



# Illinois Environmental Protection Agency

2520 West Iles Avenue • P.O. Box 19276 • Springfield, Illinois • 62794-9276 • 217-782-3397

## COAL COMBUSTION RESIDUALS GROUNDWATER, LEACHATE, AND FACILITY REPORTING FORM

This form must be used as a cover sheet for the notices and reports identified below as required by the facility's Coal Combustion Residuals (CCR) permit for any CCR Surface Impoundments (CCRSIs). All reports must be submitted to the Illinois EPA's Bureau of Land, Permit Section. All reports submitted to the Illinois EPA's Bureau of Land Permit Section must contain an original, plus a minimum of two copies.

**Note: This form is not to be used with permit applications. The facility's approved permit will state whether the document you are submitting is required as a report or an application.**

### 1.0 Facility Identification

Facility Name: Hennepin Power Plant-AP2&4

Facility Address: 13498 East 800th Street, Hennepin, IL

Site ID #: 1550105012 Fed ID #: \_\_\_\_\_

### 2.0 Type of Submission

Check the appropriate heading. Only one heading may be checked for each corresponding submittal. Check the appropriate sub-heading, where applicable. Attach the original and all copies behind this form.

- LPC-160 Forms (electronic reporting for each sampling event)
 

<u>Groundwater</u>	<u>Leachate</u>
_____ Quarterly - Enter 1, 2, 3, or 4	_____ Quarterly - Enter 1, 2, 3, or 4
<input type="checkbox"/> Semi-Annual	<input type="checkbox"/> Semi-Annual
<input type="checkbox"/> Annual	<input type="checkbox"/> Annual
  
- Groundwater Data (without LPC-160 Forms) (35 IAC 845.610(b)(3)(D))
  - 4 Quarterly - Enter 1, 2, 3, or 4
  - Semi-Annual
  - Annual
  
- Well Construction Information
  - Well Construction Forms, Boring Logs and/or Abandonment Forms
  - Well Survey Data (e.g., Stick-up Elevation Data)
  
- Quarterly Fugitive Dust Complaint Report (35 IAC 845.500(b)(2)(B))
  
- Emergency Action Plan (35 IAC 845.520(f))
  
- Annual Consolidated Report (35 IAC 845.550(a))
  
- Notice of Confirmed Increase of Groundwater Exceedance from Re-sample (35 IAC 845.650(d))
  
- Notice of Plume Contamination Off-Site (35 IAC 845.650(d)(2))
  
- Alternate Source Demonstration (35 IAC 845.650(e))

- Assessment of Corrective Measures (35 IAC 845.660(a)(2))
- Corrective Action
  - Semi-Annual Report (35 IAC 845.670(a))
  - Corrective Action Completion Report (35 IAC 845.680(e))
- Closure Extension Progress Report (35 IAC 845.700(e))
- Monthly Closure by Removal Report (during active removal) (35 IAC 845.740(d))
- Annual Inflation Adjustment of Cost Estimates (35 IAC 845.940(a))
- Other (Identify)

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Dynergy Midwest Generation, LLC  
1500 Eastport Plaza Drive  
Collinsville, IL 62234

February 6, 2026

Illinois Environmental Protection Agency  
Bureau of Land – MC#33  
Attn: Part 845 Coal Combustion Residual Rule Submittal  
2520 West Iles Avenue  
P.O. Box 19276  
Springfield, IL 62794

**Re: Hennepin Power Plant Ash Ponds No. 2 and No. 4; IEPA ID # W1550100002-04 and # W1550100002-07**

In accordance with Title 35 of the Illinois Administrative Code (35 I.A.C.) § 845.610(b)(3)(D), Dynergy Midwest Generation, LLC is submitting groundwater monitoring data for the Quarter 4, 2025 sampling event at the Hennepin Power Plant Ash Ponds Number (No.) 2 and No. 4, identified by Illinois Environmental Protection Agency (IEPA) ID No. W1550100002-04 and No. W1550100002-07. This data is being submitted and placed in the facility's operating record as required by 35 I.A.C. § 845.800(d)(15) within 60 days of receiving final laboratory analytical data. Results were evaluated for compliance with the groundwater protection standards (GWPSs) described in 35 I.A.C. § 845.600 to determine exceedances<sup>1</sup> of the GWPS. Pursuant to conversations with IEPA, electronic groundwater data will not be submitted until an operating permit is issued due to assigning unique identifiers to groundwater monitoring wells.

Sincerely,



**Dianna Tickner, PE, PMP**  
**Senior Director, Demolition and Decommission**

Enclosures

*Groundwater Monitoring Data and Detected Exceedances, Quarter 4, 2025, Ash Ponds No. 2 and No. 4, Hennepin Power Plant, Hennepin, Illinois*

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<sup>1</sup> Throughout this document, "exceedance" or "exceedances" is intended to refer only to potential exceedances of proposed applicable background statistics or GWPSs as described in the proposed groundwater monitoring program, which was submitted to the IEPA on October 25, 2021 as part of Dynergy Midwest Generation, LLC's operating permit application for Hennepin Power Plant Ash Ponds No. 2 and No. 4, and subsequently revised on September 4, 2025. That operating permit application, including the proposed groundwater monitoring program, remains under review by the IEPA and therefore Dynergy Midwest Generation, LLC has not identified any actual exceedances.

**35 I.A.C. § 845.610(B)(3)(D)  
GROUNDWATER MONITORING DATA AND DETECTED EXCEEDANCES<sup>1</sup>  
QUARTER 4, 2025  
ASH PONDS NO. 2 AND NO. 4, HENNEPIN POWER PLANT, HENNEPIN, ILLINOIS**

February 6, 2026

Samples were collected and analyzed for the parameters listed in Title 35 of the Illinois Administrative Code (35 I.A.C.) § 845.600(a), calcium, and turbidity. Final laboratory analytical data was received on December 8, 2025.

The monitoring well locations are included in **Figure 1. Attachment A** summarizes the groundwater elevation data for the Quarter 4, 2025 sampling event. **Table 1** is a summary of the field parameters and analytical results. **Attachment B** contains the associated laboratory analytical reports and field data sheets for the Quarter 4, 2025 sampling event.

In accordance with 35 I.A.C. § 845.610(b)(3)(C) and the statistical analysis plan submitted with the operating permit application (Appendix A of the Groundwater Monitoring Plan)<sup>2</sup>, and subsequently revised and submitted to IEPA<sup>3</sup>, constituent concentrations observed at compliance monitoring wells in Quarter 4, 2025 were evaluated for compliance with the groundwater protection standards (GWPSs) described in 35 I.A.C. § 845.600 to determine exceedances of the GWPS (**Table 2**). **Attachment C** shows the results of the comparison to background levels.

The date of this submittal is considered to be the date that the exceedances were detected.

**TABLES**

- Table 1            Field Parameters and Analytical Results - Quarter 4, 2025
- Table 2            Evaluation of Compliance - Quarter 4, 2025

**FIGURES**

- Figure 1           Monitoring Well Location Map

<sup>1</sup> Throughout this document, “exceedance” or “exceedances” is intended to refer only to potential exceedances of proposed applicable background statistics or Groundwater Protection Standards (GWPSs) as described in the proposed groundwater monitoring program, which was submitted to the Illinois Environmental Protection Agency (IEPA) on October 25, 2021 as part of Dynegy Midwest Generation, LLC’s operating permit application for Hennepin Power Plant Ash Ponds No. 2 and No. 4. That operating permit application, including the proposed groundwater monitoring program, remains under review by the IEPA and therefore Dynegy Midwest Generation, LLC has not identified any actual exceedances.

<sup>2</sup> Ramboll Americas Engineering Solutions, Inc. (Ramboll), 2021. *Groundwater Monitoring Plan Addendum for Ash Pond No. 2 and Ash Pond No. 4. Hennepin Power Plant. Hennepin, Illinois. October 25, 2021.*

<sup>3</sup> Ramboll Americas Engineering Solutions, Inc. (Ramboll), 2025. *Addendum to the Groundwater Monitoring Plan Revision 1, Ash Pond No. 2 and Ash Pond No. 4. Hennepin Power Plant. Hennepin, Illinois. September 4, 2025.*



## **ATTACHMENTS**

- Attachment A Groundwater Elevation Data - Quarter 4, 2025
- Attachment B Laboratory Reports and Field Data Sheets - Quarter 4, 2025
- Attachment C Comparison to Background - Quarter 4, 2025

## **TABLES**

**TABLE 1.**  
**FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 4, 2025**

845 QUARTERLY REPORT  
 HENNEPIN POWER PLANT  
 ASH POND NO. 2 AND ASH POND NO. 4  
 HENNEPIN, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
07	Background	E011	11/05/2025	Antimony, total	0.00043 U	mg/L
07	Background	E011	11/05/2025	Arsenic, total	0.00069 U	mg/L
07	Background	E011	11/05/2025	Barium, total	0.100	mg/L
07	Background	E011	11/05/2025	Beryllium, total	0.00059 U	mg/L
07	Background	E011	11/05/2025	Boron, total	0.0690	mg/L
07	Background	E011	11/05/2025	Cadmium, total	0.00074 U	mg/L
07	Background	E011	11/05/2025	Calcium, total	130	mg/L
07	Background	E011	11/05/2025	Chloride, total	100	mg/L
07	Background	E011	11/05/2025	Chromium, total	0.0028 U	mg/L
07	Background	E011	11/05/2025	Cobalt, total	0.00290	mg/L
07	Background	E011	11/05/2025	Dissolved Oxygen	6.00	mg/L
07	Background	E011	11/05/2025	Fluoride, total	0.2 U	mg/L
07	Background	E011	11/05/2025	Lead, total	0.00022 U	mg/L
07	Background	E011	11/05/2025	Lithium, total	0.0076 J	mg/L
07	Background	E011	11/05/2025	Mercury, total	0.00014 U	mg/L
07	Background	E011	11/05/2025	Molybdenum, total	0.00074 U	mg/L
07	Background	E011	11/05/2025	Oxidation Reduction Potential	146	mV
07	Background	E011	11/05/2025	pH (field)	7.2	SU
07	Background	E011	11/05/2025	Radium 226 + Radium 228, total	0.747	pCi/L
07	Background	E011	11/05/2025	Selenium, total	0.00074 U	mg/L
07	Background	E011	11/05/2025	Specific Conductance @ 25C (field)	1,183	micromhos/cm
07	Background	E011	11/05/2025	Sulfate, total	64.0	mg/L
07	Background	E011	11/05/2025	Temperature	12.9	degrees C
07	Background	E011	11/05/2025	Thallium, total	0.00038 U	mg/L
07	Background	E011	11/05/2025	Total Dissolved Solids	540	mg/L
07	Background	E011	11/05/2025	Turbidity, field	0 U	NTU
08	Background	E011	11/03/2025	Antimony, total	0.00043 U	mg/L
08	Background	E011	11/03/2025	Arsenic, total	0.00069 U	mg/L
08	Background	E011	11/03/2025	Barium, total	0.110	mg/L
08	Background	E011	11/03/2025	Beryllium, total	0.00059 U	mg/L
08	Background	E011	11/03/2025	Boron, total	0.110	mg/L
08	Background	E011	11/03/2025	Cadmium, total	0.00074 U	mg/L
08	Background	E011	11/03/2025	Calcium, total	200	mg/L
08	Background	E011	11/03/2025	Chloride, total	370	mg/L
08	Background	E011	11/03/2025	Chromium, total	0.0028 U	mg/L
08	Background	E011	11/03/2025	Cobalt, total	0.00280	mg/L
08	Background	E011	11/03/2025	Dissolved Oxygen	2.70	mg/L
08	Background	E011	11/03/2025	Fluoride, total	0.2 U	mg/L
08	Background	E011	11/03/2025	Lead, total	0.00062 J	mg/L
08	Background	E011	11/03/2025	Lithium, total	0.014 J	mg/L
08	Background	E011	11/03/2025	Mercury, total	0.00014 U	mg/L
08	Background	E011	11/03/2025	Molybdenum, total	0.00097 J	mg/L
08	Background	E011	11/03/2025	Oxidation Reduction Potential	101	mV
08	Background	E011	11/03/2025	pH (field)	6.7	SU
08	Background	E011	11/03/2025	Radium 226 + Radium 228, total	0.871	pCi/L
08	Background	E011	11/03/2025	Selenium, total	0.00074 U	mg/L

**TABLE 1.**  
**FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 4, 2025**

845 QUARTERLY REPORT  
 HENNEPIN POWER PLANT  
 ASH POND NO. 2 AND ASH POND NO. 4  
 HENNEPIN, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
08	Background	E011	11/03/2025	Specific Conductance @ 25C (field)	2,108	micromhos/cm
08	Background	E011	11/03/2025	Sulfate, total	120	mg/L
08	Background	E011	11/03/2025	Temperature	15.1	degrees C
08	Background	E011	11/03/2025	Thallium, total	0.00038 U	mg/L
08	Background	E011	11/03/2025	Total Dissolved Solids	1,000	mg/L
08	Background	E011	11/03/2025	Turbidity, field	5.70	NTU
08D	Background	E011	11/05/2025	Antimony, total	0.00043 U	mg/L
08D	Background	E011	11/05/2025	Arsenic, total	0.00069 U	mg/L
08D	Background	E011	11/05/2025	Barium, total	0.0930	mg/L
08D	Background	E011	11/05/2025	Beryllium, total	0.00059 U	mg/L
08D	Background	E011	11/05/2025	Boron, total	0.0920	mg/L
08D	Background	E011	11/05/2025	Cadmium, total	0.00074 U	mg/L
08D	Background	E011	11/05/2025	Calcium, total	180	mg/L
08D	Background	E011	11/05/2025	Chloride, total	330	mg/L
08D	Background	E011	11/05/2025	Chromium, total	0.0028 U	mg/L
08D	Background	E011	11/05/2025	Cobalt, total	0.00340	mg/L
08D	Background	E011	11/05/2025	Dissolved Oxygen	0.0300	mg/L
08D	Background	E011	11/05/2025	Fluoride, total	0.2 U	mg/L
08D	Background	E011	11/05/2025	Lead, total	0.00022 U	mg/L
08D	Background	E011	11/05/2025	Lithium, total	0.011 J	mg/L
08D	Background	E011	11/05/2025	Mercury, total	0.00014 U	mg/L
08D	Background	E011	11/05/2025	Molybdenum, total	0.00097 J	mg/L
08D	Background	E011	11/05/2025	Oxidation Reduction Potential	119	mV
08D	Background	E011	11/05/2025	pH (field)	6.8	SU
08D	Background	E011	11/05/2025	Radium 226 + Radium 228, total	0.146	pCi/L
08D	Background	E011	11/05/2025	Selenium, total	0.00074 U	mg/L
08D	Background	E011	11/05/2025	Specific Conductance @ 25C (field)	2,120	micromhos/cm
08D	Background	E011	11/05/2025	Sulfate, total	160	mg/L
08D	Background	E011	11/05/2025	Temperature	14.7	degrees C
08D	Background	E011	11/05/2025	Thallium, total	0.00038 U	mg/L
08D	Background	E011	11/05/2025	Total Dissolved Solids	1,000	mg/L
08D	Background	E011	11/05/2025	Turbidity, field	3.50	NTU
03R	Compliance	E011	11/03/2025	Antimony, total	0.00043 U	mg/L
03R	Compliance	E011	11/03/2025	Arsenic, total	0.00069 U	mg/L
03R	Compliance	E011	11/03/2025	Barium, total	0.0520	mg/L
03R	Compliance	E011	11/03/2025	Beryllium, total	0.00059 U	mg/L
03R	Compliance	E011	11/03/2025	Boron, total	0.510	mg/L
03R	Compliance	E011	11/03/2025	Cadmium, total	0.00074 U	mg/L
03R	Compliance	E011	11/03/2025	Calcium, total	84.0	mg/L
03R	Compliance	E011	11/03/2025	Chloride, total	100	mg/L
03R	Compliance	E011	11/03/2025	Chromium, total	0.0028 U	mg/L
03R	Compliance	E011	11/03/2025	Cobalt, total	0.00048 U	mg/L
03R	Compliance	E011	11/03/2025	Dissolved Oxygen	0	mg/L
03R	Compliance	E011	11/03/2025	Fluoride, total	0.270	mg/L
03R	Compliance	E011	11/03/2025	Lead, total	0.00022 U	mg/L
03R	Compliance	E011	11/03/2025	Lithium, total	0.016 J	mg/L

**TABLE 1.**  
**FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 4, 2025**

845 QUARTERLY REPORT  
 HENNEPIN POWER PLANT  
 ASH POND NO. 2 AND ASH POND NO. 4  
 HENNEPIN, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
03R	Compliance	E011	11/03/2025	Mercury, total	0.00016 J	mg/L
03R	Compliance	E011	11/03/2025	Molybdenum, total	0.0570	mg/L
03R	Compliance	E011	11/03/2025	Oxidation Reduction Potential	89.3	mV
03R	Compliance	E011	11/03/2025	pH (field)	7.2	SU
03R	Compliance	E011	11/03/2025	Radium 226 + Radium 228, total	0.473	pCi/L
03R	Compliance	E011	11/03/2025	Selenium, total	0.00400	mg/L
03R	Compliance	E011	11/03/2025	Specific Conductance @ 25C (field)	922	micromhos/cm
03R	Compliance	E011	11/03/2025	Sulfate, total	78.0	mg/L
03R	Compliance	E011	11/03/2025	Temperature	17.4	degrees C
03R	Compliance	E011	11/03/2025	Thallium, total	0.00038 U	mg/L
03R	Compliance	E011	11/03/2025	Total Dissolved Solids	440	mg/L
03R	Compliance	E011	11/03/2025	Turbidity, field	3.50	NTU
18S	Compliance	E011	11/04/2025	Antimony, total	0.00043 U	mg/L
18S	Compliance	E011	11/04/2025	Arsenic, total	0.00069 U	mg/L
18S	Compliance	E011	11/04/2025	Barium, total	0.0500	mg/L
18S	Compliance	E011	11/04/2025	Beryllium, total	0.00059 U	mg/L
18S	Compliance	E011	11/04/2025	Boron, total	2.10	mg/L
18S	Compliance	E011	11/04/2025	Cadmium, total	0.00074 U	mg/L
18S	Compliance	E011	11/04/2025	Calcium, total	87.0	mg/L
18S	Compliance	E011	11/04/2025	Chloride, total	82.0	mg/L
18S	Compliance	E011	11/04/2025	Chromium, total	0.0028 U	mg/L
18S	Compliance	E011	11/04/2025	Cobalt, total	0.00048 U	mg/L
18S	Compliance	E011	11/04/2025	Dissolved Oxygen	0.0200	mg/L
18S	Compliance	E011	11/04/2025	Fluoride, total	0.2 U	mg/L
18S	Compliance	E011	11/04/2025	Lead, total	0.00022 U	mg/L
18S	Compliance	E011	11/04/2025	Lithium, total	0.0410	mg/L
18S	Compliance	E011	11/04/2025	Mercury, total	0.00014 U	mg/L
18S	Compliance	E011	11/04/2025	Molybdenum, total	0.120	mg/L
18S	Compliance	E011	11/04/2025	Oxidation Reduction Potential	136	mV
18S	Compliance	E011	11/04/2025	pH (field)	7.3	SU
18S	Compliance	E011	11/04/2025	Radium 226 + Radium 228, total	0.485	pCi/L
18S	Compliance	E011	11/04/2025	Selenium, total	0.0150	mg/L
18S	Compliance	E011	11/04/2025	Specific Conductance @ 25C (field)	911	micromhos/cm
18S	Compliance	E011	11/04/2025	Sulfate, total	110	mg/L
18S	Compliance	E011	11/04/2025	Temperature	16.9	degrees C
18S	Compliance	E011	11/04/2025	Thallium, total	0.00038 U	mg/L
18S	Compliance	E011	11/04/2025	Total Dissolved Solids	460	mg/L
18S	Compliance	E011	11/04/2025	Turbidity, field	2.20	NTU
18D	Compliance	E011	11/03/2025	Antimony, total	0.00043 U	mg/L
18D	Compliance	E011	11/03/2025	Arsenic, total	0.00069 U	mg/L
18D	Compliance	E011	11/03/2025	Barium, total	0.0580	mg/L
18D	Compliance	E011	11/03/2025	Beryllium, total	0.00059 U	mg/L
18D	Compliance	E011	11/03/2025	Boron, total	1.20	mg/L
18D	Compliance	E011	11/03/2025	Cadmium, total	0.00074 U	mg/L
18D	Compliance	E011	11/03/2025	Calcium, total	91.0	mg/L
18D	Compliance	E011	11/03/2025	Chloride, total	95.0	mg/L

