85 - 115
Nickel	0.200	0.1849		mg/L		92	85 - 115
Selenium	0.400	0.3579		mg/L		89	85 - 115
Copper	0.200	0.1879		mg/L		94	85 - 115

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QC Sample Results

Client: Public Power Generation Agency
Project/Site: WEC MW Sampling

Job ID: 310-306220-1
SDG: WEC - In Network CCR Wells

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 310-454692/2-A
Matrix: Water
Analysis Batch: 454996

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 454692

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Thallium	0.100	0.08833		mg/L		88	85 - 115

Lab Sample ID: 310-306220-8 DU
Matrix: Water
Analysis Batch: 454894

Client Sample ID: FB-01
Prep Type: Total/NA
Prep Batch: 454692

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	<0.00200		<0.00200		mg/L		NC	20
Arsenic	<0.00200		<0.00200		mg/L		NC	20
Barium	<0.00200		<0.00200		mg/L		NC	20
Beryllium	<0.00100		<0.00100		mg/L		NC	20
Boron	<0.100		<0.100		mg/L		NC	20
Cadmium	<0.000200		<0.000200		mg/L		NC	20
Calcium	<0.500		<0.500		mg/L		NC	20
Chromium	<0.00500		<0.00500		mg/L		NC	20
Cobalt	<0.000500		<0.000500		mg/L		NC	20
Iron	<0.100		<0.100		mg/L		NC	20
Lead	<0.000500		<0.000500		mg/L		NC	20
Lithium	<0.0100		<0.0100		mg/L		NC	20
Molybdenum	<0.00200		<0.00200		mg/L		NC	20
Nickel	<0.00500		<0.00500		mg/L		NC	20
Selenium	<0.00500		<0.00500		mg/L		NC	20
Thallium	<0.00100		<0.00100		mg/L		NC	20
Copper	<0.00500		<0.00500		mg/L		NC	20

Lab Sample ID: MB 310-454693/1-A
Matrix: Water
Analysis Batch: 455294

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 454693

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00200		0.00200	0.000530	mg/L		05/15/25 09:00	05/20/25 18:11	1
Barium	<0.00200		0.00200	0.000660	mg/L		05/15/25 09:00	05/20/25 18:11	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		05/15/25 09:00	05/20/25 18:11	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		05/15/25 09:00	05/20/25 18:11	1
Calcium	<0.500		0.500	0.190	mg/L		05/15/25 09:00	05/20/25 18:11	1
Chromium	<0.00500		0.00500	0.00180	mg/L		05/15/25 09:00	05/20/25 18:11	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		05/15/25 09:00	05/20/25 18:11	1
Iron	<0.100		0.100	0.0500	mg/L		05/15/25 09:00	05/20/25 18:11	1
Lead	<0.000500		0.000500	0.000330	mg/L		05/15/25 09:00	05/20/25 18:11	1
Lithium	<0.0100		0.0100	0.00290	mg/L		05/15/25 09:00	05/20/25 18:11	1
Molybdenum	<0.00200		0.00200	0.00130	mg/L		05/15/25 09:00	05/20/25 18:11	1
Nickel	<0.00500		0.00500	0.00230	mg/L		05/15/25 09:00	05/20/25 18:11	1
Selenium	<0.00500		0.00500	0.00140	mg/L		05/15/25 09:00	05/20/25 18:11	1
Thallium	<0.00100		0.00100	0.000570	mg/L		05/15/25 09:00	05/20/25 18:11	1
Copper	<0.00500		0.00500	0.00320	mg/L		05/15/25 09:00	05/20/25 18:11	1

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QC Sample Results

Client: Public Power Generation Agency
Project/Site: WEC MW Sampling

Job ID: 310-306220-1
SDG: WEC - In Network CCR Wells

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 310-454693/1-A
Matrix: Water
Analysis Batch: 455552

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 454693

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		05/15/25 09:00	05/22/25 14:23	1
Boron	<0.100		0.100	0.0820	mg/L		05/15/25 09:00	05/22/25 14:23	1

Lab Sample ID: LCS 310-454693/2-A
Matrix: Water
Analysis Batch: 455294

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 454693

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.200	0.1825		mg/L		91	85 - 115
Barium	0.100	0.09206		mg/L		92	85 - 115
Beryllium	0.100	0.08456		mg/L		85	85 - 115
Cadmium	0.100	0.08749		mg/L		87	85 - 115
Calcium	2.00	1.749		mg/L		87	85 - 115
Chromium	0.100	0.09105		mg/L		91	85 - 115
Cobalt	0.100	0.09109		mg/L		91	85 - 115
Iron	0.200	0.2096		mg/L		105	85 - 115
Lead	0.200	0.1886		mg/L		94	85 - 115
Lithium	0.200	0.1787		mg/L		89	85 - 115
Molybdenum	0.200	0.1866		mg/L		93	85 - 115
Nickel	0.200	0.1814		mg/L		91	85 - 115
Selenium	0.400	0.3459		mg/L		86	85 - 115
Thallium	0.100	0.08866		mg/L		89	85 - 115
Copper	0.200	0.1860		mg/L		93	85 - 115

Lab Sample ID: LCS 310-454693/2-A
Matrix: Water
Analysis Batch: 455552

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 454693

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.200	0.2060		mg/L		103	85 - 115
Boron	0.200	0.1801		mg/L		90	85 - 115

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 310-454980/1-A
Matrix: Water
Analysis Batch: 455258

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 454980

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200	0.000110	mg/L		05/19/25 12:24	05/20/25 13:09	1

Lab Sample ID: LCS 310-454980/2-A
Matrix: Water
Analysis Batch: 455258

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 454980

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00167	0.001728		mg/L		104	85 - 115

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QC Sample Results

Client: Public Power Generation Agency
Project/Site: WEC MW Sampling

Job ID: 310-306220-1
SDG: WEC - In Network CCR Wells

Method: 245.1 - Mercury (CVAA) (Continued)

Lab Sample ID: 310-306220-1 MS

Matrix: Water

Analysis Batch: 455258

Client Sample ID: MW-01

Prep Type: Total/NA

Prep Batch: 454980

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.000200		0.00167	0.001741		mg/L		104	70 - 130

Lab Sample ID: 310-306220-1 MSD

Matrix: Water

Analysis Batch: 455258

Client Sample ID: MW-01

Prep Type: Total/NA

Prep Batch: 454980

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.000200		0.00167	0.001740		mg/L		104	70 - 130	0	20

Method: I-3765-85 - Residue, Non-filterable (TSS)

Lab Sample ID: MB 310-454521/1

Matrix: Water

Analysis Batch: 454521

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<5.00		5.00	3.50	mg/L			05/13/25 11:52	1

Lab Sample ID: LCS 310-454521/2

Matrix: Water

Analysis Batch: 454521

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	100	98.00		mg/L		98	81 - 116

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 310-454548/1

Matrix: Water

Analysis Batch: 454548

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<50.0		50.0	36.0	mg/L			05/13/25 14:12	1

Lab Sample ID: LCS 310-454548/2

Matrix: Water

Analysis Batch: 454548

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	1000	988.0		mg/L		99	88 - 110

Lab Sample ID: 310-306220-1 DU

Matrix: Water

Analysis Batch: 454548

Client Sample ID: MW-01

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	360		362.0		mg/L		0.6	16

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QC Association Summary

Client: Public Power Generation Agency
Project/Site: WEC MW Sampling

Job ID: 310-306220-1
SDG: WEC - In Network CCR Wells

HPLC/IC

Analysis Batch: 454647

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-306220-1	MW-01	Total/NA	Water	300.0	
310-306220-1	MW-01	Total/NA	Water	300.0	
310-306220-2	MW-2B	Total/NA	Water	300.0	
310-306220-2	MW-2B	Total/NA	Water	300.0	
310-306220-3	MW-4B	Total/NA	Water	300.0	
310-306220-3	MW-4B	Total/NA	Water	300.0	
310-306220-4	MW-5B	Total/NA	Water	300.0	
310-306220-4	MW-5B	Total/NA	Water	300.0	
310-306220-5	MW-07	Total/NA	Water	300.0	
310-306220-5	MW-07	Total/NA	Water	300.0	
310-306220-6	MW-08	Total/NA	Water	300.0	
310-306220-6	MW-08	Total/NA	Water	300.0	
310-306220-7	MW-09	Total/NA	Water	300.0	
310-306220-7	MW-09	Total/NA	Water	300.0	
310-306220-8	FB-01	Total/NA	Water	300.0	
310-306220-9	EB-01	Total/NA	Water	300.0	
310-306220-10	MW-208	Total/NA	Water	300.0	
310-306220-10	MW-208	Total/NA	Water	300.0	
MB 310-454647/3	Method Blank	Total/NA	Water	300.0	
LCS 310-454647/4	Lab Control Sample	Total/NA	Water	300.0	
310-306220-1 MS	MW-01	Total/NA	Water	300.0	
310-306220-1 MS	MW-01	Total/NA	Water	300.0	
310-306220-1 MSD	MW-01	Total/NA	Water	300.0	
310-306220-1 MSD	MW-01	Total/NA	Water	300.0	

Metals

Prep Batch: 454692

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-306220-1	MW-01	Total/NA	Water	200.8	
310-306220-3	MW-4B	Total/NA	Water	200.8	
310-306220-4	MW-5B	Total/NA	Water	200.8	
310-306220-5	MW-07	Total/NA	Water	200.8	
310-306220-6	MW-08	Total/NA	Water	200.8	
310-306220-7	MW-09	Total/NA	Water	200.8	
310-306220-8	FB-01	Total/NA	Water	200.8	
310-306220-9	EB-01	Total/NA	Water	200.8	
310-306220-10	MW-208	Total/NA	Water	200.8	
MB 310-454692/1-A	Method Blank	Total/NA	Water	200.8	
LCS 310-454692/2-A	Lab Control Sample	Total/NA	Water	200.8	
310-306220-8 DU	FB-01	Total/NA	Water	200.8	

Prep Batch: 454693

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-306220-2	MW-2B	Total/NA	Water	200.8	
MB 310-454693/1-A	Method Blank	Total/NA	Water	200.8	
LCS 310-454693/2-A	Lab Control Sample	Total/NA	Water	200.8	

Analysis Batch: 454894

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-306220-1	MW-01	Total/NA	Water	200.8	454692

Eurofins Cedar Falls

QC Association Summary

Client: Public Power Generation Agency
Project/Site: WEC MW Sampling

Job ID: 310-306220-1
SDG: WEC - In Network CCR Wells

Metals (Continued)

Analysis Batch: 454894 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-306220-3	MW-4B	Total/NA	Water	200.8	454692
310-306220-4	MW-5B	Total/NA	Water	200.8	454692
310-306220-5	MW-07	Total/NA	Water	200.8	454692
310-306220-6	MW-08	Total/NA	Water	200.8	454692
310-306220-7	MW-09	Total/NA	Water	200.8	454692
310-306220-8	FB-01	Total/NA	Water	200.8	454692
310-306220-9	EB-01	Total/NA	Water	200.8	454692
310-306220-10	MW-208	Total/NA	Water	200.8	454692
MB 310-454692/1-A	Method Blank	Total/NA	Water	200.8	454692
LCS 310-454692/2-A	Lab Control Sample	Total/NA	Water	200.8	454692
310-306220-8 DU	FB-01	Total/NA	Water	200.8	454692

Prep Batch: 454980

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-306220-1	MW-01	Total/NA	Water	245.1	
310-306220-2	MW-2B	Total/NA	Water	245.1	
310-306220-3	MW-4B	Total/NA	Water	245.1	
310-306220-4	MW-5B	Total/NA	Water	245.1	
310-306220-5	MW-07	Total/NA	Water	245.1	
310-306220-6	MW-08	Total/NA	Water	245.1	
310-306220-7	MW-09	Total/NA	Water	245.1	
310-306220-8	FB-01	Total/NA	Water	245.1	
310-306220-9	EB-01	Total/NA	Water	245.1	
310-306220-10	MW-208	Total/NA	Water	245.1	
MB 310-454980/1-A	Method Blank	Total/NA	Water	245.1	
LCS 310-454980/2-A	Lab Control Sample	Total/NA	Water	245.1	
310-306220-1 MS	MW-01	Total/NA	Water	245.1	
310-306220-1 MSD	MW-01	Total/NA	Water	245.1	

Analysis Batch: 454996

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 310-454692/1-A	Method Blank	Total/NA	Water	200.8	454692
LCS 310-454692/2-A	Lab Control Sample	Total/NA	Water	200.8	454692

Analysis Batch: 455258

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-306220-1	MW-01	Total/NA	Water	245.1	454980
310-306220-2	MW-2B	Total/NA	Water	245.1	454980
310-306220-3	MW-4B	Total/NA	Water	245.1	454980
310-306220-4	MW-5B	Total/NA	Water	245.1	454980
310-306220-5	MW-07	Total/NA	Water	245.1	454980
310-306220-6	MW-08	Total/NA	Water	245.1	454980
310-306220-7	MW-09	Total/NA	Water	245.1	454980
310-306220-8	FB-01	Total/NA	Water	245.1	454980
310-306220-9	EB-01	Total/NA	Water	245.1	454980
310-306220-10	MW-208	Total/NA	Water	245.1	454980
MB 310-454980/1-A	Method Blank	Total/NA	Water	245.1	454980
LCS 310-454980/2-A	Lab Control Sample	Total/NA	Water	245.1	454980
310-306220-1 MS	MW-01	Total/NA	Water	245.1	454980
310-306220-1 MSD	MW-01	Total/NA	Water	245.1	454980

Eurofins Cedar Falls

QC Association Summary

Client: Public Power Generation Agency
Project/Site: WEC MW Sampling

Job ID: 310-306220-1
SDG: WEC - In Network CCR Wells

Metals

Analysis Batch: 455294

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-306220-2	MW-2B	Total/NA	Water	200.8	454693
MB 310-454693/1-A	Method Blank	Total/NA	Water	200.8	454693
LCS 310-454693/2-A	Lab Control Sample	Total/NA	Water	200.8	454693

Analysis Batch: 455552

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-306220-2	MW-2B	Total/NA	Water	200.8	454693
MB 310-454693/1-A	Method Blank	Total/NA	Water	200.8	454693
LCS 310-454693/2-A	Lab Control Sample	Total/NA	Water	200.8	454693

General Chemistry

Analysis Batch: 454521

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-306220-1	MW-01	Total/NA	Water	I-3765-85	
310-306220-2	MW-2B	Total/NA	Water	I-3765-85	
310-306220-3	MW-4B	Total/NA	Water	I-3765-85	
310-306220-4	MW-5B	Total/NA	Water	I-3765-85	
310-306220-5	MW-07	Total/NA	Water	I-3765-85	
310-306220-6	MW-08	Total/NA	Water	I-3765-85	
310-306220-7	MW-09	Total/NA	Water	I-3765-85	
310-306220-8	FB-01	Total/NA	Water	I-3765-85	
MB 310-454521/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-454521/2	Lab Control Sample	Total/NA	Water	I-3765-85	

Analysis Batch: 454548

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-306220-1	MW-01	Total/NA	Water	SM 2540C	
310-306220-2	MW-2B	Total/NA	Water	SM 2540C	
310-306220-3	MW-4B	Total/NA	Water	SM 2540C	
310-306220-4	MW-5B	Total/NA	Water	SM 2540C	
310-306220-5	MW-07	Total/NA	Water	SM 2540C	
310-306220-6	MW-08	Total/NA	Water	SM 2540C	
310-306220-7	MW-09	Total/NA	Water	SM 2540C	
310-306220-8	FB-01	Total/NA	Water	SM 2540C	
MB 310-454548/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 310-454548/2	Lab Control Sample	Total/NA	Water	SM 2540C	
310-306220-1 DU	MW-01	Total/NA	Water	SM 2540C	

Lab Chronicle

Client: Public Power Generation Agency
Project/Site: WEC MW Sampling

Job ID: 310-306220-1
SDG: WEC - In Network CCR Wells

Client Sample ID: MW-01

Date Collected: 05/06/25 10:00

Date Received: 05/13/25 08:30

Lab Sample ID: 310-306220-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		1	454647	QTZ5	EET CF	05/13/25 10:40
Total/NA	Analysis	300.0		5	454647	QTZ5	EET CF	05/13/25 18:44
Total/NA	Prep	200.8			454692	QTZ5	EET CF	05/15/25 09:00
Total/NA	Analysis	200.8		1	454894	NFT2	EET CF	05/15/25 19:09
Total/NA	Prep	245.1			454980	F5MW	EET CF	05/19/25 12:24
Total/NA	Analysis	245.1		1	455258	F5MW	EET CF	05/20/25 13:27
Total/NA	Analysis	I-3765-85		1	454521	HE7K	EET CF	05/13/25 11:52
Total/NA	Analysis	SM 2540C		1	454548	XJ7V	EET CF	05/13/25 14:12

Client Sample ID: MW-2B

Date Collected: 05/06/25 10:40

Date Received: 05/13/25 08:30

Lab Sample ID: 310-306220-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		1	454647	QTZ5	EET CF	05/13/25 11:19
Total/NA	Analysis	300.0		5	454647	QTZ5	EET CF	05/13/25 19:23
Total/NA	Prep	200.8			454693	QTZ5	EET CF	05/15/25 09:00
Total/NA	Analysis	200.8		1	455294	NFT2	EET CF	05/20/25 19:14
Total/NA	Prep	200.8			454693	QTZ5	EET CF	05/15/25 09:00
Total/NA	Analysis	200.8		1	455552	NFT2	EET CF	05/22/25 15:02
Total/NA	Prep	245.1			454980	F5MW	EET CF	05/19/25 12:24
Total/NA	Analysis	245.1		1	455258	F5MW	EET CF	05/20/25 13:33
Total/NA	Analysis	I-3765-85		1	454521	HE7K	EET CF	05/13/25 11:52
Total/NA	Analysis	SM 2540C		1	454548	XJ7V	EET CF	05/13/25 14:12

Client Sample ID: MW-4B

Date Collected: 05/06/25 16:15

Date Received: 05/13/25 08:30

Lab Sample ID: 310-306220-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		1	454647	QTZ5	EET CF	05/13/25 11:33
Total/NA	Analysis	300.0		5	454647	QTZ5	EET CF	05/13/25 19:36
Total/NA	Prep	200.8			454692	QTZ5	EET CF	05/15/25 09:00
Total/NA	Analysis	200.8		1	454894	NFT2	EET CF	05/15/25 18:51
Total/NA	Prep	245.1			454980	F5MW	EET CF	05/19/25 12:24
Total/NA	Analysis	245.1		1	455258	F5MW	EET CF	05/20/25 13:36
Total/NA	Analysis	I-3765-85		1	454521	HE7K	EET CF	05/13/25 11:52
Total/NA	Analysis	SM 2540C		1	454548	XJ7V	EET CF	05/13/25 14:12

Lab Chronicle

Client: Public Power Generation Agency
Project/Site: WEC MW Sampling

Job ID: 310-306220-1
SDG: WEC - In Network CCR Wells

Client Sample ID: MW-5B

Date Collected: 05/06/25 13:15

Date Received: 05/13/25 08:30

Lab Sample ID: 310-306220-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		1	454647	QTZ5	EET CF	05/13/25 11:46
Total/NA	Analysis	300.0		5	454647	QTZ5	EET CF	05/13/25 19:50
Total/NA	Prep	200.8			454692	QTZ5	EET CF	05/15/25 09:00
Total/NA	Analysis	200.8		1	454894	NFT2	EET CF	05/15/25 19:06
Total/NA	Prep	245.1			454980	F5MW	EET CF	05/19/25 12:24
Total/NA	Analysis	245.1		1	455258	F5MW	EET CF	05/20/25 13:38
Total/NA	Analysis	I-3765-85		1	454521	HE7K	EET CF	05/13/25 11:52
Total/NA	Analysis	SM 2540C		1	454548	XJ7V	EET CF	05/13/25 14:12

Client Sample ID: MW-07

Date Collected: 05/06/25 15:00

Date Received: 05/13/25 08:30

Lab Sample ID: 310-306220-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		1	454647	QTZ5	EET CF	05/13/25 11:59
Total/NA	Analysis	300.0		5	454647	QTZ5	EET CF	05/13/25 20:29
Total/NA	Prep	200.8			454692	QTZ5	EET CF	05/15/25 09:00
Total/NA	Analysis	200.8		1	454894	NFT2	EET CF	05/15/25 18:49
Total/NA	Prep	245.1			454980	F5MW	EET CF	05/19/25 12:24
Total/NA	Analysis	245.1		1	455258	F5MW	EET CF	05/20/25 13:40
Total/NA	Analysis	I-3765-85		1	454521	HE7K	EET CF	05/13/25 11:52
Total/NA	Analysis	SM 2540C		1	454548	XJ7V	EET CF	05/13/25 14:12

Client Sample ID: MW-08

Date Collected: 05/06/25 13:55

Date Received: 05/13/25 08:30

Lab Sample ID: 310-306220-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		1	454647	QTZ5	EET CF	05/13/25 12:12
Total/NA	Analysis	300.0		5	454647	QTZ5	EET CF	05/13/25 20:42
Total/NA	Prep	200.8			454692	QTZ5	EET CF	05/15/25 09:00
Total/NA	Analysis	200.8		1	454894	NFT2	EET CF	05/15/25 19:04
Total/NA	Prep	245.1			454980	F5MW	EET CF	05/19/25 12:24
Total/NA	Analysis	245.1		1	455258	F5MW	EET CF	05/20/25 13:42
Total/NA	Analysis	I-3765-85		1	454521	HE7K	EET CF	05/13/25 11:52
Total/NA	Analysis	SM 2540C		1	454548	XJ7V	EET CF	05/13/25 14:12

Client Sample ID: MW-09

Date Collected: 05/07/25 10:10

Date Received: 05/13/25 08:30

Lab Sample ID: 310-306220-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		1	454647	QTZ5	EET CF	05/13/25 12:51
Total/NA	Analysis	300.0		5	454647	QTZ5	EET CF	05/13/25 20:55

Eurofins Cedar Falls

Lab Chronicle

Client: Public Power Generation Agency
Project/Site: WEC MW Sampling

Job ID: 310-306220-1
SDG: WEC - In Network CCR Wells

Client Sample ID: MW-09

Date Collected: 05/07/25 10:10

Date Received: 05/13/25 08:30

Lab Sample ID: 310-306220-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	200.8			454692	QTZ5	EET CF	05/15/25 09:00
Total/NA	Analysis	200.8		1	454894	NFT2	EET CF	05/15/25 19:17
Total/NA	Prep	245.1			454980	F5MW	EET CF	05/19/25 12:24
Total/NA	Analysis	245.1		1	455258	F5MW	EET CF	05/20/25 13:44
Total/NA	Analysis	I-3765-85		1	454521	HE7K	EET CF	05/13/25 11:52
Total/NA	Analysis	SM 2540C		1	454548	XJ7V	EET CF	05/13/25 14:12

Client Sample ID: FB-01

Date Collected: 05/07/25 14:55

Date Received: 05/13/25 08:30

Lab Sample ID: 310-306220-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		1	454647	QTZ5	EET CF	05/13/25 13:04
Total/NA	Prep	200.8			454692	QTZ5	EET CF	05/15/25 09:00
Total/NA	Analysis	200.8		1	454894	NFT2	EET CF	05/15/25 18:59
Total/NA	Prep	245.1			454980	F5MW	EET CF	05/19/25 12:24
Total/NA	Analysis	245.1		1	455258	F5MW	EET CF	05/20/25 13:46
Total/NA	Analysis	I-3765-85		1	454521	HE7K	EET CF	05/13/25 11:52
Total/NA	Analysis	SM 2540C		1	454548	XJ7V	EET CF	05/13/25 14:12

Client Sample ID: EB-01

Date Collected: 05/06/25 14:20

Date Received: 05/13/25 08:30

Lab Sample ID: 310-306220-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		1	454647	QTZ5	EET CF	05/13/25 13:17
Total/NA	Prep	200.8			454692	QTZ5	EET CF	05/15/25 09:00
Total/NA	Analysis	200.8		1	454894	NFT2	EET CF	05/15/25 19:12
Total/NA	Prep	245.1			454980	F5MW	EET CF	05/19/25 12:24
Total/NA	Analysis	245.1		1	455258	F5MW	EET CF	05/20/25 13:53