**TABLE 1.**  
**FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 4, 2025**

845 QUARTERLY REPORT  
 HENNEPIN POWER PLANT  
 ASH POND NO. 2 AND ASH POND NO. 4  
 HENNEPIN, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
18D	Compliance	E011	11/03/2025	Chromium, total	0.0028 U	mg/L
18D	Compliance	E011	11/03/2025	Cobalt, total	0.0014 J	mg/L
18D	Compliance	E011	11/03/2025	Dissolved Oxygen	0.0100	mg/L
18D	Compliance	E011	11/03/2025	Fluoride, total	0.2 U	mg/L
18D	Compliance	E011	11/03/2025	Lead, total	0.00022 U	mg/L
18D	Compliance	E011	11/03/2025	Lithium, total	0.0230	mg/L
18D	Compliance	E011	11/03/2025	Mercury, total	0.00014 U	mg/L
18D	Compliance	E011	11/03/2025	Molybdenum, total	0.0300	mg/L
18D	Compliance	E011	11/03/2025	Oxidation Reduction Potential	87.7	mV
18D	Compliance	E011	11/03/2025	pH (field)	7.2	SU
18D	Compliance	E011	11/03/2025	Radium 226 + Radium 228, total	1.13	pCi/L
18D	Compliance	E011	11/03/2025	Selenium, total	0.00074 U	mg/L
18D	Compliance	E011	11/03/2025	Specific Conductance @ 25C (field)	942	micromhos/cm
18D	Compliance	E011	11/03/2025	Sulfate, total	96.0	mg/L
18D	Compliance	E011	11/03/2025	Temperature	17.2	degrees C
18D	Compliance	E011	11/03/2025	Thallium, total	0.00038 U	mg/L
18D	Compliance	E011	11/03/2025	Total Dissolved Solids	490	mg/L
18D	Compliance	E011	11/03/2025	Turbidity, field	4.30	NTU
45S	Compliance	E011	11/04/2025	Antimony, total	0.00043 U	mg/L
45S	Compliance	E011	11/04/2025	Arsenic, total	0.00069 U	mg/L
45S	Compliance	E011	11/04/2025	Barium, total	0.0670	mg/L
45S	Compliance	E011	11/04/2025	Beryllium, total	0.00059 U	mg/L
45S	Compliance	E011	11/04/2025	Boron, total	0.380	mg/L
45S	Compliance	E011	11/04/2025	Cadmium, total	0.00099 J	mg/L
45S	Compliance	E011	11/04/2025	Calcium, total	88.0	mg/L
45S	Compliance	E011	11/04/2025	Chloride, total	94.0	mg/L
45S	Compliance	E011	11/04/2025	Chromium, total	0.0028 U	mg/L
45S	Compliance	E011	11/04/2025	Cobalt, total	0.00072 J	mg/L
45S	Compliance	E011	11/04/2025	Dissolved Oxygen	0.0100	mg/L
45S	Compliance	E011	11/04/2025	Fluoride, total	0.24 J	mg/L
45S	Compliance	E011	11/04/2025	Lead, total	0.00022 U	mg/L
45S	Compliance	E011	11/04/2025	Lithium, total	0.011 J	mg/L
45S	Compliance	E011	11/04/2025	Mercury, total	0.00014 U	mg/L
45S	Compliance	E011	11/04/2025	Molybdenum, total	0.0380	mg/L
45S	Compliance	E011	11/04/2025	Oxidation Reduction Potential	99.1	mV
45S	Compliance	E011	11/04/2025	pH (field)	7.2	SU
45S	Compliance	E011	11/04/2025	Radium 226 + Radium 228, total	1.02	pCi/L
45S	Compliance	E011	11/04/2025	Selenium, total	0.00074 U	mg/L
45S	Compliance	E011	11/04/2025	Specific Conductance @ 25C (field)	1,001	micromhos/cm
45S	Compliance	E011	11/04/2025	Sulfate, total	65.0	mg/L
45S	Compliance	E011	11/04/2025	Temperature	18.6	degrees C
45S	Compliance	E011	11/04/2025	Thallium, total	0.00038 U	mg/L
45S	Compliance	E011	11/04/2025	Total Dissolved Solids	460	mg/L
45S	Compliance	E011	11/04/2025	Turbidity, field	2.90	NTU

**TABLE 1.**  
**FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 4, 2025**

845 QUARTERLY REPORT  
HENNEPIN POWER PLANT  
ASH POND NO. 2 AND ASH POND NO. 4  
HENNEPIN, IL

**Notes:**

C = Celsius

cm = centimeter

Events:

E011 = Quarter 4, 2025 sampling event

mg/L = milligrams per liter

mV = millivolts

NTU = Nephelometric Turbidity Units

pCi/L = picocuries per liter

Result Code (if applicable):

NR<sup>1</sup> = Parameter not analyzed.

NR<sup>2</sup> = Data has been rejected following data quality review.

NS<sup>1</sup> = Well has been, or will be, abandoned; therefore, a sample was not collected.

NS<sup>2</sup> = Well either needs or was undergoing maintenance; therefore, a sample was not collected.

NS<sup>3</sup> = The location was not accessible; therefore, a sample was not collected.

NS<sup>4</sup> = The location could not be found; therefore, a sample was not collected.

NS<sup>5</sup> = The location was damaged; therefore, a sample was not collected.

NS<sup>6</sup> = Sampling pump could not yield a sample.

NS<sup>7</sup> = Well was either dry or purged dry and did not recover sufficiently to yield adequate volume for a sample.

NS<sup>8</sup> = A sample was not collected.

PM<sup>1</sup> = Parameter not analyzed as the well purged dry during sample collection and did not sufficiently recover to yield adequate sample volume for analysis.

Result qualifiers as defined in the United States Environmental Protection Agency's *National Functional Guidelines for Inorganic Superfund Methods Data Review*, EPA 542-R-20-006. November 2020.:

J = The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

J+ = The result is an estimated quantity, but the result may be biased high.

U = The analyte was analyzed for, but was not detected above the level of the adjusted detection limit or quantitation limit, as appropriate.

SU = Standard Units

**TABLE 2.**  
**EVALUATION OF COMPLIANCE - QUARTER 4, 2025**

845 QUARTERLY REPORT  
HENNEPIN POWER PLANT  
ASH POND NO. 2 AND ASH POND NO. 4  
HENNEPIN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
03R	UA	E011	Antimony, total	mg/L	12/09/15 - 11/03/25	32	100	All ND - Last	0.003	0.006	Standard	No Exceedance
03R	UA	E011	Arsenic, total	mg/L	12/09/15 - 11/03/25	33	100	All ND - Last	0.001	0.010	Standard	No Exceedance
03R	UA	E011	Barium, total	mg/L	12/09/15 - 11/03/25	35	0	CI around geomean	0.061	2.0	Standard	No Exceedance
03R	UA	E011	Beryllium, total	mg/L	12/09/15 - 11/03/25	32	100	All ND - Last	0.001	0.004	Standard	No Exceedance
03R	UA	E011	Boron, total	mg/L	12/09/15 - 11/03/25	39	0	CB around T-S line	0.303	2	Standard	No Exceedance
03R	UA	E011	Cadmium, total	mg/L	12/09/15 - 11/03/25	34	94	CB around T-S line	0.00057	0.005	Standard	No Exceedance
03R	UA	E011	Chloride, total	mg/L	12/09/15 - 11/03/25	39	0	CB around T-S line	76.3	435	Background	No Exceedance
03R	UA	E011	Chromium, total	mg/L	12/09/15 - 11/03/25	33	94	CB around T-S line	0.00184	0.1	Standard	No Exceedance
03R	UA	E011	Cobalt, total	mg/L	12/09/15 - 11/03/25	34	97	CI around median	0.001	0.0380	Background	No Exceedance
03R	UA	E011	Fluoride, total	mg/L	12/09/15 - 11/03/25	36	3	CI around median	0.27	4.0	Standard	No Exceedance
03R	UA	E011	Lead, total	mg/L	12/09/15 - 11/03/25	33	100	All ND - Last	0.001	0.0075	Standard	No Exceedance
03R	UA	E011	Lithium, total	mg/L	12/09/15 - 11/03/25	38	3	CB around linear reg	0.0151	0.04	Standard	No Exceedance
03R	UA	E011	Mercury, total	mg/L	12/09/15 - 11/03/25	32	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
03R	UA	E011	Molybdenum, total	mg/L	12/09/15 - 11/03/25	38	0	CB around linear reg	0.0502	0.1	Standard	No Exceedance
03R	UA	E011	pH (field)	SU	12/09/15 - 11/03/25	42	0	CI around mean	7.2/7.3	6.5/9.0	Standard/Standard	No Exceedance
03R	UA	E011	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 11/03/25	33	0	CI around median	0.319	5	Standard	No Exceedance
03R	UA	E011	Selenium, total	mg/L	12/09/15 - 11/03/25	35	6	CI around mean	0.00476	0.05	Standard	No Exceedance
03R	UA	E011	Sulfate, total	mg/L	12/09/15 - 11/03/25	38	0	CB around linear reg	69.3	400	Standard	No Exceedance
03R	UA	E011	Thallium, total	mg/L	12/09/15 - 11/03/25	32	100	All ND - Last	0.001	0.002	Standard	No Exceedance
03R	UA	E011	Total Dissolved Solids	mg/L	12/09/15 - 11/03/25	39	0	CI around mean	509	1,620	Background	No Exceedance
18S	UA	E011	Antimony, total	mg/L	12/09/15 - 11/04/25	32	100	All ND - Last	0.003	0.006	Standard	No Exceedance
18S	UA	E011	Arsenic, total	mg/L	12/09/15 - 11/04/25	33	97	CI around median	0.001	0.010	Standard	No Exceedance
18S	UA	E011	Barium, total	mg/L	12/09/15 - 11/04/25	35	0	CB around linear reg	0.0486	2.0	Standard	No Exceedance
18S	UA	E011	Beryllium, total	mg/L	12/09/15 - 11/04/25	32	100	All ND - Last	0.001	0.004	Standard	No Exceedance
18S	UA	E011	Boron, total	mg/L	12/09/15 - 11/04/25	39	0	CB around T-S line	1.05	2	Standard	No Exceedance
18S	UA	E011	Cadmium, total	mg/L	12/09/15 - 11/04/25	34	91	CB around T-S line	0.000538	0.005	Standard	No Exceedance
18S	UA	E011	Chloride, total	mg/L	12/09/15 - 11/04/25	39	0	CB around linear reg	69.6	435	Background	No Exceedance

**TABLE 2.**  
**EVALUATION OF COMPLIANCE - QUARTER 4, 2025**

845 QUARTERLY REPORT  
HENNEPIN POWER PLANT  
ASH POND NO. 2 AND ASH POND NO. 4  
HENNEPIN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
18S	UA	E011	Chromium, total	mg/L	12/09/15 - 11/04/25	34	62	CB around T-S line	0.00159	0.1	Standard	No Exceedance
18S	UA	E011	Cobalt, total	mg/L	12/09/15 - 11/04/25	34	94	CI around median	0.001	0.0380	Background	No Exceedance
18S	UA	E011	Fluoride, total	mg/L	12/09/15 - 11/04/25	36	6	CB around T-S line	0.168	4.0	Standard	No Exceedance
18S	UA	E011	Lead, total	mg/L	12/09/15 - 11/04/25	33	100	All ND - Last	0.001	0.0075	Standard	No Exceedance
18S	UA	E011	Lithium, total	mg/L	12/09/15 - 11/04/25	38	0	CB around T-S line	0.0299	0.04	Standard	No Exceedance
18S	UA	E011	Mercury, total	mg/L	12/09/15 - 11/04/25	32	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
18S	UA	E011	Molybdenum, total	mg/L	12/09/15 - 11/04/25	38	0	CB around linear reg	0.0676	0.1	Standard	No Exceedance
18S	UA	E011	pH (field)	SU	12/09/15 - 11/04/25	42	0	CI around median	7.3/7.4	6.5/9.0	Standard/Standard	No Exceedance
18S	UA	E011	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 11/04/25	33	0	CI around mean	0.352	5	Standard	No Exceedance
18S	UA	E011	Selenium, total	mg/L	12/09/15 - 11/04/25	35	0	CB around T-S line	0.00211	0.05	Standard	No Exceedance
18S	UA	E011	Sulfate, total	mg/L	12/09/15 - 11/04/25	39	0	CB around T-S line	82.8	400	Standard	No Exceedance
18S	UA	E011	Thallium, total	mg/L	12/09/15 - 11/04/25	32	100	All ND - Last	0.001	0.002	Standard	No Exceedance
18S	UA	E011	Total Dissolved Solids	mg/L	12/09/15 - 11/04/25	39	0	CB around T-S line	469	1,620	Background	No Exceedance
18D	UA	E011	Antimony, total	mg/L	12/09/15 - 11/03/25	32	100	All ND - Last	0.003	0.006	Standard	No Exceedance
18D	UA	E011	Arsenic, total	mg/L	12/09/15 - 11/03/25	33	100	All ND - Last	0.001	0.010	Standard	No Exceedance
18D	UA	E011	Barium, total	mg/L	12/09/15 - 11/03/25	35	0	CB around T-S line	0.059	2.0	Standard	No Exceedance
18D	UA	E011	Beryllium, total	mg/L	12/09/15 - 11/03/25	32	100	All ND - Last	0.001	0.004	Standard	No Exceedance
18D	UA	E011	Boron, total	mg/L	12/09/15 - 11/03/25	39	0	CB around linear reg	1.04	2	Standard	No Exceedance
18D	UA	E011	Cadmium, total	mg/L	12/09/15 - 11/03/25	34	94	CB around T-S line	0.000724	0.005	Standard	No Exceedance
18D	UA	E011	Chloride, total	mg/L	12/09/15 - 11/03/25	39	0	CI around mean	76	435	Background	No Exceedance
18D	UA	E011	Chromium, total	mg/L	12/09/15 - 11/03/25	33	94	CB around T-S line	0.00184	0.1	Standard	No Exceedance
18D	UA	E011	Cobalt, total	mg/L	12/09/15 - 11/03/25	35	3	CB around linear reg	-0.000747	0.0380	Background	No Exceedance
18D	UA	E011	Fluoride, total	mg/L	12/09/15 - 11/03/25	36	6	CI around median	0.15	4.0	Standard	No Exceedance
18D	UA	E011	Lead, total	mg/L	12/09/15 - 11/03/25	33	94	CB around T-S line	0.000773	0.0075	Standard	No Exceedance
18D	UA	E011	Lithium, total	mg/L	12/09/15 - 11/03/25	38	0	CB around linear reg	0.0219	0.04	Standard	No Exceedance
18D	UA	E011	Mercury, total	mg/L	12/09/15 - 11/03/25	32	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
18D	UA	E011	Molybdenum, total	mg/L	12/09/15 - 11/03/25	38	0	CI around median	0.0314	0.1	Standard	No Exceedance

**TABLE 2.**  
**EVALUATION OF COMPLIANCE - QUARTER 4, 2025**

845 QUARTERLY REPORT  
HENNEPIN POWER PLANT  
ASH POND NO. 2 AND ASH POND NO. 4  
HENNEPIN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
18D	UA	E011	pH (field)	SU	12/09/15 - 11/03/25	42	0	CI around median	7.2/7.2	6.5/9.0	Standard/Standard	No Exceedance
18D	UA	E011	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 11/03/25	33	0	CI around mean	0.573	5	Standard	No Exceedance
18D	UA	E011	Selenium, total	mg/L	12/09/15 - 11/03/25	34	94	CB around T-S line	0.001	0.05	Standard	No Exceedance
18D	UA	E011	Sulfate, total	mg/L	12/09/15 - 11/03/25	39	0	CB around linear reg	85.8	400	Standard	No Exceedance
18D	UA	E011	Thallium, total	mg/L	12/09/15 - 11/03/25	32	100	All ND - Last	0.001	0.002	Standard	No Exceedance
18D	UA	E011	Total Dissolved Solids	mg/L	12/09/15 - 11/03/25	39	0	CB around T-S line	464	1,620	Background	No Exceedance
45S	UA	E011	Antimony, total	mg/L	12/09/15 - 11/04/25	32	100	All ND - Last	0.003	0.006	Standard	No Exceedance
45S	UA	E011	Arsenic, total	mg/L	12/09/15 - 11/04/25	33	94	CI around median	0.001	0.010	Standard	No Exceedance
45S	UA	E011	Barium, total	mg/L	12/09/15 - 11/04/25	35	0	CB around linear reg	0.0786	2.0	Standard	No Exceedance
45S	UA	E011	Beryllium, total	mg/L	12/09/15 - 11/04/25	32	100	All ND - Last	0.001	0.004	Standard	No Exceedance
45S	UA	E011	Boron, total	mg/L	12/09/15 - 11/04/25	36	0	CB around linear reg	0.229	2	Standard	No Exceedance
45S	UA	E011	Cadmium, total	mg/L	12/09/15 - 11/04/25	34	38	CB around linear reg	0.000634	0.005	Standard	No Exceedance
45S	UA	E011	Chloride, total	mg/L	12/09/15 - 11/04/25	36	0	CB around linear reg	85.3	435	Background	No Exceedance
45S	UA	E011	Chromium, total	mg/L	12/09/15 - 11/04/25	34	94	CB around T-S line	0.00175	0.1	Standard	No Exceedance
45S	UA	E011	Cobalt, total	mg/L	12/09/15 - 11/04/25	35	14	CI around geomean	0.00146	0.0380	Background	No Exceedance
45S	UA	E011	Fluoride, total	mg/L	12/09/15 - 11/04/25	36	6	CB around T-S line	0.222	4.0	Standard	No Exceedance
45S	UA	E011	Lead, total	mg/L	12/09/15 - 11/04/25	33	79	CI around median	0.001	0.0075	Standard	No Exceedance
45S	UA	E011	Lithium, total	mg/L	12/09/15 - 11/04/25	35	3	CB around linear reg	0.0108	0.04	Standard	No Exceedance
45S	UA	E011	Mercury, total	mg/L	12/09/15 - 11/04/25	32	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
45S	UA	E011	Molybdenum, total	mg/L	12/09/15 - 11/04/25	35	0	CB around linear reg	0.0351	0.1	Standard	No Exceedance
45S	UA	E011	pH (field)	SU	12/09/15 - 11/04/25	36	0	CI around mean	7.1/7.2	6.5/9.0	Standard/Standard	No Exceedance
45S	UA	E011	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 11/04/25	33	0	CI around geomean	0.452	5	Standard	No Exceedance
45S	UA	E011	Selenium, total	mg/L	12/09/15 - 11/04/25	34	100	All ND - Last	0.001	0.05	Standard	No Exceedance
45S	UA	E011	Sulfate, total	mg/L	12/09/15 - 11/04/25	36	0	CI around median	70	400	Standard	No Exceedance
45S	UA	E011	Thallium, total	mg/L	12/09/15 - 11/04/25	32	100	All ND - Last	0.001	0.002	Standard	No Exceedance
45S	UA	E011	Total Dissolved Solids	mg/L	12/09/15 - 11/04/25	36	0	CI around mean	528	1,620	Background	No Exceedance

**TABLE 2.**  
**EVALUATION OF COMPLIANCE - QUARTER 4, 2025**

845 QUARTERLY REPORT  
HENNEPIN POWER PLANT  
ASH POND NO. 2 AND ASH POND NO. 4  
HENNEPIN, IL

**Notes:**

Compliance Result:

No Exceedance: the statistical result did not exceed the GWPS.

Throughout this document, "exceedance" or "exceedances" is intended to refer only to potential exceedances of proposed applicable background statistics or Groundwater Protection Standards (GWPSs) as described in the proposed groundwater monitoring program which was submitted to the Illinois Environmental Protection Agency (IEPA) as part of Dynegy Midwest Generation, LLC's (DMG's) operating permit application for the Ash Pond No. 2 and Ash Pond No. 4. That operating permit application, including the proposed groundwater monitoring program, remains under review by the IEPA and, therefore, DMG has not identified any actual exceedances.

Events:

E011 = Quarter 4, 2025 sampling event

HSU = hydrostratigraphic unit:

UA = Uppermost Aquifer

mg/L = milligrams per liter

ND = non-detect

pCi/L = picocuries per liter

SU = standard units

Sample Count = number of samples from Sampled Date Range used to calculate the Statistical Result

Statistical Calculation = method used to calculate the statistical result:

All ND - Last = All results were below the reporting limit, and the last determined reporting limit is shown.

CB around linear reg = Confidence band around linear regression

CB around T-S line = Confidence band around Thiel-Sen line

CI around geomean = Confidence interval around the geometric mean

CI around mean = Confidence interval around the mean

CI around median = Confidence interval around the median

Statistical Result = calculated in accordance with the Statistical Analysis Plan using constituent concentrations observed at each monitoring well during all sampling events within the specified date range

Statistical Result Code (if applicable):

NR<sup>1</sup> = Parameter not analyzed.

NR<sup>2</sup> = Data has been rejected following data quality review.

NS<sup>1</sup> = Well has been, or will be, abandoned; therefore, a sample was not collected.

NS<sup>2</sup> = Well either needs or was undergoing maintenance; therefore, a sample was not collected.

NS<sup>3</sup> = The location was not accessible; therefore, a sample was not collected.

NS<sup>4</sup> = The location could not be found; therefore, a sample was not collected.

NS<sup>5</sup> = The location was damaged; therefore, a sample was not collected.

NS<sup>6</sup> = Sampling pump could not yield a sample.

NS<sup>7</sup> = Well was either dry or purged dry and did not recover sufficiently to yield adequate volume for a sample.

NS<sup>8</sup> = A sample was not collected.

PM<sup>1</sup> = Parameter not analyzed as the well purged dry during sample collection and did not sufficiently recover to yield adequate sample volume for analysis.

For pH, the values presented are the lower / upper limits

GWPS Source:

Background = background concentration

Standard = standard specified in 35 I.A.C. § 845.600(a)(1)

## FIGURES



- BACKGROUND WELL
- COMPLIANCE WELL
- REGULATED UNIT (SUBJECT UNIT)
- SITE FEATURE
- LIMITS OF FINAL COVER
- PROPERTY BOUNDARY



**MONITORING WELL LOCATION MAP**

35 I.A.C. § 845.610(b)(3)(D)  
 GROUNDWATER MONITORING DATA AND  
 DETECTED EXCEEDANCES REPORT  
 QUARTER 4, 2025

ASH POND NO. 2 AND ASH POND NO. 4  
 HENNEPIN POWER PLANT  
 HENNEPIN, ILLINOIS

**FIGURE 1**



## **ATTACHMENTS**

**ATTACHMENT A  
GROUNDWATER ELEVATION DATA  
QUARTER 4, 2025**

**ATTACHMENT A.  
GROUNDWATER ELEVATION DATA - QUARTER 4, 2025**

845 QUARTERLY REPORT  
HENNEPIN POWER PLANT  
ASH POND NO. 2 AND ASH POND NO. 4  
HENNEPIN, IL

Well ID	Well Type	Date	Depth to Groundwater (feet BMP)	Groundwater Elevation (feet NAVD88)
03R	Compliance	10/27/2025	35.58	446.91
07	Background	10/27/2025	68.84	449.95
08	Background	10/27/2025	54.13	447.38
08D	Background	10/27/2025	54.61	447.16
18S	Compliance	10/27/2025	41.19	446.79
18D	Compliance	10/27/2025	41.42	446.62
45S	Compliance	10/27/2025	20.86	446.83

**Notes:**

BMP = below measuring point

Depth to Groundwater/Groundwater Elevation Code (if applicable):

DM<sup>1</sup> = Depth to water was not measured.

DM<sup>2</sup> = Depth to water was not measured because water was above or below the staff gage markings.

DM<sup>3</sup> = Depth to water was not measured because the location was inaccessible.

DM<sup>4</sup> = Depth to water was not measured because water level was below the top of the pump.

DM<sup>5</sup> = Depth to water was not measured because water level was above the top of casing (artesian well).

DM<sup>6</sup> = Depth to water was not measured because of damage to the well.

DM<sup>7</sup> = Depth to water was not measured due to required pressure transducer maintenance.

DM<sup>8</sup> = Lab provided groundwater elevation data and not depth to water.

NAVD88 = North American Vertical Datum of 1988

**ATTACHMENT B  
LABORATORY REPORTS AND FIELD DATA SHEETS  
QUARTER 4, 2025**



**Pace Analytical Services, LLC**  
2231 W. Altorfer Drive  
Peoria, IL 61615  
(800)752-6651

December 08, 2025

Brian Voelker  
Vistra - Hennepin  
13498 E 800th Street  
Hennepin, IL 61327

Dear Brian Voelker:

Please find enclosed the analytical results for the sample(s) the laboratory received. All testing is performed according to our current TNI accreditations unless otherwise noted. This report cannot be reproduced, except in full, without the written permission of Pace Analytical Services, LLC.

If you have any questions regarding your report, please contact your project manager. Quality and timely data is of the utmost importance to us.

Pace Analytical Services appreciates the opportunity to provide you with analytical expertise. We are always trying to improve our customer service and we welcome you to contact the General Manager, Lisa Grant, with any feedback you have about your experience with our laboratory at 309-683-1764 or [lisa.grant@pacelabs.com](mailto:lisa.grant@pacelabs.com).

Sincerely,

A handwritten signature in black ink that reads "Diane Billings". The signature is written in a cursive, flowing style.

Diane Billings  
Project Manager



**Pace Analytical Services, LLC**  
2231 W. Altorfer Drive  
Peoria, IL 61615  
(800)752-6651

**Case Narrative**

The original report was issued 11/19/25. The revised report addresses a PDF formatting issue on the perchlorate results for IK00624-01 and includes the correct field parameters for 22D Dup. A second revised report was issued to remove an analyte from the field blank that was erroneously reported .

---

## ANALYTICAL RESULTS

**Sample:** IK00258-01  
**Name:** 03R  
**Matrix:** Ground Water - Grab

**Sampled:** 11/03/25 14:33  
**Received:** 11/03/25 17:37

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b><u>Anions - PIA</u></b>									
Chloride	100	mg/L	Q4	11/04/25 13:53	25	25	11/04/25 13:53	JSM	EPA 300.0 REV 2.1
Sulfate	78	mg/L	Q4	11/04/25 13:53	25	25	11/04/25 13:53	JSM	EPA 300.0 REV 2.1
<b><u>Field - PIA</u></b>									
Depth, From Measuring Point	35.56	Feet		11/03/25 14:33	1		11/03/25 14:33	FIELD	Field*
Dissolved oxygen, Field	0.0	mg/L		11/03/25 14:33	1		11/03/25 14:33	FIELD	Field*
Oxidation Reduction Potential	89.3	mV		11/03/25 14:33	1	-500	11/03/25 14:33	FIELD	Field*
pH, Field Measured	7.20	pH Units		11/03/25 14:33	1		11/03/25 14:33	FIELD	Field*
Specific Conductance, Field Measured	922.0	umhos/cm		11/03/25 14:33	1		11/03/25 14:33	FIELD	Field*
Temperature, Field Measured	17.4	°C		11/03/25 14:33	1		11/03/25 14:33	FIELD	Field*
Turbidity, Field Measured	3.50	NTU		11/03/25 14:33	1	0.00	11/03/25 14:33	FIELD	Field*
<b><u>General Chemistry - PIA</u></b>									
Alkalinity - bicarbonate as CaCO3	250	mg/L		11/10/25 09:21	1	10	11/10/25 09:21	ECM	SM 2320 B-2011*
Alkalinity - carbonate as CaCO3	< 10	mg/L		11/10/25 09:21	1	10	11/10/25 09:21	ECM	SM 2320 B-2011*
Fluoride	0.270	mg/L		11/12/25 11:27	1	0.250	11/12/25 11:27	ECM	SM 4500-F C-2011
<b><u>Soluble General Chemistry - PIA</u></b>									
Solids - total dissolved solids (TDS)	440	mg/L		11/04/25 10:14	1	26	11/05/25 11:25	ENH	SM 2540 C-2011
<b><u>Total Metals - PIA</u></b>									
Antimony	< 3.0	ug/L		11/05/25 08:04	5	3.0	11/07/25 16:47	TJJ	EPA 6020A
Arsenic	< 1.0	ug/L		11/05/25 08:04	5	1.0	11/07/25 16:47	TJJ	EPA 6020A
Barium	52	ug/L		11/05/25 08:04	5	1.0	11/07/25 16:47	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		11/05/25 08:04	5	1.0	11/07/25 16:47	TJJ	EPA 6020A
Boron	510	ug/L		11/05/25 08:04	5	10	11/12/25 09:19	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		11/05/25 08:04	5	1.0	11/07/25 16:47	TJJ	EPA 6020A
Calcium	84	mg/L		11/05/25 08:04	5	0.20	11/07/25 16:47	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		11/05/25 08:04	5	4.0	11/07/25 16:47	TJJ	EPA 6020A
Cobalt	< 2.0	ug/L		11/05/25 08:04	5	2.0	11/07/25 16:47	TJJ	EPA 6020A
Lead	< 1.0	ug/L		11/05/25 08:04	5	1.0	11/07/25 16:47	TJJ	EPA 6020A
Magnesium	28	mg/L		11/05/25 08:04	5	0.10	11/07/25 16:47	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		11/05/25 08:04	5	0.20	11/07/25 16:47	TJJ	EPA 6020A
Molybdenum	57	ug/L		11/05/25 08:04	5	1.0	11/07/25 16:47	TJJ	EPA 6020A
Potassium	7.5	mg/L		11/05/25 08:04	5	0.10	11/07/25 16:47	TJJ	EPA 6020A

**ANALYTICAL RESULTS**

**Sample:** IK00258-01  
**Name:** 03R  
**Matrix:** Ground Water - Grab

**Sampled:** 11/03/25 14:33  
**Received:** 11/03/25 17:37

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Selenium	4.0	ug/L		11/05/25 08:04	5	1.0	11/12/25 09:19	TJJ	EPA 6020A
Sodium	55	mg/L		11/05/25 08:04	5	0.10	11/07/25 16:47	TJJ	EPA 6020A
Thallium	< 1.0	ug/L		11/05/25 08:04	5	1.0	11/07/25 16:47	TJJ	EPA 6020A
Lithium	< 0.020	mg/L		11/05/25 08:04	1	0.020	11/17/25 12:17	LAM	EPA 6010B

## ANALYTICAL RESULTS

**Sample:** IK00258-02  
**Name:** 08  
**Matrix:** Ground Water - Grab

**Sampled:** 11/03/25 14:10  
**Received:** 11/03/25 17:37

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b><u>Anions - PIA</u></b>									
Chloride	370	mg/L		11/06/25 13:21	50	50	11/06/25 13:21	JSM	EPA 300.0 REV 2.1
Sulfate	120	mg/L		11/04/25 14:29	25	25	11/04/25 14:29	JSM	EPA 300.0 REV 2.1
<b><u>Field - PIA</u></b>									
Depth, From Measuring Point	54.2	Feet		11/03/25 14:10	1		11/03/25 14:10	FIELD	Field*
Dissolved oxygen, Field	2.7	mg/L		11/03/25 14:10	1		11/03/25 14:10	FIELD	Field*
Oxidation Reduction Potential	101	mV		11/03/25 14:10	1	-500	11/03/25 14:10	FIELD	Field*
pH, Field Measured	6.72	pH Units		11/03/25 14:10	1		11/03/25 14:10	FIELD	Field*
Specific Conductance, Field Measured	2108	umhos/cm		11/03/25 14:10	1		11/03/25 14:10	FIELD	Field*
Temperature, Field Measured	15.1	°C		11/03/25 14:10	1		11/03/25 14:10	FIELD	Field*
Turbidity, Field Measured	5.70	NTU		11/03/25 14:10	1	0.00	11/03/25 14:10	FIELD	Field*
<b><u>General Chemistry - PIA</u></b>									
Alkalinity - bicarbonate as CaCO3	480	mg/L		11/10/25 09:21	1	4.0	11/10/25 09:21	ECM	SM 2320 B-2011*
Alkalinity - carbonate as CaCO3	< 4.0	mg/L		11/10/25 09:21	1	4.0	11/10/25 09:21	ECM	SM 2320 B-2011*
Fluoride	< 0.250	mg/L		11/12/25 11:32	1	0.250	11/12/25 11:32	ECM	SM 4500-F C-2011
<b><u>Soluble General Chemistry - PIA</u></b>									
Solids - total dissolved solids (TDS)	1000	mg/L		11/04/25 10:14	1	26	11/05/25 11:25	ENH	SM 2540 C-2011
<b><u>Total Metals - PIA</u></b>									
Antimony	< 3.0	ug/L		11/05/25 08:04	5	3.0	11/07/25 16:51	TJJ	EPA 6020A
Arsenic	< 1.0	ug/L		11/05/25 08:04	5	1.0	11/07/25 16:51	TJJ	EPA 6020A
Barium	110	ug/L		11/05/25 08:04	5	1.0	11/07/25 16:51	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		11/05/25 08:04	5	1.0	11/07/25 16:51	TJJ	EPA 6020A
Boron	110	ug/L		11/05/25 08:04	5	10	11/12/25 09:15	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		11/05/25 08:04	5	1.0	11/07/25 16:51	TJJ	EPA 6020A
Calcium	200	mg/L		11/05/25 08:04	5	0.20	11/07/25 16:51	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		11/05/25 08:04	5	4.0	11/07/25 16:51	TJJ	EPA 6020A
Cobalt	2.8	ug/L		11/05/25 08:04	5	2.0	11/07/25 16:51	TJJ	EPA 6020A
Lead	< 1.0	ug/L		11/05/25 08:04	5	1.0	11/07/25 16:51	TJJ	EPA 6020A
Magnesium	59	mg/L		11/05/25 08:04	5	0.10	11/07/25 16:51	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		11/05/25 08:04	5	0.20	11/07/25 16:51	TJJ	EPA 6020A
Molybdenum	< 1.0	ug/L		11/05/25 08:04	5	1.0	11/07/25 16:51	TJJ	EPA 6020A
Potassium	6.5	mg/L		11/05/25 08:04	5	0.10	11/07/25 16:51	TJJ	EPA 6020A

**ANALYTICAL RESULTS**

**Sample:** IK00258-02  
**Name:** 08  
**Matrix:** Ground Water - Grab

**Sampled:** 11/03/25 14:10  
**Received:** 11/03/25 17:37

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Selenium	< 1.0	ug/L		11/05/25 08:04	5	1.0	11/12/25 09:15	TJJ	EPA 6020A
Sodium	140	mg/L		11/05/25 08:04	5	0.10	11/07/25 16:51	TJJ	EPA 6020A
Thallium	< 1.0	ug/L		11/05/25 08:04	5	1.0	11/07/25 16:51	TJJ	EPA 6020A
Lithium	< 0.020	mg/L		11/05/25 08:04	1	0.020	11/17/25 12:23	LAM	EPA 6010B

## ANALYTICAL RESULTS

**Sample:** IK00258-04  
**Name:** 18D  
**Matrix:** Ground Water - Grab

**Sampled:** 11/03/25 16:05  
**Received:** 11/03/25 17:37

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b><u>Anions - PIA</u></b>									
Chloride	95	mg/L		11/04/25 15:42	25	25	11/04/25 15:42	JSM	EPA 300.0 REV 2.1
Sulfate	96	mg/L		11/04/25 15:42	25	25	11/04/25 15:42	JSM	EPA 300.0 REV 2.1
<b><u>Field - PIA</u></b>									
Depth, From Measuring Point	41.4	Feet		11/03/25 16:05	1		11/03/25 16:05	FIELD	Field*
Dissolved oxygen, Field	0.010	mg/L		11/03/25 16:05	1		11/03/25 16:05	FIELD	Field*
Oxidation Reduction Potential	87.7	mV		11/03/25 16:05	1	-500	11/03/25 16:05	FIELD	Field*
pH, Field Measured	7.16	pH Units		11/03/25 16:05	1		11/03/25 16:05	FIELD	Field*
Specific Conductance, Field Measured	942.0	umhos/cm		11/03/25 16:05	1		11/03/25 16:05	FIELD	Field*
Temperature, Field Measured	17.2	°C		11/03/25 16:05	1		11/03/25 16:05	FIELD	Field*
Turbidity, Field Measured	4.30	NTU		11/03/25 16:05	1	0.00	11/03/25 16:05	FIELD	Field*
<b><u>General Chemistry - PIA</u></b>									
Alkalinity - bicarbonate as CaCO3	260	mg/L		11/10/25 09:21	1	4.0	11/10/25 09:21	ECM	SM 2320 B-2011*
Alkalinity - carbonate as CaCO3	< 4.0	mg/L		11/10/25 09:21	1	4.0	11/10/25 09:21	ECM	SM 2320 B-2011*
Fluoride	< 0.250	mg/L		11/12/25 11:37	1	0.250	11/12/25 11:37	ECM	SM 4500-F C-2011
<b><u>Soluble General Chemistry - PIA</u></b>									
Solids - total dissolved solids (TDS)	490	mg/L		11/04/25 10:14	1	26	11/05/25 11:25	ENH	SM 2540 C-2011
<b><u>Total Metals - PIA</u></b>									
Antimony	< 3.0	ug/L		11/05/25 08:04	5	3.0	11/07/25 17:05	TJJ	EPA 6020A
Arsenic	< 1.0	ug/L		11/05/25 08:04	5	1.0	11/07/25 17:05	TJJ	EPA 6020A
Barium	58	ug/L		11/05/25 08:04	5	1.0	11/07/25 17:05	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		11/05/25 08:04	5	1.0	11/07/25 17:05	TJJ	EPA 6020A
Boron	1200	ug/L		11/05/25 08:04	5	10	11/12/25 09:26	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		11/05/25 08:04	5	1.0	11/07/25 17:05	TJJ	EPA 6020A
Calcium	91	mg/L		11/05/25 08:04	5	0.20	11/07/25 17:05	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		11/05/25 08:04	5	4.0	11/07/25 17:05	TJJ	EPA 6020A
Cobalt	< 2.0	ug/L		11/05/25 08:04	5	2.0	11/07/25 17:05	TJJ	EPA 6020A
Lead	< 1.0	ug/L		11/05/25 08:04	5	1.0	11/07/25 17:05	TJJ	EPA 6020A
Magnesium	28	mg/L		11/05/25 08:04	5	0.10	11/07/25 17:05	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		11/05/25 08:04	5	0.20	11/07/25 17:05	TJJ	EPA 6020A
Molybdenum	30	ug/L		11/05/25 08:04	5	1.0	11/07/25 17:05	TJJ	EPA 6020A
Potassium	9.2	mg/L		11/05/25 08:04	5	0.10	11/07/25 17:05	TJJ	EPA 6020A

**ANALYTICAL RESULTS**

**Sample:** IK00258-04  
**Name:** 18D  
**Matrix:** Ground Water - Grab

**Sampled:** 11/03/25 16:05  
**Received:** 11/03/25 17:37

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Selenium	< 1.0	ug/L		11/05/25 08:04	5	1.0	11/12/25 09:26	TJJ	EPA 6020A
Sodium	52	mg/L		11/05/25 08:04	5	0.10	11/07/25 17:05	TJJ	EPA 6020A
Thallium	< 1.0	ug/L		11/05/25 08:04	5	1.0	11/07/25 17:05	TJJ	EPA 6020A
Lithium	0.023	mg/L		11/05/25 08:04	1	0.020	11/17/25 12:25	LAM	EPA 6010B

## ANALYTICAL RESULTS

**Sample:** IK00624-02  
**Name:** 18S  
**Matrix:** Ground Water - Grab

**Sampled:** 11/04/25 11:09  
**Received:** 11/04/25 16:57

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b><u>Anions - PIA</u></b>									
Chloride	82	mg/L		11/05/25 15:29	25	25	11/05/25 15:29	JSM	EPA 300.0 REV 2.1
Sulfate	110	mg/L		11/05/25 15:29	25	25	11/05/25 15:29	JSM	EPA 300.0 REV 2.1
<b><u>Field - PIA</u></b>									
Depth, From Measuring Point	40.86	Feet		11/04/25 11:09	1		11/04/25 11:09	FIELD	Field*
Dissolved oxygen, Field	0.020	mg/L		11/04/25 11:09	1		11/04/25 11:09	FIELD	Field*
Oxidation Reduction Potential	136	mV		11/04/25 11:09	1	-500	11/04/25 11:09	FIELD	Field*
pH, Field Measured	7.34	pH Units		11/04/25 11:09	1		11/04/25 11:09	FIELD	Field*
Specific Conductance, Field Measured	911.0	umhos/cm		11/04/25 11:09	1		11/04/25 11:09	FIELD	Field*
Temperature, Field Measured	16.9	°C		11/04/25 11:09	1		11/04/25 11:09	FIELD	Field*
Turbidity, Field Measured	2.20	NTU		11/04/25 11:09	1	0.00	11/04/25 11:09	FIELD	Field*
<b><u>General Chemistry - PIA</u></b>									
Alkalinity - bicarbonate as CaCO3	200	mg/L		11/10/25 09:21	1	4.0	11/10/25 09:21	ECM	SM 2320 B-2011*
Alkalinity - carbonate as CaCO3	< 4.0	mg/L		11/10/25 09:21	1	4.0	11/10/25 09:21	ECM	SM 2320 B-2011*
Fluoride	< 0.250	mg/L		11/07/25 15:25	1	0.250	11/07/25 15:25	CRD	SM 4500-F C-2011
<b><u>Soluble General Chemistry - PIA</u></b>									
Solids - total dissolved solids (TDS)	460	mg/L		11/05/25 09:02	1	26	11/05/25 12:39	ENH	SM 2540 C-2011
<b><u>Total Metals - PIA</u></b>									
Antimony	< 3.0	ug/L		11/05/25 08:04	5	3.0	11/07/25 17:31	TJJ	EPA 6020A
Arsenic	< 1.0	ug/L		11/05/25 08:04	5	1.0	11/07/25 17:31	TJJ	EPA 6020A
Barium	50	ug/L		11/05/25 08:04	5	1.0	11/07/25 17:31	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		11/05/25 08:04	5	1.0	11/07/25 17:31	TJJ	EPA 6020A
Boron	2100	ug/L		11/05/25 08:04	5	10	11/12/25 10:21	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		11/05/25 08:04	5	1.0	11/07/25 17:31	TJJ	EPA 6020A
Calcium	87	mg/L		11/05/25 08:04	5	0.20	11/07/25 17:31	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		11/05/25 08:04	5	4.0	11/07/25 17:31	TJJ	EPA 6020A
Cobalt	< 2.0	ug/L		11/05/25 08:04	5	2.0	11/07/25 17:31	TJJ	EPA 6020A
Lead	< 1.0	ug/L		11/05/25 08:04	5	1.0	11/07/25 17:31	TJJ	EPA 6020A
Magnesium	24	mg/L		11/05/25 08:04	5	0.10	11/07/25 17:31	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		11/05/25 08:04	5	0.20	11/07/25 17:31	TJJ	EPA 6020A
Molybdenum	120	ug/L		11/05/25 08:04	5	1.0	11/07/25 17:31	TJJ	EPA 6020A
Potassium	9.1	mg/L		11/05/25 08:04	5	0.10	11/07/25 17:31	TJJ	EPA 6020A