Client Sample ID: MW-208

Date Collected: 05/06/25 08:30

Date Received: 05/13/25 08:30

Lab Sample ID: 310-306220-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		1	454647	QTZ5	EET CF	05/13/25 13:30
Total/NA	Analysis	300.0		5	454647	QTZ5	EET CF	05/13/25 21:08
Total/NA	Prep	200.8			454692	QTZ5	EET CF	05/15/25 09:00
Total/NA	Analysis	200.8		1	454894	NFT2	EET CF	05/15/25 19:15
Total/NA	Prep	245.1			454980	F5MW	EET CF	05/19/25 12:24
Total/NA	Analysis	245.1		1	455258	F5MW	EET CF	05/20/25 13:55

Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

Eurofins Cedar Falls

Accreditation/Certification Summary

Client: Public Power Generation Agency
Project/Site: WEC MW Sampling

Job ID: 310-306220-1
SDG: WEC - In Network CCR Wells

Laboratory: Eurofins Cedar Falls

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

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	IA100001	09-29-25

1
2
3
4
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12
13
14

Method Summary

Client: Public Power Generation Agency
Project/Site: WEC MW Sampling

Job ID: 310-306220-1
SDG: WEC - In Network CCR Wells

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	EPA	EET CF
200.8	Metals (ICP/MS)	EPA	EET CF
245.1	Mercury (CVAA)	EPA	EET CF
I-3765-85	Residue, Non-filterable (TSS)	USGS	EET CF
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET CF
200.8	Preparation, Total Metals	EPA	EET CF
245.1	Preparation, Mercury	EPA	EET CF

Protocol References:

EPA = US Environmental Protection Agency
SM = "Standard Methods For The Examination Of Water And Wastewater"
USGS = "Methods For Analysis Of Water And Fluvial Sediments", USGS, 1989

Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401



Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: <u>PPG/A</u>			
City/State: <u>PPG/A</u>	<u>NE</u>	Project:	
Receipt Information			
Date/Time Received:	<u>5/13/25</u>	<u>0830</u>	Received By: <u>R</u>
Delivery Type: ☒ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee ☐ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other:			
Condition of Cooler/Containers			
Sample(s) received in Cooler?		☒ Yes ☐ No	If yes: Cooler ID:
Multiple Coolers?		☐ Yes ☒ No	If yes: Cooler # ____ of ____
Cooler Custody Seals Present?		☒ Yes ☐ No	If yes: Cooler custody seals intact? ☐ Yes ☐ No
Sample Custody Seals Present?		☐ Yes ☒ No	If yes: Sample custody seals intact? ☐ Yes ☐ No
Trip Blank Present?		☐ Yes ☒ No	If yes: Which VOA samples are in cooler? ↓
Temperature Record			
Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other: ☐ NONE			
Thermometer ID: <u>R</u>		Correction Factor (°C): <u>40.0</u>	
• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C): <u>-0.2</u>		Corrected Temp (°C): <u>-0.2</u>	
• Sample Container Temperature			
Container(s) used:	<u>CONTAINER 1</u>	<u>CONTAINER 2</u>	
Uncorrected Temp (°C):			
Corrected Temp (°C):			
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No a) If yes: Is there evidence that the chilling process began? ☐ Yes ☐ No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No			
NOTE: If yes, contact PM before proceeding If no, proceed with login			
Additional Comments			

Chain of Custody Record

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc. d/b/a Eurofins TestAmerica

[illegible]

Login Sample Receipt Checklist

Client: Public Power Generation Agency

Job Number: 310-306220-1

SDG Number: WEC - In Network CCR Wells

Login Number: 306220

List Source: Eurofins Cedar Falls

List Number: 1

Creator: Homolar, Dana J

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

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

Eurofins Cedar Falls



ANALYTICAL REPORT

PREPARED FOR

Attn: Jenny Sidlo
Public Power Generation Agency
1228 N Denver Ave
PO BOX 289
Hastings, Nebraska 68901

Generated 5/14/2025 12:39:40 PM

JOB DESCRIPTION

WEC MW Sampling
WEC - In Network CCR Wells

JOB NUMBER

310-306220-2

Eurofins Cedar Falls

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing North Central, LLC Project Manager.

Authorization



Generated
5/14/2025 12:39:40 PM

Authorized for release by
Samuel Miller, Project Management Assistant I
Samuel.Miller@et.eurofinsus.com
(319)595-2008

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Case Narrative

Client: Public Power Generation Agency
Project: WEC MW Sampling

Job ID: 310-306220-2

Job ID: 310-306220-2

Eurofins Cedar Falls

Job Narrative 310-306220-2

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 5/13/2025 8:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -0.2°C.

HPLC/IC

Method 300_ORGFMS: The following samples were received outside of holding time: MW-01 (310-306220-1), MW-2B (310-306220-2), MW-4B (310-306220-3), MW-5B (310-306220-4), MW-07 (310-306220-5), MW-08 (310-306220-6), MW-09 (310-306220-7) and FB-01 (310-306220-8).

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

Eurofins Cedar Falls

Sample Summary

Client: Public Power Generation Agency
Project/Site: WEC MW Sampling

Job ID: 310-306220-2
SDG: WEC - In Network CCR Wells

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-306220-1	MW-01	Water	05/06/25 10:00	05/13/25 08:30
310-306220-2	MW-2B	Water	05/06/25 10:40	05/13/25 08:30
310-306220-3	MW-4B	Water	05/06/25 16:15	05/13/25 08:30
310-306220-4	MW-5B	Water	05/06/25 13:15	05/13/25 08:30
310-306220-5	MW-07	Water	05/06/25 15:00	05/13/25 08:30
310-306220-6	MW-08	Water	05/06/25 13:55	05/13/25 08:30
310-306220-7	MW-09	Water	05/07/25 10:10	05/13/25 08:30
310-306220-8	FB-01	Water	05/07/25 14:55	05/13/25 08:30

Detection Summary

Client: Public Power Generation Agency
Project/Site: WEC MW Sampling

Job ID: 310-306220-2
SDG: WEC - In Network CCR Wells

Client Sample ID: MW-01

Lab Sample ID: 310-306220-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrate as N	10.2	H H3	1.00	0.390	mg/L	5		300.0	Total/NA

Client Sample ID: MW-2B

Lab Sample ID: 310-306220-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrate as N	9.26	H H3	0.200	0.0780	mg/L	1		300.0	Total/NA

Client Sample ID: MW-4B

Lab Sample ID: 310-306220-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrate as N	5.40	H H3	0.200	0.0780	mg/L	1		300.0	Total/NA

Client Sample ID: MW-5B

Lab Sample ID: 310-306220-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrate as N	8.62	H H3	0.200	0.0780	mg/L	1		300.0	Total/NA

Client Sample ID: MW-07

Lab Sample ID: 310-306220-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrate as N	7.21	H H3	0.200	0.0780	mg/L	1		300.0	Total/NA

Client Sample ID: MW-08

Lab Sample ID: 310-306220-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrate as N	10.5	H H3	1.00	0.390	mg/L	5		300.0	Total/NA

Client Sample ID: MW-09

Lab Sample ID: 310-306220-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrate as N	8.54	H H3	0.200	0.0780	mg/L	1		300.0	Total/NA

Client Sample ID: FB-01

Lab Sample ID: 310-306220-8

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Client Sample Results

Client: Public Power Generation Agency
Project/Site: WEC MW Sampling

Job ID: 310-306220-2
SDG: WEC - In Network CCR Wells

Client Sample ID: MW-01
Date Collected: 05/06/25 10:00
Date Received: 05/13/25 08:30

Lab Sample ID: 310-306220-1
Matrix: Water

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	10.2	H H3	1.00	0.390	mg/L			05/13/25 18:44	5

Client Sample Results

Client: Public Power Generation Agency
Project/Site: WEC MW Sampling

Job ID: 310-306220-2
SDG: WEC - In Network CCR Wells

Client Sample ID: MW-2B
Date Collected: 05/06/25 10:40
Date Received: 05/13/25 08:30

Lab Sample ID: 310-306220-2
Matrix: Water

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	9.26	H H3	0.200	0.0780	mg/L			05/13/25 11:19	1

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Client Sample Results

Client: Public Power Generation Agency
Project/Site: WEC MW Sampling

Job ID: 310-306220-2
SDG: WEC - In Network CCR Wells

Client Sample ID: MW-4B
Date Collected: 05/06/25 16:15
Date Received: 05/13/25 08:30

Lab Sample ID: 310-306220-3
Matrix: Water

Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	5.40	H H3	0.200	0.0780	mg/L			05/13/25 11:33	1

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Client Sample Results

Client: Public Power Generation Agency
Project/Site: WEC MW Sampling

Job ID: 310-306220-2
SDG: WEC - In Network CCR Wells

Client Sample ID: MW-5B
Date Collected: 05/06/25 13:15
Date Received: 05/13/25 08:30

Lab Sample ID: 310-306220-4
Matrix: Water

Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	8.62	H H3	0.200	0.0780	mg/L			05/13/25 11:46	1

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Client Sample Results

Client: Public Power Generation Agency
Project/Site: WEC MW Sampling

Job ID: 310-306220-2
SDG: WEC - In Network CCR Wells

Client Sample ID: MW-07
Date Collected: 05/06/25 15:00
Date Received: 05/13/25 08:30

Lab Sample ID: 310-306220-5
Matrix: Water

Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	7.21	H H3	0.200	0.0780	mg/L			05/13/25 11:59	1

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Client Sample Results

Client: Public Power Generation Agency
Project/Site: WEC MW Sampling

Job ID: 310-306220-2
SDG: WEC - In Network CCR Wells

Client Sample ID: MW-08

Lab Sample ID: 310-306220-6

Date Collected: 05/06/25 13:55

Matrix: Water

Date Received: 05/13/25 08:30

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	10.5	H H3	1.00	0.390	mg/L			05/13/25 20:42	5

Client Sample Results

Client: Public Power Generation Agency
Project/Site: WEC MW Sampling

Job ID: 310-306220-2
SDG: WEC - In Network CCR Wells

Client Sample ID: MW-09
Date Collected: 05/07/25 10:10
Date Received: 05/13/25 08:30

Lab Sample ID: 310-306220-7
Matrix: Water

Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	8.54	H H3	0.200	0.0780	mg/L			05/13/25 12:51	1

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Client Sample Results

Client: Public Power Generation Agency
Project/Site: WEC MW Sampling

Job ID: 310-306220-2
SDG: WEC - In Network CCR Wells

Client Sample ID: FB-01

Lab Sample ID: 310-306220-8

Date Collected: 05/07/25 14:55

Matrix: Water

Date Received: 05/13/25 08:30

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.200	H H3	0.200	0.0780	mg/L			05/13/25 13:04	1

Definitions/Glossary

Client: Public Power Generation Agency
Project/Site: WEC MW Sampling

Job ID: 310-306220-2
SDG: WEC - In Network CCR Wells

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
H3	Sample was received and analyzed past holding time. This does not meet regulatory requirements.

Glossary

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

QC Sample Results

Client: Public Power Generation Agency
Project/Site: WEC MW Sampling

Job ID: 310-306220-2
SDG: WEC - In Network CCR Wells

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 310-454647/3

Matrix: Water

Analysis Batch: 454647

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.200		0.200	0.0780	mg/L			05/13/25 10:15	1

Lab Sample ID: LCS 310-454647/4

Matrix: Water

Analysis Batch: 454647

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	2.00	2.050		mg/L		103	90 - 110

Lab Sample ID: 310-306220-1 MS

Matrix: Water

Analysis Batch: 454647

Client Sample ID: MW-01

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	10.2	H H3	5.00	14.97		mg/L		96	80 - 120

Lab Sample ID: 310-306220-1 MSD

Matrix: Water

Analysis Batch: 454647

Client Sample ID: MW-01

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	10.2	H H3	5.00	15.03		mg/L		97	80 - 120	0	15

QC Association Summary

Client: Public Power Generation Agency
Project/Site: WEC MW Sampling

Job ID: 310-306220-2
SDG: WEC - In Network CCR Wells

HPLC/IC

Analysis Batch: 454647

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-306220-1	MW-01	Total/NA	Water	300.0	
310-306220-2	MW-2B	Total/NA	Water	300.0	
310-306220-3	MW-4B	Total/NA	Water	300.0	
310-306220-4	MW-5B	Total/NA	Water	300.0	
310-306220-5	MW-07	Total/NA	Water	300.0	
310-306220-6	MW-08	Total/NA	Water	300.0	
310-306220-7	MW-09	Total/NA	Water	300.0	
310-306220-8	FB-01	Total/NA	Water	300.0	
MB 310-454647/3	Method Blank	Total/NA	Water	300.0	
LCS 310-454647/4	Lab Control Sample	Total/NA	Water	300.0	
310-306220-1 MS	MW-01	Total/NA	Water	300.0	
310-306220-1 MSD	MW-01	Total/NA	Water	300.0	

Lab Chronicle

Client: Public Power Generation Agency
Project/Site: WEC MW Sampling

Job ID: 310-306220-2
SDG: WEC - In Network CCR Wells

Client Sample ID: MW-01

Date Collected: 05/06/25 10:00

Date Received: 05/13/25 08:30

Lab Sample ID: 310-306220-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		5	454647	QTZ5	EET CF	05/13/25 18:44

Client Sample ID: MW-2B

Date Collected: 05/06/25 10:40

Date Received: 05/13/25 08:30

Lab Sample ID: 310-306220-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		1	454647	QTZ5	EET CF	05/13/25 11:19

Client Sample ID: MW-4B

Date Collected: 05/06/25 16:15

Date Received: 05/13/25 08:30

Lab Sample ID: 310-306220-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		1	454647	QTZ5	EET CF	05/13/25 11:33

Client Sample ID: MW-5B

Date Collected: 05/06/25 13:15

Date Received: 05/13/25 08:30

Lab Sample ID: 310-306220-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		1	454647	QTZ5	EET CF	05/13/25 11:46

Client Sample ID: MW-07

Date Collected: 05/06/25 15:00

Date Received: 05/13/25 08:30

Lab Sample ID: 310-306220-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		1	454647	QTZ5	EET CF	05/13/25 11:59

Client Sample ID: MW-08

Date Collected: 05/06/25 13:55

Date Received: 05/13/25 08:30

Lab Sample ID: 310-306220-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		5	454647	QTZ5	EET CF	05/13/25 20:42

Client Sample ID: MW-09

Date Collected: 05/07/25 10:10

Date Received: 05/13/25 08:30

Lab Sample ID: 310-306220-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		1	454647	QTZ5	EET CF	05/13/25 12:51

Eurofins Cedar Falls

Lab Chronicle

Client: Public Power Generation Agency
Project/Site: WEC MW Sampling

Job ID: 310-306220-2
SDG: WEC - In Network CCR Wells

Client Sample ID: FB-01
Date Collected: 05/07/25 14:55
Date Received: 05/13/25 08:30

Lab Sample ID: 310-306220-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		1	454647	QTZ5	EET CF	05/13/25 13:04

Laboratory References:
EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

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Accreditation/Certification Summary

Client: Public Power Generation Agency
Project/Site: WEC MW Sampling

Job ID: 310-306220-2
SDG: WEC - In Network CCR Wells

Laboratory: Eurofins Cedar Falls

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

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	IA100001	09-29-25

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Method Summary

Client: Public Power Generation Agency
Project/Site: WEC MW Sampling

Job ID: 310-306220-2
SDG: WEC - In Network CCR Wells

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	EPA	EET CF

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

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Environment Testing
America



310-306220 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: <u>PPG A</u>			
City/State:	<u>PPG A</u>	<u>NE</u>	Project:
Receipt Information			
Date/Time Received:	<u>5/13/25</u>	<u>0830</u>	Received By: <u>R</u>
Delivery Type: ☒ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee ☐ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other: _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler?		☒ Yes ☐ No	If yes: Cooler ID: _____
Multiple Coolers?		☐ Yes ☒ No	If yes: Cooler # _____ of _____
Cooler Custody Seals Present?		☒ Yes ☐ No	If yes: Cooler custody seals intact? ☐ Yes ☐ No
Sample Custody Seals Present?		☐ Yes ☒ No	If yes: Sample custody seals intact? ☐ Yes ☐ No
Trip Blank Present?		☐ Yes ☒ No	If yes: Which VOA samples are in cooler? ↓
Temperature Record			
Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other: _____ ☐ NONE			
Thermometer ID: <u>R</u>		Correction Factor (°C): <u>40.0</u>	
• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C): <u>-0.2</u>		Corrected Temp (°C): <u>-0.2</u>	
• Sample Container Temperature			
Container(s) used:	<u>CONTAINER 1</u>	<u>CONTAINER 2</u>	
Uncorrected Temp (°C):			
Corrected Temp (°C):			
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No a) If yes: Is there evidence that the chilling process began? ☐ Yes ☐ No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No			
NOTE: If yes, contact PM before proceeding. If no, proceed with login			
Additional Comments			

[illegible]

Login Sample Receipt Checklist

Client: Public Power Generation Agency

Job Number: 310-306220-2
SDG Number: WEC - In Network CCR Wells

Login Number: 306220

List Number: 1

Creator: Homolar, Dana J

List Source: Eurofins Cedar Falls

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

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

Eurofins Cedar Falls



ANALYTICAL REPORT

PREPARED FOR

Attn: Jenny Sidlo
Public Power Generation Agency
1228 N Denver Ave
PO BOX 289
Hastings, Nebraska 68901

Generated 11/26/2025 11:02:45 AM

JOB DESCRIPTION

WEC MW Sampling
WEC - In Network CCR Wells

JOB NUMBER

310-320425-1

Eurofins Cedar Falls

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing North Central, LLC Project Manager.

Authorization



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Case Narrative

Client: Public Power Generation Agency
Project: WEC MW Sampling

Job ID: 310-320425-1

Job ID: 310-320425-1

Eurofins Cedar Falls

Job Narrative 310-320425-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The samples were received on 11/13/2025 8:35 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -1.3°C.

HPLC/IC

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

Metals

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

General Chemistry

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

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Case Narrative

Client: Public Power Generation Agency
Project: WEC MW Sampling

Job ID: 310-320425-1

Job ID: 310-320425-2

Eurofins Cedar Falls

Job Narrative 310-320425-2

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

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- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The samples were received on 11/13/2025 8:35 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -1.3°C.

HPLC/IC

Method 9056A_ORGFM_48H: The following samples were received outside of holding time: MW-01 (310-320425-1), MW-2B (310-320425-2), MW-4B (310-320425-3), MW-5B (310-320425-4), MW-07 (310-320425-5), MW-08 (310-320425-6), MW-09 (310-320425-7) and MW-102B (310-320425-8).

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

Eurofins Cedar Falls

Sample Summary

Client: Public Power Generation Agency
Project/Site: WEC MW Sampling

Job ID: 310-320425-1
SDG: WEC - In Network CCR Wells

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
310-320425-1	MW-01	Water	11/07/25 14:10	11/13/25 08:35	Nebraska
310-320425-2	MW-2B	Water	11/07/25 14:55	11/13/25 08:35	Nebraska
310-320425-3	MW-4B	Water	11/10/25 10:40	11/13/25 08:35	Nebraska
310-320425-4	MW-5B	Water	11/07/25 10:25	11/13/25 08:35	Nebraska
310-320425-5	MW-07	Water	11/07/25 13:15	11/13/25 08:35	Nebraska
310-320425-6	MW-08	Water	11/07/25 15:40	11/13/25 08:35	Nebraska
310-320425-7	MW-09	Water	11/07/25 12:00	11/13/25 08:35	Nebraska
310-320425-8	MW-102B	Water	11/07/25 15:15	11/13/25 08:35	Nebraska
310-320425-9	EB-01	Water	11/07/25 11:00	11/13/25 08:35	Nebraska

Detection Summary

Client: Public Power Generation Agency
Project/Site: WEC MW Sampling

Job ID: 310-320425-1
SDG: WEC - In Network CCR Wells

Client Sample ID: MW-01

Lab Sample ID: 310-320425-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	31.4		1.00	0.450	mg/L	1		9056A	Total/NA
Nitrate as N	10.8	H H3	2.00	0.780	mg/L	10		9056A	Total/NA
Fluoride	0.721		0.200	0.0750	mg/L	1		9056A	Total/NA
Sulfate	163		10.0	4.20	mg/L	10		9056A	Total/NA
Arsenic	0.00390		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.0794		0.00200	0.000660	mg/L	1		6020B	Total/NA
Boron	1.11		0.100	0.0820	mg/L	1		6020B	Total/NA
Calcium	36.8		0.500	0.190	mg/L	1		6020B	Total/NA
Chromium	0.0365		0.00500	0.00180	mg/L	1		6020B	Total/NA
Iron	0.173		0.100	0.0500	mg/L	1		6020B	Total/NA
Lithium	0.0102		0.0100	0.00290	mg/L	1		6020B	Total/NA
Molybdenum	0.0236		0.00200	0.00130	mg/L	1		6020B	Total/NA
Selenium	0.0337		0.00500	0.00140	mg/L	1		6020B	Total/NA
Total Suspended Solids	4.00	J	5.00	3.50	mg/L	1		I-3765-85	Total/NA
Total Dissolved Solids	380		50.0	36.0	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-2B

Lab Sample ID: 310-320425-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	30.4		1.00	0.450	mg/L	1		9056A	Total/NA
Nitrate as N	9.44	H H3	0.200	0.0780	mg/L	1		9056A	Total/NA
Fluoride	0.343		0.200	0.0750	mg/L	1		9056A	Total/NA
Sulfate	128		10.0	4.20	mg/L	10		9056A	Total/NA
Antimony	0.00198	J	0.00200	0.00100	mg/L	1		6020B	Total/NA
Arsenic	0.00222		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.157		0.00200	0.000660	mg/L	1		6020B	Total/NA
Boron	0.529		0.100	0.0820	mg/L	1		6020B	Total/NA
Calcium	67.7		0.500	0.190	mg/L	1		6020B	Total/NA
Chromium	0.0138		0.00500	0.00180	mg/L	1		6020B	Total/NA
Lithium	0.0136		0.0100	0.00290	mg/L	1		6020B	Total/NA
Molybdenum	0.00224		0.00200	0.00130	mg/L	1		6020B	Total/NA
Selenium	0.0318		0.00500	0.00140	mg/L	1		6020B	Total/NA
Total Dissolved Solids	470		50.0	36.0	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-4B

Lab Sample ID: 310-320425-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	28.9		1.00	0.450	mg/L	1		9056A	Total/NA
Nitrate as N	6.93	H H3	0.200	0.0780	mg/L	1		9056A	Total/NA
Fluoride	0.577		0.200	0.0750	mg/L	1		9056A	Total/NA
Sulfate	189		10.0	4.20	mg/L	10		9056A	Total/NA
Arsenic	0.00230		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.0356		0.00200	0.000660	mg/L	1		6020B	Total/NA
Boron	0.743		0.100	0.0820	mg/L	1		6020B	Total/NA
Calcium	42.3		0.500	0.190	mg/L	1		6020B	Total/NA
Chromium	0.0112		0.00500	0.00180	mg/L	1		6020B	Total/NA
Lithium	0.0208		0.0100	0.00290	mg/L	1		6020B	Total/NA
Molybdenum	0.00810		0.00200	0.00130	mg/L	1		6020B	Total/NA
Selenium	0.0494		0.00500	0.00140	mg/L	1		6020B	Total/NA
Total Suspended Solids	5.00		5.00	3.50	mg/L	1		I-3765-85	Total/NA
Total Dissolved Solids	396		50.0	36.0	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Detection Summary

Client: Public Power Generation Agency
Project/Site: WEC MW Sampling

Job ID: 310-320425-1
SDG: WEC - In Network CCR Wells

Client Sample ID: MW-5B

Lab Sample ID: 310-320425-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	26.7		1.00	0.450	mg/L	1		9056A	Total/NA
Nitrate as N	10.8	H H3	2.00	0.780	mg/L	10		9056A	Total/NA
Fluoride	1.04		0.200	0.0750	mg/L	1		9056A	Total/NA
Sulfate	131		10.0	4.20	mg/L	10		9056A	Total/NA
Arsenic	0.00335		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.0628		0.00200	0.000660	mg/L	1		6020B	Total/NA
Boron	1.32		0.100	0.0820	mg/L	1		6020B	Total/NA
Calcium	32.9		0.500	0.190	mg/L	1		6020B	Total/NA
Chromium	0.0411		0.00500	0.00180	mg/L	1		6020B	Total/NA
Cobalt	0.000175	J	0.000500	0.000170	mg/L	1		6020B	Total/NA
Iron	0.249		0.100	0.0500	mg/L	1		6020B	Total/NA
Lithium	0.0112		0.0100	0.00290	mg/L	1		6020B	Total/NA
Molybdenum	0.0219		0.00200	0.00130	mg/L	1		6020B	Total/NA
Selenium	0.0713		0.00500	0.00140	mg/L	1		6020B	Total/NA
Total Suspended Solids	7.33		5.00	3.50	mg/L	1		I-3765-85	Total/NA
Total Dissolved Solids	344		50.0	36.0	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-07

Lab Sample ID: 310-320425-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	28.7		1.00	0.450	mg/L	1		9056A	Total/NA
Nitrate as N	8.92	H H3	0.200	0.0780	mg/L	1		9056A	Total/NA
Fluoride	0.761		0.200	0.0750	mg/L	1		9056A	Total/NA
Sulfate	148		10.0	4.20	mg/L	10		9056A	Total/NA
Arsenic	0.00284		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.0474		0.00200	0.000660	mg/L	1		6020B	Total/NA
Boron	0.735		0.100	0.0820	mg/L	1		6020B	Total/NA
Calcium	41.5		0.500	0.190	mg/L	1		6020B	Total/NA
Chromium	0.0194		0.00500	0.00180	mg/L	1		6020B	Total/NA
Iron	0.140		0.100	0.0500	mg/L	1		6020B	Total/NA
Lithium	0.0128		0.0100	0.00290	mg/L	1		6020B	Total/NA
Molybdenum	0.0125		0.00200	0.00130	mg/L	1		6020B	Total/NA
Selenium	0.0606		0.00500	0.00140	mg/L	1		6020B	Total/NA
Total Suspended Solids	11.3		5.00	3.50	mg/L	1		I-3765-85	Total/NA
Total Dissolved Solids	380		50.0	36.0	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-08

Lab Sample ID: 310-320425-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	26.9		1.00	0.450	mg/L	1		9056A	Total/NA
Nitrate as N	10.9	H H3	2.00	0.780	mg/L	10		9056A	Total/NA
Fluoride	1.24		0.200	0.0750	mg/L	1		9056A	Total/NA
Sulfate	152		10.0	4.20	mg/L	10		9056A	Total/NA
Arsenic	0.00356		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.0459		0.00200	0.000660	mg/L	1		6020B	Total/NA
Boron	1.11		0.100	0.0820	mg/L	1		6020B	Total/NA
Calcium	30.2		0.500	0.190	mg/L	1		6020B	Total/NA
Chromium	0.0405		0.00500	0.00180	mg/L	1		6020B	Total/NA
Iron	0.0686	J	0.100	0.0500	mg/L	1		6020B	Total/NA
Lithium	0.00975	J	0.0100	0.00290	mg/L	1		6020B	Total/NA
Molybdenum	0.0436		0.00200	0.00130	mg/L	1		6020B	Total/NA
Selenium	0.0496		0.00500	0.00140	mg/L	1		6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Detection Summary

Client: Public Power Generation Agency
Project/Site: WEC MW Sampling

Job ID: 310-320425-1
SDG: WEC - In Network CCR Wells

Client Sample ID: MW-08 (Continued)

Lab Sample ID: 310-320425-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Solids	4.00	J	5.00	3.50	mg/L	1		I-3765-85	Total/NA
Total Dissolved Solids	364		50.0	36.0	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-09

Lab Sample ID: 310-320425-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	28.4		1.00	0.450	mg/L	1		9056A	Total/NA
Nitrate as N	9.40	H H3	0.200	0.0780	mg/L	1		9056A	Total/NA
Fluoride	1.06		0.200	0.0750	mg/L	1		9056A	Total/NA
Sulfate	142		10.0	4.20	mg/L	10		9056A	Total/NA
Arsenic	0.00233		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.0760		0.00200	0.000660	mg/L	1		6020B	Total/NA
Boron	0.782		0.100	0.0820	mg/L	1		6020B	Total/NA
Calcium	35.1		0.500	0.190	mg/L	1		6020B	Total/NA
Chromium	0.0248		0.00500	0.00180	mg/L	1		6020B	Total/NA
Lithium	0.0117		0.0100	0.00290	mg/L	1		6020B	Total/NA
Molybdenum	0.0126		0.00200	0.00130	mg/L	1		6020B	Total/NA
Selenium	0.0851		0.00500	0.00140	mg/L	1		6020B	Total/NA
Total Suspended Solids	4.67	J	5.00	3.50	mg/L	1		I-3765-85	Total/NA
Total Dissolved Solids	354		50.0	36.0	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-102B

Lab Sample ID: 310-320425-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	30.5		1.00	0.450	mg/L	1		9056A	Total/NA
Nitrate as N	9.46	H H3	0.200	0.0780	mg/L	1		9056A	Total/NA
Fluoride	0.330		0.200	0.0750	mg/L	1		9056A	Total/NA
Sulfate	130		10.0	4.20	mg/L	10		9056A	Total/NA
Arsenic	0.00227		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.162		0.00200	0.000660	mg/L	1		6020B	Total/NA
Boron	0.557		0.100	0.0820	mg/L	1		6020B	Total/NA
Calcium	70.7		0.500	0.190	mg/L	1		6020B	Total/NA
Chromium	0.0147		0.00500	0.00180	mg/L	1		6020B	Total/NA
Lithium	0.0139		0.0100	0.00290	mg/L	1		6020B	Total/NA
Molybdenum	0.00199	J	0.00200	0.00130	mg/L	1		6020B	Total/NA
Selenium	0.0323		0.00500	0.00140	mg/L	1		6020B	Total/NA
Total Dissolved Solids	448		50.0	36.0	mg/L	1		SM 2540C	Total/NA

Client Sample ID: EB-01

Lab Sample ID: 310-320425-9

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Client Sample Results

Client: Public Power Generation Agency
Project/Site: WEC MW Sampling

Job ID: 310-320425-1
SDG: WEC - In Network CCR Wells

Client Sample ID: MW-01

Lab Sample ID: 310-320425-1

Date Collected: 11/07/25 14:10

Matrix: Water

Date Received: 11/13/25 08:35

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	31.4		1.00	0.450	mg/L			11/13/25 14:00	1
Nitrate as N	10.8	H H3	2.00	0.780	mg/L			11/13/25 16:26	10
Fluoride	0.721		0.200	0.0750	mg/L			11/13/25 14:00	1
Sulfate	163		10.0	4.20	mg/L			11/13/25 16:26	10

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00100		0.00200	0.00100	mg/L		11/18/25 08:30	11/25/25 15:06	1
Arsenic	0.00390		0.00200	0.000530	mg/L		11/18/25 08:30	11/25/25 15:06	1
Barium	0.0794		0.00200	0.000660	mg/L		11/18/25 08:30	11/25/25 15:06	1
Beryllium	<0.000330		0.00100	0.000330	mg/L		11/18/25 08:30	11/25/25 15:06	1
Boron	1.11		0.100	0.0820	mg/L		11/18/25 08:30	11/25/25 15:06	1
Cadmium	<0.000100		0.000200	0.000100	mg/L		11/18/25 08:30	11/25/25 15:06	1
Calcium	36.8		0.500	0.190	mg/L		11/18/25 08:30	11/25/25 15:06	1
Chromium	0.0365		0.00500	0.00180	mg/L		11/18/25 08:30	11/25/25 15:06	1
Cobalt	<0.000170		0.000500	0.000170	mg/L		11/18/25 08:30	11/25/25 15:06	1
Iron	0.173		0.100	0.0500	mg/L		11/18/25 08:30	11/25/25 15:06	1
Lead	<0.000330		0.000500	0.000330	mg/L		11/18/25 08:30	11/25/25 15:06	1
Lithium	0.0102		0.0100	0.00290	mg/L		11/18/25 08:30	11/25/25 15:06	1
Molybdenum	0.0236		0.00200	0.00130	mg/L		11/18/25 08:30	11/25/25 15:06	1
Selenium	0.0337		0.00500	0.00140	mg/L		11/18/25 08:30	11/25/25 15:06	1
Thallium	<0.000570		0.00100	0.000570	mg/L		11/18/25 08:30	11/25/25 15:06	1
Copper	<0.00320		0.00500	0.00320	mg/L		11/18/25 08:30	11/25/25 15:06	1
Nickel	<0.00230		0.00500	0.00230	mg/L		11/18/25 08:30	11/25/25 15:06	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000110		0.000200	0.000110	mg/L		11/20/25 13:30	11/21/25 09:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	4.00	J	5.00	3.50	mg/L			11/13/25 12:36	1
Total Dissolved Solids (SM 2540C)	380		50.0	36.0	mg/L			11/14/25 13:08	1

Client Sample Results

Client: Public Power Generation Agency
Project/Site: WEC MW Sampling

Job ID: 310-320425-1
SDG: WEC - In Network CCR Wells

Client Sample ID: MW-2B

Date Collected: 11/07/25 14:55

Date Received: 11/13/25 08:35

Lab Sample ID: 310-320425-2

Matrix: Water

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	30.4		1.00	0.450	mg/L			11/13/25 12:48	1
Nitrate as N	9.44	H H3	0.200	0.0780	mg/L			11/13/25 12:48	1
Fluoride	0.343		0.200	0.0750	mg/L			11/13/25 12:48	1
Sulfate	128		10.0	4.20	mg/L			11/13/25 15:14	10

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00198	J	0.00200	0.00100	mg/L		11/18/25 08:30	11/25/25 15:13	1
Arsenic	0.00222		0.00200	0.000530	mg/L		11/18/25 08:30	11/25/25 15:13	1
Barium	0.157		0.00200	0.000660	mg/L		11/18/25 08:30	11/25/25 15:13	1
Beryllium	<0.000330		0.00100	0.000330	mg/L		11/18/25 08:30	11/25/25 15:13	1
Boron	0.529		0.100	0.0820	mg/L		11/18/25 08:30	11/25/25 15:13	1
Cadmium	<0.000100		0.000200	0.000100	mg/L		11/18/25 08:30	11/25/25 15:13	1
Calcium	67.7		0.500	0.190	mg/L		11/18/25 08:30	11/25/25 15:13	1
Chromium	0.0138		0.00500	0.00180	mg/L		11/18/25 08:30	11/25/25 15:13	1
Cobalt	<0.000170		0.000500	0.000170	mg/L		11/18/25 08:30	11/25/25 15:13	1
Iron	<0.0500		0.100	0.0500	mg/L		11/18/25 08:30	11/25/25 15:13	1
Lead	<0.000330		0.000500	0.000330	mg/L		11/18/25 08:30	11/25/25 15:13	1
Lithium	0.0136		0.0100	0.00290	mg/L		11/18/25 08:30	11/25/25 15:13	1
Molybdenum	0.00224		0.00200	0.00130	mg/L		11/18/25 08:30	11/25/25 15:13	1
Selenium	0.0318		0.00500	0.00140	mg/L		11/18/25 08:30	11/25/25 15:13	1
Thallium	<0.000570		0.00100	0.000570	mg/L		11/18/25 08:30	11/25/25 15:13	1
Copper	<0.00320		0.00500	0.00320	mg/L		11/18/25 08:30	11/25/25 15:13	1
Nickel	<0.00230		0.00500	0.00230	mg/L		11/18/25 08:30	11/25/25 15:13	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000110		0.000200	0.000110	mg/L		11/20/25 13:30	11/21/25 09:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	<3.50		5.00	3.50	mg/L			11/13/25 12:36	1
Total Dissolved Solids (SM 2540C)	470		50.0	36.0	mg/L			11/14/25 13:08	1

Client Sample Results

Client: Public Power Generation Agency
Project/Site: WEC MW Sampling

Job ID: 310-320425-1
SDG: WEC - In Network CCR Wells

Client Sample ID: MW-4B

Lab Sample ID: 310-320425-3

Date Collected: 11/10/25 10:40

Matrix: Water

Date Received: 11/13/25 08:35

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	28.9		1.00	0.450	mg/L			11/13/25 12:36	1
Nitrate as N	6.93	H H3	0.200	0.0780	mg/L			11/13/25 12:36	1
Fluoride	0.577		0.200	0.0750	mg/L			11/13/25 12:36	1
Sulfate	189		10.0	4.20	mg/L			11/13/25 15:02	10

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00100		0.00200	0.00100	mg/L		11/18/25 08:30	11/25/25 15:16	1
Arsenic	0.00230		0.00200	0.000530	mg/L		11/18/25 08:30	11/25/25 15:16	1
Barium	0.0356		0.00200	0.000660	mg/L		11/18/25 08:30	11/25/25 15:16	1
Beryllium	<0.000330		0.00100	0.000330	mg/L		11/18/25 08:30	11/25/25 15:16	1
Boron	0.743		0.100	0.0820	mg/L		11/18/25 08:30	11/25/25 15:16	1
Cadmium	<0.000100		0.000200	0.000100	mg/L		11/18/25 08:30	11/25/25 15:16	1
Calcium	42.3		0.500	0.190	mg/L		11/18/25 08:30	11/25/25 15:16	1
Chromium	0.0112		0.00500	0.00180	mg/L		11/18/25 08:30	11/25/25 15:16	1
Cobalt	<0.000170		0.000500	0.000170	mg/L		11/18/25 08:30	11/25/25 15:16	1
Iron	<0.0500		0.100	0.0500	mg/L		11/18/25 08:30	11/25/25 15:16	1
Lead	<0.000330		0.000500	0.000330	mg/L		11/18/25 08:30	11/25/25 15:16	1
Lithium	0.0208		0.0100	0.00290	mg/L		11/18/25 08:30	11/25/25 15:16	1
Molybdenum	0.00810		0.00200	0.00130	mg/L		11/18/25 08:30	11/25/25 15:16	1
Selenium	0.0494		0.00500	0.00140	mg/L		11/18/25 08:30	11/25/25 15:16	1
Thallium	<0.000570		0.00100	0.000570	mg/L		11/18/25 08:30	11/25/25 15:16	1
Copper	<0.00320		0.00500	0.00320	mg/L		11/18/25 08:30	11/25/25 15:16	1
Nickel	<0.00230		0.00500	0.00230	mg/L		11/18/25 08:30	11/25/25 15:16	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000110		0.000200	0.000110	mg/L		11/20/25 13:30	11/21/25 09:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	5.00		5.00	3.50	mg/L			11/13/25 12:36	1
Total Dissolved Solids (SM 2540C)	396		50.0	36.0	mg/L			11/14/25 13:08	1

Client Sample Results

Client: Public Power Generation Agency
Project/Site: WEC MW Sampling

Job ID: 310-320425-1
SDG: WEC - In Network CCR Wells

Client Sample ID: MW-5B

Lab Sample ID: 310-320425-4

Date Collected: 11/07/25 10:25

Matrix: Water

Date Received: 11/13/25 08:35

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	26.7		1.00	0.450	mg/L			11/13/25 13:12	1
Nitrate as N	10.8	H H3	2.00	0.780	mg/L			11/13/25 15:38	10
Fluoride	1.04		0.200	0.0750	mg/L			11/13/25 13:12	1
Sulfate	131		10.0	4.20	mg/L			11/13/25 15:38	10

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00100		0.00200	0.00100	mg/L		11/18/25 08:30	11/25/25 15:18	1
Arsenic	0.00335		0.00200	0.000530	mg/L		11/18/25 08:30	11/25/25 15:18	1
Barium	0.0628		0.00200	0.000660	mg/L		11/18/25 08:30	11/25/25 15:18	1
Beryllium	<0.000330		0.00100	0.000330	mg/L		11/18/25 08:30	11/25/25 15:18	1
Boron	1.32		0.100	0.0820	mg/L		11/18/25 08:30	11/25/25 15:18	1
Cadmium	<0.000100		0.000200	0.000100	mg/L		11/18/25 08:30	11/25/25 15:18	1
Calcium	32.9		0.500	0.190	mg/L		11/18/25 08:30	11/25/25 15:18	1
Chromium	0.0411		0.00500	0.00180	mg/L		11/18/25 08:30	11/25/25 15:18	1
Cobalt	0.000175	J	0.000500	0.000170	mg/L		11/18/25 08:30	11/25/25 15:18	1
Iron	0.249		0.100	0.0500	mg/L		11/18/25 08:30	11/25/25 15:18	1
Lead	<0.000330		0.000500	0.000330	mg/L		11/18/25 08:30	11/25/25 15:18	1
Lithium	0.0112		0.0100	0.00290	mg/L		11/18/25 08:30	11/25/25 15:18	1
Molybdenum	0.0219		0.00200	0.00130	mg/L		11/18/25 08:30	11/25/25 15:18	1
Selenium	0.0713		0.00500	0.00140	mg/L		11/18/25 08:30	11/25/25 15:18	1
Thallium	<0.000570		0.00100	0.000570	mg/L		11/18/25 08:30	11/25/25 15:18	1
Copper	<0.00320		0.00500	0.00320	mg/L		11/18/25 08:30	11/25/25 15:18	1
Nickel	<0.00230		0.00500	0.00230	mg/L		11/18/25 08:30	11/25/25 15:18	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000110		0.000200	0.000110	mg/L		11/20/25 13:30	11/21/25 09:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	7.33		5.00	3.50	mg/L			11/13/25 12:36	1
Total Dissolved Solids (SM 2540C)	344		50.0	36.0	mg/L			11/14/25 13:08	1

Client Sample Results

Client: Public Power Generation Agency
Project/Site: WEC MW Sampling

Job ID: 310-320425-1
SDG: WEC - In Network CCR Wells

Client Sample ID: MW-07

Lab Sample ID: 310-320425-5

Date Collected: 11/07/25 13:15

Matrix: Water

Date Received: 11/13/25 08:35

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	28.7		1.00	0.450	mg/L			11/13/25 11:47	1
Nitrate as N	8.92	H H3	0.200	0.0780	mg/L			11/13/25 11:47	1
Fluoride	0.761		0.200	0.0750	mg/L			11/13/25 11:47	1
Sulfate	148		10.0	4.20	mg/L			11/13/25 14:12	10

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00100		0.00200	0.00100	mg/L		11/18/25 08:30	11/25/25 15:21	1
Arsenic	0.00284		0.00200	0.000530	mg/L		11/18/25 08:30	11/25/25 15:21	1
Barium	0.0474		0.00200	0.000660	mg/L		11/18/25 08:30	11/25/25 15:21	1
Beryllium	<0.000330		0.00100	0.000330	mg/L		11/18/25 08:30	11/25/25 15:21	1
Boron	0.735		0.100	0.0820	mg/L		11/18/25 08:30	11/25/25 15:21	1
Cadmium	<0.000100		0.000200	0.000100	mg/L		11/18/25 08:30	11/25/25 15:21	1
Calcium	41.5		0.500	0.190	mg/L		11/18/25 08:30	11/25/25 15:21	1
Chromium	0.0194		0.00500	0.00180	mg/L		11/18/25 08:30	11/25/25 15:21	1
Cobalt	<0.000170		0.000500	0.000170	mg/L		11/18/25 08:30	11/25/25 15:21	1
Iron	0.140		0.100	0.0500	mg/L		11/18/25 08:30	11/25/25 15:21	1
Lead	<0.000330		0.000500	0.000330	mg/L		11/18/25 08:30	11/25/25 15:21	1
Lithium	0.0128		0.0100	0.00290	mg/L		11/18/25 08:30	11/25/25 15:21	1
Molybdenum	0.0125		0.00200	0.00130	mg/L		11/18/25 08:30	11/25/25 15:21	1
Selenium	0.0606		0.00500	0.00140	mg/L		11/18/25 08:30	11/25/25 15:21	1
Thallium	<0.000570		0.00100	0.000570	mg/L		11/18/25 08:30	11/25/25 15:21	1
Copper	<0.00320		0.00500	0.00320	mg/L		11/18/25 08:30	11/25/25 15:21	1
Nickel	<0.00230		0.00500	0.00230	mg/L		11/18/25 08:30	11/25/25 15:21	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000110		0.000200	0.000110	mg/L		11/20/25 13:30	11/21/25 09:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	11.3		5.00	3.50	mg/L			11/13/25 12:36	1
Total Dissolved Solids (SM 2540C)	380		50.0	36.0	mg/L			11/14/25 13:08	1

Client Sample Results

Client: Public Power Generation Agency
Project/Site: WEC MW Sampling

Job ID: 310-320425-1
SDG: WEC - In Network CCR Wells

Client Sample ID: MW-08

Lab Sample ID: 310-320425-6

Date Collected: 11/07/25 15:40

Matrix: Water

Date Received: 11/13/25 08:35

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	26.9		1.00	0.450	mg/L			11/13/25 13:48	1
Nitrate as N	10.9	H H3	2.00	0.780	mg/L			11/13/25 16:14	10
Fluoride	1.24		0.200	0.0750	mg/L			11/13/25 13:48	1
Sulfate	152		10.0	4.20	mg/L			11/13/25 16:14	10

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00100		0.00200	0.00100	mg/L		11/18/25 08:30	11/25/25 15:26	1
Arsenic	0.00356		0.00200	0.000530	mg/L		11/18/25 08:30	11/25/25 15:26	1
Barium	0.0459		0.00200	0.000660	mg/L		11/18/25 08:30	11/25/25 15:26	1
Beryllium	<0.000330		0.00100	0.000330	mg/L		11/18/25 08:30	11/25/25 15:26	1
Boron	1.11		0.100	0.0820	mg/L		11/18/25 08:30	11/25/25 15:26	1
Cadmium	<0.000100		0.000200	0.000100	mg/L		11/18/25 08:30	11/25/25 15:26	1
Calcium	30.2		0.500	0.190	mg/L		11/18/25 08:30	11/25/25 15:26	1
Chromium	0.0405		0.00500	0.00180	mg/L		11/18/25 08:30	11/25/25 15:26	1
Cobalt	<0.000170		0.000500	0.000170	mg/L		11/18/25 08:30	11/25/25 15:26	1
Iron	0.0686	J	0.100	0.0500	mg/L		11/18/25 08:30	11/25/25 15:26	1
Lead	<0.000330		0.000500	0.000330	mg/L		11/18/25 08:30	11/25/25 15:26	1
Lithium	0.00975	J	0.0100	0.00290	mg/L		11/18/25 08:30	11/25/25 15:26	1
Molybdenum	0.0436		0.00200	0.00130	mg/L		11/18/25 08:30	11/25/25 15:26	1
Selenium	0.0496		0.00500	0.00140	mg/L		11/18/25 08:30	11/25/25 15:26	1
Thallium	<0.000570		0.00100	0.000570	mg/L		11/18/25 08:30	11/25/25 15:26	1
Copper	<0.00320		0.00500	0.00320	mg/L		11/18/25 08:30	11/25/25 15:26	1
Nickel	<0.00230		0.00500	0.00230	mg/L		11/18/25 08:30	11/25/25 15:26	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000110		0.000200	0.000110	mg/L		11/20/25 13:30	11/21/25 09:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	4.00	J	5.00	3.50	mg/L			11/13/25 12:36	1
Total Dissolved Solids (SM 2540C)	364		50.0	36.0	mg/L			11/14/25 13:08	1

Client Sample Results

Client: Public Power Generation Agency
Project/Site: WEC MW Sampling

Job ID: 310-320425-1
SDG: WEC - In Network CCR Wells

Client Sample ID: MW-09

Date Collected: 11/07/25 12:00

Date Received: 11/13/25 08:35

Lab Sample ID: 310-320425-7

Matrix: Water

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	28.4		1.00	0.450	mg/L			11/13/25 12:24	1
Nitrate as N	9.40	H H3	0.200	0.0780	mg/L			11/13/25 12:24	1
Fluoride	1.06		0.200	0.0750	mg/L			11/13/25 12:24	1
Sulfate	142		10.0	4.20	mg/L			11/13/25 14:49	10