**ANALYTICAL RESULTS**

**Sample:** IK00624-02  
**Name:** 18S  
**Matrix:** Ground Water - Grab

**Sampled:** 11/04/25 11:09

**Received:** 11/04/25 16:57

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Selenium	15	ug/L		11/05/25 08:04	5	1.0	11/12/25 10:21	TJJ	EPA 6020A
Sodium	51	mg/L		11/05/25 08:04	5	0.10	11/07/25 17:31	TJJ	EPA 6020A
Thallium	< 1.0	ug/L		11/05/25 08:04	5	1.0	11/07/25 17:31	TJJ	EPA 6020A
Lithium	0.041	mg/L		11/05/25 08:04	1	0.020	11/17/25 12:33	LAM	EPA 6010B

## ANALYTICAL RESULTS

**Sample:** IK00624-03  
**Name:** 45S  
**Matrix:** Ground Water - Grab

**Sampled:** 11/04/25 15:02  
**Received:** 11/04/25 16:57

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b><u>Anions - PIA</u></b>									
Chloride	94	mg/L		11/05/25 16:05	25	25	11/05/25 16:05	JSM	EPA 300.0 REV 2.1
Sulfate	65	mg/L		11/05/25 16:05	25	25	11/05/25 16:05	JSM	EPA 300.0 REV 2.1
<b><u>Field - PIA</u></b>									
Depth, From Measuring Point	20.54	Feet		11/04/25 15:02	1		11/04/25 15:02	FIELD	Field*
Dissolved oxygen, Field	0.010	mg/L		11/04/25 15:02	1		11/04/25 15:02	FIELD	Field*
Oxidation Reduction Potential	99.1	mV		11/04/25 15:02	1	-500	11/04/25 15:02	FIELD	Field*
pH, Field Measured	7.17	pH Units		11/04/25 15:02	1		11/04/25 15:02	FIELD	Field*
Specific Conductance, Field Measured	1001	umhos/cm		11/04/25 15:02	1		11/04/25 15:02	FIELD	Field*
Temperature, Field Measured	18.6	°C		11/04/25 15:02	1		11/04/25 15:02	FIELD	Field*
Turbidity, Field Measured	2.90	NTU		11/04/25 15:02	1	0.00	11/04/25 15:02	FIELD	Field*
<b><u>General Chemistry - PIA</u></b>									
Alkalinity - bicarbonate as CaCO3	280	mg/L		11/10/25 09:21	1	4.0	11/10/25 09:21	ECM	SM 2320 B-2011*
Alkalinity - carbonate as CaCO3	< 4.0	mg/L		11/10/25 09:21	1	4.0	11/10/25 09:21	ECM	SM 2320 B-2011*
Fluoride	< 0.250	mg/L		11/07/25 15:28	1	0.250	11/07/25 15:28	CRD	SM 4500-F C-2011
<b><u>Soluble General Chemistry - PIA</u></b>									
Solids - total dissolved solids (TDS)	460	mg/L		11/05/25 09:02	1	26	11/05/25 12:39	ENH	SM 2540 C-2011
<b><u>Total Metals - PIA</u></b>									
Antimony	< 3.0	ug/L		11/05/25 08:04	5	3.0	11/07/25 17:35	TJJ	EPA 6020A
Arsenic	< 1.0	ug/L		11/05/25 08:04	5	1.0	11/07/25 17:35	TJJ	EPA 6020A
Barium	67	ug/L		11/05/25 08:04	5	1.0	11/07/25 17:35	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		11/05/25 08:04	5	1.0	11/07/25 17:35	TJJ	EPA 6020A
Boron	380	ug/L		11/05/25 08:04	5	10	11/12/25 10:25	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		11/05/25 08:04	5	1.0	11/07/25 17:35	TJJ	EPA 6020A
Calcium	88	mg/L		11/05/25 08:04	5	0.20	11/07/25 17:35	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		11/05/25 08:04	5	4.0	11/07/25 17:35	TJJ	EPA 6020A
Cobalt	< 2.0	ug/L		11/05/25 08:04	5	2.0	11/07/25 17:35	TJJ	EPA 6020A
Lead	< 1.0	ug/L		11/05/25 08:04	5	1.0	11/07/25 17:35	TJJ	EPA 6020A
Magnesium	31	mg/L		11/05/25 08:04	5	0.10	11/07/25 17:35	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		11/05/25 08:04	5	0.20	11/07/25 17:35	TJJ	EPA 6020A
Molybdenum	38	ug/L		11/05/25 08:04	5	1.0	11/07/25 17:35	TJJ	EPA 6020A
Potassium	6.1	mg/L		11/05/25 08:04	5	0.10	11/07/25 17:35	TJJ	EPA 6020A

**ANALYTICAL RESULTS**

**Sample:** IK00624-03  
**Name:** 45S  
**Matrix:** Ground Water - Grab

**Sampled:** 11/04/25 15:02  
**Received:** 11/04/25 16:57

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Selenium	< 1.0	ug/L		11/05/25 08:04	5	1.0	11/12/25 10:25	TJJ	EPA 6020A
Sodium	62	mg/L		11/05/25 08:04	5	0.10	11/07/25 17:35	TJJ	EPA 6020A
Thallium	< 1.0	ug/L		11/05/25 08:04	5	1.0	11/07/25 17:35	TJJ	EPA 6020A
Lithium	< 0.020	mg/L		11/05/25 08:04	1	0.020	11/17/25 13:43	LAM	EPA 6010B

## ANALYTICAL RESULTS

**Sample:** IK00624-05  
**Name:** 45S Dup  
**Matrix:** Ground Water - Grab

**Sampled:** 11/04/25 15:02  
**Received:** 11/04/25 16:57

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b><u>Anions - PIA</u></b>									
Chloride	91	mg/L		11/05/25 16:42	25	25	11/05/25 16:42	JSM	EPA 300.0 REV 2.1
Sulfate	67	mg/L		11/05/25 16:42	25	25	11/05/25 16:42	JSM	EPA 300.0 REV 2.1
<b><u>Field - PIA</u></b>									
Depth, From Measuring Point	20.54	Feet		11/04/25 15:02	1		11/04/25 15:02	FIELD	Field*
Dissolved oxygen, Field	0.010	mg/L		11/04/25 15:02	1		11/04/25 15:02	FIELD	Field*
Oxidation Reduction Potential	99.1	mV		11/04/25 15:02	1	-500	11/04/25 15:02	FIELD	Field*
pH, Field Measured	7.17	pH Units		11/04/25 15:02	1		11/04/25 15:02	FIELD	Field*
Specific Conductance, Field Measured	1001	umhos/cm		11/04/25 15:02	1		11/04/25 15:02	FIELD	Field*
Temperature, Field Measured	18.6	°C		11/04/25 15:02	1		11/04/25 15:02	FIELD	Field*
Turbidity, Field Measured	2.90	NTU		11/04/25 15:02	1	0.00	11/04/25 15:02	FIELD	Field*
<b><u>General Chemistry - PIA</u></b>									
Alkalinity - bicarbonate as CaCO3	280	mg/L		11/10/25 09:21	1	4.0	11/10/25 09:21	ECM	SM 2320 B-2011*
Alkalinity - carbonate as CaCO3	< 4.0	mg/L		11/10/25 09:21	1	4.0	11/10/25 09:21	ECM	SM 2320 B-2011*
<b><u>Soluble General Chemistry - PIA</u></b>									
Solids - total dissolved solids (TDS)	480	mg/L		11/05/25 09:02	1	26	11/05/25 12:39	ENH	SM 2540 C-2011
<b><u>Total Metals - PIA</u></b>									
Antimony	< 3.0	ug/L		11/05/25 08:04	5	3.0	11/07/25 17:50	TJJ	EPA 6020A
Arsenic	< 1.0	ug/L		11/05/25 08:04	5	1.0	11/07/25 17:50	TJJ	EPA 6020A
Barium	68	ug/L		11/05/25 08:04	5	1.0	11/07/25 17:50	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		11/05/25 08:04	5	1.0	11/07/25 17:50	TJJ	EPA 6020A
Boron	370	ug/L		11/05/25 08:04	5	10	11/12/25 10:32	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		11/05/25 08:04	5	1.0	11/07/25 17:50	TJJ	EPA 6020A
Calcium	88	mg/L		11/05/25 08:04	5	0.20	11/07/25 17:50	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		11/05/25 08:04	5	4.0	11/07/25 17:50	TJJ	EPA 6020A
Cobalt	< 2.0	ug/L		11/05/25 08:04	5	2.0	11/07/25 17:50	TJJ	EPA 6020A
Lead	< 1.0	ug/L		11/05/25 08:04	5	1.0	11/07/25 17:50	TJJ	EPA 6020A
Magnesium	31	mg/L		11/05/25 08:04	5	0.10	11/07/25 17:50	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		11/05/25 08:04	5	0.20	11/07/25 17:50	TJJ	EPA 6020A
Molybdenum	38	ug/L		11/05/25 08:04	5	1.0	11/07/25 17:50	TJJ	EPA 6020A
Potassium	6.1	mg/L		11/05/25 08:04	5	0.10	11/07/25 17:50	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		11/05/25 08:04	5	1.0	11/12/25 10:32	TJJ	EPA 6020A

**ANALYTICAL RESULTS**

**Sample:** IK00624-05  
**Name:** 45S Dup  
**Matrix:** Ground Water - Grab

**Sampled:** 11/04/25 15:02  
**Received:** 11/04/25 16:57

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Sodium	62	mg/L		11/05/25 08:04	5	0.10	11/07/25 17:50	TJJ	EPA 6020A
Thallium	< 1.0	ug/L		11/05/25 08:04	5	1.0	11/07/25 17:50	TJJ	EPA 6020A
Lithium	< 0.020	mg/L		11/05/25 08:04	1	0.020	11/17/25 12:38	LAM	EPA 6010B

## ANALYTICAL RESULTS

**Sample:** IK01117-01  
**Name:** 07  
**Matrix:** Ground Water - Grab

**Sampled:** 11/05/25 12:20  
**Received:** 11/05/25 15:38

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	100	mg/L	Q4	11/06/25 13:35	25	25	11/06/25 13:35	JSM	EPA 300.0 REV 2.1
Sulfate	64	mg/L	Q4	11/06/25 13:35	25	25	11/06/25 13:35	JSM	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	68.77	Feet		11/05/25 12:20	1		11/05/25 12:20	FIELD	Field*
Dissolved oxygen, Field	6.0	mg/L		11/05/25 12:20	1		11/05/25 12:20	FIELD	Field*
Oxidation Reduction Potential	146	mV		11/05/25 12:20	1	-500	11/05/25 12:20	FIELD	Field*
pH, Field Measured	7.17	pH Units		11/05/25 12:20	1		11/05/25 12:20	FIELD	Field*
Specific Conductance, Field Measured	1183	umhos/cm		11/05/25 12:20	1		11/05/25 12:20	FIELD	Field*
Temperature, Field Measured	12.9	°C		11/05/25 12:20	1		11/05/25 12:20	FIELD	Field*
Turbidity, Field Measured	< 0.00	NTU		11/05/25 12:20	1	0.00	11/05/25 12:20	FIELD	Field*
<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	390	mg/L		11/11/25 08:46	1	10	11/11/25 08:46	ECM	SM 2320 B-2011*
Alkalinity - carbonate as CaCO3	< 10	mg/L		11/11/25 08:46	1	10	11/11/25 08:46	ECM	SM 2320 B-2011*
Fluoride	< 0.250	mg/L		11/12/25 12:24	1	0.250	11/12/25 12:24	ECM	SM 4500-F C-2011
<b>Soluble General Chemistry - PIA</b>									
Solids - total dissolved solids (TDS)	540	mg/L		11/07/25 10:03	1	26	11/07/25 12:14	ENH	SM 2540 C-2011
<b>Total Metals - PIA</b>									
Antimony	< 3.0	ug/L		11/10/25 08:57	5	3.0	11/17/25 14:37	TJJ	EPA 6020A
Arsenic	< 1.0	ug/L		11/10/25 08:57	5	1.0	11/17/25 14:37	TJJ	EPA 6020A
Barium	100	ug/L		11/10/25 08:57	5	1.0	11/17/25 14:37	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		11/10/25 08:57	5	1.0	11/17/25 14:37	TJJ	EPA 6020A
Boron	69	ug/L		11/10/25 08:57	5	10	11/19/25 10:33	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		11/10/25 08:57	5	1.0	11/17/25 14:37	TJJ	EPA 6020A
Calcium	130	mg/L		11/10/25 08:57	5	0.20	11/17/25 14:37	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		11/10/25 08:57	5	4.0	11/17/25 14:37	TJJ	EPA 6020A
Cobalt	2.9	ug/L		11/10/25 08:57	5	2.0	11/17/25 14:37	TJJ	EPA 6020A
Lead	< 1.0	ug/L		11/10/25 08:57	5	1.0	11/17/25 14:37	TJJ	EPA 6020A
Magnesium	46	mg/L		11/10/25 08:57	5	0.10	11/19/25 10:33	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		11/10/25 08:57	5	0.20	11/17/25 14:37	TJJ	EPA 6020A
Molybdenum	< 1.0	ug/L		11/10/25 08:57	5	1.0	11/17/25 14:37	TJJ	EPA 6020A
Potassium	2.8	mg/L		11/10/25 08:57	5	0.10	11/17/25 14:37	TJJ	EPA 6020A

**ANALYTICAL RESULTS**

**Sample:** IK01117-01  
**Name:** 07  
**Matrix:** Ground Water - Grab

**Sampled:** 11/05/25 12:20

**Received:** 11/05/25 15:38

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Selenium	< 1.0	ug/L		11/10/25 08:57	5	1.0	11/17/25 14:37	TJJ	EPA 6020A
Sodium	43	mg/L		11/10/25 08:57	5	0.10	11/17/25 14:37	TJJ	EPA 6020A
Thallium	< 1.0	ug/L		11/10/25 08:57	5	1.0	11/17/25 14:37	TJJ	EPA 6020A
Lithium	< 0.020	mg/L		11/10/25 08:57	1	0.020	11/17/25 13:08	LAM	EPA 6010B

### ANALYTICAL RESULTS

**Sample:** IK01117-02  
**Name:** 08D  
**Matrix:** Ground Water - Grab

**Sampled:** 11/05/25 13:51  
**Received:** 11/05/25 15:38

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	330	mg/L		11/07/25 16:36	50	50	11/07/25 16:36	JSM	EPA 300.0 REV 2.1
Sulfate	160	mg/L		11/06/25 14:47	25	25	11/06/25 14:47	JSM	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	53.89	Feet		11/05/25 13:51	1		11/05/25 13:51	FIELD	Field*
Dissolved oxygen, Field	0.030	mg/L		11/05/25 13:51	1		11/05/25 13:51	FIELD	Field*
Oxidation Reduction Potential	119	mV		11/05/25 13:51	1	-500	11/05/25 13:51	FIELD	Field*
pH, Field Measured	6.79	pH Units		11/05/25 13:51	1		11/05/25 13:51	FIELD	Field*
Specific Conductance, Field Measured	2120	umhos/cm		11/05/25 13:51	1		11/05/25 13:51	FIELD	Field*
Temperature, Field Measured	14.7	°C		11/05/25 13:51	1		11/05/25 13:51	FIELD	Field*
Turbidity, Field Measured	3.50	NTU		11/05/25 13:51	1	0.00	11/05/25 13:51	FIELD	Field*
<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	480	mg/L		11/11/25 08:46	1	10	11/11/25 08:46	ECM	SM 2320 B-2011*
Alkalinity - carbonate as CaCO3	< 10	mg/L		11/11/25 08:46	1	10	11/11/25 08:46	ECM	SM 2320 B-2011*
Fluoride	< 0.250	mg/L		11/12/25 13:28	1	0.250	11/12/25 13:28	ECM	SM 4500-F C-2011
<b>Soluble General Chemistry - PIA</b>									
Solids - total dissolved solids (TDS)	1000	mg/L		11/07/25 10:03	1	26	11/07/25 12:14	ENH	SM 2540 C-2011
<b>Total Metals - PIA</b>									
Antimony	< 3.0	ug/L		11/10/25 08:57	5	3.0	11/17/25 14:41	TJJ	EPA 6020A
Arsenic	< 1.0	ug/L		11/10/25 08:57	5	1.0	11/17/25 14:41	TJJ	EPA 6020A
Barium	93	ug/L		11/10/25 08:57	5	1.0	11/17/25 14:41	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		11/10/25 08:57	5	1.0	11/17/25 14:41	TJJ	EPA 6020A
Boron	92	ug/L		11/10/25 08:57	5	10	11/19/25 10:37	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		11/10/25 08:57	5	1.0	11/17/25 14:41	TJJ	EPA 6020A
Calcium	180	mg/L		11/10/25 08:57	5	0.20	11/17/25 14:41	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		11/10/25 08:57	5	4.0	11/17/25 14:41	TJJ	EPA 6020A
Cobalt	3.4	ug/L		11/10/25 08:57	5	2.0	11/17/25 14:41	TJJ	EPA 6020A
Lead	< 1.0	ug/L		11/10/25 08:57	5	1.0	11/17/25 14:41	TJJ	EPA 6020A
Magnesium	54	mg/L		11/10/25 08:57	5	0.10	11/19/25 10:37	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		11/10/25 08:57	5	0.20	11/17/25 14:41	TJJ	EPA 6020A
Molybdenum	< 1.0	ug/L		11/10/25 08:57	5	1.0	11/17/25 14:41	TJJ	EPA 6020A
Potassium	3.2	mg/L		11/10/25 08:57	5	0.10	11/17/25 14:41	TJJ	EPA 6020A

**ANALYTICAL RESULTS**

**Sample:** IK01117-02  
**Name:** 08D  
**Matrix:** Ground Water - Grab

**Sampled:** 11/05/25 13:51  
**Received:** 11/05/25 15:38

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Selenium	< 1.0	ug/L		11/10/25 08:57	5	1.0	11/17/25 14:41	TJJ	EPA 6020A
Sodium	170	mg/L		11/10/25 08:57	5	0.10	11/17/25 14:41	TJJ	EPA 6020A
Thallium	< 1.0	ug/L		11/10/25 08:57	5	1.0	11/17/25 14:41	TJJ	EPA 6020A
Lithium	< 0.020	mg/L		11/10/25 08:57	1	0.020	11/17/25 13:09	LAM	EPA 6010B

**Sample:** IK01117-10  
**Name:** SG02  
**Matrix:** Ground Water - Grab

**Sampled:** 10/27/25 15:08  
**Received:** 11/05/25 15:38

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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**Field - PIA**

Depth, From Measuring Point	27.62	Feet		10/27/25 15:08	1		10/27/25 15:08	DAB	Field*
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### QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b><u>Batch B547224 - No Prep - SM 2540 C-2011</u></b>									
<b>Blank (B547224-BLK1)</b>				Prepared: 11/04/25 Analyzed: 11/05/25					
Solids - total dissolved solids (TDS)	< 17	mg/L							
<b>LCS (B547224-BS1)</b>				Prepared: 11/04/25 Analyzed: 11/05/25					
Solids - total dissolved solids (TDS)	930	mg/L		1000		93	84.5-105		
<b>Duplicate (B547224-DUP2)</b>				Sample: IK00258-01 Prepared: 11/04/25 Analyzed: 11/05/25					
Solids - total dissolved solids (TDS)	425	mg/L			435			2	5
<b><u>Batch B547330 - SW 3015 - EPA 6010B</u></b>									
<b>Blank (B547330-BLK1)</b>				Prepared: 11/05/25 Analyzed: 11/17/25					
Lithium	< 0.020	mg/L							
<b>LCS (B547330-BS1)</b>				Prepared: 11/05/25 Analyzed: 11/17/25					
Lithium	0.530	mg/L		0.5556		95	80-120		
<b>Matrix Spike (B547330-MS1)</b>				Sample: IK00258-01 Prepared: 11/05/25 Analyzed: 11/17/25					
Lithium	0.553	mg/L		0.5556	0.0155	97	75-125		
<b>Matrix Spike Dup (B547330-MSD1)</b>				Sample: IK00258-01 Prepared: 11/05/25 Analyzed: 11/17/25					
Lithium	0.557	mg/L		0.5556	0.0155	98	75-125	0.8	20
<b><u>Batch B547330 - SW 3015 - EPA 6020A</u></b>									
<b>Blank (B547330-BLK1)</b>				Prepared: 11/05/25 Analyzed: 11/07/25					
Antimony	< 3.0	ug/L							
Arsenic	< 1.0	ug/L							
Barium	< 1.0	ug/L							
Beryllium	< 1.0	ug/L							
Boron	< 10	ug/L							
Cadmium	< 1.0	ug/L							
Calcium	< 0.20	mg/L							
Chromium	< 4.0	ug/L							
Cobalt	< 2.0	ug/L							
Lead	< 1.0	ug/L							
Magnesium	< 0.10	mg/L							
Mercury	< 0.20	ug/L							
Molybdenum	< 1.0	ug/L							
Potassium	< 0.10	mg/L							
Selenium	< 1.0	ug/L							
Sodium	< 0.10	mg/L							
Thallium	< 1.0	ug/L							
<b>LCS (B547330-BS1)</b>				Prepared: 11/05/25 Analyzed: 11/07/25					
Antimony	533	ug/L		555.6		96	80-120		
Arsenic	520	ug/L		555.6		94	80-120		
Barium	544	ug/L		555.6		98	80-120		
Beryllium	525	ug/L		555.6		95	80-120		
Boron	556	ug/L		555.6		100	80-120		
Cadmium	521	ug/L		555.6		94	80-120		
Calcium	5.66	mg/L		5.556		102	80-120		
Chromium	563	ug/L		555.6		101	80-120		