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00100		0.00200	0.00100	mg/L		11/18/25 08:30	11/25/25 15:29	1
Arsenic	0.00233		0.00200	0.000530	mg/L		11/18/25 08:30	11/25/25 15:29	1
Barium	0.0760		0.00200	0.000660	mg/L		11/18/25 08:30	11/25/25 15:29	1
Beryllium	<0.000330		0.00100	0.000330	mg/L		11/18/25 08:30	11/25/25 15:29	1
Boron	0.782		0.100	0.0820	mg/L		11/18/25 08:30	11/25/25 15:29	1
Cadmium	<0.000100		0.000200	0.000100	mg/L		11/18/25 08:30	11/25/25 15:29	1
Calcium	35.1		0.500	0.190	mg/L		11/18/25 08:30	11/25/25 15:29	1
Chromium	0.0248		0.00500	0.00180	mg/L		11/18/25 08:30	11/25/25 15:29	1
Cobalt	<0.000170		0.000500	0.000170	mg/L		11/18/25 08:30	11/25/25 15:29	1
Iron	<0.0500		0.100	0.0500	mg/L		11/18/25 08:30	11/25/25 15:29	1
Lead	<0.000330		0.000500	0.000330	mg/L		11/18/25 08:30	11/25/25 15:29	1
Lithium	0.0117		0.0100	0.00290	mg/L		11/18/25 08:30	11/25/25 15:29	1
Molybdenum	0.0126		0.00200	0.00130	mg/L		11/18/25 08:30	11/25/25 15:29	1
Selenium	0.0851		0.00500	0.00140	mg/L		11/18/25 08:30	11/25/25 15:29	1
Thallium	<0.000570		0.00100	0.000570	mg/L		11/18/25 08:30	11/25/25 15:29	1
Copper	<0.00320		0.00500	0.00320	mg/L		11/18/25 08:30	11/25/25 15:29	1
Nickel	<0.00230		0.00500	0.00230	mg/L		11/18/25 08:30	11/25/25 15:29	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000110		0.000200	0.000110	mg/L		11/20/25 13:30	11/21/25 09:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	4.67	J	5.00	3.50	mg/L			11/13/25 12:36	1
Total Dissolved Solids (SM 2540C)	354		50.0	36.0	mg/L			11/14/25 13:08	1

Client Sample Results

Client: Public Power Generation Agency
Project/Site: WEC MW Sampling

Job ID: 310-320425-1
SDG: WEC - In Network CCR Wells

Client Sample ID: MW-102B

Lab Sample ID: 310-320425-8

Date Collected: 11/07/25 15:15

Matrix: Water

Date Received: 11/13/25 08:35

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	30.5		1.00	0.450	mg/L			11/13/25 13:00	1
Nitrate as N	9.46	H H3	0.200	0.0780	mg/L			11/13/25 13:00	1
Fluoride	0.330		0.200	0.0750	mg/L			11/13/25 13:00	1
Sulfate	130		10.0	4.20	mg/L			11/13/25 15:26	10

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00100		0.00200	0.00100	mg/L		11/18/25 08:30	11/25/25 15:31	1
Arsenic	0.00227		0.00200	0.000530	mg/L		11/18/25 08:30	11/25/25 15:31	1
Barium	0.162		0.00200	0.000660	mg/L		11/18/25 08:30	11/25/25 15:31	1
Beryllium	<0.000330		0.00100	0.000330	mg/L		11/18/25 08:30	11/25/25 15:31	1
Boron	0.557		0.100	0.0820	mg/L		11/18/25 08:30	11/25/25 15:31	1
Cadmium	<0.000100		0.000200	0.000100	mg/L		11/18/25 08:30	11/25/25 15:31	1
Calcium	70.7		0.500	0.190	mg/L		11/18/25 08:30	11/25/25 15:31	1
Chromium	0.0147		0.00500	0.00180	mg/L		11/18/25 08:30	11/25/25 15:31	1
Cobalt	<0.000170		0.000500	0.000170	mg/L		11/18/25 08:30	11/25/25 15:31	1
Iron	<0.0500		0.100	0.0500	mg/L		11/18/25 08:30	11/25/25 15:31	1
Lead	<0.000330		0.000500	0.000330	mg/L		11/18/25 08:30	11/25/25 15:31	1
Lithium	0.0139		0.0100	0.00290	mg/L		11/18/25 08:30	11/25/25 15:31	1
Molybdenum	0.00199	J	0.00200	0.00130	mg/L		11/18/25 08:30	11/25/25 15:31	1
Selenium	0.0323		0.00500	0.00140	mg/L		11/18/25 08:30	11/25/25 15:31	1
Thallium	<0.000570		0.00100	0.000570	mg/L		11/18/25 08:30	11/25/25 15:31	1
Copper	<0.00320		0.00500	0.00320	mg/L		11/18/25 08:30	11/25/25 15:31	1
Nickel	<0.00230		0.00500	0.00230	mg/L		11/18/25 08:30	11/25/25 15:31	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000110		0.000200	0.000110	mg/L		11/20/25 13:30	11/21/25 09:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	<3.50		5.00	3.50	mg/L			11/13/25 12:36	1
Total Dissolved Solids (SM 2540C)	448		50.0	36.0	mg/L			11/14/25 13:08	1

Client Sample Results

Client: Public Power Generation Agency
Project/Site: WEC MW Sampling

Job ID: 310-320425-1
SDG: WEC - In Network CCR Wells

Client Sample ID: EB-01

Date Collected: 11/07/25 11:00

Date Received: 11/13/25 08:35

Lab Sample ID: 310-320425-9

Matrix: Water

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.450		1.00	0.450	mg/L			11/20/25 23:08	1
Fluoride	<0.0750		0.200	0.0750	mg/L			11/21/25 16:53	1
Sulfate	<0.420		1.00	0.420	mg/L			11/20/25 23:08	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00100		0.00200	0.00100	mg/L		11/18/25 08:30	11/25/25 15:34	1
Arsenic	<0.000530		0.00200	0.000530	mg/L		11/18/25 08:30	11/25/25 15:34	1
Barium	<0.000660		0.00200	0.000660	mg/L		11/18/25 08:30	11/25/25 15:34	1
Beryllium	<0.000330		0.00100	0.000330	mg/L		11/18/25 08:30	11/25/25 15:34	1
Boron	<0.0820		0.100	0.0820	mg/L		11/18/25 08:30	11/25/25 15:34	1
Cadmium	<0.000100		0.000200	0.000100	mg/L		11/18/25 08:30	11/25/25 15:34	1
Calcium	<0.190		0.500	0.190	mg/L		11/18/25 08:30	11/25/25 15:34	1
Chromium	<0.00180		0.00500	0.00180	mg/L		11/18/25 08:30	11/25/25 15:34	1
Cobalt	<0.000170		0.000500	0.000170	mg/L		11/18/25 08:30	11/25/25 15:34	1
Iron	<0.0500		0.100	0.0500	mg/L		11/18/25 08:30	11/25/25 15:34	1
Lead	<0.000330		0.000500	0.000330	mg/L		11/18/25 08:30	11/25/25 15:34	1
Lithium	<0.00290		0.0100	0.00290	mg/L		11/18/25 08:30	11/25/25 15:34	1
Molybdenum	<0.00130		0.00200	0.00130	mg/L		11/18/25 08:30	11/25/25 15:34	1
Selenium	<0.00140		0.00500	0.00140	mg/L		11/18/25 08:30	11/25/25 15:34	1
Thallium	<0.000570		0.00100	0.000570	mg/L		11/18/25 08:30	11/25/25 15:34	1
Copper	<0.00320		0.00500	0.00320	mg/L		11/18/25 08:30	11/25/25 15:34	1
Nickel	<0.00230		0.00500	0.00230	mg/L		11/18/25 08:30	11/25/25 15:34	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000110		0.000200	0.000110	mg/L		11/20/25 13:30	11/21/25 09:54	1

Definitions/Glossary

Client: Public Power Generation Agency
Project/Site: WEC MW Sampling

Job ID: 310-320425-1
SDG: WEC - In Network CCR Wells

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
H3	Sample was received and analyzed past holding time. This does not meet regulatory requirements.

Metals

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

General Chemistry

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

Glossary

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

QC Sample Results

Client: Public Power Generation Agency
Project/Site: WEC MW Sampling

Job ID: 310-320425-1
SDG: WEC - In Network CCR Wells

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 310-473762/3

Matrix: Water

Analysis Batch: 473762

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.450		1.00	0.450	mg/L			11/13/25 11:23	1
Nitrate as N	<0.0780		0.200	0.0780	mg/L			11/13/25 11:23	1
Fluoride	<0.0750		0.200	0.0750	mg/L			11/13/25 11:23	1
Sulfate	<0.420		1.00	0.420	mg/L			11/13/25 11:23	1

Lab Sample ID: LCS 310-473762/4

Matrix: Water

Analysis Batch: 473762

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.0	9.842		mg/L		98	90 - 110
Nitrate as N	2.00	2.002		mg/L		100	90 - 110
Fluoride	2.00	2.027		mg/L		101	90 - 110
Sulfate	10.0	9.923		mg/L		99	90 - 110

Lab Sample ID: 310-320425-5 MS

Matrix: Water

Analysis Batch: 473762

Client Sample ID: MW-07

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	28.7		5.00	33.38	4	mg/L		93	80 - 120
Nitrate as N	8.92	H H3	1.00	9.774	4	mg/L		85	80 - 120
Fluoride	0.761		1.00	1.892		mg/L		113	80 - 120

Lab Sample ID: 310-320425-5 MS

Matrix: Water

Analysis Batch: 473762

Client Sample ID: MW-07

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	148		50.0	198.6		mg/L		102	80 - 120

Lab Sample ID: 310-320425-5 MSD

Matrix: Water

Analysis Batch: 473762

Client Sample ID: MW-07

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	28.7		5.00	32.69	4	mg/L		79	80 - 120	2	15
Nitrate as N	8.92	H H3	1.00	9.793	4	mg/L		87	80 - 120	0	15
Fluoride	0.761		1.00	1.816		mg/L		106	80 - 120	4	15

Lab Sample ID: 310-320425-5 MSD

Matrix: Water

Analysis Batch: 473762

Client Sample ID: MW-07

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	148		50.0	196.8		mg/L		98	80 - 120	1	15

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QC Sample Results

Client: Public Power Generation Agency
Project/Site: WEC MW Sampling

Job ID: 310-320425-1
SDG: WEC - In Network CCR Wells

Method: 9056A - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 310-474604/3
Matrix: Water
Analysis Batch: 474604

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.450		1.00	0.450	mg/L			11/20/25 18:05	1
Fluoride	<0.0750		0.200	0.0750	mg/L			11/20/25 18:05	1
Sulfate	<0.420		1.00	0.420	mg/L			11/20/25 18:05	1

Lab Sample ID: LCS 310-474604/4
Matrix: Water
Analysis Batch: 474604

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.0	10.80		mg/L		108	90 - 110
Fluoride	2.00	2.105		mg/L		105	90 - 110
Sulfate	10.0	10.29		mg/L		103	90 - 110

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 310-473827/1-A
Matrix: Water
Analysis Batch: 474913

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 473827

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00100		0.00200	0.00100	mg/L		11/18/25 08:30	11/25/25 14:32	1
Arsenic	<0.000530		0.00200	0.000530	mg/L		11/18/25 08:30	11/25/25 14:32	1
Barium	<0.000660		0.00200	0.000660	mg/L		11/18/25 08:30	11/25/25 14:32	1
Beryllium	<0.000330		0.00100	0.000330	mg/L		11/18/25 08:30	11/25/25 14:32	1
Boron	<0.0820		0.100	0.0820	mg/L		11/18/25 08:30	11/25/25 14:32	1
Cadmium	<0.000100		0.000200	0.000100	mg/L		11/18/25 08:30	11/25/25 14:32	1
Calcium	<0.190		0.500	0.190	mg/L		11/18/25 08:30	11/25/25 14:32	1
Chromium	<0.00180		0.00500	0.00180	mg/L		11/18/25 08:30	11/25/25 14:32	1
Cobalt	<0.000170		0.000500	0.000170	mg/L		11/18/25 08:30	11/25/25 14:32	1
Iron	<0.0500		0.100	0.0500	mg/L		11/18/25 08:30	11/25/25 14:32	1
Lead	<0.000330		0.000500	0.000330	mg/L		11/18/25 08:30	11/25/25 14:32	1
Lithium	<0.00290		0.0100	0.00290	mg/L		11/18/25 08:30	11/25/25 14:32	1
Molybdenum	<0.00130		0.00200	0.00130	mg/L		11/18/25 08:30	11/25/25 14:32	1
Selenium	<0.00140		0.00500	0.00140	mg/L		11/18/25 08:30	11/25/25 14:32	1
Thallium	<0.000570		0.00100	0.000570	mg/L		11/18/25 08:30	11/25/25 14:32	1
Copper	<0.00320		0.00500	0.00320	mg/L		11/18/25 08:30	11/25/25 14:32	1
Nickel	<0.00230		0.00500	0.00230	mg/L		11/18/25 08:30	11/25/25 14:32	1

Lab Sample ID: LCS 310-473827/2-A
Matrix: Water
Analysis Batch: 474913

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 473827

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.200	0.2002		mg/L		100	80 - 120
Arsenic	0.200	0.1869		mg/L		93	80 - 120
Barium	0.100	0.08965		mg/L		90	80 - 120
Beryllium	0.100	0.08863		mg/L		89	80 - 120
Boron	0.200	0.1987		mg/L		99	80 - 120
Cadmium	0.100	0.09537		mg/L		95	80 - 120

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QC Sample Results

Client: Public Power Generation Agency
Project/Site: WEC MW Sampling

Job ID: 310-320425-1
SDG: WEC - In Network CCR Wells

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 310-473827/2-A
Matrix: Water
Analysis Batch: 474913

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 473827

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	2.00	1.695		mg/L		85	80 - 120
Chromium	0.100	0.09372		mg/L		94	80 - 120
Cobalt	0.100	0.09716		mg/L		97	80 - 120
Iron	0.200	0.1908		mg/L		95	80 - 120
Lead	0.200	0.1952		mg/L		98	80 - 120
Lithium	0.200	0.1802		mg/L		90	80 - 120
Molybdenum	0.200	0.1847		mg/L		92	80 - 120
Selenium	0.400	0.3611		mg/L		90	80 - 120
Thallium	0.100	0.09606		mg/L		96	80 - 120
Copper	0.200	0.1877		mg/L		94	80 - 120
Nickel	0.200	0.1876		mg/L		94	80 - 120

Lab Sample ID: 310-320425-5 DU
Matrix: Water
Analysis Batch: 474913

Client Sample ID: MW-07
Prep Type: Total/NA
Prep Batch: 473827

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	<0.00100		<0.00100		mg/L		NC	20
Arsenic	0.00284		0.002889		mg/L		2	20
Barium	0.0474		0.04769		mg/L		0.5	20
Beryllium	<0.000330		<0.000330		mg/L		NC	20
Boron	0.735		0.7383		mg/L		0.5	20
Cadmium	<0.000100		<0.000100		mg/L		NC	20
Calcium	41.5		42.25		mg/L		2	20
Chromium	0.0194		0.01908		mg/L		2	20
Cobalt	<0.000170		<0.000170		mg/L		NC	20
Iron	0.140		0.1490		mg/L		6	20
Lead	<0.000330		<0.000330		mg/L		NC	20
Lithium	0.0128		0.01310		mg/L		3	20
Molybdenum	0.0125		0.01252		mg/L		0	20
Selenium	0.0606		0.06102		mg/L		0.6	20
Thallium	<0.000570		<0.000570		mg/L		NC	20
Copper	<0.00320		<0.00320		mg/L		NC	20
Nickel	<0.00230		<0.00230		mg/L		NC	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 310-474245/1-A
Matrix: Water
Analysis Batch: 474474

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 474245

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000110		0.000200	0.000110	mg/L		11/20/25 13:30	11/21/25 09:14	1

Lab Sample ID: LCS 310-474245/2-A
Matrix: Water
Analysis Batch: 474474

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 474245

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00167	0.001623		mg/L		97	80 - 120

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QC Sample Results

Client: Public Power Generation Agency
Project/Site: WEC MW Sampling

Job ID: 310-320425-1
SDG: WEC - In Network CCR Wells

Method: I-3765-85 - Residue, Non-filterable (TSS)

Lab Sample ID: MB 310-473427/1
Matrix: Water
Analysis Batch: 473427

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<3.50		5.00	3.50	mg/L			11/13/25 12:36	1

Lab Sample ID: LCS 310-473427/2
Matrix: Water
Analysis Batch: 473427

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	100	101.0		mg/L		101	82 - 117

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 310-473611/1
Matrix: Water
Analysis Batch: 473611

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<36.0		50.0	36.0	mg/L			11/14/25 13:08	1

Lab Sample ID: LCS 310-473611/2
Matrix: Water
Analysis Batch: 473611

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	1000	892.0		mg/L		89	89 - 110

Lab Sample ID: 310-320425-2 DU
Matrix: Water
Analysis Batch: 473611

Client Sample ID: MW-2B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	470		450.0		mg/L		4	13

QC Association Summary

Client: Public Power Generation Agency
Project/Site: WEC MW Sampling

Job ID: 310-320425-1
SDG: WEC - In Network CCR Wells

HPLC/IC

Analysis Batch: 473762

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-320425-1	MW-01	Total/NA	Water	9056A	
310-320425-1	MW-01	Total/NA	Water	9056A	
310-320425-2	MW-2B	Total/NA	Water	9056A	
310-320425-2	MW-2B	Total/NA	Water	9056A	
310-320425-3	MW-4B	Total/NA	Water	9056A	
310-320425-3	MW-4B	Total/NA	Water	9056A	
310-320425-4	MW-5B	Total/NA	Water	9056A	
310-320425-4	MW-5B	Total/NA	Water	9056A	
310-320425-5	MW-07	Total/NA	Water	9056A	
310-320425-5	MW-07	Total/NA	Water	9056A	
310-320425-6	MW-08	Total/NA	Water	9056A	
310-320425-6	MW-08	Total/NA	Water	9056A	
310-320425-7	MW-09	Total/NA	Water	9056A	
310-320425-7	MW-09	Total/NA	Water	9056A	
310-320425-8	MW-102B	Total/NA	Water	9056A	
310-320425-8	MW-102B	Total/NA	Water	9056A	
MB 310-473762/3	Method Blank	Total/NA	Water	9056A	
LCS 310-473762/4	Lab Control Sample	Total/NA	Water	9056A	
310-320425-5 MS	MW-07	Total/NA	Water	9056A	
310-320425-5 MS	MW-07	Total/NA	Water	9056A	
310-320425-5 MSD	MW-07	Total/NA	Water	9056A	
310-320425-5 MSD	MW-07	Total/NA	Water	9056A	

Analysis Batch: 474604

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-320425-9	EB-01	Total/NA	Water	9056A	
310-320425-9	EB-01	Total/NA	Water	9056A	
MB 310-474604/3	Method Blank	Total/NA	Water	9056A	
LCS 310-474604/4	Lab Control Sample	Total/NA	Water	9056A	

Metals

Prep Batch: 473827

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-320425-1	MW-01	Total/NA	Water	3005A	
310-320425-2	MW-2B	Total/NA	Water	3005A	
310-320425-3	MW-4B	Total/NA	Water	3005A	
310-320425-4	MW-5B	Total/NA	Water	3005A	
310-320425-5	MW-07	Total/NA	Water	3005A	
310-320425-6	MW-08	Total/NA	Water	3005A	
310-320425-7	MW-09	Total/NA	Water	3005A	
310-320425-8	MW-102B	Total/NA	Water	3005A	
310-320425-9	EB-01	Total/NA	Water	3005A	
MB 310-473827/1-A	Method Blank	Total/NA	Water	3005A	
LCS 310-473827/2-A	Lab Control Sample	Total/NA	Water	3005A	
310-320425-5 DU	MW-07	Total/NA	Water	3005A	

Prep Batch: 474245

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-320425-1	MW-01	Total/NA	Water	7470A	
310-320425-2	MW-2B	Total/NA	Water	7470A	

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QC Association Summary

Client: Public Power Generation Agency
Project/Site: WEC MW Sampling

Job ID: 310-320425-1
SDG: WEC - In Network CCR Wells

Metals (Continued)

Prep Batch: 474245 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-320425-3	MW-4B	Total/NA	Water	7470A	
310-320425-4	MW-5B	Total/NA	Water	7470A	
310-320425-5	MW-07	Total/NA	Water	7470A	
310-320425-6	MW-08	Total/NA	Water	7470A	
310-320425-7	MW-09	Total/NA	Water	7470A	
310-320425-8	MW-102B	Total/NA	Water	7470A	
310-320425-9	EB-01	Total/NA	Water	7470A	
MB 310-474245/1-A	Method Blank	Total/NA	Water	7470A	
LCS 310-474245/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 474474

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-320425-1	MW-01	Total/NA	Water	7470A	474245
310-320425-2	MW-2B	Total/NA	Water	7470A	474245
310-320425-3	MW-4B	Total/NA	Water	7470A	474245
310-320425-4	MW-5B	Total/NA	Water	7470A	474245
310-320425-5	MW-07	Total/NA	Water	7470A	474245
310-320425-6	MW-08	Total/NA	Water	7470A	474245
310-320425-7	MW-09	Total/NA	Water	7470A	474245
310-320425-8	MW-102B	Total/NA	Water	7470A	474245
310-320425-9	EB-01	Total/NA	Water	7470A	474245
MB 310-474245/1-A	Method Blank	Total/NA	Water	7470A	474245
LCS 310-474245/2-A	Lab Control Sample	Total/NA	Water	7470A	474245

Analysis Batch: 474913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-320425-1	MW-01	Total/NA	Water	6020B	473827
310-320425-2	MW-2B	Total/NA	Water	6020B	473827
310-320425-3	MW-4B	Total/NA	Water	6020B	473827
310-320425-4	MW-5B	Total/NA	Water	6020B	473827
310-320425-5	MW-07	Total/NA	Water	6020B	473827
310-320425-6	MW-08	Total/NA	Water	6020B	473827
310-320425-7	MW-09	Total/NA	Water	6020B	473827
310-320425-8	MW-102B	Total/NA	Water	6020B	473827
310-320425-9	EB-01	Total/NA	Water	6020B	473827
MB 310-473827/1-A	Method Blank	Total/NA	Water	6020B	473827
LCS 310-473827/2-A	Lab Control Sample	Total/NA	Water	6020B	473827
310-320425-5 DU	MW-07	Total/NA	Water	6020B	473827

General Chemistry

Analysis Batch: 473427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-320425-1	MW-01	Total/NA	Water	I-3765-85	
310-320425-2	MW-2B	Total/NA	Water	I-3765-85	
310-320425-3	MW-4B	Total/NA	Water	I-3765-85	
310-320425-4	MW-5B	Total/NA	Water	I-3765-85	
310-320425-5	MW-07	Total/NA	Water	I-3765-85	
310-320425-6	MW-08	Total/NA	Water	I-3765-85	
310-320425-7	MW-09	Total/NA	Water	I-3765-85	
310-320425-8	MW-102B	Total/NA	Water	I-3765-85	

Eurofins Cedar Falls

QC Association Summary

Client: Public Power Generation Agency
Project/Site: WEC MW Sampling

Job ID: 310-320425-1
SDG: WEC - In Network CCR Wells

General Chemistry (Continued)

Analysis Batch: 473427 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 310-473427/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-473427/2	Lab Control Sample	Total/NA	Water	I-3765-85	

Analysis Batch: 473611

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-320425-1	MW-01	Total/NA	Water	SM 2540C	
310-320425-2	MW-2B	Total/NA	Water	SM 2540C	
310-320425-3	MW-4B	Total/NA	Water	SM 2540C	
310-320425-4	MW-5B	Total/NA	Water	SM 2540C	
310-320425-5	MW-07	Total/NA	Water	SM 2540C	
310-320425-6	MW-08	Total/NA	Water	SM 2540C	
310-320425-7	MW-09	Total/NA	Water	SM 2540C	
310-320425-8	MW-102B	Total/NA	Water	SM 2540C	
MB 310-473611/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 310-473611/2	Lab Control Sample	Total/NA	Water	SM 2540C	
310-320425-2 DU	MW-2B	Total/NA	Water	SM 2540C	

Lab Chronicle

Client: Public Power Generation Agency
Project/Site: WEC MW Sampling

Job ID: 310-320425-1
SDG: WEC - In Network CCR Wells

Client Sample ID: MW-01

Date Collected: 11/07/25 14:10

Date Received: 11/13/25 08:35

Lab Sample ID: 310-320425-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		1	473762	HE7K	EET CF	11/13/25 14:00
Total/NA	Analysis	9056A		10	473762	HE7K	EET CF	11/13/25 16:26
Total/NA	Prep	3005A			473827	RLT9	EET CF	11/18/25 08:30
Total/NA	Analysis	6020B		1	474913	NFT2	EET CF	11/25/25 15:06
Total/NA	Prep	7470A			474245	RLT9	EET CF	11/20/25 13:30
Total/NA	Analysis	7470A		1	474474	RLT9	EET CF	11/21/25 09:37
Total/NA	Analysis	I-3765-85		1	473427	DGU1	EET CF	11/13/25 12:36
Total/NA	Analysis	SM 2540C		1	473611	TGN5	EET CF	11/14/25 13:08

Client Sample ID: MW-2B

Date Collected: 11/07/25 14:55

Date Received: 11/13/25 08:35

Lab Sample ID: 310-320425-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		1	473762	HE7K	EET CF	11/13/25 12:48
Total/NA	Analysis	9056A		10	473762	HE7K	EET CF	11/13/25 15:14
Total/NA	Prep	3005A			473827	RLT9	EET CF	11/18/25 08:30
Total/NA	Analysis	6020B		1	474913	NFT2	EET CF	11/25/25 15:13
Total/NA	Prep	7470A			474245	RLT9	EET CF	11/20/25 13:30
Total/NA	Analysis	7470A		1	474474	RLT9	EET CF	11/21/25 09:39
Total/NA	Analysis	I-3765-85		1	473427	DGU1	EET CF	11/13/25 12:36
Total/NA	Analysis	SM 2540C		1	473611	TGN5	EET CF	11/14/25 13:08

Client Sample ID: MW-4B

Date Collected: 11/10/25 10:40

Date Received: 11/13/25 08:35

Lab Sample ID: 310-320425-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		1	473762	HE7K	EET CF	11/13/25 12:36
Total/NA	Analysis	9056A		10	473762	HE7K	EET CF	11/13/25 15:02
Total/NA	Prep	3005A			473827	RLT9	EET CF	11/18/25 08:30
Total/NA	Analysis	6020B		1	474913	NFT2	EET CF	11/25/25 15:16
Total/NA	Prep	7470A			474245	RLT9	EET CF	11/20/25 13:30
Total/NA	Analysis	7470A		1	474474	RLT9	EET CF	11/21/25 09:41
Total/NA	Analysis	I-3765-85		1	473427	DGU1	EET CF	11/13/25 12:36
Total/NA	Analysis	SM 2540C		1	473611	TGN5	EET CF	11/14/25 13:08

Client Sample ID: MW-5B

Date Collected: 11/07/25 10:25

Date Received: 11/13/25 08:35

Lab Sample ID: 310-320425-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		1	473762	HE7K	EET CF	11/13/25 13:12
Total/NA	Analysis	9056A		10	473762	HE7K	EET CF	11/13/25 15:38

Eurofins Cedar Falls

Lab Chronicle

Client: Public Power Generation Agency
Project/Site: WEC MW Sampling

Job ID: 310-320425-1
SDG: WEC - In Network CCR Wells

Client Sample ID: MW-5B

Date Collected: 11/07/25 10:25

Date Received: 11/13/25 08:35

Lab Sample ID: 310-320425-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			473827	RLT9	EET CF	11/18/25 08:30
Total/NA	Analysis	6020B		1	474913	NFT2	EET CF	11/25/25 15:18
Total/NA	Prep	7470A			474245	RLT9	EET CF	11/20/25 13:30
Total/NA	Analysis	7470A		1	474474	RLT9	EET CF	11/21/25 09:43
Total/NA	Analysis	I-3765-85		1	473427	DGU1	EET CF	11/13/25 12:36
Total/NA	Analysis	SM 2540C		1	473611	TGN5	EET CF	11/14/25 13:08

Client Sample ID: MW-07

Date Collected: 11/07/25 13:15

Date Received: 11/13/25 08:35

Lab Sample ID: 310-320425-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		1	473762	HE7K	EET CF	11/13/25 11:47
Total/NA	Analysis	9056A		10	473762	HE7K	EET CF	11/13/25 14:12
Total/NA	Prep	3005A			473827	RLT9	EET CF	11/18/25 08:30
Total/NA	Analysis	6020B		1	474913	NFT2	EET CF	11/25/25 15:21
Total/NA	Prep	7470A			474245	RLT9	EET CF	11/20/25 13:30
Total/NA	Analysis	7470A		1	474474	RLT9	EET CF	11/21/25 09:45
Total/NA	Analysis	I-3765-85		1	473427	DGU1	EET CF	11/13/25 12:36
Total/NA	Analysis	SM 2540C		1	473611	TGN5	EET CF	11/14/25 13:08

Client Sample ID: MW-08

Date Collected: 11/07/25 15:40

Date Received: 11/13/25 08:35

Lab Sample ID: 310-320425-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		1	473762	HE7K	EET CF	11/13/25 13:48
Total/NA	Analysis	9056A		10	473762	HE7K	EET CF	11/13/25 16:14
Total/NA	Prep	3005A			473827	RLT9	EET CF	11/18/25 08:30
Total/NA	Analysis	6020B		1	474913	NFT2	EET CF	11/25/25 15:26
Total/NA	Prep	7470A			474245	RLT9	EET CF	11/20/25 13:30
Total/NA	Analysis	7470A		1	474474	RLT9	EET CF	11/21/25 09:48
Total/NA	Analysis	I-3765-85		1	473427	DGU1	EET CF	11/13/25 12:36
Total/NA	Analysis	SM 2540C		1	473611	TGN5	EET CF	11/14/25 13:08

Client Sample ID: MW-09

Date Collected: 11/07/25 12:00

Date Received: 11/13/25 08:35

Lab Sample ID: 310-320425-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		1	473762	HE7K	EET CF	11/13/25 12:24
Total/NA	Analysis	9056A		10	473762	HE7K	EET CF	11/13/25 14:49
Total/NA	Prep	3005A			473827	RLT9	EET CF	11/18/25 08:30
Total/NA	Analysis	6020B		1	474913	NFT2	EET CF	11/25/25 15:29

Eurofins Cedar Falls

Lab Chronicle

Client: Public Power Generation Agency
Project/Site: WEC MW Sampling

Job ID: 310-320425-1
SDG: WEC - In Network CCR Wells

Client Sample ID: MW-09

Date Collected: 11/07/25 12:00

Date Received: 11/13/25 08:35

Lab Sample ID: 310-320425-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			474245	RLT9	EET CF	11/20/25 13:30
Total/NA	Analysis	7470A		1	474474	RLT9	EET CF	11/21/25 09:50
Total/NA	Analysis	I-3765-85		1	473427	DGU1	EET CF	11/13/25 12:36
Total/NA	Analysis	SM 2540C		1	473611	TGN5	EET CF	11/14/25 13:08

Client Sample ID: MW-102B

Date Collected: 11/07/25 15:15

Date Received: 11/13/25 08:35

Lab Sample ID: 310-320425-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		1	473762	HE7K	EET CF	11/13/25 13:00
Total/NA	Analysis	9056A		10	473762	HE7K	EET CF	11/13/25 15:26
Total/NA	Prep	3005A			473827	RLT9	EET CF	11/18/25 08:30
Total/NA	Analysis	6020B		1	474913	NFT2	EET CF	11/25/25 15:31
Total/NA	Prep	7470A			474245	RLT9	EET CF	11/20/25 13:30
Total/NA	Analysis	7470A		1	474474	RLT9	EET CF	11/21/25 09:52
Total/NA	Analysis	I-3765-85		1	473427	DGU1	EET CF	11/13/25 12:36
Total/NA	Analysis	SM 2540C		1	473611	TGN5	EET CF	11/14/25 13:08

Client Sample ID: EB-01

Date Collected: 11/07/25 11:00

Date Received: 11/13/25 08:35

Lab Sample ID: 310-320425-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		1	474604	HE7K	EET CF	11/20/25 23:08
Total/NA	Analysis	9056A		1	474604	HE7K	EET CF	11/21/25 16:53
Total/NA	Prep	3005A			473827	RLT9	EET CF	11/18/25 08:30
Total/NA	Analysis	6020B		1	474913	NFT2	EET CF	11/25/25 15:34
Total/NA	Prep	7470A			474245	RLT9	EET CF	11/20/25 13:30
Total/NA	Analysis	7470A		1	474474	RLT9	EET CF	11/21/25 09:54

Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

Accreditation/Certification Summary

Client: Public Power Generation Agency
Project/Site: WEC MW Sampling

Job ID: 310-320425-1
SDG: WEC - In Network CCR Wells

Laboratory: Eurofins Cedar Falls

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

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	IA100001	09-29-26

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Method Summary

Client: Public Power Generation Agency
Project/Site: WEC MW Sampling

Job ID: 310-320425-1
SDG: WEC - In Network CCR Wells

Method	Method Description	Protocol	Laboratory
9056A	Anions, Ion Chromatography	SW846	EET CF
6020B	Metals (ICP/MS)	SW846	EET CF
7470A	Mercury (CVAA)	SW846	EET CF
I-3765-85	Residue, Non-filterable (TSS)	USGS	EET CF
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET CF
3005A	Preparation, Total Metals	SW846	EET CF
7470A	Preparation, Mercury	SW846	EET CF

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

USGS = "Methods For Analysis Of Water And Fluvial Sediments", USGS, 1989

Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401



Environment Testing
America



310-320425 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client. <u>PPGIA</u>			
City/State	CITY <u>Hastings</u>	STATE <u>NE</u>	Project
Receipt Information			
Date/Time Received	DATE <u>11/13/25</u>	TIME <u>0835</u>	Received By <u>ES</u>
Delivery Type: ☒ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee ☐ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler? ☒ Yes ☐ No If yes Cooler ID _____			
Multiple Coolers? ☐ Yes ☒ No If yes: Cooler # _____ of _____			
Cooler Custody Seals Present? ☒ Yes ☐ No If yes Cooler custody seals intact? ☒ Yes ☐ No			
Sample Custody Seals Present? ☐ Yes ☒ No If yes Sample custody seals intact? ☐ Yes ☐ No			
Trip Blank Present? ☐ Yes ☒ No If yes Which VOA samples are in cooler? ↓ _____			
Temperature Record			
Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other _____ ☐ NONE			
Thermometer ID. <u>AA</u>		Correction Factor (°C). <u>0</u>	
• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C) <u>-1.3</u>		Corrected Temp (°C). <u>-1.3</u>	
• Sample Container Temperature			
Container(s) used	CONTAINER 1		CONTAINER 2
Uncorrected Temp (°C):			
Corrected Temp (°C)			
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No a) If yes: Is there evidence that the chilling process began? ☐ Yes ☐ No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☒ No			
NOTE If yes, contact PM before proceeding If no, proceed with login			
Additional Comments			

Project Manager: Emily Mathews Email: emily.mathews@etekincollinsus.com Cell 319-277-2401		Site Contact: Lab Contact:		Date: Carrier:		COC No of COCs	
Analysis Turnaround Time ☐ CALENDAR DAYS ☐ WORKING DAYS Other: ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		Sample Date		Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.
Sample Identification		Sample Date		Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.
MW-01		11/7/2025		14 10	G		2
MW-2B		11/7/2025		14 55	G		2
MW-4B		11/10/2025		10 40	G		2
MW-5B		11/7/25		10 25	G		2
MW-07		11/7/25		13 15	G		2
MW-08		11/7/25		15 40	G		2
MW-09		11/7/25		12 00	G		2
MW-102B		11/7/25		15 15	G		2
EB-01		11/7/25		11 00	G		2
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other							
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample							
Special Instructions/QC Requirements & Comments: Please report MDL and RL on lab results report. Metals list: Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Molybdenum, Nickel, Selenium, Thallium							
Custody Seals Intact: ☐ Yes ☐ No		Custody Seal No		Cooler Temp (°C) Obs'd		Therm ID No	
Relinquished by		Company		Received by		Company	
Relinquished by		Company		Received by		Company	
Relinquished by		Company		Received in Laboratory by		Company	

Login Sample Receipt Checklist

Client: Public Power Generation Agency

Job Number: 310-320425-1

SDG Number: WEC - In Network CCR Wells

Login Number: 320425

List Number: 1

List Source: Eurofins Cedar Falls

Creator: Schaufenbuel, Erin

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

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

Eurofins Cedar Falls

ANALYTICAL REPORT

PREPARED FOR

Attn: Jenny Sidlo
Hastings Utilities
1228 North Denver Ave
PO BOX 289
Hastings, Nebraska 68901

Generated 12/11/2025 4:02:06 PM

JOB DESCRIPTION

Rad Groundwater

JOB NUMBER

160-60379-1

Eurofins St. Louis

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins TestAmerica Project Manager.

Authorization



Generated
12/11/2025 4:02:06 PM

Authorized for release by
Erika Smith, Project Manager
erika.smith@et.eurofinsus.com
(314)298-8566

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Case Narrative

Client: Hastings Utilities
Project: Rad Groundwater

Job ID: 160-60379-1

Job ID: 160-60379-1

Eurofins St. Louis

CASE NARRATIVE

Client: Public Power Generation Agency

Project: Rad Groundwater

Report Number: 160-60379-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition, all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method.

Eurofins Environment Testing attests to the validity of the laboratory data generated by Eurofins facilities reported herein. All analyses performed by Eurofins Environment Testing facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. Eurofins Environment Testing's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report.

Calculations are performed before rounding to avoid round-off errors in calculated results.

Proper preservation was noted for the methods performed on these samples, unless otherwise detailed below.

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative.

Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

This laboratory report is confidential and is intended for the sole use of Eurofins TestAmerica and its client.

Receipt

The samples were received on 11/14/2025 11:50 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved. The temperature of the cooler at receipt time was 19.4°C.

Method 903.0 - Radium-226 (GFPC)

Samples MW-01 (160-60379-1), MW-2B (160-60379-2), MW-4B (160-60379-3), MW-5B (160-60379-4), MW-07 (160-60379-5), MW-08 (160-60379-6) and MW-09 (160-60379-7) were analyzed for Radium-226 (GFPC). The samples were prepared on 11/18/2025 and analyzed on 12/10/2025.

Method 904.0 - Radium-228 (GFPC)

Samples MW-01 (160-60379-1), MW-2B (160-60379-2), MW-4B (160-60379-3), MW-5B (160-60379-4), MW-07 (160-60379-5), MW-08 (160-60379-6) and MW-09 (160-60379-7) were analyzed for Radium-228 (GFPC). The samples were prepared on 11/18/2025 and analyzed on 12/8/2025.

Method Ra226_Ra228 - Combined Radium-226 and Radium-228

Samples MW-01 (160-60379-1), MW-2B (160-60379-2), MW-4B (160-60379-3), MW-5B (160-60379-4), MW-07 (160-60379-5), MW-08 (160-60379-6) and MW-09 (160-60379-7) were analyzed for Combined Radium-226 and Radium-228. The samples were analyzed on 12/11/2025.

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

Eurofins St. Louis

Log separate
100 report

Cedar Falls, IA 50613
phone 319.277.2401 fax 319.277.2425

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:[illegible]

Login Sample Receipt Checklist

Client: Hastings Utilities

Job Number: 160-60379-1

Login Number: 60379

List Source: Eurofins St. Louis

List Number: 1

Creator: Worthington, Sierra M

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

Definitions/Glossary

Client: Hastings Utilities
Project/Site: Rad Groundwater

Job ID: 160-60379-1

Qualifiers

Rad

Qualifier	Qualifier Description
U	Result is less than the sample detection limit.

Glossary

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

Method Summary

Client: Hastings Utilities
Project/Site: Rad Groundwater

Job ID: 160-60379-1

Method	Method Description	Protocol	Laboratory
903.0	Radium-226 (GFPC)	EPA	EET SL
904.0	Radium-228 (GFPC)	EPA	EET SL
Ra226_Ra228	Combined Radium-226 and Radium-228	TAL-STL	EET SL
PrecSep_0	Preparation, Precipitate Separation	None	EET SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	EET SL

Protocol References:

EPA = US Environmental Protection Agency

None = None

TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Sample Summary

Client: Hastings Utilities
Project/Site: Rad Groundwater

Job ID: 160-60379-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
160-60379-1	MW-01	Water	11/07/25 14:10	11/14/25 11:50	Nebraska
160-60379-2	MW-2B	Water	11/07/25 14:55	11/14/25 11:50	Nebraska
160-60379-3	MW-4B	Water	11/10/25 10:40	11/14/25 11:50	Nebraska
160-60379-4	MW-5B	Water	11/07/25 10:25	11/14/25 11:50	Nebraska
160-60379-5	MW-07	Water	11/07/25 13:15	11/14/25 11:50	Nebraska
160-60379-6	MW-08	Water	11/07/25 15:40	11/14/25 11:50	Nebraska
160-60379-7	MW-09	Water	11/07/25 12:00	11/14/25 11:50	Nebraska

Client Sample Results

Client: Hastings Utilities
Project/Site: Rad Groundwater

Job ID: 160-60379-1

Client Sample ID: MW-01

Date Collected: 11/07/25 14:10

Date Received: 11/14/25 11:50

Lab Sample ID: 160-60379-1

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.294		0.152	0.154	1.00	0.189	pCi/L	11/18/25 08:07	12/10/25 23:07	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.8		30 - 110					11/18/25 08:07	12/10/25 23:07	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.04		0.437	0.447	1.00	0.570	pCi/L	11/18/25 08:09	12/08/25 11:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.8		30 - 110					11/18/25 08:09	12/08/25 11:57	1
Y Carrier	80.7		30 - 110					11/18/25 08:09	12/08/25 11:57	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.34		0.463	0.473	5.00	0.570	pCi/L		12/11/25 15:01	1

Client Sample ID: MW-2B

Date Collected: 11/07/25 14:55

Date Received: 11/14/25 11:50

Lab Sample ID: 160-60379-2

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.360		0.167	0.171	1.00	0.201	pCi/L	11/18/25 08:07	12/10/25 23:07	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.7		30 - 110					11/18/25 08:07	12/10/25 23:07	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.94		0.537	0.566	1.00	0.578	pCi/L	11/18/25 08:09	12/08/25 11:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.7		30 - 110					11/18/25 08:09	12/08/25 11:56	1
Y Carrier	78.1		30 - 110					11/18/25 08:09	12/08/25 11:56	1

Eurofins St. Louis

Client Sample Results

Client: Hastings Utilities
Project/Site: Rad Groundwater

Job ID: 160-60379-1

Client Sample ID: MW-2B

Date Collected: 11/07/25 14:55

Date Received: 11/14/25 11:50

Lab Sample ID: 160-60379-2

Matrix: Water

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	2.30		0.562	0.591	5.00	0.578	pCi/L		12/11/25 15:01	1

Client Sample ID: MW-4B

Date Collected: 11/10/25 10:40

Date Received: 11/14/25 11:50

Lab Sample ID: 160-60379-3

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.214		0.133	0.134	1.00	0.177	pCi/L	11/18/25 08:07	12/10/25 23:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.9		30 - 110					11/18/25 08:07	12/10/25 23:06	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.12		0.400	0.413	1.00	0.468	pCi/L	11/18/25 08:09	12/08/25 11:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.9		30 - 110					11/18/25 08:09	12/08/25 11:56	1
Y Carrier	81.5		30 - 110					11/18/25 08:09	12/08/25 11:56	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.33		0.422	0.434	5.00	0.468	pCi/L		12/11/25 15:01	1

Client Sample ID: MW-5B

Date Collected: 11/07/25 10:25

Date Received: 11/14/25 11:50

Lab Sample ID: 160-60379-4

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.163	U	0.147	0.148	1.00	0.230	pCi/L	11/18/25 08:07	12/10/25 23:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.4		30 - 110					11/18/25 08:07	12/10/25 23:06	1

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Client Sample Results

Client: Hastings Utilities
Project/Site: Rad Groundwater

Job ID: 160-60379-1

Client Sample ID: MW-5B

Date Collected: 11/07/25 10:25

Date Received: 11/14/25 11:50

Lab Sample ID: 160-60379-4

Matrix: Water

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.582		0.354	0.358	1.00	0.510	pCi/L	11/18/25 08:09	12/08/25 11:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.4		30 - 110					11/18/25 08:09	12/08/25 11:56	1
Y Carrier	80.7		30 - 110					11/18/25 08:09	12/08/25 11:56	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.745		0.383	0.387	5.00	0.510	pCi/L		12/11/25 15:01	1

Client Sample ID: MW-07

Date Collected: 11/07/25 13:15

Date Received: 11/14/25 11:50

Lab Sample ID: 160-60379-5

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.178	U	0.148	0.149	1.00	0.224	pCi/L	11/18/25 08:07	12/10/25 23:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.5		30 - 110					11/18/25 08:07	12/10/25 23:06	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.520	U	0.382	0.385	1.00	0.575	pCi/L	11/18/25 08:09	12/08/25 11:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.5		30 - 110					11/18/25 08:09	12/08/25 11:56	1
Y Carrier	73.6		30 - 110					11/18/25 08:09	12/08/25 11:56	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.699		0.410	0.413	5.00	0.575	pCi/L		12/11/25 15:01	1

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Client Sample Results

Client: Hastings Utilities
Project/Site: Rad Groundwater

Job ID: 160-60379-1

Client Sample ID: MW-08

Date Collected: 11/07/25 15:40

Date Received: 11/14/25 11:50

Lab Sample ID: 160-60379-6

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.266		0.136	0.138	1.00	0.160	pCi/L	11/18/25 08:07	12/10/25 23:07	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.0		30 - 110					11/18/25 08:07	12/10/25 23:07	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.718		0.408	0.413	1.00	0.583	pCi/L	11/18/25 08:09	12/08/25 11:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.0		30 - 110					11/18/25 08:09	12/08/25 11:56	1
Y Carrier	76.6		30 - 110					11/18/25 08:09	12/08/25 11:56	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.984		0.430	0.435	5.00	0.583	pCi/L		12/11/25 15:01	1

Client Sample ID: MW-09

Date Collected: 11/07/25 12:00

Date Received: 11/14/25 11:50

Lab Sample ID: 160-60379-7

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.254		0.142	0.144	1.00	0.182	pCi/L	11/18/25 08:07	12/10/25 23:07	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.8		30 - 110					11/18/25 08:07	12/10/25 23:07	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.19		0.449	0.462	1.00	0.547	pCi/L	11/18/25 08:09	12/08/25 11:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.8		30 - 110					11/18/25 08:09	12/08/25 11:56	1
Y Carrier	77.8		30 - 110					11/18/25 08:09	12/08/25 11:56	1

Eurofins St. Louis

Client Sample Results

Client: Hastings Utilities
Project/Site: Rad Groundwater

Job ID: 160-60379-1

Client Sample ID: MW-09
Date Collected: 11/07/25 12:00
Date Received: 11/14/25 11:50

Lab Sample ID: 160-60379-7
Matrix: Water

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.44		0.471	0.484	5.00	0.547	pCi/L		12/11/25 15:01	1

QC Sample Results

Client: Hastings Utilities
Project/Site: Rad Groundwater

Job ID: 160-60379-1

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-745751/1-A
Matrix: Water
Analysis Batch: 748729

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 745751

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.01051	U	0.117	0.117	1.00	0.236	pCi/L	11/18/25 08:07	12/10/25 23:08	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.0		30 - 110					11/18/25 08:07	12/10/25 23:08	1

Lab Sample ID: LCS 160-745751/2-A
Matrix: Water
Analysis Batch: 748729

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 745751

Analyte		Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-226		9.57	9.962		1.14	1.00	0.192	pCi/L	104	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits							
Ba Carrier	88.3		30 - 110							