**QC SAMPLE RESULTS**

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>LCS (B547330-BS1)</b>				Prepared: 11/05/25 Analyzed: 11/07/25					
Cobalt	546	ug/L		555.6		98	80-120		
Lead	570	ug/L		555.6		103	80-120		
Magnesium	6.17	mg/L		5.556		111	80-120		
Mercury	52.8	ug/L		55.56		95	80-120		
Molybdenum	514	ug/L		555.6		93	80-120		
Potassium	5.75	mg/L		5.556		104	80-120		
Selenium	551	ug/L		555.6		99	80-120		
Sodium	5.97	mg/L		5.556		107	80-120		
Thallium	562	ug/L		555.6		101	80-120		
<b>Matrix Spike (B547330-MS1)</b>				Sample: IK00258-01		Prepared: 11/05/25 Analyzed: 11/07/25			
Antimony	538	ug/L		555.6	ND	97	75-125		
Arsenic	530	ug/L		555.6	ND	95	75-125		
Barium	598	ug/L		555.6	52.3	98	75-125		
Beryllium	536	ug/L		555.6	ND	96	75-125		
Boron	1070	ug/L		555.6	506	101	75-125		
Cadmium	520	ug/L		555.6	ND	94	75-125		
Calcium	88.1	mg/L		5.556	83.8	78	75-125		
Chromium	560	ug/L		555.6	ND	101	75-125		
Cobalt	536	ug/L		555.6	ND	96	75-125		
Lead	564	ug/L		555.6	ND	102	75-125		
Magnesium	33.1	mg/L		5.556	27.7	97	75-125		
Mercury	54.9	ug/L		55.56	0.156	99	75-125		
Molybdenum	584	ug/L		555.6	56.8	95	75-125		
Potassium	12.9	mg/L		5.556	7.47	98	75-125		
Selenium	558	ug/L		555.6	3.98	100	75-125		
Sodium	58.9	mg/L	Q4	5.556	54.8	73	75-125		
Thallium	555	ug/L		555.6	ND	100	75-125		
<b>Matrix Spike Dup (B547330-MSD1)</b>				Sample: IK00258-01		Prepared: 11/05/25 Analyzed: 11/07/25			
Antimony	538	ug/L		555.6	ND	97	75-125	0.05	20
Arsenic	536	ug/L		555.6	ND	97	75-125	1	20
Barium	605	ug/L		555.6	52.3	99	75-125	1	20
Beryllium	543	ug/L		555.6	ND	98	75-125	1	20
Boron	1070	ug/L		555.6	506	101	75-125	0.1	20
Cadmium	530	ug/L		555.6	ND	95	75-125	2	20
Calcium	88.3	mg/L		5.556	83.8	81	75-125	0.2	20
Chromium	564	ug/L		555.6	ND	101	75-125	0.7	20
Cobalt	545	ug/L		555.6	ND	98	75-125	2	20
Lead	569	ug/L		555.6	ND	102	75-125	0.9	20
Magnesium	33.2	mg/L		5.556	27.7	100	75-125	0.4	20
Mercury	54.8	ug/L		55.56	0.156	98	75-125	0.1	20
Molybdenum	596	ug/L		555.6	56.8	97	75-125	2	20
Potassium	13.0	mg/L		5.556	7.47	100	75-125	0.8	20
Selenium	563	ug/L		555.6	3.98	101	75-125	1	20
Sodium	59.2	mg/L		5.556	54.8	80	75-125	0.6	20
Thallium	561	ug/L		555.6	ND	101	75-125	1	20

**Batch B547354 - No Prep - SM 2540 C-2011**

**QC SAMPLE RESULTS**

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Blank (B547354-BLK1)</b>				Prepared & Analyzed: 11/05/25					
Solids - total dissolved solids (TDS)	< 17	mg/L							
<b>LCS (B547354-BS1)</b>				Prepared & Analyzed: 11/05/25					
Solids - total dissolved solids (TDS)	907	mg/L		1000		91	84.5-105		
<b>Duplicate (B547354-DUP2)</b>				Sample: IK00624-01 Prepared & Analyzed: 11/05/25					
Solids - total dissolved solids (TDS)	445	mg/L	M		505			13	5
<b><u>Batch B547394 - IC No Prep - EPA 300.0 REV 2.1</u></b>									
<b>Blank (B547394-BLK1)</b>				Prepared & Analyzed: 11/04/25					
Sulfate	< 1.0	mg/L							
Chloride	< 1.0	mg/L							
<b>Calibration Blank (B547394-CCB1)</b>				Prepared & Analyzed: 11/04/25					
Chloride	0.00	mg/L							
Sulfate	0.00	mg/L							
<b>Calibration Check (B547394-CCV1)</b>				Prepared & Analyzed: 11/04/25					
Chloride	5.02	mg/L		5.000		100	90-110		
Sulfate	5.07	mg/L		5.000		101	90-110		
<b>Matrix Spike (B547394-MS3)</b>				Sample: IK00258-01 Prepared & Analyzed: 11/04/25					
Chloride	1.0E9	mg/L	Q4	1.500	100	NR	80-120		
Sulfate	1.00E9	mg/L	Q4	1.500	77.8	NR	80-120		
<b>Matrix Spike Dup (B547394-MSD3)</b>				Sample: IK00258-01 Prepared & Analyzed: 11/04/25					
Chloride	1.0E9	mg/L	Q4	1.500	100	NR	80-120	0	20
Sulfate	1.00E9	mg/L	Q4	1.500	77.8	NR	80-120	0	20
<b><u>Batch B547518 - IC No Prep - EPA 300.0 REV 2.1</u></b>									
<b>Blank (B547518-BLK1)</b>				Prepared & Analyzed: 11/05/25					
Sulfate	< 1.0	mg/L							
Chloride	< 1.0	mg/L							
<b>Calibration Blank (B547518-CCB1)</b>				Prepared & Analyzed: 11/05/25					
Sulfate	0.00	mg/L							
Chloride	0.00	mg/L							
<b>Calibration Check (B547518-CCV1)</b>				Prepared & Analyzed: 11/05/25					
Sulfate	4.86	mg/L		5.000		97	90-110		
Chloride	4.91	mg/L		5.000		98	90-110		
<b>Matrix Spike (B547518-MS3)</b>				Sample: IK00624-01 Prepared & Analyzed: 11/05/25					
Chloride	1.0E9	mg/L	Q4	1.500	100	NR	80-120		
Sulfate	1.00E9	mg/L	Q4	1.500	66.6	NR	80-120		
<b>Matrix Spike Dup (B547518-MSD3)</b>				Sample: IK00624-01 Prepared & Analyzed: 11/05/25					
Sulfate	1.00E9	mg/L	Q4	1.500	66.6	NR	80-120	0	20
Chloride	1.0E9	mg/L	Q4	1.500	100	NR	80-120	0	20
<b><u>Batch B547615 - No Prep - SM 2540 C-2011</u></b>									
<b>Blank (B547615-BLK1)</b>				Prepared & Analyzed: 11/07/25					
Solids - total dissolved solids (TDS)	< 17	mg/L							
<b>LCS (B547615-BS1)</b>				Prepared & Analyzed: 11/07/25					
Solids - total dissolved solids (TDS)	900	mg/L		1000		90	84.5-105		
<b>Duplicate (B547615-DUP2)</b>				Sample: IK01117-07 Prepared & Analyzed: 11/07/25					
Solids - total dissolved solids (TDS)	420	mg/L			415			1	5

QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b><u>Batch B547680 - IC No Prep - EPA 300.0 REV 2.1</u></b>									
<b>Blank (B547680-BLK1)</b>				Prepared & Analyzed: 11/06/25					
Chloride	< 1.0	mg/L							
<b>Calibration Blank (B547680-CCB1)</b>				Prepared & Analyzed: 11/06/25					
Chloride	0.00	mg/L							
<b>Calibration Check (B547680-CCV1)</b>				Prepared & Analyzed: 11/06/25					
Chloride	4.69	mg/L		5.000		94	90-110		
<b><u>Batch B547682 - IC No Prep - EPA 300.0 REV 2.1</u></b>									
<b>Blank (B547682-BLK1)</b>				Prepared & Analyzed: 11/06/25					
Sulfate	< 1.0	mg/L							
Chloride	< 1.0	mg/L							
<b>Calibration Blank (B547682-CCB1)</b>				Prepared & Analyzed: 11/06/25					
Chloride	0.00	mg/L							
Sulfate	0.00	mg/L							
<b>Calibration Check (B547682-CCV1)</b>				Prepared & Analyzed: 11/06/25					
Chloride	5.14	mg/L		5.000		103	90-110		
Sulfate	5.16	mg/L		5.000		103	90-110		
<b>Matrix Spike (B547682-MS1)</b>				<b>Sample: IK01117-01</b>		Prepared & Analyzed: 11/06/25			
Chloride	1.0E9	mg/L	Q4	1.500	100	NR	80-120		
Sulfate	1.00E9	mg/L	Q4	1.500	64.0	NR	80-120		
<b>Matrix Spike Dup (B547682-MSD1)</b>				<b>Sample: IK01117-01</b>		Prepared & Analyzed: 11/06/25			
Chloride	1.0E9	mg/L	Q4	1.500	100	NR	80-120	0	20
Sulfate	1.00E9	mg/L	Q4	1.500	64.0	NR	80-120	0	20
<b><u>Batch B547712 - No Prep - SM 4500-F C-2011</u></b>									
<b>Calibration Blank (B547712-CCB1)</b>				Prepared & Analyzed: 11/07/25					
Fluoride	0.0220	mg/L							
<b>Calibration Blank (B547712-CCB2)</b>				Prepared & Analyzed: 11/07/25					
Fluoride	0.0180	mg/L							
<b>Calibration Check (B547712-CCV1)</b>				Prepared & Analyzed: 11/07/25					
Fluoride	0.644	mg/L		0.7000		92	90-110		
<b>Calibration Check (B547712-CCV2)</b>				Prepared & Analyzed: 11/07/25					
Fluoride	0.660	mg/L		0.7000		94	90-110		
<b>Matrix Spike (B547712-MS6)</b>				<b>Sample: IK00624-01</b>		Prepared & Analyzed: 11/07/25			
Fluoride	1.22	mg/L		1.000	0.242	98	80-120		
<b>Matrix Spike Dup (B547712-MSD6)</b>				<b>Sample: IK00624-01</b>		Prepared & Analyzed: 11/07/25			
Fluoride	1.28	mg/L		1.000	0.242	104	80-120	5	20
<b><u>Batch B547752 - SW 3015 - EPA 6010B</u></b>									
<b>Blank (B547752-BLK1)</b>				Prepared: 11/10/25 Analyzed: 11/17/25					
Lithium	< 0.020	mg/L							
<b>LCS (B547752-BS1)</b>				Prepared: 11/10/25 Analyzed: 11/17/25					
Lithium	0.531	mg/L		0.5556		95	80-120		
<b><u>Batch B547752 - SW 3015 - EPA 6020A</u></b>									
<b>Blank (B547752-BLK1)</b>				Prepared: 11/10/25 Analyzed: 11/17/25					

**QC SAMPLE RESULTS**

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Blank (B547752-BLK1)</b>									
				Prepared: 11/10/25 Analyzed: 11/17/25					
Antimony	< 3.0	ug/L							
Arsenic	< 1.0	ug/L							
Barium	< 1.0	ug/L							
Beryllium	< 1.0	ug/L							
Boron	< 10	ug/L							
Cadmium	< 1.0	ug/L							
Calcium	< 0.20	mg/L							
Chromium	< 4.0	ug/L							
Cobalt	< 2.0	ug/L							
Lead	< 1.0	ug/L							
Magnesium	< 0.10	mg/L							
Mercury	< 0.20	ug/L							
Molybdenum	< 1.0	ug/L							
Potassium	< 0.10	mg/L							
Selenium	< 1.0	ug/L							
Sodium	< 0.050	mg/L							
Thallium	< 1.0	ug/L							
<b>LCS (B547752-BS1)</b>									
				Prepared: 11/10/25 Analyzed: 11/17/25					
Antimony	512	ug/L		555.6		92	80-120		
Arsenic	531	ug/L		555.6		96	80-120		
Barium	517	ug/L		555.6		93	80-120		
Beryllium	554	ug/L		555.6		100	80-120		
Boron	529	ug/L		555.6		95	80-120		
Cadmium	531	ug/L		555.6		96	80-120		
Calcium	5.82	mg/L		5.556		105	80-120		
Chromium	549	ug/L		555.6		99	80-120		
Cobalt	543	ug/L		555.6		98	80-120		
Lead	525	ug/L		555.6		94	80-120		
Magnesium	6.18	mg/L		5.556		111	80-120		
Mercury	53.4	ug/L		55.56		96	80-120		
Molybdenum	496	ug/L		555.6		89	80-120		
Potassium	5.78	mg/L		5.556		104	80-120		
Selenium	526	ug/L		555.6		95	80-120		
Sodium	6.03	mg/L		5.556		108	80-120		
Thallium	518	ug/L		555.6		93	80-120		
<b><u>Batch B547763 - IC No Prep - EPA 300.0 REV 2.1</u></b>									
<b>Blank (B547763-BLK1)</b>									
				Prepared & Analyzed: 11/07/25					
Chloride	< 1.0	mg/L							
<b>Calibration Blank (B547763-CCB1)</b>									
				Prepared & Analyzed: 11/07/25					
Chloride	0.00	mg/L							
<b>Calibration Check (B547763-CCV1)</b>									
				Prepared & Analyzed: 11/07/25					
Chloride	5.33	mg/L		5.000		107	90-110		
<b><u>Batch B547830 - No Prep - SM 2320 B-2011</u></b>									
<b>Duplicate (B547830-DUP1)</b>									
				Sample: IK00258-01		Prepared & Analyzed: 11/10/25			
Alkalinity - carbonate as CaCO3	< 10	mg/L							10

QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Duplicate (B547830-DUP1)</b>				Sample: IK00258-01		Prepared & Analyzed: 11/10/25			
Alkalinity - bicarbonate as CaCO3	250	mg/L			250			0	10
<b><u>Batch B547957 - No Prep - SM 2320 B-2011</u></b>									
<b>Blank (B547957-BLK1)</b>				Prepared & Analyzed: 11/11/25					
Alkalinity - bicarbonate as CaCO3	2.50	mg/L							
Alkalinity - carbonate as CaCO3	< 2.0	mg/L							
<b>Blank (B547957-BLK2)</b>				Prepared & Analyzed: 11/11/25					
Alkalinity - carbonate as CaCO3	< 2.0	mg/L							
Alkalinity - bicarbonate as CaCO3	2.50	mg/L							
<b>Blank (B547957-BLK3)</b>				Prepared & Analyzed: 11/11/25					
Alkalinity - carbonate as CaCO3	< 2.0	mg/L							
Alkalinity - bicarbonate as CaCO3	2.50	mg/L							
<b>Duplicate (B547957-DUP3)</b>				Sample: IK01117-07		Prepared & Analyzed: 11/11/25			
Alkalinity - carbonate as CaCO3	< 10	mg/L			ND				10
Alkalinity - bicarbonate as CaCO3	288	mg/L			288			0	10
<b><u>Batch B548058 - No Prep - SM 4500-F C-2011</u></b>									
<b>Calibration Blank (B548058-CCB1)</b>				Prepared & Analyzed: 11/12/25					
Fluoride	0.00600	mg/L							
<b>Calibration Check (B548058-CCV1)</b>				Prepared & Analyzed: 11/12/25					
Fluoride	0.701	mg/L					90-110		
<b>Matrix Spike (B548058-MS1)</b>				Sample: IK00258-01		Prepared & Analyzed: 11/12/25			
Fluoride	1.28	mg/L		1.000	0.270	101	80-120		
<b>Matrix Spike (B548058-MS2)</b>				Sample: IK00258-10		Prepared & Analyzed: 11/12/25			
Fluoride	1.12	mg/L		1.000	ND	112	80-120		
<b>Matrix Spike Dup (B548058-MSD1)</b>				Sample: IK00258-01		Prepared & Analyzed: 11/12/25			
Fluoride	1.31	mg/L		1.000	0.270	104	80-120	3	20
<b>Matrix Spike Dup (B548058-MSD2)</b>				Sample: IK00258-10		Prepared & Analyzed: 11/12/25			
Fluoride	1.10	mg/L		1.000	ND	110	80-120	1	20

## NOTES

Specifications regarding method revisions and method modifications used for analysis are available upon request. Please contact your project manager.

\* Not a TNI accredited analyte

### Certifications

CHI - McHenry, IL - 4314-A W. Crystal Lake Road, McHenry, IL 60050

TNI Accreditation for Drinking Water and Wastewater Fields of Testing through IL EPA Accreditation No. 100279  
Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory Registry No. 17556

PIA - Peoria, IL - 2231 W. Altorfer Drive, Peoria, IL 61615

TNI Accreditation for Drinking Water, Wastewater, Solid and Hazardous Material Fields of Testing through IL EPA Accreditation No. 100230

Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory Registry No. 17553

Drinking Water Certifications/Accreditations: Iowa (240); Kansas (E-10338); Missouri (870)

Wastewater Certifications/Accreditations: Arkansas (88-0677); Iowa (240); Kansas (E-10338)

Solid and Hazardous Material Certifications/Accreditations: Arkansas (88-0677); Iowa (240); Kansas (E-10338)

SPMO - Springfield, MO - 1805 W Sunset Street, Springfield, MO 65807

USEPA DMR-QA Program

STL - Hazelwood, MO - 944 Anglum Rd, Hazelwood, MO 63042

TNI Accreditation for Wastewater, Solid and Hazardous Material Fields of Testing through KS KDHE Certification No. E-10389

TNI Accreditation for Wastewater, Solid and Hazardous Material Fields of Testing through IL EPA Accreditation No. - 200080

Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory, Registry No. 171050

Missouri Department of Natural Resources - Certificate of Approval for Microbiological Laboratory Service - No. 1050

### Qualifiers

- M Analyte failed to meet the required acceptance criteria for duplicate analysis.
- Q4 The matrix spike recovery result is unusable since the analyte concentration in the sample is greater than four times the spike level. The associated blank spike was acceptable.