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-745752/1-A
Matrix: Water
Analysis Batch: 748411

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 745752

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.5017	U	0.385	0.388	1.00	0.596	pCi/L	11/18/25 08:09	12/08/25 11:58	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.0		30 - 110					11/18/25 08:09	12/08/25 11:58	1
Y Carrier	82.6		30 - 110					11/18/25 08:09	12/08/25 11:58	1

Lab Sample ID: LCS 160-745752/2-A
Matrix: Water
Analysis Batch: 748411

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 745752

Analyte		Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-228		7.87	8.237		1.18	1.00	0.509	pCi/L	105	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits							
Ba Carrier	88.3		30 - 110							
Y Carrier	82.6		30 - 110							

QC Association Summary

Client: Hastings Utilities
Project/Site: Rad Groundwater

Job ID: 160-60379-1

Rad

Prep Batch: 745751

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-60379-1	MW-01	Total/NA	Water	PrecSep-21	
160-60379-2	MW-2B	Total/NA	Water	PrecSep-21	
160-60379-3	MW-4B	Total/NA	Water	PrecSep-21	
160-60379-4	MW-5B	Total/NA	Water	PrecSep-21	
160-60379-5	MW-07	Total/NA	Water	PrecSep-21	
160-60379-6	MW-08	Total/NA	Water	PrecSep-21	
160-60379-7	MW-09	Total/NA	Water	PrecSep-21	
MB 160-745751/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-745751/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 745752

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-60379-1	MW-01	Total/NA	Water	PrecSep_0	
160-60379-2	MW-2B	Total/NA	Water	PrecSep_0	
160-60379-3	MW-4B	Total/NA	Water	PrecSep_0	
160-60379-4	MW-5B	Total/NA	Water	PrecSep_0	
160-60379-5	MW-07	Total/NA	Water	PrecSep_0	
160-60379-6	MW-08	Total/NA	Water	PrecSep_0	
160-60379-7	MW-09	Total/NA	Water	PrecSep_0	
MB 160-745752/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-745752/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Tracer/Carrier Summary

Client: Hastings Utilities
Project/Site: Rad Groundwater

Job ID: 160-60379-1

Method: 903.0 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)					
Lab Sample ID	Client Sample ID	Ba					
		(30-110)					
160-60379-1	MW-01	85.8					
160-60379-2	MW-2B	82.7					
160-60379-3	MW-4B	88.9					
160-60379-4	MW-5B	89.4					
160-60379-5	MW-07	80.5					
160-60379-6	MW-08	88.0					
160-60379-7	MW-09	83.8					
LCS 160-745751/2-A	Lab Control Sample	88.3					
MB 160-745751/1-A	Method Blank	90.0					
Tracer/Carrier Legend							
Ba = Ba Carrier							

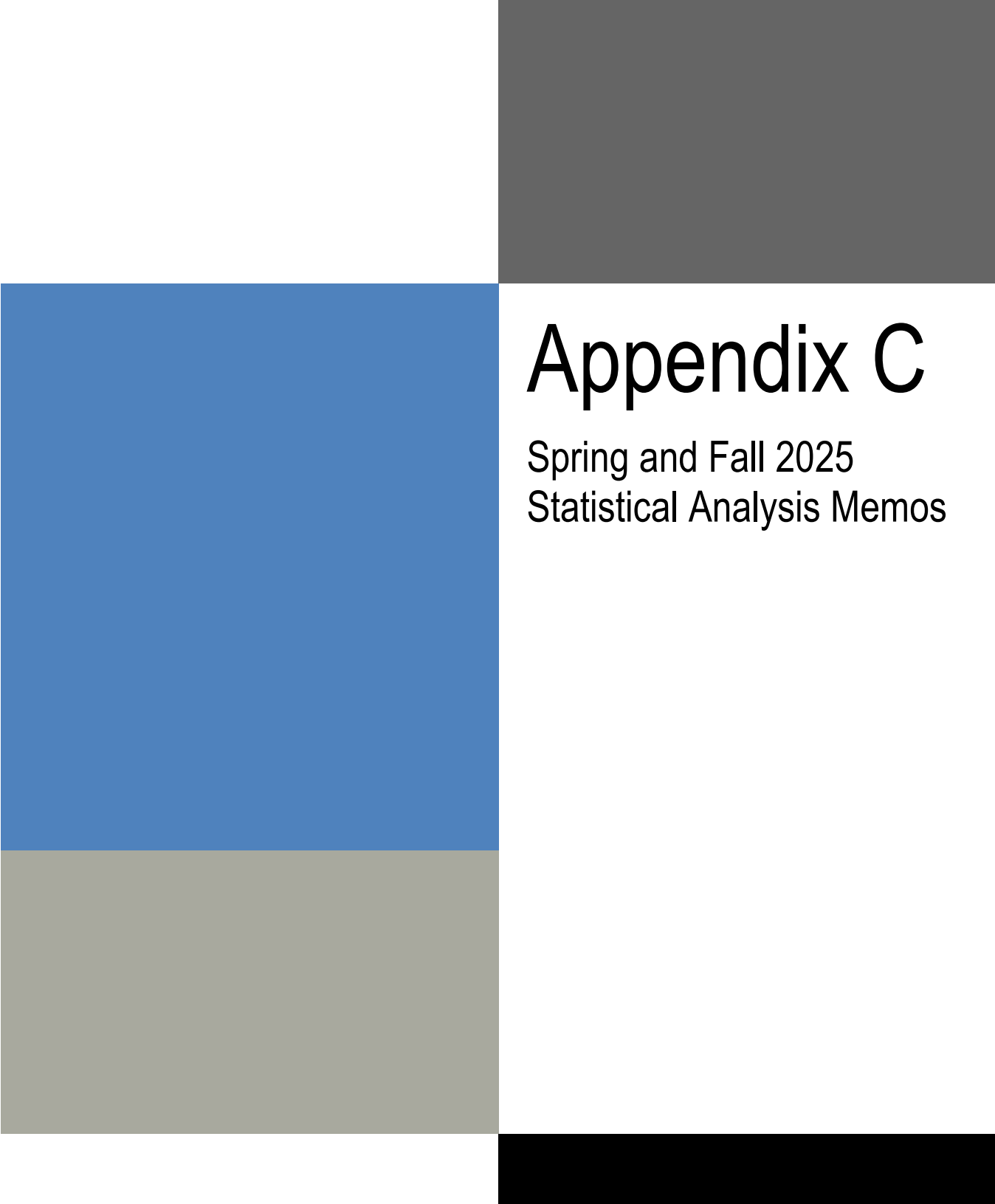
Method: 904.0 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)					
Lab Sample ID	Client Sample ID	Ba		Y			
		(30-110)		(30-110)			
160-60379-1	MW-01	85.8		80.7			
160-60379-2	MW-2B	82.7		78.1			
160-60379-3	MW-4B	88.9		81.5			
160-60379-4	MW-5B	89.4		80.7			
160-60379-5	MW-07	80.5		73.6			
160-60379-6	MW-08	88.0		76.6			
160-60379-7	MW-09	83.8		77.8			
LCS 160-745752/2-A	Lab Control Sample	88.3		82.6			
MB 160-745752/1-A	Method Blank	90.0		82.6			
Tracer/Carrier Legend							
Ba = Ba Carrier							
Y = Y Carrier							

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Appendix C

Spring and Fall 2025
Statistical Analysis Memos

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Memo

Date: Thursday, June 12, 2025

To: Public Power Generation Agency (PPGA)

From: HDR Engineering, Inc.

Subject: Summary of Statistical Analysis and Evaluation for SSIs and SSLs – Spring 2025
WEC Temporary Ash Disposal Area
CCR Groundwater Monitoring Network

Whelan Energy Center (WEC), operated by Hastings Utilities, City of Hastings (Hastings), is located at 4520 East South Street, Hastings, Adams County, Nebraska, approximately two miles east of the City of Hastings, Nebraska. WEC consists of two fossil fuel combustion units. WEC Unit No. 1 (WEC1) is owned and operated by Hastings. WEC Unit No. 2 (WEC2) is owned by Public Power Generation Agency (PPGA), of which Hastings is a member and acts as operating agent for PPGA. WEC Temporary Ash Disposal Area is an existing unlined CCR surface impoundment of approximately 23.2 acres serving the two fossil fuel combustion units. Approximately 6.1 acres of the WEC Temporary Ash Disposal Area had been retrofitted to a composite liner (landfill cell and leachate pond) at the time of the spring 2025 sampling event.

An assessment monitoring program, including groundwater sampling, was initiated for the WEC Temporary Ash Disposal Area in July 2018, as required by the CCR rule, within the 90-day period specified in 40 CFR §257.95 and Title 132 Chapter 7 Section 004.

The semiannual spring 2025 sampling event was analyzed for parameters in the Appendix III and Appendix IV list, as required by 40 CFR §257.95(b). The statistical analysis was performed in accordance with the methods described in the *Groundwater Monitoring Statistical Certification* for the WEC Temporary Ash Disposal Area, dated February 9, 2018, and the Title 132 Groundwater Sampling and Analysis Plan (SAP), dated August 6, 2021.

Monitoring results used to calculate background threshold values (BTVs) were obtained during sampling events conducted between November 2016 and November 2022. Background data sets will be updated approximately every two years or during a monitoring program transition, as recommended by the United States Environmental Protection Agency's (U.S. EPA) Unified Guidance, "Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities" (2009). BTVs were planned to be updated in spring 2025. However, one upgradient monitoring well (MW-6) was not sampled during the spring 2025 sampling event; therefore four measurements have not been collected for all of the background monitoring wells since the last BTV update. A BTVs update will be conducted in fall 2025 following one more round of semiannual compliance monitoring. This update will occur whether an additional groundwater sample is collected from MW-6 and MW-3R or not. Downgradient sampling results from the spring 2025 assessment monitoring event were used to evaluate for statistically significant increases (SSIs) over background and statistically significant levels (SSLs) over the groundwater protection standard (GWPS). The calculated BTVs and the evaluation for SSIs above BTVs for the Appendix III and Appendix IV constituents are provided in **Table D1**.

Table D1. Summary of Evaluation for SSIs over Background

		Well ID:	MW-1	MW-2B	MW-3R	MW-4B	MW-7	MW-8
Constituent	BTV (UPL):	Unit	Assessment Monitoring Results in accordance with §257.95(b)(1) – May 2025					
Appendix III Constituents								
Boron	1.64	mg/L	0.905	0.544	N.S.	0.735	0.838	0.941
Calcium	74.6	mg/L	30.8	<u>82.7</u>	N.S.	45.7	43.5	39.0
Chloride	34.7	mg/L	29.1	30.2	N.S.	28.9	29.5	30.5
Fluoride*	1.50	mg/L	0.645	0.302	N.S.	0.377	0.739	1.09
pH	6.20 – 7.47**	SU	6.65	6.79	N.S.	6.45	6.65	7.05
Sulfate	198	mg/L	145	126	N.S.	<u>215</u>	153	190
TDS	576	mg/L	360	456	N.S.	460	386	428
Appendix IV Constituents								
Antimony	0.002	mg/L	<0.00100	<0.00100	N.S.	<0.00100	<0.00100	<0.00100
Arsenic	0.00628	mg/L	0.00365	0.00227	N.S.	0.00225	0.00332	0.00327
Barium	0.0613	mg/L	<u>0.0750</u>	<u>0.189</u>	N.S.	0.0435	0.0605	0.0590
Beryllium	0.001	mg/L	<0.000330	<0.000330	N.S.	<0.000330	<0.000330	<0.000330
Cadmium	0.0001	mg/L	<0.000100	<0.000100	N.S.	<0.000100	<0.000100	<0.000100
Chromium	0.0484	mg/L	0.0422	0.0163	N.S.	0.00553	0.0152	0.0329
Cobalt	0.001	mg/L	<0.000170	<0.000170	N.S.	<0.000170	0.000332J	<0.000170
Fluoride*	1.50	mg/L	0.645	0.302	N.S.	0.377	0.739	1.09
Lead	0.0207	mg/L	<0.000330	<0.000330	N.S.	<0.000330	0.000597	<0.000330
Lithium	0.0171	mg/L	0.00949J	0.0149	N.S.	<u>0.0248</u>	0.0137	0.0107
Mercury	0.0002	mg/L	<0.000110	<0.000110	N.S.	<0.000110	<0.000110	<0.000110
Molybdenum	0.0467	mg/L	0.0286	0.00270	N.S.	0.00970	0.0147	0.0335
Radium 226+228	2.03	pCi/L	0.806	<u>2.10</u>	N.S.	0.853	1.56	0.814
Selenium	0.140	mg/L	0.0443	0.0354	N.S.	0.0407	0.0688	0.0533
Thallium	0.001	mg/L	<0.000570	<0.000570	N.S.	<0.000570	<0.000570	<0.000570

Bold and underlined concentration indicates an SSI over background.

* Fluoride is listed in both Appendix III and Appendix IV of the CCR Final Rule (40 CFR Part 257) (i.e., Detection and Assessment Monitoring Constituents).

** Indicates the lower bound of the range which is the lower prediction limit (LPL). The upper bound is the upper prediction limit (UPL).

“J” indicates that the result is less than the laboratory reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value.

“U” indicates that the laboratory result is less than the sample detection limit. This flag is only noted for radium results.

N.S. – Not Sampled

The calculated lower confidence levels (LCLs) and the evaluation for SSLs over the GWPS for the Appendix IV constituents are provided in **Table D2**. There were no Appendix IV constituents detected over the GWPS during the spring 2025 sampling event; therefore, the WEC Temporary Ash Disposal Area will remain in assessment monitoring for the fall 2025 sampling event.



Table D2. Summary of Evaluation for SSLs over GWPS

Well ID:		MW-1	MW-2B	MW-3R	MW-4B	MW-7	MW-8	
Constituent	GWPS ^[1]	Unit	Confidence Intervals in accordance with §257.95(d)(1)					
Antimony	0.006	mg/L	0.001	0.001	0.001	0.001	0.001	0.001
Arsenic	0.01	mg/L	0.003916	0.002034	0.002231	0.002323	0.003004	0.003519
Barium	2.00	mg/L	0.07163	0.1897	0.06023	0.03946	0.03328	0.03708
Beryllium	0.004	mg/L	0.00033	0.00033	0.00033	0.00033	0.00033	0.00033
Cadmium	0.005	mg/L	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
Chromium	0.1	mg/L	0.0267	0.01652	0.005447	0.006394	0.01182	0.0325
Cobalt	0.006	mg/L	0.00017	0.00017	0.000108	0.00017	0.00017	0.00017
Fluoride	4.00	mg/L	0.4041	0.302	0.374	0.375	0.5285	0.8618
Lead	0.0207 ^[2]	mg/L	0.00033	0.00033	0.00026	0.00033	0.00026	0.00033
Lithium	0.04	mg/L	0.009542	0.01485	0.02812	0.02341	0.01298	0.009925
Mercury	0.002	mg/L	0.00011	0.00011	0.00011	0.00011	0.00011	0.00011
Molybdenum	0.100	mg/L	0.02591	0.00209	0.005597	0.00809	0.01273	0.0299
Radium 226+228	5.00	pCi/L	0.7444	1.223	0.7338	0.8235	0.9045	0.5836
Selenium	0.140 ^[2]	mg/L	0.04199	0.03545	0.03364	0.033	0.0483	0.04815
Thallium	0.002	mg/L	0.00057	0.00057	0.00057	0.00057	0.00057	0.00057

^[1] GWPS is established as the U.S. EPA Maximum Contaminant Level (MCL) or the GWPS specified in §257.95(h)(2) unless specified otherwise.

^[2] GWPS is established as the upper prediction limit when the background level is higher than the U.S. EPA MCL.

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Memo

Date: Thursday, January 15, 2026

To: Public Power Generation Agency (PPGA)

From: HDR Engineering, Inc.

Subject: Summary of Statistical Analysis and Evaluation for SSIs and SSLs – Fall 2025
WEC Temporary Ash Disposal Area
CCR Groundwater Monitoring Network

Whelan Energy Center (WEC), operated by Hastings Utilities, City of Hastings (Hastings), is located at 4520 East South Street, Hastings, Adams County, Nebraska, approximately two miles east of the City of Hastings, Nebraska. WEC consists of two fossil fuel combustion units. WEC Unit No. 1 (WEC1) is owned and operated by Hastings. WEC Unit No. 2 (WEC2) is owned by Public Power Generation Agency (PPGA), of which Hastings is a member and acts as operating agent for PPGA. WEC Temporary Ash Disposal Area is an existing unlined CCR surface impoundment of approximately 23.2 acres serving the two fossil fuel combustion units. Approximately 6 acres of the WEC Temporary Ash Disposal Area had been cleaned of CCR and retrofitted to a composite liner (landfill cell and leachate pond) at the time of the fall 2025 sampling event.

An assessment monitoring program, including groundwater sampling, was initiated for the WEC Temporary Ash Disposal Area in July 2018, as required by the CCR rule, within the 90-day period specified in 40 CFR §257.95 and Title 132 Chapter 7 Section 004.

The semiannual FALL 2025 sampling event was analyzed for parameters in the Appendix III and Appendix IV list, as required by 40 CFR §257.95(b). The statistical analysis was performed in accordance with the methods described in the *Groundwater Monitoring Statistical Certification* for the WEC Temporary Ash Disposal Area, dated February 9, 2018, and the Title 132 Groundwater Sampling and Analysis Plan (SAP), dated August 6, 2021.

The background threshold values (BTVs) are updated as part of the Fall 2025 sampling event, calculated with data obtained during monitoring events performed between November 2016 and November 2025. Background data sets will be updated approximately every two years or during a monitoring program transition, as recommended by the United States Environmental Protection Agency's (U.S. EPA) Unified Guidance, "Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities" (2009). The next BTV update is scheduled to occur in fall 2027.

Downgradient sampling results from the Fall 2025 assessment monitoring event were used to evaluate for SSIs over background and statistically significant levels (SSLs) over the groundwater protection standard (GWPS). The calculated BTVs and the evaluation for SSIs above BTVs for the Appendix III and Appendix IV constituents are provided in **Table D-1**.

Table D-1. Summary of Evaluation for SSIs over Background

Well ID:		MW-1	MW-2B	MW-3R	MW-4B	MW-7	MW-8	
Constituent	BTV (UPL):	Unit	Assessment Monitoring Results in accordance with §257.95(b)(1) – November 2025					
Appendix III Constituents								
Boron	1.64	mg/L	1.11	0.529	N.S.	0.743	0.735	1.11
Calcium	72.3	mg/L	36.8	67.7	N.S.	42.3	41.5	30.2
Chloride	34.1	mg/L	31.4	30.4	N.S.	28.9	28.7	26.9
Fluoride*	1.56	mg/L	0.721	0.343	N.S.	0.577	0.761	1.24
pH	6.33 – 7.46**	SU	6.66	6.71	N.S.	6.46	6.67	7.06
Sulfate	196	mg/L	163	128	N.S.	189	148	152
TDS	563	mg/L	380	470	N.S.	396	380	364
Appendix IV Constituents								
Antimony	0.00103	mg/L	<0.00100	0.00198J	N.S.	<0.00100	<0.00100	<0.00100
Arsenic	0.00615	mg/L	0.00390	0.00222	N.S.	0.00230	0.00284	0.00356
Barium	0.0967	mg/L	0.0794	0.157	N.S.	0.0356	0.0474	0.0459
Beryllium	0.000330	mg/L	<0.000330	<0.000330	N.S.	<0.000330	<0.000330	<0.000330
Cadmium	0.000100	mg/L	<0.000100	<0.000100	N.S.	<0.000100	<0.000100	<0.000100
Chromium	0.0507	mg/L	0.0365	0.0138	N.S.	0.0112	0.0194	0.0405
Cobalt	0.000420	mg/L	<0.000170	<0.000170	N.S.	<0.000170	<0.000170	<0.000170
Fluoride*	1.56	mg/L	0.721	0.343	N.S.	0.577	0.761	1.24
Lead	0.0207	mg/L	<0.000330	<0.000330	N.S.	<0.000330	<0.000330	<0.000330
Lithium	0.0167	mg/L	0.0102	0.0136	N.S.	0.0208	0.0128	0.00975J
Mercury	0.000110	mg/L	<0.000110	<0.000110	N.S.	<0.000110	<0.000110	<0.000110
Molybdenum	0.0493	mg/L	0.0236	0.00224	N.S.	0.00810	0.0125	0.0436
Radium 226+228	2.27	pCi/L	1.34	2.30	N.S.	1.33	0.699	0.984
Selenium	0.139	mg/L	0.0337	0.0318	N.S.	0.0494	0.0606	0.0496
Thallium	0.000627	mg/L	<0.000570	<0.000570	N.S.	<0.000570	<0.000570	<0.000570

Bold and underlined concentration indicates an SSI over background.

* Fluoride is listed in both Appendix III and Appendix IV of the CCR Final Rule (40 CFR Part 257) (i.e., Detection and Assessment Monitoring Constituents).

** Indicates the lower bound of the range which is the lower prediction limit (LPL). The upper bound is the upper prediction limit (UPL).

“J” indicates that the result is less than the laboratory reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value.

“U” indicates that the laboratory result is less than the sample detection limit. This flag is only noted for radium results.

The calculated lower confidence levels (LCLs) and the evaluation for SSLs over the GWPS for the Appendix IV constituents are provided in **Table D-2**. There were no Appendix IV constituents detected over the GWPS during the fall 2025 sampling event; therefore, the WEC Temporary Ash Disposal Area will remain in assessment monitoring for the spring 2026 sampling event.