Certified by: Diane Billings, Project Manager





1K00258/  
 1K00259

**CHAIN-OF-CUSTODY / Analytical Request Document**

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

<b>Section A</b> Requester Client Information: Company: <b>Vistra Corp-Hennepin</b> Address: <b>13498 E 800th St                  Hennepin, IL 61327</b> Email To: <b>Brian.Voelker@vistracorp.com</b> Phone: <b>(217) 753-8911</b> Fax: Requested Due Date/TAT: <b>10 day</b>		<b>Section B</b> Requested Project Information: Report To: <b>Brian Voelker</b> Copy To: <b>Jason Stuckey@vistracorp.com</b> <b>Michael.Olle@vistracorp.com</b> <b>Robert.Johnson@vistracorp.com</b> Purchase Order No.: Project Name: Project Number:		<b>Section C</b> Invoicing Information: Attention: <b>Brian Voelker</b> Company Name: <b>Vistra Corp</b> Address: <b>see Section A</b> State: <b>IL</b>												
<b>Section D</b> Requested Client Information: Valid Matrix Codes: WASTE WATER BY WWT WASTE WATER P PRODUCT LIQUID OIL WASTE AIR TOXIC		Matrix Code (see left codes to left) SAMPLE TYPE (G-CRAB C-COMP) DATE TIME COLLECTED SAMPLE TEMP AT COLLECTION # OF CONTAINERS Unpreserved H <sub>2</sub> O <sub>2</sub> HNO <sub>3</sub> HCl NaOH Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> Methanol Other		Requested Analysis Filtered (Y/N) HEN-257-802 HEN-257-803 HEN-257-804 HEN-81-801 HEN-845-802-805 HEN-845-803 HEN-845-804 HEN-WPCP-East HEN-WPCP-West Residual Chlorine (Y/N) Project No./ Lab ID.												
ITEM #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Matrix Code	WWT	WWT	WWT	WWT	WWT	WWT	WWT	WWT	WWT	WWT	WWT	WWT	WWT	WWT	WWT	WWT
Date	3-NOV-25	3-NOV-25	3-NOV-25	3-NOV-25	3-NOV-25	3-NOV-25	3-NOV-25	3-NOV-25	3-NOV-25	3-NOV-25	3-NOV-25	3-NOV-25	3-NOV-25	3-NOV-25	3-NOV-25	3-NOV-25
Time	14:36	16:26	16:26	12:10	12:10	12:10	12:10	12:10	12:10	12:10	12:10	12:10	12:10	12:10	12:10	12:10
Temp																
Containers	13	3	3	7	7	7	7	7	7	7	7	7	7	7	7	7
Unpreserved				X	X	X	X	X	X	X	X	X	X	X	X	X
H <sub>2</sub> O <sub>2</sub>																
HNO <sub>3</sub>																
HCl																
NaOH																
Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>																
Methanol																
Other																
Analysis Test																
Temp in °C																
Received on																
Isolator (Y/N)																
Custody Sealed (Y/N)																
Sample Intact (Y/N)																
ADDITIONAL COMMENTS <b>HEN-25Q4 Rev 0</b> RELINQUISHED BY / AFFILIATION: <b>ANASTASIA M</b> DATE: <b>3-NOV-25 17:37</b> ACCEPTED BY / AFFILIATION: <b>ANASTASIA M</b> DATE: <b>3-NOV-25 17:37</b> SAMPLER NAME AND SIGNATURE: <b>ANASTASIA M</b> PRINT Name of SAMPLER: <b>Anastasia Moor</b> DATE Signed: <b>11/03/25</b> SIGNATURE of SAMPLER: <i>Anastasia Moor</i>																

ENV-FRM-25-08-0098 v05\_Sample Condition Upon Receipt

Client Name: \_\_\_\_\_ Work Order #: 1K00258 / 259 Completed by / Date: \_\_\_\_\_

Custody seal on cooler/box present and seal intact:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Chain of Custody (CoC) Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No	
CoC is Legible:	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Sampler Name Present on CoC:	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Sampler Signature Present on CoC:	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Sample Collection Date Present on CoC:	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Sample Collection Time Present on CoC:	<input type="checkbox"/> Yes <input type="checkbox"/> No	
CoC Relinquished by Client:	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Unique Sample ID's Present on CoC:	<input type="checkbox"/> Yes <input type="checkbox"/> No	
CoC and Sample Container Labels Match:	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Sample chilling process started prior to receipt: If yes, what type of ice:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> Wet <input type="checkbox"/> Blue	
Samples received within temperature compliance: ( $\leq 6^{\circ}\text{C}$ , but above freezing or received same day collected and chill process started prior to receipt)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Container(s) Received Intact:	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Containers Received Labeled and Labels are Legible:	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Appropriate Bottles Received for Analysis Requested:	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Sufficient Sample Volume Received:	<input type="checkbox"/> Yes <input type="checkbox"/> No	
USDA Regulated Soil: Country of Origin: _____ State of Origin: _____	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Trip Blank(s) Received: If present, are they Listed on CoC:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No	
VOA vials are free of any headspace larger than pea sized bubble (>6mm) – Applies to methods 8260, 624, 524.2 - including THM vials *If headspace is present, note sample ID and # of vials	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
All (Non-Field) Analysis Received Within Hold Times:	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Rush Turn Around Time Requested or Time Sensitive Analysis:	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Short Hold Time Analysis (48 Hours or Less):	<input type="checkbox"/> Yes <input type="checkbox"/> No	

**Client Notification/ Resolution:** \_\_\_\_\_ If checked, please see attached form for additional comments

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments/ Resolution: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

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

WORK ORDER #: 1200258/259 INITIALS:

EB#2 #08 #18D #35 #22D #03R #13 FRB

	-1	-2	-3	-4	-5	-6	-7	-8	-9	-10
<b>Plastic Bottles</b>										
P, U, 1000ml - Total +D	2	2	1	1	1	1	2			
P, U, 250ml	1	1	1			1				
P, U, 500ml - Total			1							
P, U, 500ml - Diss			1	1	1	1				
P, 250ml/500ml H <sub>2</sub> SO <sub>4</sub> - Total	1	1					1			
P, 250ml/500ml H <sub>2</sub> SO <sub>4</sub> - Diss										
P, 250ml/500ml NaOH	1	1	1	1	1	1	1			
P, 250ml/500ml HNO <sub>3</sub> - Total	1	1	1	1	1	1	1			
P, 250ml/500ml HNO <sub>3</sub> - Diss	1	1					1			
P, 500ml NaOH + ZnAc										
P, U, 150ml/4oz TC										
P, 2.5L HNO <sub>3</sub>										
P, U, 2.5L										
P, U, 50ml										
S, P, 120ml Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>										
P, 16oz - Soil/Sludge										

<b>Amber Glass Bottles - Vials</b>										
A, G, U, 1000ml										
A, G, 1000ml HCl										
A, G, 1000ml MeCl <sub>2</sub>										
A, G, 500ml H <sub>2</sub> SO <sub>4</sub>										
A, G, U, 500ml										
A, G, U, 250ml H <sub>2</sub> SO <sub>4</sub>	1	1		1	1		1			
A, G, U, 250ml										
A, V, 40ml H <sub>2</sub> SO <sub>4</sub>										
A, V, U, 60ml										

<b>Clear Glass Bottles - Soil/Sludge Jars - Vials</b>										
C, G, 1000ml HCl										
C, G, U, 1000ml										
C, G, U, 250ml - LLHg										
C, G, U, 250ml - LLHg - FB										
C, G, 16oz - Soil Jar										
C, G, 9oz - Soil Jar										
C, G, 4oz - Soil Jar										
C, G, 2oz - Soil Jar										
C, V, 40ml TSP										
C, V, 40ml HCl	3	3	3			3		3		
C, V, U, 40ml										
C, V, 40ml Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>										
C, V, 40ml MeOH										
C, V, 40ml Sodium Bisulfate										
C, V, U, 60ml										

<b>Client Supplied</b>										
Description	P, 1000ml Rad HNO <sub>3</sub> - (2) fractions									







ENV-FRM-PEOP-0098 v05 Sample Condition Upon Receipt

Client Name: Vistra Corp-Hennerin Work Order #: 11400624 Completed by / Date: JDK 11/4/25

Custody seal on cooler/box present and seal intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Chain of Custody (CoC) Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
CoC is Legible:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Sampler Name Present on CoC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Sampler Signature Present on CoC:	<input type="checkbox"/> Yes <input type="checkbox"/> No
Sample Collection Date Present on CoC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Sample Collection Time Present on CoC:	<input type="checkbox"/> Yes <input type="checkbox"/> No
CoC Relinquished by Client:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Unique Sample ID's Present on CoC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
CoC and Sample Container Labels Match:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Sample chilling process started prior to receipt: If yes, what type of ice:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/> Wet <input type="checkbox"/> Blue
Samples received within temperature compliance: ( $\leq 6^{\circ}\text{C}$ , but above freezing or received same day collected and chill process started prior to receipt)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Container(s) Received Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Containers Received Labeled and Labels are Legible:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Appropriate Bottles Received for Analysis Requested:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Sufficient Sample Volume Received:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
USDA Regulated Soil: Country of Origin: _____ State of Origin: _____	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Trip Blank(s) Received: If present, are they Listed on CoC:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No
VOA vials are free of any headspace larger than pea sized bubble (>6mm) – Applies to methods 8260, 624, 524.2 - including THM vials If headspace is present, note sample ID and # of vials	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
All (Non-Field) Analysis Received Within Hold Times:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Rush Turn Around Time Requested or Time Sensitive Analysis:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Short Hold Time Analysis (48 Hours or Less):	<input type="checkbox"/> Yes <input type="checkbox"/> No

Client Notification/ Resolution:

If checked, please see attached form for additional comments

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments/ Resolution: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

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

WORK ORDER #:

*11/20/25*

INITIALS:

*JDK*

Plastic Bottles										
	-1	-2	-3	-4	-5	-6	-7	-8	-9	-10
P, U, 1000ml - Total	<i>2</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>					
P, U, 250ml	<i>1</i>	<i>1</i>	<i>1</i>		<i>1</i>					
P, U, 500ml - Total										
P, U, 500ml - Diss		<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>					
P, 250ml/500ml H <sub>2</sub> SO <sub>4</sub> - Total	<i>1</i>									
P, 250ml/500ml H <sub>2</sub> SO <sub>4</sub> - Diss										
P, 250ml/500ml NaOH	<i>1</i>	<i>1</i>	<i>1</i>		<i>1</i>					
P, 250ml/500ml HNO <sub>3</sub> - Total	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>					
P, 250ml/500ml HNO <sub>3</sub> - Diss	<i>1</i>									
P, 500ml NaOH + ZnAc										
P, U, 150ml/4oz TC										
P, 2.5L HNO <sub>3</sub>										
P, U, 2.5L										
P, U, 50ml										
S, P, 120ml Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>										
P, 16oz - Soil/Sludge										
Amber Glass Bottles - Vials										
A, G, U, 1000ml										
A, G, 1000ml HCl										
A, G, 1000ml MeCl <sub>2</sub>										
A, G, 500ml H <sub>2</sub> SO <sub>4</sub>										
A, G, U, 500ml										
A, G, U, 250ml H <sub>2</sub> SO <sub>4</sub>	<i>1</i>									
A, G, U, 250ml										
A, V, 40ml H <sub>2</sub> SO <sub>4</sub>										
A, V, U, 60ml										
Clear Glass Bottles - Soil/Sludge Jars - Vials										
C, G, 1000ml HCl										
C, G, U, 1000ml										
C, G, U, 250ml - LLHg										
C, G, U, 250ml - LLHg - FB										
C, G, 16oz - Soil Jar										
C, G, 9oz - Soil Jar										
C, G, 4oz - Soil Jar										
C, G, 2oz - Soil Jar										
C, V, 40ml TSP										
C, V, 40ml HCl	<i>3</i>	<i>3</i>	<i>3</i>		<i>3</i>					
C, V, U, 40ml										
C, V, 40ml Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>										
C, V, 40ml MeOH										
C, V, 40ml Sodium Bisulfate										
C, V, U, 60ml										
Client Supplied										
Description										







**ENV-FRM-REQ-0098 v05\_Sample Condition Upon Receipt**

Client Name: Ustra Work Order #: 1K0117 Completed by / Date: NS 11625

Custody seal on cooler/box present and seal intact:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Chain of Custody (CoC) Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
CoC is Legible:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Sampler Name Present on CoC:	<input type="checkbox"/> Yes <input type="checkbox"/> No
Sampler Signature Present on CoC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Sample Collection Date Present on CoC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Sample Collection Time Present on CoC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
CoC Relinquished by Client:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Unique Sample ID's Present on CoC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
CoC and Sample Container Labels Match:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Sample chilling process started prior to receipt: If yes, what type of ice:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/> Wet <input type="checkbox"/> Blue
Samples received within temperature compliance: (≤ 6°C, but above freezing or received same day collected and chill process started prior to receipt)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Container(s) Received Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Containers Received Labeled and Labels are Legible:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Appropriate Bottles Received for Analysis Requested:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Sufficient Sample Volume Received:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
USDA Regulated Soil: Country of Origin: _____ State of Origin: _____	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Trip Blank(s) Received: If present, are they Listed on CoC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No
VOA vials are free of any headspace larger than pea sized bubble (>6mm) – Applies to methods 8260, 624, 524.2 - including THM vials *If headspace is present, note sample ID and # of vials	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
All (Non-Field) Analysis Received Within Hold Times:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Rush Turn Around Time Requested or Time Sensitive Analysis:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Short Hold Time Analysis (48 Hours or Less):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

**Client Notification/ Resolution:** \_\_\_\_\_ If checked, please see attached form for additional comments

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments/ Resolution: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

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





**Pace Analytical Services, LLC**  
2231 W. Altorfer Drive  
Peoria, IL 61615  
(800)752-6651

December 03, 2025

Brian Voelker  
Vistra - Hennepin  
13498 E 800th Street  
Hennepin, IL 61327

Dear Brian Voelker:

Please find enclosed the analytical results for the sample(s) the laboratory received. All testing is performed according to our current TNI accreditations unless otherwise noted. This report cannot be reproduced, except in full, without the written permission of Pace Analytical Services, LLC.

If you have any questions regarding your report, please contact your project manager. Quality and timely data is of the utmost importance to us.

Pace Analytical Services appreciates the opportunity to provide you with analytical expertise. We are always trying to improve our customer service and we welcome you to contact the General Manager, Lisa Grant, with any feedback you have about your experience with our laboratory at 309-683-1764 or [lisa.grant@pacelabs.com](mailto:lisa.grant@pacelabs.com).

Sincerely,

A handwritten signature in black ink that reads "Diane Billings". The signature is written in a cursive, flowing style.

Diane Billings  
Project Manager

**ANALYTICAL RESULTS**

**Sample:** IJ05421-01  
**Name:** 27  
**Matrix:** Ground Water - Grab

**Sampled:** 10/28/25 12:47  
**Received:** 10/29/25 07:31

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	6.49	pCi/L			1	2.7	11/18/25 16:58	PACE	904.0 903.0

**Sample:** IJ05421-02  
**Name:** 32  
**Matrix:** Ground Water - Grab

**Sampled:** 10/28/25 11:25  
**Received:** 10/29/25 07:31

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	2.64	pCi/L			1	2.51	11/18/25 16:58	PACE	904.0 903.0

**Sample:** IJ05421-03  
**Name:** 34  
**Matrix:** Ground Water - Grab

**Sampled:** 10/28/25 13:48  
**Received:** 10/29/25 07:31

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	2.42	pCi/L			1	1.44	11/18/25 16:58	PACE	904.0 903.0

**Sample:** IJ05421-04  
**Name:** 21R  
**Matrix:** Ground Water - Grab

**Sampled:** 10/28/25 14:28  
**Received:** 10/29/25 07:31

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	1.26 J	pCi/L			1	1.97	11/18/25 16:58	PACE	904.0 903.0

**ANALYTICAL RESULTS**

**Sample:** IJ05421-05  
**Name:** 27 Dup  
**Matrix:** Ground Water - Grab

**Sampled:** 10/28/25 12:47  
**Received:** 10/29/25 07:31

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	1.39	pCi/L			1	1.37	11/18/25 16:58	PACE	904.0 903.0

**Sample:** IJ05421-06  
**Name:** EB #1  
**Matrix:** Ground Water - Grab

**Sampled:** 10/28/25 14:35  
**Received:** 10/29/25 07:31

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	0.282 U	pCi/L			1	1.22	11/18/25 16:58	PACE	904.0 903.0

**Sample:** IJ05643-01  
**Name:** 12  
**Matrix:** Ground Water - Grab

**Sampled:** 10/29/25 11:23  
**Received:** 10/29/25 16:11

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	0.259 U	pCi/L			1	2.59	11/18/25 16:58	PACE	904.0 903.0

**Sample:** IJ05643-02  
**Name:** 23  
**Matrix:** Ground Water - Grab

**Sampled:** 10/29/25 12:49  
**Received:** 10/29/25 16:11

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	0.510 U	pCi/L			1	1.32	11/18/25 16:58	PACE	904.0 903.0

**ANALYTICAL RESULTS**

**Sample:** IJ05643-03  
**Name:** 46  
**Matrix:** Ground Water - Grab

**Sampled:** 10/29/25 13:17  
**Received:** 10/29/25 16:11

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	0.886 J	pCi/L			1	1.43	11/18/25 16:58	PACE	904.0 903.0

**Sample:** IJ05643-04  
**Name:** 49  
**Matrix:** Ground Water - Grab

**Sampled:** 10/29/25 14:11  
**Received:** 10/29/25 16:11

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	0.0482 U	pCi/L			1	2.3	11/18/25 16:58	PACE	904.0 903.0

**Sample:** IJ05643-05  
**Name:** 51  
**Matrix:** Ground Water - Grab

**Sampled:** 10/29/25 11:35  
**Received:** 10/29/25 16:11

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	1.00 J	pCi/L			1	1.15	11/18/25 16:58	PACE	904.0 903.0

**Sample:** IK00259-01  
**Name:** 03R  
**Matrix:** Ground Water - Grab

**Sampled:** 11/03/25 14:33  
**Received:** 11/03/25 17:37

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	0.473 J	pCi/L			1	1.03	11/17/25 22:29	PACE	904.0 903.0

**ANALYTICAL RESULTS**

**Sample:** IK00259-02  
**Name:** 08  
**Matrix:** Ground Water - Grab

**Sampled:** 11/03/25 14:10  
**Received:** 11/03/25 17:37

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	0.871	pCi/L			1	0.739	11/17/25 22:29	PACE	904.0 903.0

**Sample:** IK00259-03  
**Name:** 13  
**Matrix:** Ground Water - Grab

**Sampled:** 11/03/25 13:04  
**Received:** 11/03/25 17:37

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	0.954	pCi/L			1	0.767	11/17/25 22:29	PACE	904.0 903.0

**Sample:** IK00259-04  
**Name:** 18D  
**Matrix:** Ground Water - Grab

**Sampled:** 11/03/25 16:05  
**Received:** 11/03/25 17:37

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	1.13	pCi/L			1	0.751	11/17/25 22:29	PACE	904.0 903.0

**Sample:** IK00259-05  
**Name:** 22  
**Matrix:** Ground Water - Grab

**Sampled:** 11/03/25 13:24  
**Received:** 11/03/25 17:37

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	1.32	pCi/L			1	1.24	11/17/25 22:29	PACE	904.0 903.0

**ANALYTICAL RESULTS**

**Sample:** IK00259-06  
**Name:** 22D  
**Matrix:** Ground Water - Grab

**Sampled:** 11/03/25 12:10  
**Received:** 11/03/25 17:37

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	1.59	pCi/L			1	0.756	11/17/25 22:29	PACE	904.0 903.0

**Sample:** IK00259-07  
**Name:** 35  
**Matrix:** Ground Water - Grab

**Sampled:** 11/03/25 11:17  
**Received:** 11/03/25 17:37

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	0.960 J	pCi/L			1	0.992	11/17/25 22:29	PACE	904.0 903.0

**Sample:** IK00259-08  
**Name:** EB #2  
**Matrix:** Ground Water - Grab

**Sampled:** 11/03/25 14:36  
**Received:** 11/03/25 17:37

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	0.957 J	pCi/L			1	1.36	11/17/25 22:29	PACE	904.0 903.0

**Sample:** IK00259-09  
**Name:** 22D Dup  
**Matrix:** Ground Water - Grab

**Sampled:** 11/03/25 12:10  
**Received:** 11/03/25 17:37

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	1.85	pCi/L			1	1.02	11/17/25 22:29	PACE	904.0 903.0

**ANALYTICAL RESULTS**

**Sample:** IK01122-01  
**Name:** 07  
**Matrix:** Ground Water - Grab

**Sampled:** 11/05/25 12:20  
**Received:** 11/05/25 15:38

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	0.747 J	pCi/L			1	0.846	11/19/25 09:10	PACE	904.0 903.0

**Sample:** IK01122-02  
**Name:** 08D  
**Matrix:** Ground Water - Grab

**Sampled:** 11/05/25 13:51  
**Received:** 11/05/25 15:38

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	0.146 U	pCi/L			1	1.15	11/19/25 09:10	PACE	904.0 903.0

**Sample:** IK01122-03  
**Name:** 50  
**Matrix:** Ground Water - Grab

**Sampled:** 11/05/25 10:50  
**Received:** 11/05/25 15:38

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	0.632 J	pCi/L			1	0.692	11/19/25 09:10	PACE	904.0 903.0

**Sample:** IK01122-04  
**Name:** 52  
**Matrix:** Ground Water - Grab

**Sampled:** 11/05/25 12:13  
**Received:** 11/05/25 15:38

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	0.441 J	pCi/L			1	0.832	11/19/25 09:10	PACE	904.0 903.0

**ANALYTICAL RESULTS**

**Sample:** IK01122-05  
**Name:** 54  
**Matrix:** Ground Water - Grab

**Sampled:** 11/05/25 11:18  
**Received:** 11/05/25 15:38

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	0.630 J	pCi/L			1	0.772	11/19/25 09:10	PACE	904.0 903.0

**Sample:** IK01122-06  
**Name:** Field Blank  
**Matrix:** Ground Water - Grab

**Sampled:** 11/05/25 14:06  
**Received:** 11/05/25 15:38

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	0.106 U	pCi/L			1	0.926	11/19/25 09:10	PACE	904.0 903.0

**Sample:** IK01122-07  
**Name:** 54 Dup  
**Matrix:** Ground Water - Grab

**Sampled:** 11/05/25 11:18  
**Received:** 11/05/25 15:38

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	0.248 U	pCi/L			1	0.747	11/19/25 09:10	PACE	904.0 903.0

**Sample:** IK01448-01  
**Name:** 18S  
**Matrix:** Ground Water - Grab

**Sampled:** 11/04/25 11:09  
**Received:** 11/04/25 16:57

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	0.485 J	pCi/L			1	0.871	11/19/25 09:10	PACE	904.0 903.0

**ANALYTICAL RESULTS**

**Sample:** IK01448-02  
**Name:** 45S  
**Matrix:** Ground Water - Grab

**Sampled:** 11/04/25 15:02  
**Received:** 11/04/25 16:57

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	1.02	pCi/L			1	0.882	11/19/25 09:10	PACE	904.0 903.0

**Sample:** IK01448-03  
**Name:** 47  
**Matrix:** Ground Water - Grab

**Sampled:** 11/04/25 12:31  
**Received:** 11/04/25 16:57

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	0.829 J	pCi/L			1	0.862	11/19/25 17:17	PACE	904.0 903.0

**Sample:** IK01448-04  
**Name:** 45S Dup  
**Matrix:** Ground Water - Grab

**Sampled:** 11/04/25 15:02  
**Received:** 11/04/25 16:57

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	0.309 J	pCi/L			1	0.78	11/19/25 17:17	PACE	904.0 903.0

## NOTES

Specifications regarding method revisions and method modifications used for analysis are available upon request. Please contact your project manager.