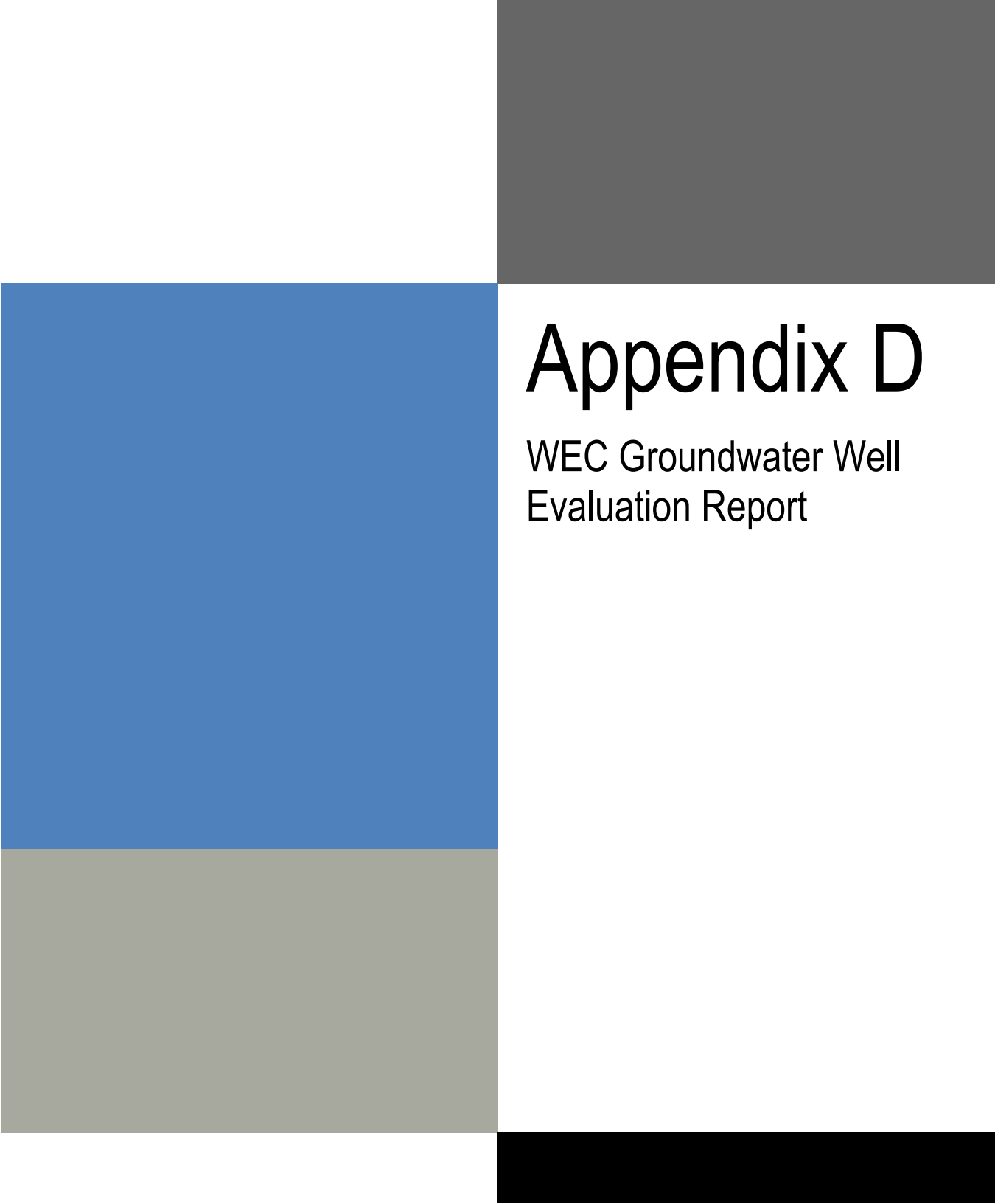
Table D-2. Summary of Evaluation for SSLs over GWPS

Well ID:		MW-1	MW-2B	MW-3R	MW-4B	MW-7	MW-8	
Constituent	GWPS ^[1]	Unit	Confidence Intervals in accordance with §257.95(d)(1)					
Antimony	0.006	mg/L	0.001	0.001	0.001	0.001	0.001	0.001
Arsenic	0.01	mg/L	0.003885	0.002056	0.002231	0.002308	0.002943	0.003496
Barium	2.00	mg/L	0.07533	0.1736	0.06023	0.04063	0.03414	0.03894
Beryllium	0.004	mg/L	0.00033	0.00033	0.00033	0.00033	0.00033	0.00033
Cadmium	0.005	mg/L	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
Chromium	0.1	mg/L	0.02699	0.0157	0.005447	0.006633	0.01179	0.0325
Cobalt	0.006	mg/L	0.00017	0.00017	0.000108	0.00017	0.00017	0.00017
Fluoride	4.00	mg/L	0.4306	0.302	0.374	0.375	0.5337	0.8649
Lead	0.0207 ^[2]	mg/L	0.00033	0.00033	0.00026	0.00033	0.000281	0.00033
Lithium	0.04	mg/L	0.009556	0.01464	0.02812	0.02437	0.0128	0.009859
Mercury	0.002	mg/L	0.00011	0.00011	0.00011	0.00011	0.00011	0.00011
Molybdenum	0.1	mg/L	0.02396	0.00213	0.005597	0.00774	0.01268	0.03025
Radium 226+228	5.00	pCi/L	0.7463	1.338	0.7338	0.9298	0.7963	0.6944
Selenium	0.139 ^[2]	mg/L	0.04311	0.03433	0.03364	0.03429	0.05286	0.04981
Thallium	0.002	mg/L	0.00057	0.00057	0.00057	0.00057	0.00057	0.00057

^[1] GWPS is established as the U.S. EPA Maximum Contaminant Level (MCL) or the GWPS specified in §257.95(h)(2) unless specified otherwise.

^[2] GWPS is established as the upper tolerance limit when the background level is higher than the U.S. EPA MCL.

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Appendix D

WEC Groundwater Well
Evaluation Report

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Memo

Date: Friday, August 08, 2025

To: Public Power Generation Agency (PPGA); Marina Richards, Jenny Sidlo

From: HDR Engineering, Inc.; Lori Calub, P.E., Brendan Bunker, E.I.T.

Subject: WEC Groundwater Well Evaluation

Overview

In conformance with the U.S. Environmental Protection Agency (EPA)'s final rule for the regulation and management of coal combustion residuals (CCR) and the Nebraska Department of Water, Energy, and Environment's (NDWEE) Title 132, the Gerald T. Whelan Energy Center (WEC) has an active groundwater monitoring network which has been regularly monitored by City of Hastings Utilities (City) personnel since wells were initially installed in 2001. As part of the required semi-annual monitoring activities at WEC, the City has obtained regular measurements of groundwater depths at each well. Recently, the water levels within some network wells at WEC have dropped to depths that have made sampling infeasible. To investigate current conditions within these wells, the City has completed a video inspection to clarify the approximate depths of the wells and their screened intervals. The purpose of this memo is to evaluate the information obtained by the City during the video inspection along with historic water level data to assess the current viability of each well and to determine a course of action considering the current pattern of groundwater level decline at WEC.

The present groundwater monitoring well network at WEC includes three (3) upgradient wells and six (6) downgradient wells, for a total of nine (9) networks wells. A summary table with a list of these wells is shown below in **Table 1**.

Table 1. Groundwater Monitoring Network Wells

Monitoring Well ID	Date Installed	Well Depth (feet bgs*)	Screened Interval (feet bgs*)	Location
MW-1	7/28/1999	134	104.0 – 134.0	Downgradient
MW-2B	10/18/2016	160	150.0 – 160.0	Downgradient
MW-3R	1/29/2011	111.9	101.9 – 111.9	Downgradient
MW-4B	10/26/2016	119	109.0 – 119.0	Down/cross-gradient
MW-5B	10/11/2016	121	111.0 – 121.0	Upgradient
MW-6	10/5/2004	110	100.0 – 110.0	Upgradient
MW-7	10/7/2016	127	117.0 – 127.0	Downgradient
MW-8	10/20/2016	127	117.0 – 127.0	Down/cross-gradient
MW-9	10/10/2016	117	107.0 – 117.0	Upgradient

*bgs = below ground surface

Dropping water levels at WEC have led to difficult conditions for sampling the present groundwater network. During recent semi-annual sampling events in fall 2024 and spring 2025, samples could not be obtained from MW-3R and MW-6 because an insufficient amount of water was present. In MW-3R, the water level was below the bottom of the screened interval in the sump, and did not show signs of recharge. During both sampling events, there was no water present in MW-6. The water levels in other wells have dropped below their respective dedicated pumps and required the use of a non-dedicated spare pump. This has occurred most recently in MW-5B and MW-9. The presence of these issues is the primary driver for this evaluation and are addressed in the following sections.

Historical Trends

It is generally understood that groundwater levels at WEC and in the surrounding Hastings area have been in decline for several years. This decline could be attributed to ongoing drought conditions, irrigation, and the effects of local high-capacity production wells. Water level measurements have been collected at WEC since 1999, when the first monitoring well (MW-1) was installed at the facility. Since installation, the water level within MW-1 has dropped over 11 feet. This trend of groundwater decline has prompted the redrilling of multiple network wells in recent years, including MW-2, MW-3, MW-4, and MW-5. Plots of historical water levels at each of the network wells, included as **Attachment A**, illustrate the pattern of groundwater decline at WEC. Wells with deep/redrilled counterparts are superimposed on the same graph. The screened interval for each network well is also visible.

Video Inspection Results

Video inspection of the network wells at WEC was conducted by Hastings Utilities personnel (Jenny Sidlo) on January 29, 2025, and July 2, 2025. It should be noted that the inspection did not include MW-1 as personnel opted to keep the existing pump within the well; notwithstanding, the current elevation of groundwater within MW-1 indicates that it will continue to be viable for sampling. The figure included in **Attachment B** contains a table and a plot which summarizes information obtained during the video inspection.

Recommendation

Based on this evaluation of current conditions at network wells at WEC, it can be confirmed that groundwater elevations at MW-3R, MW-5B, MW-6, and MW-9 shown a generally downward trend. Findings from the video inspection indicate that groundwater has dipped below the bottom of the screen in MW-3R and MW-6. Unless MW-3R and MW-6 receive a significant amount of recharge, they will not be viable for sampling. **During the next scheduled groundwater sampling event, if both wells remain dry, it is HDR's recommendation that two additional wells be drilled at an increased depth to replace MW-3R and MW-6 prior to the 2026 spring sampling event. If a sample is obtained from one or both wells during the next scheduled groundwater sampling event, the path forward may be re-evaluated.**

Groundwater has also dropped below dedicated pumps in MW-5B and MW-9. According to the most recent water level readings (visualized in **Attachment B**), it appears that MW-5B contained approximately 2.3-feet of water (2.0-feet above bottom of screen), and that MW-9 contained approximately 3.2-feet of water (3.0-feet above bottom of screen). Both wells were sampled during

the most recent sampling event, but similar to other network wells, show signs of continued decline. Since their installation, the water levels in MW-5B and MW-9 have dropped by 3.7-feet and 3.4-feet, respectively. Assuming they continue declining at current rates, groundwater will drop below the screened interval in MW-5B in roughly 4.6-years; MW-9 in roughly 7.7-years. For the time being, **it is HDR's recommendation that City personnel continue to sample MW-5B and MW-9 with a non-dedicated pump as needed, until water levels begin to more closely approach the bottom of the screened interval in each well. HDR will continue to monitor static water level readings as they are received from semi-annual monitoring events.**

Furthermore, data from the video inspection suggests that the remaining network wells have adequate water for sampling, and no further action is recommended at this time for these wells.

Please feel free to reach out to us with any questions and/or comments on any information presented within the memo or the following two attachments.

Attachments

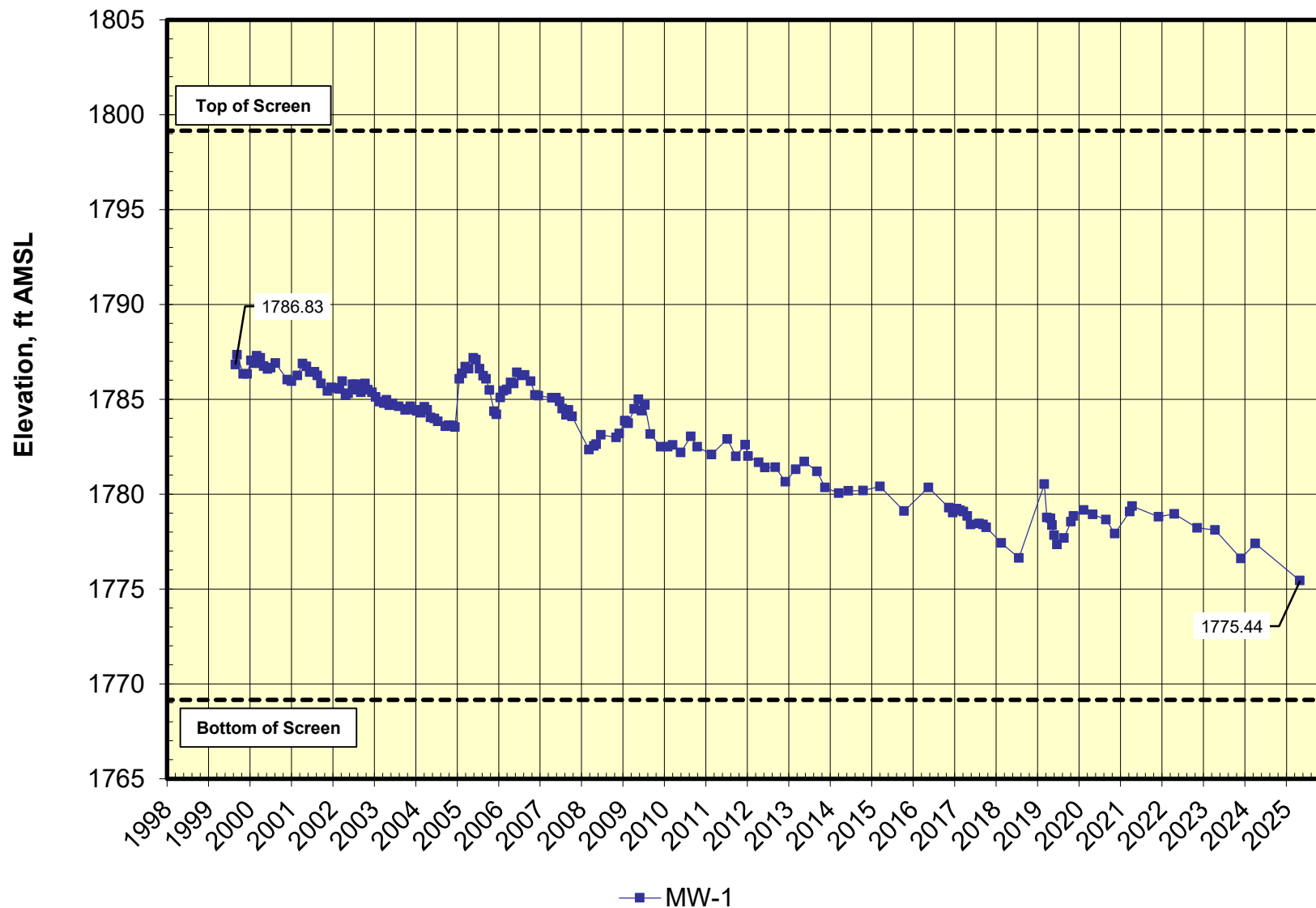
Attachment A – Historical Groundwater Levels