\* Not a TNI accredited analyte

### Certifications

CHI - McHenry, IL - 4314-A W. Crystal Lake Road, McHenry, IL 60050

TNI Accreditation for Drinking Water and Wastewater Fields of Testing through IL EPA Accreditation No. 100279  
Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory Registry No. 17556

PIA - Peoria, IL - 2231 W. Altorfer Drive, Peoria, IL 61615

TNI Accreditation for Drinking Water, Wastewater, Solid and Hazardous Material Fields of Testing through IL EPA Accreditation No. 100230

Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory Registry No. 17553

Drinking Water Certifications/Accreditations: Iowa (240); Kansas (E-10338); Missouri (870)

Wastewater Certifications/Accreditations: Arkansas (88-0677); Iowa (240); Kansas (E-10338)

Solid and Hazardous Material Certifications/Accreditations: Arkansas (88-0677); Iowa (240); Kansas (E-10338)

SPMO - Springfield, MO - 1805 W Sunset Street, Springfield, MO 65807

USEPA DMR-QA Program

STL - Hazelwood, MO - 944 Anglum Rd, Hazelwood, MO 63042

TNI Accreditation for Wastewater, Solid and Hazardous Material Fields of Testing through KS KDHE Certification No. E-10389

TNI Accreditation for Wastewater, Solid and Hazardous Material Fields of Testing through IL EPA Accreditation No. - 200080

Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory, Registry No. 171050

Missouri Department of Natural Resources - Certificate of Approval for Microbiological Laboratory Service - No. 1050



Certified by: Diane Billings, Project Manager

# ANALYTICAL REPORT

November 19, 2025

## Pace IR - Peoria, IL

Sample Delivery Group: L1912911  
Samples Received: 10/30/2025  
Project Number: IJ05421  
Description:  
  
Report To: Diane Billings  
2231 W. Altorfer Drive  
Peoria, IL 61615

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Entire Report Reviewed By:



Ashley N Pullium  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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# SAMPLE SUMMARY

Collected by  
 Collected date/time  
 Received date/time

## IJ05421-01 L1912911-01

10/28/25 12:47  
 10/30/25 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2637667	1	11/11/25 06:24	11/18/25 16:58	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2632993	1	11/04/25 08:30	11/18/25 16:58	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2632993	1	11/04/25 08:30	11/06/25 10:41	ZRG	Mt. Juliet, TN



Collected by  
 Collected date/time  
 Received date/time

## IJ05421-02 L1912911-02

10/28/25 11:25  
 10/30/25 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2637667	1	11/11/25 06:24	11/18/25 16:58	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2632993	1	11/04/25 08:30	11/18/25 16:58	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2632993	1	11/04/25 08:30	11/06/25 10:41	ZRG	Mt. Juliet, TN

Collected by  
 Collected date/time  
 Received date/time

## IJ05421-03 L1912911-03

10/28/25 13:48  
 10/30/25 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2637667	1	11/11/25 06:24	11/18/25 16:58	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2632993	1	11/04/25 08:30	11/18/25 16:58	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2632993	1	11/04/25 08:30	11/06/25 10:41	ZRG	Mt. Juliet, TN

Collected by  
 Collected date/time  
 Received date/time

## IJ05421-04 L1912911-04

10/28/25 14:28  
 10/30/25 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2637667	1	11/11/25 06:24	11/18/25 16:58	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2633361	1	11/04/25 13:05	11/18/25 16:58	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2633361	1	11/04/25 13:05	11/06/25 09:35	ZRG	Mt. Juliet, TN

Collected by  
 Collected date/time  
 Received date/time

## IJ05421-05 L1912911-05

10/28/25 12:47  
 10/30/25 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2637667	1	11/11/25 06:24	11/18/25 16:58	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2633361	1	11/04/25 13:05	11/18/25 16:58	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2633361	1	11/04/25 13:05	11/06/25 09:35	ZRG	Mt. Juliet, TN

Collected by  
 Collected date/time  
 Received date/time

## IJ05421-06 L1912911-06

10/28/25 14:35  
 10/30/25 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2637667	1	11/11/25 06:24	11/18/25 16:58	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2633361	1	11/04/25 13:05	11/18/25 16:58	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2633361	1	11/04/25 13:05	11/06/25 09:35	ZRG	Mt. Juliet, TN

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Ashley N Pullium  
Project Manager

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

IJ05421-01 ATTACHMENT B. SAMPLE RESULTS - 01

845 QUARTERLY REPORT - QUARTER 4, 2025  
 Collected date: 11/19/25 13:16  
 HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4 L1912911

HEN-845-802-805

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	3.48		1.70	1.78	2.69	0.837	11/18/2025 16:58	<a href="#">WG2637667</a>
(T) Barium	63.1					30.0-110	11/18/2025 16:58	<a href="#">WG2637667</a>
(T) Yttrium	101					30.0-110	11/18/2025 16:58	<a href="#">WG2637667</a>

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	6.49		1.85	2.70	11/18/2025 16:58	<a href="#">WG2632993</a>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	3.02		0.737	1.03	0.215	0.0376	11/06/2025 10:41	<a href="#">WG2632993</a>
(T) Barium-133	84.1					30.0-110	11/06/2025 10:41	<a href="#">WG2632993</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

IJ05421-07

ATTACHMENT B.

# SAMPLE RESULTS - 02

845 QUARTERLY REPORT - QUARTER 4, 2025

L1912911

Collected date: 11/19/25 11:25  
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4  
HEN-845-802-805

## Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	2.14	J	1.52	1.58	2.49	0.777	11/18/2025 16:58	<a href="#">WG2637667</a>
(T) Barium	68.9					30.0-110	11/18/2025 16:58	<a href="#">WG2637667</a>
(T) Yttrium	98.7					30.0-110	11/18/2025 16:58	<a href="#">WG2637667</a>

1 Cp

2 Tc

3 Ss

## Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	2.64		1.55	2.51	11/18/2025 16:58	<a href="#">WG2632993</a>

4 Cn

5 Sr

## Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.496		0.311	0.404	0.276	0.0716	11/06/2025 10:41	<a href="#">WG2632993</a>
(T) Barium-133	86.9					30.0-110	11/06/2025 10:41	<a href="#">WG2632993</a>

6 Qc

7 Gl

8 Al

9 Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.890	J	0.854	0.897	1.42	0.443	11/18/2025 16:58	<a href="#">WG2637667</a>
(T) Barium	68.9					30.0-110	11/18/2025 16:58	<a href="#">WG2637667</a>
(T) Yttrium	107					30.0-110	11/18/2025 16:58	<a href="#">WG2637667</a>

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	2.42		1.00	1.44	11/18/2025 16:58	<a href="#">WG2632993</a>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	1.53		0.525	0.679	0.215	0.0376	11/06/2025 10:41	<a href="#">WG2632993</a>
(T) Barium-133	81.4					30.0-110	11/06/2025 10:41	<a href="#">WG2632993</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.692	<u>U</u>	1.13	1.17	1.94	0.597	11/18/2025 16:58	<a href="#">WG2637667</a>
(T) Barium	69.8					30.0-110	11/18/2025 16:58	<a href="#">WG2637667</a>
(T) Yttrium	96.1					30.0-110	11/18/2025 16:58	<a href="#">WG2637667</a>

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.26	<u>J</u>	1.18	1.97	11/18/2025 16:58	<a href="#">WG2633361</a>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.573		0.333	0.425	0.316	0.0978	11/06/2025 09:35	<a href="#">WG2633361</a>
(T) Barium-133	86.9					30.0-110	11/06/2025 09:35	<a href="#">WG2633361</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.646	J	0.800	0.837	1.35	0.417	11/18/2025 16:58	<a href="#">WG2637667</a>
(T) Barium	65.1					30.0-110	11/18/2025 16:58	<a href="#">WG2637667</a>
(T) Yttrium	96.5					30.0-110	11/18/2025 16:58	<a href="#">WG2637667</a>

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.39		0.880	1.37	11/18/2025 16:58	<a href="#">WG2633361</a>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.746		0.367	0.497	0.237	0.0513	11/06/2025 09:35	<a href="#">WG2633361</a>
(T) Barium-133	81.2					30.0-110	11/06/2025 09:35	<a href="#">WG2633361</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.282	<u>U</u>	0.688	0.711	1.19	0.366	11/18/2025 16:58	<a href="#">WG2637667</a>
(T) Barium	66.5					30.0-110	11/18/2025 16:58	<a href="#">WG2637667</a>
(T) Yttrium	96.9					30.0-110	11/18/2025 16:58	<a href="#">WG2637667</a>

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.282	<u>U</u>	0.697	1.22	11/18/2025 16:58	<a href="#">WG2633361</a>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	-0.0150	<u>U</u>	0.114	0.132	0.272	0.0800	11/06/2025 09:35	<a href="#">WG2633361</a>
(T) Barium-133	86.6					30.0-110	11/06/2025 09:35	<a href="#">WG2633361</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R4302851-1 11/18/25 16:58

Analyte	MB Result pCi/l	MB Qualifier	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-228	-0.312	<u>U</u>	0.396	0.730	0.226
(T) Barium	73.7		73.7		
(T) Yttrium	86.5		86.5		

L191160-04 Original Sample (OS) • Duplicate (DUP)

(OS) L191160-04 11/18/25 16:58 • (DUP) R4302851-5 11/18/25 16:58

Analyte	Original Result pCi/l	Original 2 sigma CE + / -	Original MDA pCi/l	Original Lc pCi/l	DUP Result pCi/l	DUP 2 sigma CE + / -	DUP MDA pCi/l	DUP Lc pCi/l	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-228	1.25	0.691	1.09	0.337	0.627	0.887	1.50	0.470	66.2	0.552	<u>J</u>	20	3
(T) Barium	75.1				73.0	73.0							
(T) Yttrium	94.6				107	107							

Laboratory Control Sample (LCS)

(LCS) R4302851-2 11/18/25 16:58

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	5.01	100	80.0-120	
(T) Barium			60.9		
(T) Yttrium			94.9		

L1911073-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1911073-07 11/18/25 16:58 • (MS) R4302851-3 11/18/25 16:58 • (MSD) R4302851-4 11/18/25 16:58

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-228	16.7	0.0612	18.2	19.1	109	114	1	70.0-130			4.51		20
(T) Barium		70.1			66.4	62.3							
(T) Yttrium		104			91.3	91.4							

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Method Blank (MB)

(MB) R4299156-1 11/06/25 10:41

Analyte	MB Result pCi/l	MB Qualifier	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-226	-0.00896	<u>U</u>	0.0397	0.0793	0.0308
(T) Barium-133	72.8		72.8		

L1912911-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1912911-02 11/06/25 10:41 • (DUP) R4299156-4 11/06/25 10:41

Analyte	Original Result pCi/l	Original 2 sigma CE + / -	Original MDA pCi/l	Original Lc pCi/l	DUP Result pCi/l	DUP 2 sigma CE + / -	DUP MDA pCi/l	DUP Lc pCi/l	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-226	0.496	0.311	0.276	0.0716	0.680	0.449	0.506	0.183	31.2	0.336		20	3
(T) Barium-133	86.9				89.2	89.2							

Laboratory Control Sample (LCS)

(LCS) R4299156-5 11/10/25 11:03

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-226	5.00	5.94	119	80.0-120	
(T) Barium-133			88.1		

L1911117-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1911117-03 11/10/25 19:19 • (MS) R4299156-2 11/06/25 10:41 • (MSD) R4299156-6 11/10/25 19:19

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-226	50.0	1.56	48.2	45.5	93.3	87.9	1	75.0-125			5.76		20
(T) Barium-133		57.1			64.4	76.9							

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R4298668-1 11/06/25 09:34

Analyte	MB Result pCi/l	MB Qualifier	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-226	0.000	<u>U</u>	0.0250	0.0498	0.0182
(T) Barium-133	82.3		82.3		

Laboratory Control Sample (LCS)

(LCS) R4298668-2 11/06/25 09:34

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-226	5.00	5.20	104	80.0-120	
(T) Barium-133			83.8		

L191117-13 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L191117-13 11/06/25 09:34 • (MS) R4298668-3 11/06/25 09:34 • (MSD) R4298668-5 11/06/25 09:34

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-226	50.0	2.11	42.8	43.5	81.4	82.8	1	75.0-125			1.67		20
(T) Barium-133		30.7			50.0	51.0							

L191117-15 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L191117-15 11/06/25 09:34 • (MS) R4298668-4 11/06/25 09:34 • (MSD) R4298668-6 11/06/25 09:34

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-226	50.0	0.586	43.8	39.4	86.3	77.7	1	75.0-125			10.4		20
(T) Barium-133		32.4			32.3	59.3							

1 Cp  
 2 Tc  
 3 Ss  
 4 Cn  
 5 Sr  
 6 Qc  
 7 Gl  
 8 Al  
 9 Sc

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDA	Minimum Detectable Activity.
Rec.	Recovery.
RER	Replicate Error Ratio.
TPU	Total Propagated Uncertainty reported at 2 sigma (counting error plus all measurable variables).
Lc	Decision Level or Critical Level. DOE required Detection limit at a 68% confidence level.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(T)	Tracer - A radioisotope of known concentration added to a solution of chemically equivalent radioisotopes at a known concentration to assist in monitoring the yield of the chemical separation.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
U (Radiochemistry)	Result + Error < MDA.
J (Radiochemistry)	Result < MDA; Result + Error > MDA.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
U	Below Detectable Limits: Indicates that the analyte was not detected.



# ACCREDITATIONS & LOCATIONS

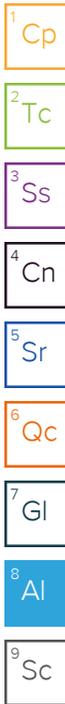
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico <sup>1</sup>	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1,6</sup>	KY90010	South Carolina	84004002
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

\* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.



**SUBCONTRACT ORDER**  
**Transfer Chain of Custody**  
**Pace Analytical Services, LLC**  
**IJ05421**

**E147**

**SENDING LABORATORY**

PDC Laboratories, Inc.  
2231 W Altorfer Dr  
Peoria, IL 61615  
(800) 752-6651

**RECEIVING LABORATORY**

Pace Analytical - Mt Juliet, Tn  
12065 Lebanon Rd  
Mt Juliet, TN 37122  
(615) 758-5858

L1912911

**Sample: IJ05421-01**  
**Name: 27**

**Sampled: 10/28/25 00:00**  
**Matrix: Ground Water**  
**Preservative: HNO3, pH <2**

01

Analysis	Due	Expires	Comments
----------	-----	---------	----------

01-Radium 226/228 combined	11/10/25 16:00	04/26/26 00:00	
----------------------------	----------------	----------------	--

**Sample: IJ05421-02**  
**Name: 32**

**Sampled: 10/28/25 00:00**  
**Matrix: Ground Water**  
**Preservative: HNO3, pH <2**

02

Analysis	Due	Expires	Comments
----------	-----	---------	----------

01-Radium 226/228 combined	11/10/25 16:00	04/26/26 00:00	
----------------------------	----------------	----------------	--

**Sample: IJ05421-03**  
**Name: 34**

**Sampled: 10/28/25 00:00**  
**Matrix: Ground Water**  
**Preservative: HNO3, pH <2**

03

Analysis	Due	Expires	Comments
----------	-----	---------	----------

01-Radium 226/228 combined	11/10/25 16:00	04/26/26 00:00	
----------------------------	----------------	----------------	--

**Sample: IJ05421-04**  
**Name: 21R**

**Sampled: 10/28/25 00:00**  
**Matrix: Ground Water**  
**Preservative: HNO3, pH <2**

04

Analysis	Due	Expires	Comments
----------	-----	---------	----------

01-Radium 226/228 combined	11/10/25 16:00	04/26/26 00:00	
----------------------------	----------------	----------------	--

**Sample: IJ05421-05**  
**Name: 27 Dup**

**Sampled: 10/28/25 00:00**  
**Matrix: Ground Water**  
**Preservative: HNO3, pH <2**

05

Analysis	Due	Expires	Comments
----------	-----	---------	----------

01-Radium 226/228 combined	11/10/25 16:00	04/26/26 00:00	
----------------------------	----------------	----------------	--

**SUBCONTRACT ORDER**  
**Transfer Chain of Custody**

**Pace Analytical Services, LLC**  
**IJ05421**

*U197911*

**SENDING LABORATORY**

PDC Laboratories, Inc.  
 2231 W Altorfer Dr  
 Peoria, IL 61615  
 (800) 752-6651

**RECEIVING LABORATORY**

Pace Analytical - Mt Juliet, Tn  
 12065 Lebanon Rd  
 Mt Juliet, TN 37122  
 (615) 758-5858

**Sample: IJ05421-06**  
**Name: EB #1**

**Sampled: 10/28/25 00:00**  
**Matrix: Ground Water**  
**Preservative: HNO3, pH <2**

*04*

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	11/10/25 16:00	04/26/26 00:00	

*8855 8761 5050*

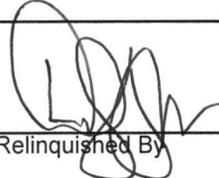
**Sample Receipt Checklist**

COC Seal Present/Intact:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NP	If Applicable	<input type="checkbox"/> Y <input type="checkbox"/> N
COC Signed/Accurate:	<input type="checkbox"/> Y <input type="checkbox"/> N	VOR Zero Headspace:	<input type="checkbox"/> Y <input type="checkbox"/> N
Bottles arrive intact:	<input type="checkbox"/> Y <input type="checkbox"/> N	Pres. Correct/Check:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Correct bottles used:	<input type="checkbox"/> Y <input type="checkbox"/> N	Condition:	<input type="checkbox"/> NCF <input checked="" type="checkbox"/> OK
Sufficient volume sent:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<i>TIA9 10.6 ± 0 = 10.6</i>	
RA Screen <0.5 nR/hr:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N		

Please email results to Diane Billings at [diane.billings@pacelabs.com](mailto:diane.billings@pacelabs.com)

Date Shipped: 10/29/25 Total # of Containers: 12 Sample Origin (State): IL PO #: \_\_\_\_\_

Turn-Around Time Requested  NORMAL  RUSH Date Results Needed: \_\_\_\_\_

 Relinquished By	<u>10/29/25 1115</u> Date/Time	<u>G. Roman</u> Received By	<u>10-30-25/ 0830</u> Date/Time	Sample Temperature Upon Receipt	_____ °C
				Sample(s) Received on Ice	Y or N
Relinquished By	Date/Time	Received By	Date/Time	Proper Bottles Received in Good Condition	Y or N
				Bottles Filled with Adequate Volume	Y or N
				Samples Received Within Hold Time	Y or N
Relinquished By	Date/Time	Received By	Date/Time	Date/Time Taken From Sample Bottle	Y or N

# ANALYTICAL REPORT

November 19, 2025

## Pace IR - Peoria, IL

Sample Delivery Group: L1914367  
Samples Received: 11/04/2025  
Project Number: IJ05643  
Description: IJ05643

Report To: Diane Billings  
2231 W. Altorfer Drive  
Peoria, IL 61615

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Entire Report Reviewed By:



Ashley N Pullium  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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# SAMPLE SUMMARY

## IJ05643-01 L1914367-01

Collected by  
 Collected date/time 10/29/25 11:23  
 Received date/time 11/04/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2637667	1	11/11/25 06:24	11/18/25 16:58	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2637178	1	11/10/25 11:11	11/18/25 16:58	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2637178	1	11/10/25 11:11	11/12/25 09:51	RGT	Mt. Juliet, TN



## IJ05643-02 L1914367-02

Collected by  
 Collected date/time 10/29/25 12:49  
 Received date/time 11/04/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2637667	1	11/11/25 06:24	11/18/25 16:58	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2637178	1	11/10/25 11:11	11/18/25 16:58	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2637178	1	11/10/25 11:11	11/12/25 09:51	RGT	Mt. Juliet, TN

## IJ05643-03 L1914367-03

Collected by  
 Collected date/time 10/29/25 13:17  
 Received date/time 11/04/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2637667	1	11/11/25 06:24	11/18/25 16:58	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2637178	1	11/10/25 11:11	11/18/25 16:58	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2637178	1	11/10/25 11:11	11/12/25 09:51	RGT	Mt. Juliet, TN

## IJ05643-04 L1914367-04

Collected by  
 Collected date/time 10/29/25 14:11  
 Received date/time 11/04/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2637667	1	11/11/25 06:24	11/18/25 16:58	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2637178	1	11/10/25 11:11	11/18/25 16:58	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2637178	1	11/10/25 11:11	11/12/25 09:51	RGT	Mt. Juliet, TN

## IJ05643-05 L1914367-05

Collected by  
 Collected date/time 10/29/25 11:35  
 Received date/time 11/04/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2637667	1	11/11/25 06:24	11/18/25 16:58	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2637178	1	11/10/25 11:11	11/18/25 16:58	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2637178	1	11/10/25 11:11	11/12/25 09:51	RGT	Mt. Juliet, TN

# CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Ashley N Pullium  
Project Manager

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

IJ05643-01 ATTACHMENT B. SAMPLE RESULTS - 01

845 QUARTERLY REPORT - QUARTER 4, 2025  
 Collected date: 11/19/25 13:25 HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4 L1914367

HEN-845-802-805

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	-0.182	<u>U</u>	1.46	1.48	2.57	0.802	11/18/2025 16:58	<a href="#">WG2637667</a>
(T) Barium	70.7					30.0-110	11/18/2025 16:58	<a href="#">WG2637667</a>
(T) Yttrium	97.8					30.0-110	11/18/2025 16:58	<a href="#">WG2637667</a>

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.259	<u>U</u>	1.48	2.59	11/18/2025 16:58	<a href="#">WG2637178</a>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.259	<u>J</u>	0.239	0.322	0.285	0.0780	11/12/2025 09:51	<a href="#">WG2637178</a>
(T) Barium-133	89.6					30.0-110	11/12/2025 09:51	<a href="#">WG2637178</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