Attachment B – Video Inspection Results

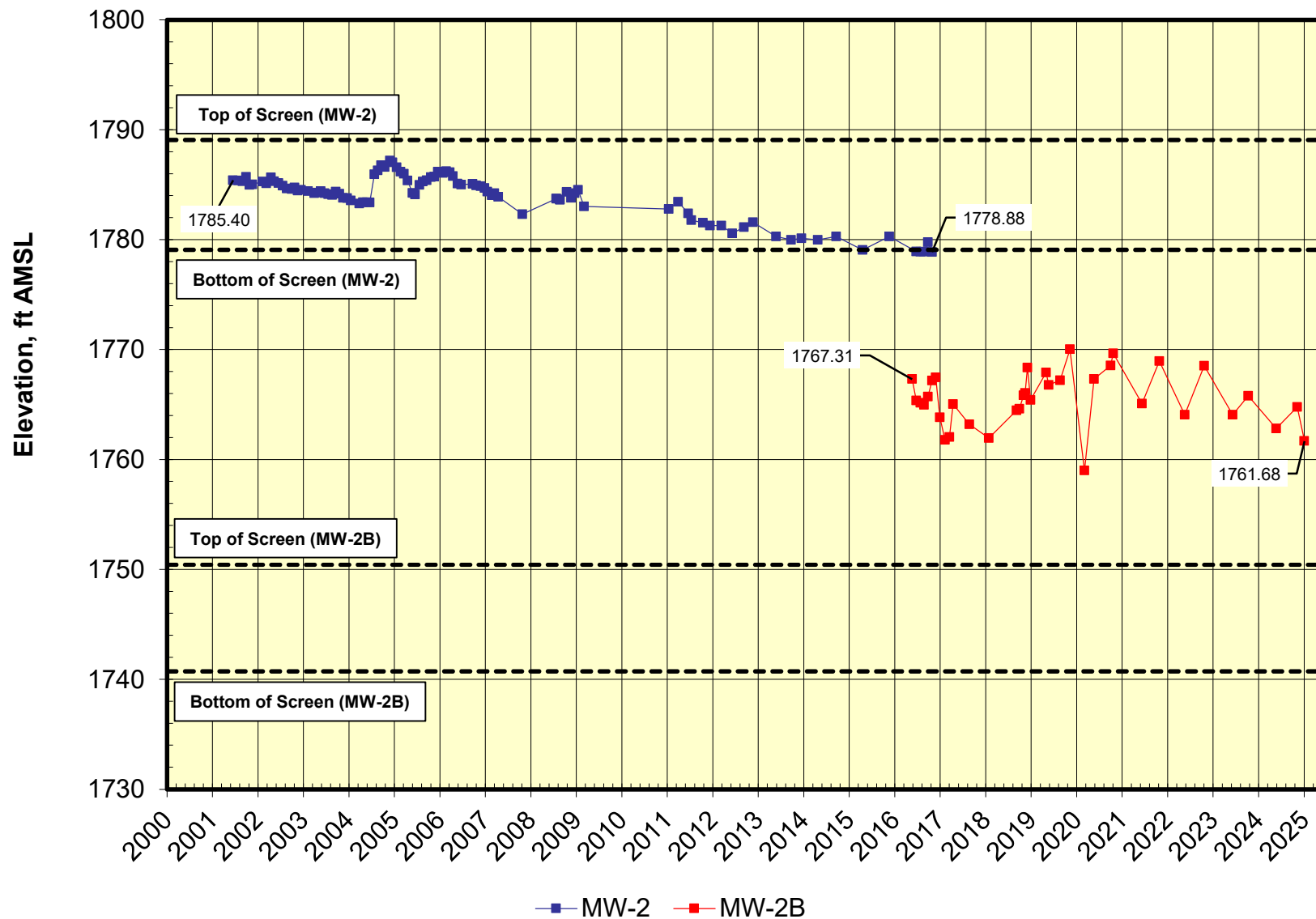


ATTACHMENT A
Historical Groundwater Levels

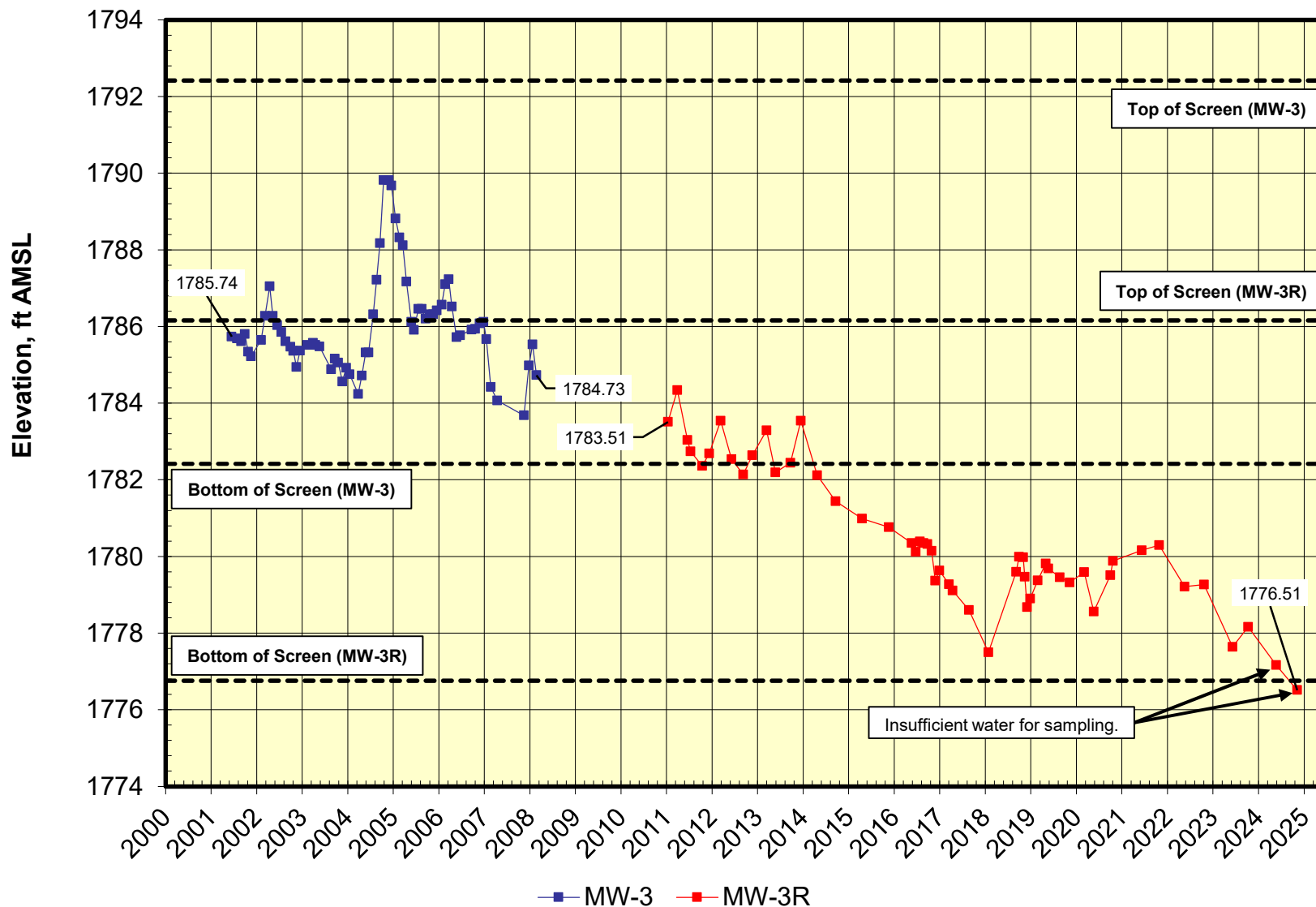
WEC MW-1 Static Water Level



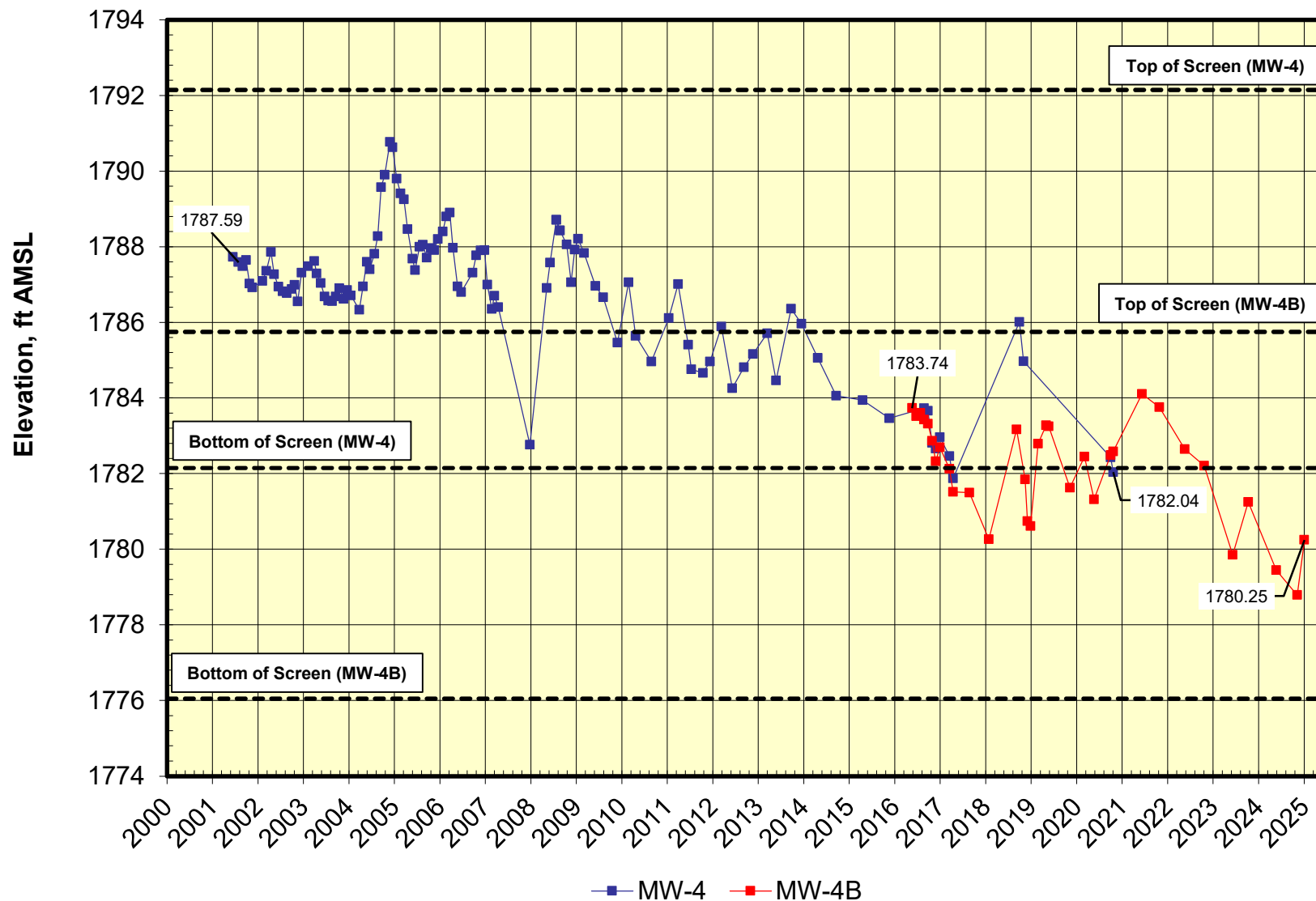
WEC MW-2/MW-2B Static Water Level



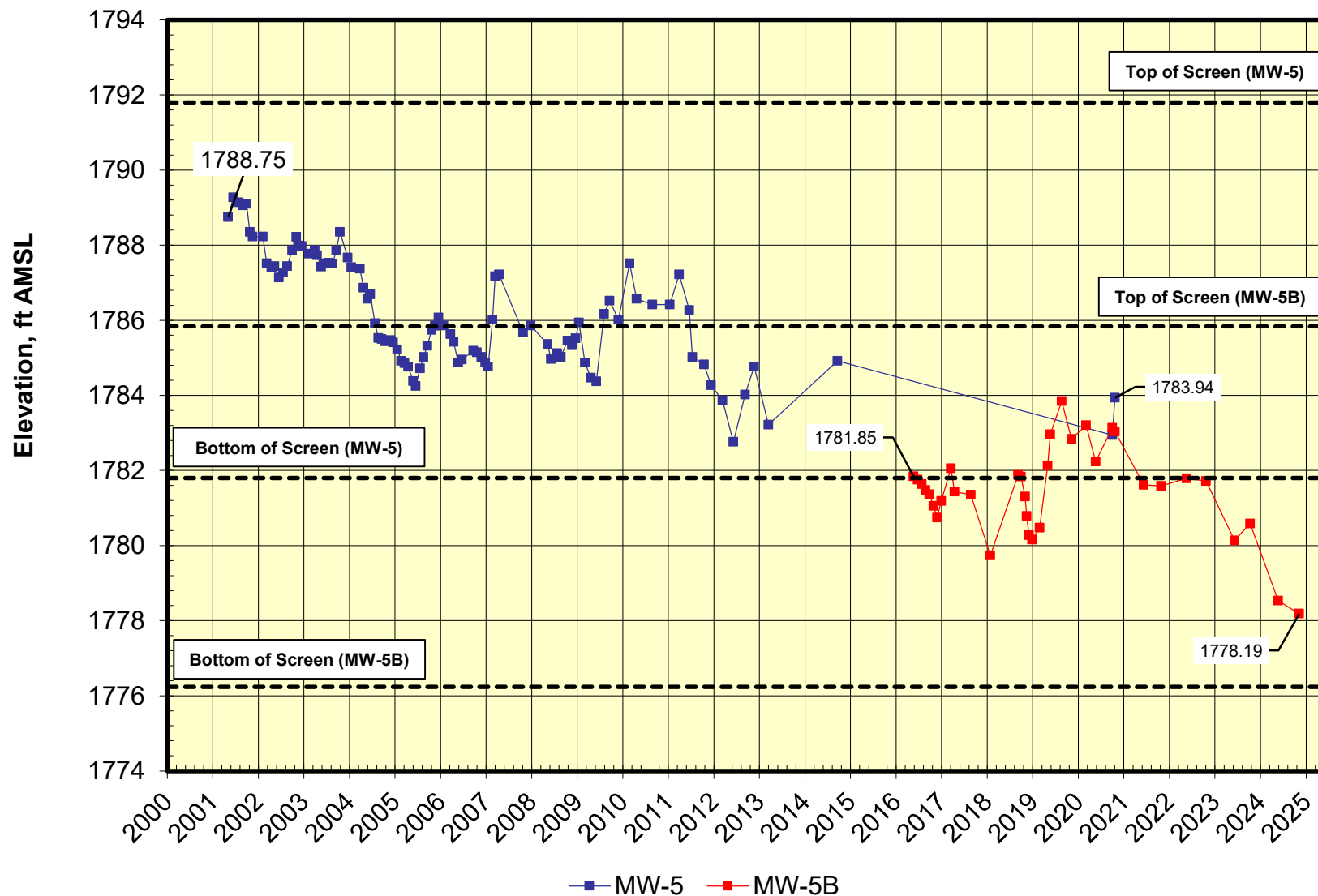
WEC MW-3/MW-3R Static Water Level



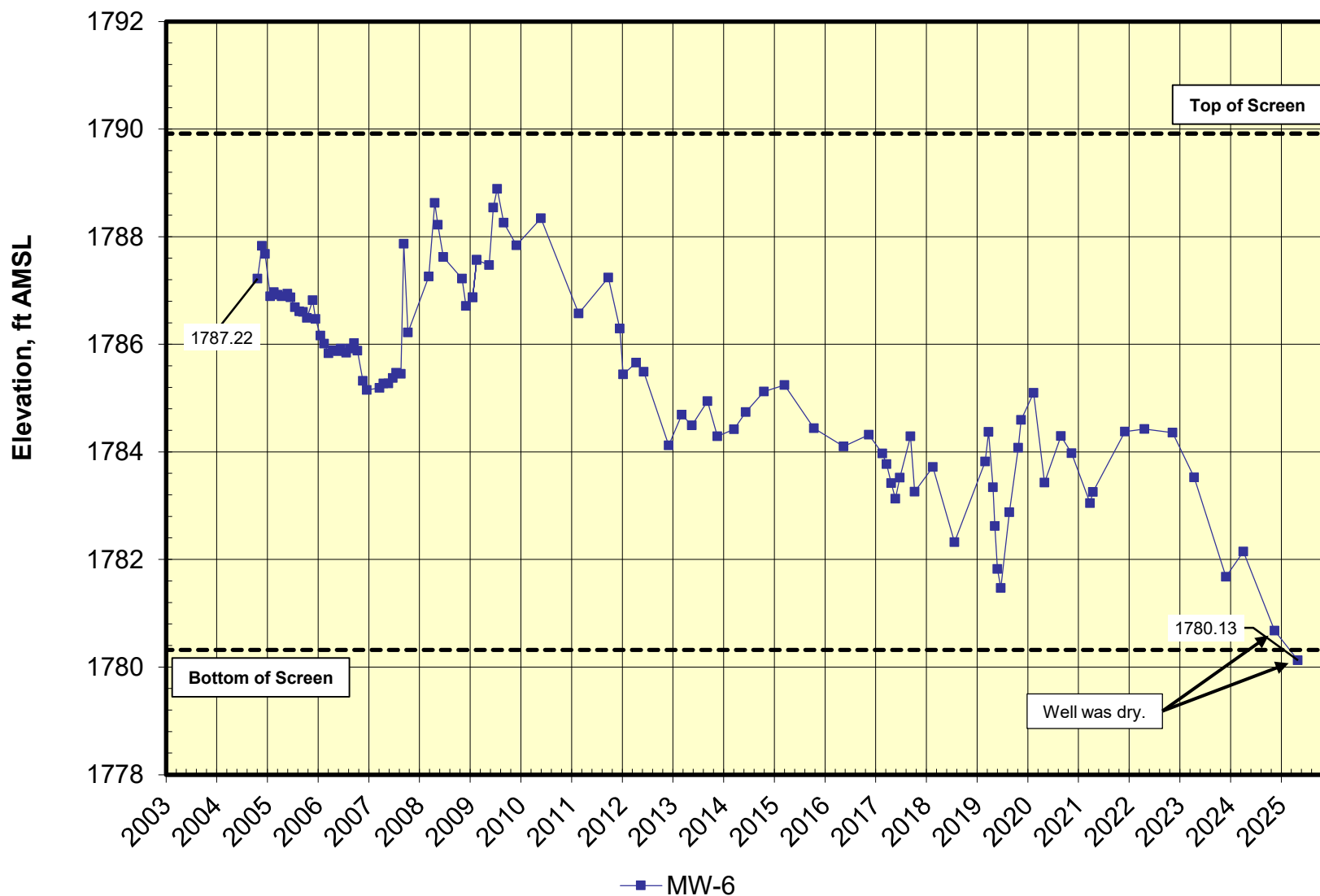
WEC MW-4/MW-4B Static Water Level



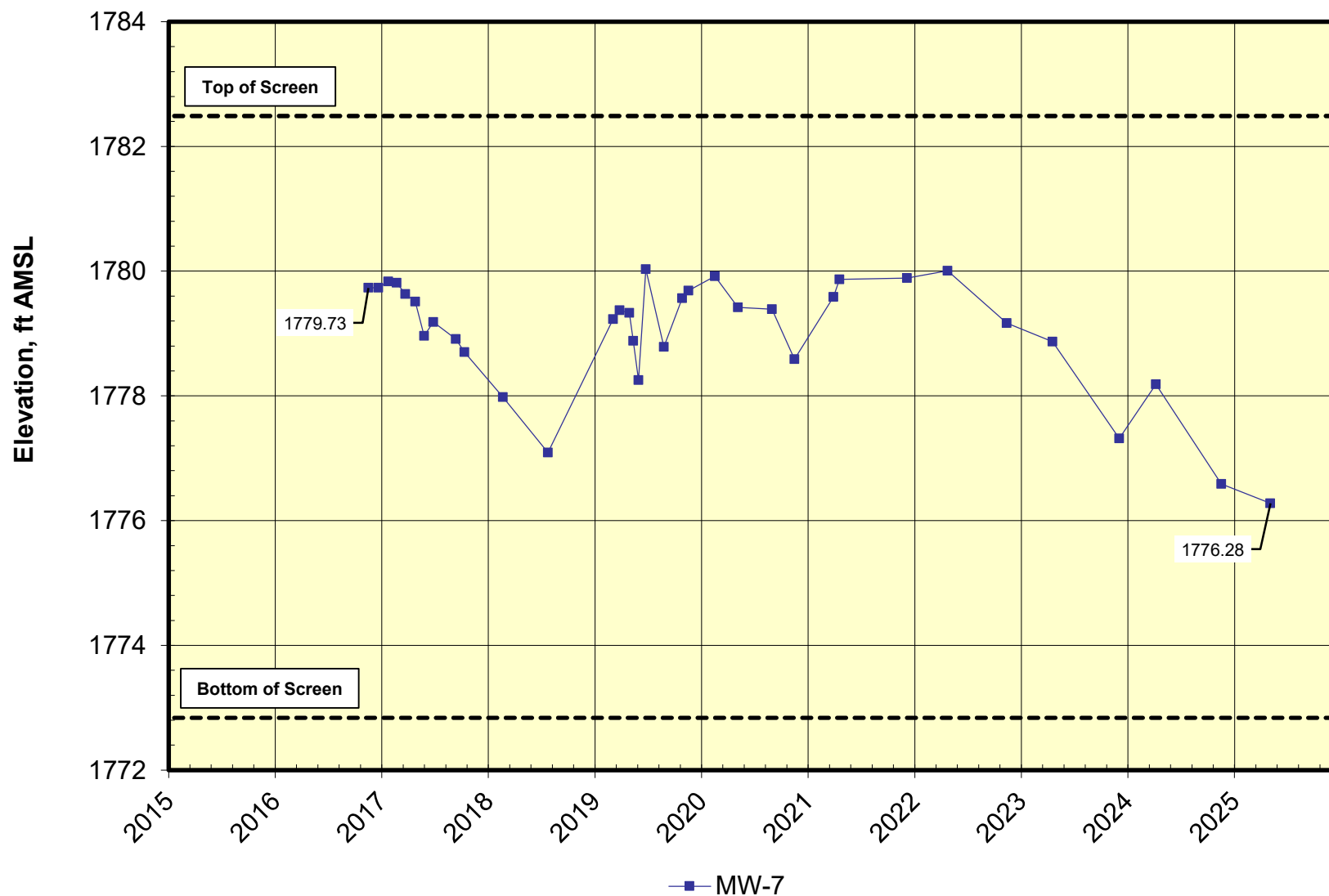
WEC MW-5/MW-5B Static Water Level



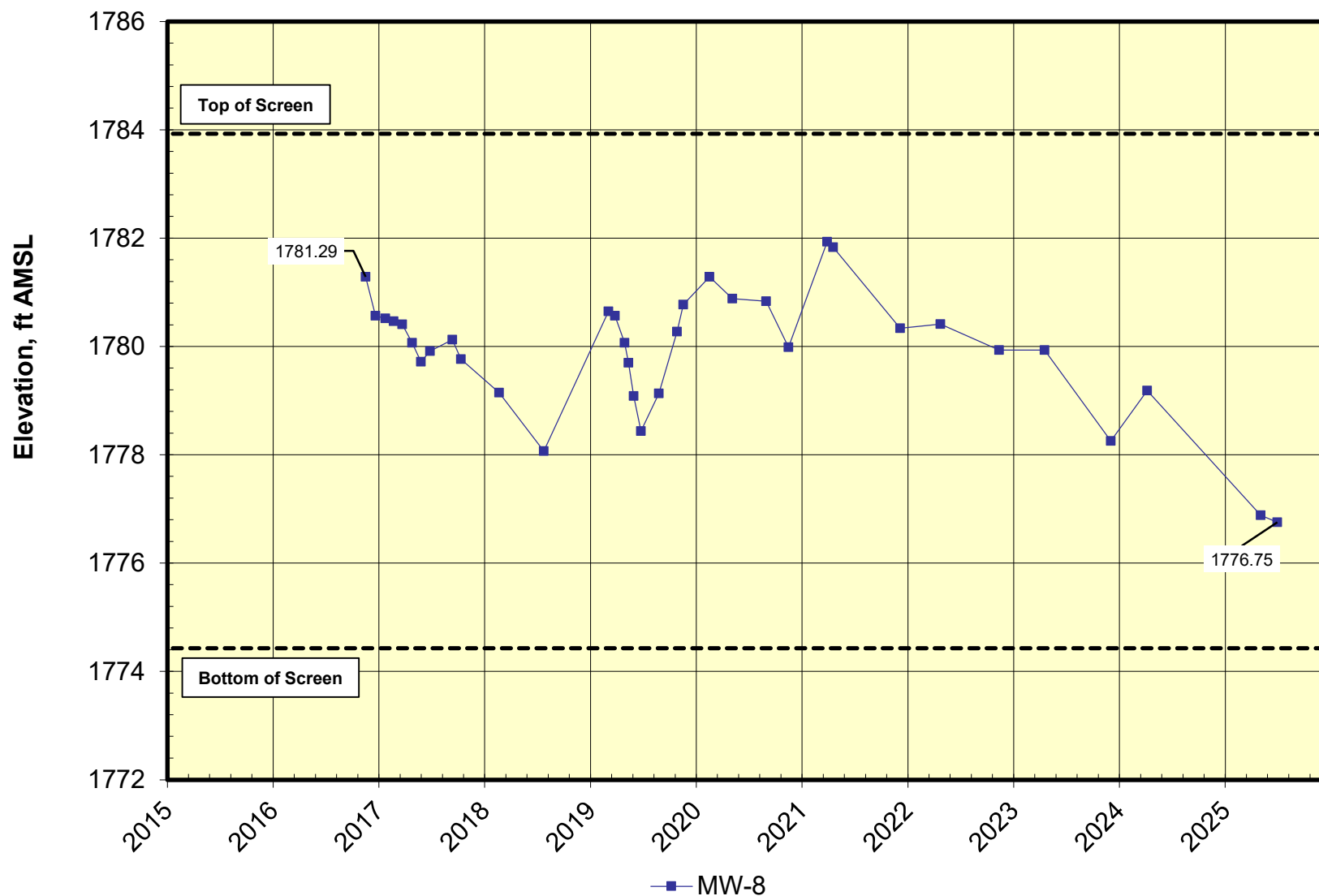
WEC MW-6 Static Water Level



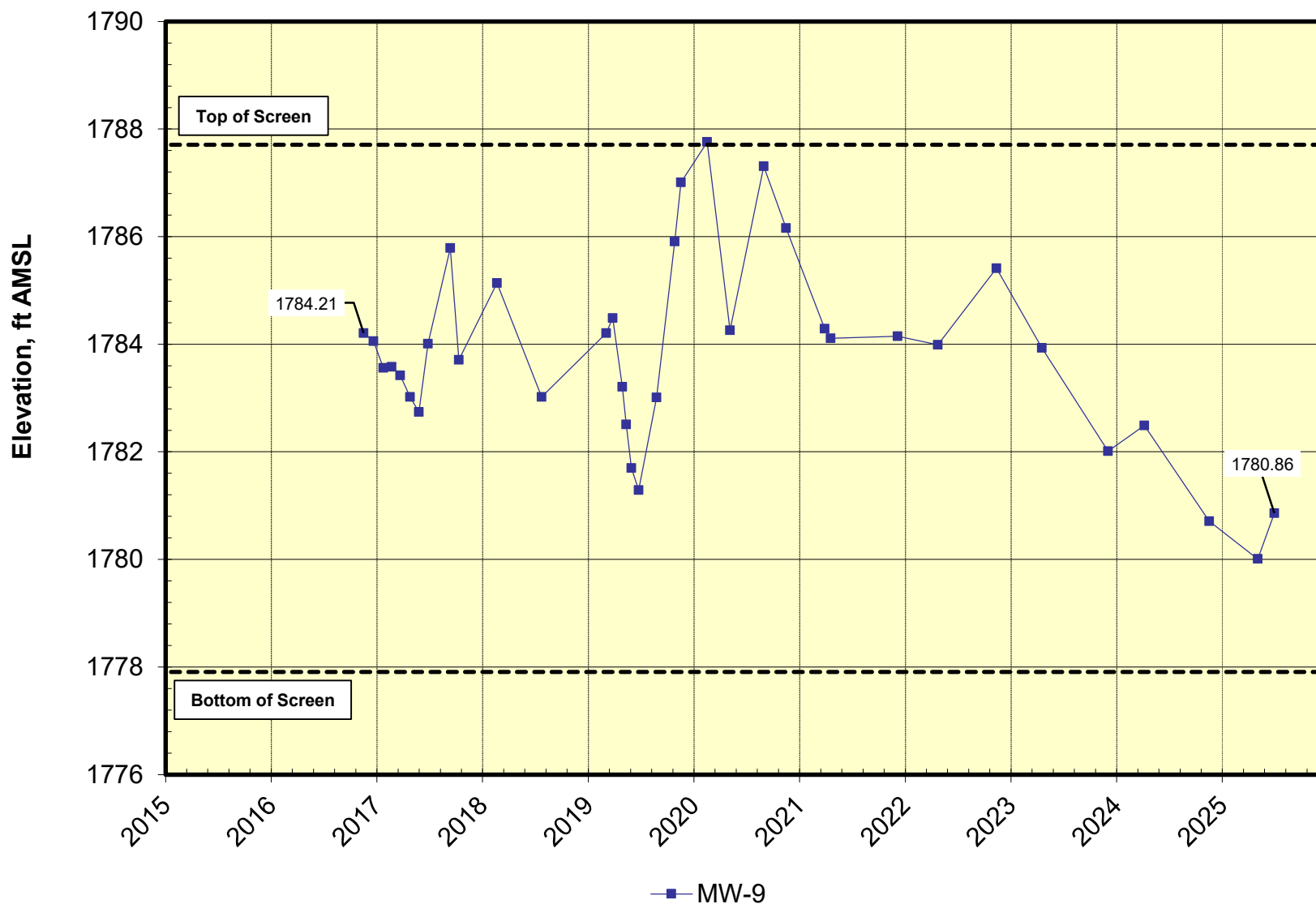
WEC MW-7 Static Water Level



WEC MW-8 Static Water Level



WEC MW-9 Static Water Level



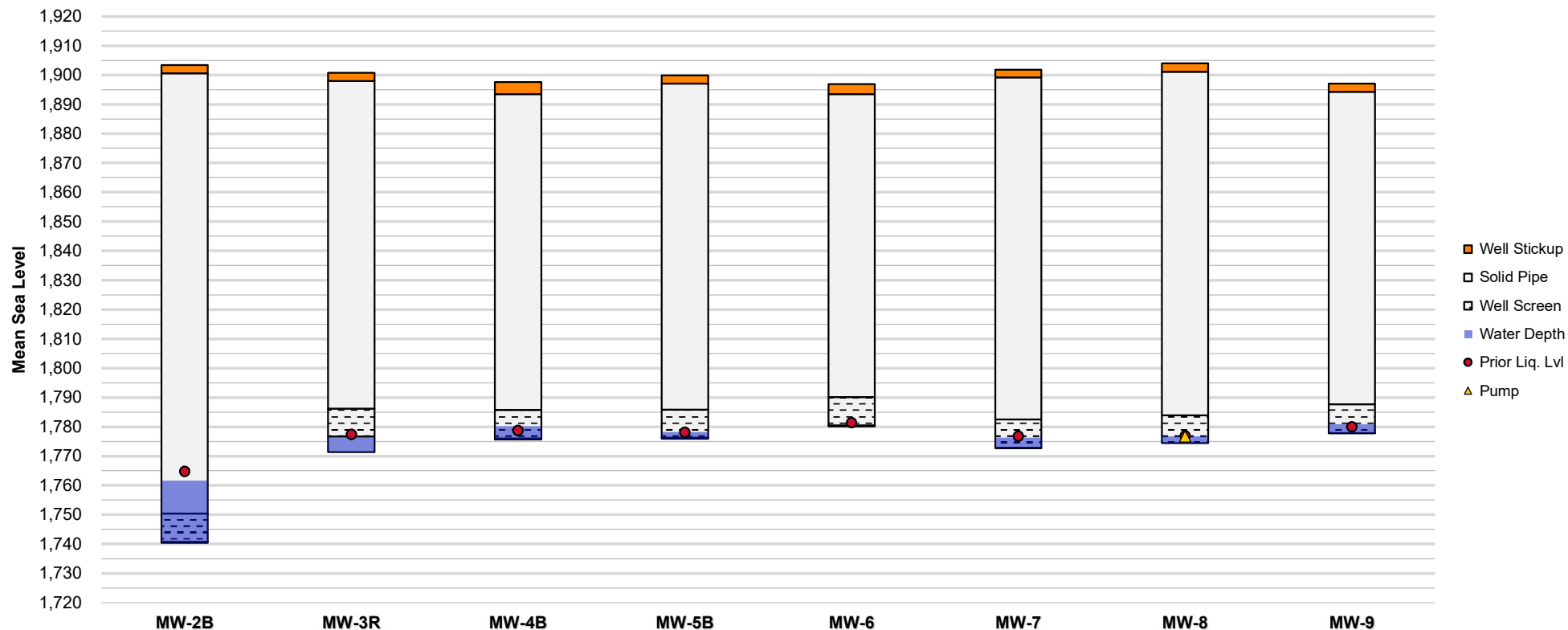


ATTACHMENT B
Video Inspection Results

Public Power Generation Agency
Whelan Energy Center
Groundwater Monitoring Well Video Inspection



Well ID	Prior Water Level Reading Date	Most Recent Water Level Reading Date	Ground Surface Elevation (MSL)	Top of Casing Elevation (MSL)	Bottom of Well or Obstruction (MSL)	Height of Water in Well (FT)		Groundwater Elevation (MSL)		
			Most Recent	Most Recent	Most Recent	Prior	Most Recent	Prior	Most Recent	Change
MW-2B	5/6/2025	7/2/2025	1900.57	1903.43	1740.43	24.35	21.25	1764.78	1761.68	-3.10
MW-3R	1/29/2025	5/6/2025	1897.98	1900.76	1771.36	6.10	5.15	1777.46	1776.51	-0.95
MW-4B	5/6/2025	7/2/2025	1893.53	1897.55	1775.75	3.04	4.50	1778.79	1780.25	1.46
MW-5B	1/29/2025	5/6/2025	1897.11	1899.84	1775.94	2.20	2.25	1778.14	1778.19	0.05
MW-6	1/29/2025	5/6/2025	1893.54	1896.88	1780.13	1.25	0.00	1781.38	1780.13	-1.25
MW-7	1/29/2025	5/6/2025	1899.14	1901.79	1772.69	4.15	3.59	1776.84	1776.28	-0.56
MW-8	5/6/2025	7/2/2025	1901.05	1903.93	1774.43	2.45	2.32	1776.88	1776.75	-0.13
MW-9	5/6/2025	7/2/2025	1894.31	1897.11	1777.71	2.30	3.15	1780.01	1780.86	0.85



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