HEN-845-802-805

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.356	<u>U</u>	0.739	0.766	1.27	0.393	11/18/2025 16:58	<a href="#">WG2637667</a>
(T) Barium	66.4					30.0-110	11/18/2025 16:58	<a href="#">WG2637667</a>
(T) Yttrium	102					30.0-110	11/18/2025 16:58	<a href="#">WG2637667</a>

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.510	<u>U</u>	0.779	1.32	11/18/2025 16:58	<a href="#">WG2637178</a>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.154	<u>J</u>	0.246	0.302	0.377	0.117	11/12/2025 09:51	<a href="#">WG2637178</a>
(T) Barium-133	86.3					30.0-110	11/12/2025 09:51	<a href="#">WG2637178</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

HEN-845-802-805

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.820	J	0.823	0.863	1.37	0.428	11/18/2025 16:58	<a href="#">WG2637667</a>
(T) Barium	71.1					30.0-110	11/18/2025 16:58	<a href="#">WG2637667</a>
(T) Yttrium	102					30.0-110	11/18/2025 16:58	<a href="#">WG2637667</a>

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.886	J	0.856	1.43	11/18/2025 16:58	<a href="#">WG2637178</a>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.0660	U	0.237	0.272	0.415	0.137	11/12/2025 09:51	<a href="#">WG2637178</a>
(T) Barium-133	89.8					30.0-110	11/12/2025 09:51	<a href="#">WG2637178</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.0482	<u>U</u>	1.30	1.31	2.27	0.708	11/18/2025 16:58	<a href="#">WG2637667</a>
(T) Barium	71.0					30.0-110	11/18/2025 16:58	<a href="#">WG2637667</a>
(T) Yttrium	104					30.0-110	11/18/2025 16:58	<a href="#">WG2637667</a>

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.0482	<u>U</u>	1.31	2.30	11/18/2025 16:58	<a href="#">WG2637178</a>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	-0.0845	<u>U</u>	0.123	0.160	0.368	0.114	11/12/2025 09:51	<a href="#">WG2637178</a>
(T) Barium-133	85.0					30.0-110	11/12/2025 09:51	<a href="#">WG2637178</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

HEN-845-802-805

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.132	<u>U</u>	0.622	0.638	1.09	0.336	11/18/2025 16:58	<a href="#">WG2637667</a>
(T) Barium	74.3					30.0-110	11/18/2025 16:58	<a href="#">WG2637667</a>
(T) Yttrium	104					30.0-110	11/18/2025 16:58	<a href="#">WG2637667</a>

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.00	<u>J</u>	0.749	1.15	11/18/2025 16:58	<a href="#">WG2637178</a>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.870		0.417	0.538	0.362	0.118	11/12/2025 09:51	<a href="#">WG2637178</a>
(T) Barium-133	94.9					30.0-110	11/12/2025 09:51	<a href="#">WG2637178</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Method Blank (MB)

(MB) R4302851-1 11/18/25 16:58

Analyte	MB Result pCi/l	MB Qualifier	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-228	-0.312	<u>U</u>	0.396	0.730	0.226
(T) Barium	73.7		73.7		
(T) Yttrium	86.5		86.5		

L1911160-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1911160-04 11/18/25 16:58 • (DUP) R4302851-5 11/18/25 16:58

Analyte	Original Result pCi/l	Original 2 sigma CE + / -	Original MDA pCi/l	Original Lc pCi/l	DUP Result pCi/l	DUP 2 sigma CE + / -	DUP MDA pCi/l	DUP Lc pCi/l	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-228	1.25	0.691	1.09	0.337	0.627	0.887	1.50	0.470	66.2	0.552	<u>J</u>	20	3
(T) Barium	75.1				73.0	73.0							
(T) Yttrium	94.6				107	107							

Laboratory Control Sample (LCS)

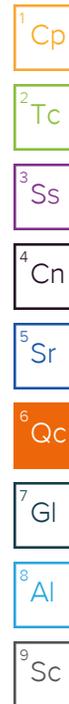
(LCS) R4302851-2 11/18/25 16:58

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	5.01	100	80.0-120	
(T) Barium			60.9		
(T) Yttrium			94.9		

L1911073-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1911073-07 11/18/25 16:58 • (MS) R4302851-3 11/18/25 16:58 • (MSD) R4302851-4 11/18/25 16:58

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-228	16.7	0.0612	18.2	19.1	109	114	1	70.0-130			4.51		20
(T) Barium		70.1			66.4	62.3							
(T) Yttrium		104			91.3	91.4							



Method Blank (MB)

(MB) R4299887-6 11/12/25 09:51

Analyte	MB Result pCi/l	MB Qualifier	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-226	-0.0175	<u>U</u>	0.0271	0.0826	0.0250
(T) Barium-133	84.1		84.1		

L1914871-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1914871-04 11/12/25 09:51 • (DUP) R4299887-10 11/12/25 09:51

Analyte	Original Result pCi/l	Original 2 sigma CE + / -	Original MDA pCi/l	Original Lc pCi/l	DUP Result pCi/l	DUP 2 sigma CE + / -	DUP MDA pCi/l	DUP Lc pCi/l	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-226	0.148	0.219	0.326	0.105	0.174	0.216	0.303	0.0974	16.1	0.0845	<u>J</u>	20	3
(T) Barium-133	85.8				95.0	95.0							

Laboratory Control Sample (LCS)

(LCS) R4299887-7 11/12/25 09:51

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-226	5.00	5.20	104	80.0-120	
(T) Barium-133			80.7		

L1914367-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1914367-01 11/12/25 09:51 • (MS) R4299887-8 11/12/25 09:51 • (MSD) R4299887-9 11/12/25 09:51

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-226	20.0	0.259	20.4	18.9	101	93.0	1	75.0-125			8.09		20
(T) Barium-133		89.6			88.4	82.6							



Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDA	Minimum Detectable Activity.
Rec.	Recovery.
RER	Replicate Error Ratio.
TPU	Total Propagated Uncertainty reported at 2 sigma (counting error plus all measurable variables).
Lc	Decision Level or Critical Level. DOE required Detection limit at a 68% confidence level.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(T)	Tracer - A radioisotope of known concentration added to a solution of chemically equivalent radioisotopes at a known concentration to assist in monitoring the yield of the chemical separation.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
U (Radiochemistry)	Result + Error < MDA.
J (Radiochemistry)	Result < MDA; Result + Error > MDA.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

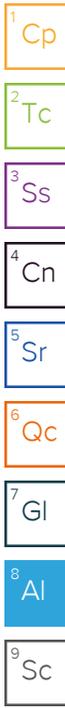
Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
U	Below Detectable Limits: Indicates that the analyte was not detected.



# ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico <sup>1</sup>	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1,6</sup>	KY90010	South Carolina	84004002
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		



<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

\* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

**SUBCONTRACT ORDER**  
**Transfer Chain of Custody**

D127

**Pace Analytical Services, LLC**  
**IJ05643**

**SENDING LABORATORY**

PDC Laboratories, Inc.  
 2231 W Altorfer Dr  
 Peoria, IL 61615  
 (800) 752-6651

**RECEIVING LABORATORY**

Pace Analytical - Mt Juliet, Tn  
 12065 Lebanon Rd  
 Mt Juliet, TN 37122  
 (615) 758-5858

*U914767*

**Sample: IJ05643-01**  
**Name: 12**

**Sampled:** 10/29/25 11:23  
**Matrix:** Ground Water  
**Preservative:** HNO3, pH <2

*a*

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	11/11/25 16:00	04/27/26 11:23	

**Sample: IJ05643-02**  
**Name: 23**

**Sampled:** 10/29/25 12:49  
**Matrix:** Ground Water  
**Preservative:** HNO3, pH <2

*m*

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	11/11/25 16:00	04/27/26 12:49	

**Sample: IJ05643-03**  
**Name: 46**

**Sampled:** 10/29/25 13:17  
**Matrix:** Ground Water  
**Preservative:** HNO3, pH <2

*01*

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	11/11/25 16:00	04/27/26 13:17	

**Sample: IJ05643-04**  
**Name: 49**

**Sampled:** 10/29/25 14:11  
**Matrix:** Ground Water  
**Preservative:** HNO3, pH <2

*04*

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	11/11/25 16:00	04/27/26 14:11	

**Sample: IJ05643-05**  
**Name: 51**

**Sampled:** 10/29/25 11:35  
**Matrix:** Ground Water  
**Preservative:** HNO3, pH <2

*05*

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	11/11/25 16:00	04/27/26 11:35	

**SUBCONTRACT ORDER**  
**Transfer Chain of Custody**  
**Pace Analytical Services, LLC**  
**IJ05643**

*LI914367*

PH-10BDH5131  
 TRC-4072A72

*c2*

*835b 9986 1316*

*TLA913.2+0=13.2*

**Sample Receipt Checklist**

COC Seal Present/Intact:  Y  N  NP If Applicable  
 COC Signed/Accurate:  Y  N VOA Zero Headspace:  Y  N  
 Bottles arrive intact:  Y  N Pres. Correct/Check:  Y  N  
 Correct bottles used:  Y  N  
 Sufficient volume sent:  Y  N Condition:  NCF  OK  
 RA Screen <0.5 mR/hr:  Y  N

*Containers: 10*

Please email results to Diane Billings at [diane.billings@pacelabs.com](mailto:diane.billings@pacelabs.com)

Date Shipped: 11/3/25 Total # of Containers: 10 Sample Origin (State): IL PO #: \_\_\_\_\_  
 Turn-Around Time Requested  NORMAL  RUSH Date Results Needed: \_\_\_\_\_

<i>[Signature]</i>	<u>11/3/25 0650</u>	<u>D. [Signature]</u>	<u>0900</u> <u>11:04:25</u>	Sample Temperature Upon Receipt	_____ °C
Relinquished By	Date/Time	Received By	Date/Time	Sample(s) Received on Ice	Y or N
				Proper Bottles Received in Good Condition	Y or N
				Bottles Filled with Adequate Volume	Y or N
				Samples Received Within Hold Time	Y or N
Relinquished By	Date/Time	Received By	Date/Time	Date/Time Taken From Sample Bottle	Y or N

# ANALYTICAL REPORT

December 02, 2025

Revised Report

## Pace IR - Peoria, IL

Sample Delivery Group: L1916025  
Samples Received: 11/07/2025  
Project Number: IK00259  
Description:  
Site: 01  
Report To: Diane Billings  
2231 W. Altorfer Drive  
Peoria, IL 61615

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Entire Report Reviewed By:



Ashley N Pullium  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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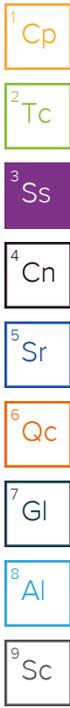
<b>Cp: Cover Page</b>	<b>1</b>	
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# SAMPLE SUMMARY

## IK00259-01 L1916025-01

Collected by  
 Collected date/time 11/03/25 14:33  
 Received date/time 11/07/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2637974	1	11/12/25 08:03	11/17/25 22:29	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2637176	1	11/10/25 08:48	11/17/25 22:29	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2637176	1	11/10/25 08:48	11/11/25 22:42	ZRG	Mt. Juliet, TN



## IK00259-02 L1916025-02

Collected by  
 Collected date/time 11/03/25 14:10  
 Received date/time 11/07/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2637974	1	11/12/25 08:03	11/17/25 22:29	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2637176	1	11/10/25 08:48	11/17/25 22:29	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2637176	1	11/10/25 08:48	11/11/25 22:42	ZRG	Mt. Juliet, TN

## IK00259-03 L1916025-03

Collected by  
 Collected date/time 11/03/25 13:04  
 Received date/time 11/07/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2637974	1	11/12/25 08:03	11/17/25 22:29	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2637176	1	11/10/25 08:48	11/17/25 22:29	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2637176	1	11/10/25 08:48	11/11/25 22:42	ZRG	Mt. Juliet, TN

## IK00259-04 L1916025-04

Collected by  
 Collected date/time 11/03/25 16:05  
 Received date/time 11/07/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2637974	1	11/12/25 08:03	11/17/25 22:29	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2637176	1	11/10/25 08:48	11/17/25 22:29	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2637176	1	11/10/25 08:48	11/11/25 22:42	ZRG	Mt. Juliet, TN

## IK00259-05 L1916025-05

Collected by  
 Collected date/time 11/03/25 13:24  
 Received date/time 11/07/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2637974	1	11/12/25 08:03	11/17/25 22:29	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2637176	1	11/10/25 08:48	11/17/25 22:29	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2637176	1	11/10/25 08:48	11/11/25 22:42	ZRG	Mt. Juliet, TN

## IK00259-06 L1916025-06

Collected by  
 Collected date/time 11/03/25 12:10  
 Received date/time 11/07/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2637974	1	11/12/25 08:03	11/17/25 22:29	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2637176	1	11/10/25 08:48	11/17/25 22:29	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2637176	1	11/10/25 08:48	11/11/25 22:48	ZRG	Mt. Juliet, TN

# SAMPLE SUMMARY

## IK00259-07 L1916025-07

Collected by  
 Collected date/time 11/03/25 11:17  
 Received date/time 11/07/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2637974	1	11/12/25 08:03	11/17/25 22:29	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2637176	1	11/10/25 08:48	11/17/25 22:29	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2637176	1	11/10/25 08:48	11/11/25 22:42	ZRG	Mt. Juliet, TN

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

## IK00259-08 L1916025-08

Collected by  
 Collected date/time 11/03/25 14:36  
 Received date/time 11/07/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2637974	1	11/12/25 08:03	11/17/25 22:29	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2637176	1	11/10/25 08:48	11/17/25 22:29	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2637176	1	11/10/25 08:48	11/11/25 22:42	ZRG	Mt. Juliet, TN

## IK00259-09 L1916025-09

Collected by  
 Collected date/time 11/03/25 12:10  
 Received date/time 11/07/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2637974	1	11/12/25 08:03	11/17/25 22:29	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2637176	1	11/10/25 08:48	11/17/25 22:29	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2637176	1	11/10/25 08:48	11/11/25 22:42	ZRG	Mt. Juliet, TN

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Ashley N Pullium  
Project Manager

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

### Report Revision History

---

Level II Report - Version 1: 11/19/25 13:42

### Project Narrative

---

Reprinted to update time per client request AP

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.444	J	0.557	0.586	0.940	0.297	11/17/2025 22:29	<a href="#">WG2637974</a>
(T) Barium	91.9					30.0-110	11/17/2025 22:29	<a href="#">WG2637974</a>
(T) Yttrium	78.1					30.0-110	11/17/2025 22:29	<a href="#">WG2637974</a>

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.473	J	0.600	1.03	11/17/2025 22:29	<a href="#">WG2637176</a>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.0292	U	0.222	0.245	0.418	0.136	11/11/2025 22:42	<a href="#">WG2637176</a>
(T) Barium-133	82.3					30.0-110	11/11/2025 22:42	<a href="#">WG2637176</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.577	J	0.409	0.442	0.664	0.207	11/17/2025 22:29	<a href="#">WG2637974</a>
(T) Barium	96.2					30.0-110	11/17/2025 22:29	<a href="#">WG2637974</a>
(T) Yttrium	84.6					30.0-110	11/17/2025 22:29	<a href="#">WG2637974</a>

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.871		0.491	0.739	11/17/2025 22:29	<a href="#">WG2637176</a>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.294	J	0.272	0.350	0.324	0.0886	11/11/2025 22:42	<a href="#">WG2637176</a>
(T) Barium-133	85.5					30.0-110	11/11/2025 22:42	<a href="#">WG2637176</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.126	<u>U</u>	0.407	0.423	0.709	0.222	11/17/2025 22:29	<a href="#">WG2637974</a>
(T) Barium	94.1					30.0-110	11/17/2025 22:29	<a href="#">WG2637974</a>
(T) Yttrium	88.1					30.0-110	11/17/2025 22:29	<a href="#">WG2637974</a>

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.954		0.548	0.767	11/17/2025 22:29	<a href="#">WG2637176</a>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.829		0.367	0.495	0.292	0.0921	11/11/2025 22:42	<a href="#">WG2637176</a>
(T) Barium-133	93.7					30.0-110	11/11/2025 22:42	<a href="#">WG2637176</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

IK00259-04

ATTACHMENT B.

SAMPLE RESULTS - 04

845 QUARTERLY REPORT - QUARTER 4, 2025

L1916025

Collected date: 11/17/2025 16:45

11/17/2025 16:45

HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4

HEN-845-802-805

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.756		0.434	0.472	0.689	0.215	11/17/2025 22:29	<a href="#">WG2637974</a>
(T) Barium	94.0					30.0-110	11/17/2025 22:29	<a href="#">WG2637974</a>
(T) Yttrium	82.0					30.0-110	11/17/2025 22:29	<a href="#">WG2637974</a>

1 Cp

2 Tc

3 Ss

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.13		0.517	0.751	11/17/2025 22:29	<a href="#">WG2637176</a>

4 Cn

5 Sr

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.377		0.281	0.390	0.298	0.0848	11/11/2025 22:42	<a href="#">WG2637176</a>
(T) Barium-133	86.2					30.0-110	11/11/2025 22:42	<a href="#">WG2637176</a>

6 Qc

7 Gl

8 Al

9 Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	1.25		0.709	0.760	1.14	0.363	11/17/2025 22:29	<a href="#">WG2637974</a>
(T) Barium	88.4					30.0-110	11/17/2025 22:29	<a href="#">WG2637974</a>
(T) Yttrium	72.6					30.0-110	11/17/2025 22:29	<a href="#">WG2637974</a>

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.32		0.760	1.24	11/17/2025 22:29	<a href="#">WG2637176</a>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.0766	<u>U</u>	0.275	0.322	0.482	0.159	11/11/2025 22:42	<a href="#">WG2637176</a>
(T) Barium-133	79.5					30.0-110	11/11/2025 22:42	<a href="#">WG2637176</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.834		0.426	0.466	0.672	0.211	11/17/2025 22:29	<a href="#">WG2637974</a>
(T) Barium	90.6					30.0-110	11/17/2025 22:29	<a href="#">WG2637974</a>
(T) Yttrium	96.3					30.0-110	11/17/2025 22:29	<a href="#">WG2637974</a>

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.59		0.584	0.756	11/17/2025 22:29	<a href="#">WG2637176</a>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.753		0.399	0.504	0.347	0.105	11/11/2025 22:48	<a href="#">WG2637176</a>
(T) Barium-133	88.8					30.0-110	11/11/2025 22:48	<a href="#">WG2637176</a>

1 Cp  
 2 Tc  
 3 Ss  
 4 Cn  
 5 Sr  
 6 Qc  
 7 Gl  
 8 Al  
 9 Sc

HEN-845-802-805

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.502	J	0.544	0.575	0.912	0.288	11/17/2025 22:29	<a href="#">WG2637974</a>
(T) Barium	92.1					30.0-110	11/17/2025 22:29	<a href="#">WG2637974</a>
(T) Yttrium	80.1					30.0-110	11/17/2025 22:29	<a href="#">WG2637974</a>

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.960	J	0.644	0.992	11/17/2025 22:29	<a href="#">WG2637176</a>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.458		0.345	0.449	0.390	0.125	11/11/2025 22:42	<a href="#">WG2637176</a>
(T) Barium-133	100					30.0-110	11/11/2025 22:42	<a href="#">WG2637176</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.789	J	0.792	0.831	1.32	0.418	11/17/2025 22:29	WG2637974
(T) Barium	87.8					30.0-110	11/17/2025 22:29	WG2637974
(T) Yttrium	80.4					30.0-110	11/17/2025 22:29	WG2637974

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.957	J	0.821	1.36	11/17/2025 22:29	WG2637176

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.168	J	0.216	0.268	0.307	0.0875	11/11/2025 22:42	WG2637176
(T) Barium-133	92.2					30.0-110	11/11/2025 22:42	WG2637176

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.955		0.565	0.608	0.902	0.282	11/17/2025 22:29	<a href="#">WG2637974</a>
(T) Barium	74.6					30.0-110	11/17/2025 22:29	<a href="#">WG2637974</a>
(T) Yttrium	83.1					30.0-110	11/17/2025 22:29	<a href="#">WG2637974</a>

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.85		0.734	1.02	11/17/2025 22:29	<a href="#">WG2637176</a>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.898		0.469	0.607	0.472	0.171	11/11/2025 22:42	<a href="#">WG2637176</a>
(T) Barium-133	95.6					30.0-110	11/11/2025 22:42	<a href="#">WG2637176</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Method Blank (MB)

(MB) R4302799-1 11/17/25 22:29

Analyte	MB Result pCi/l	MB Qualifier	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-228	-0.0844	<u>U</u>	0.353	0.631	0.199
(T) Barium	90.9		90.9		
(T) Yttrium	78.7		78.7		

L1916025-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1916025-08 11/17/25 22:29 • (DUP) R4302799-5 11/17/25 22:29

Analyte	Original Result pCi/l	Original 2 sigma CE + / -	Original MDA pCi/l	Original Lc pCi/l	DUP Result pCi/l	DUP 2 sigma CE + / -	DUP MDA pCi/l	DUP Lc pCi/l	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-228	0.789	0.792	1.32	0.418	0.633	0.698	1.17	0.373	22.0	0.148	<u>J</u>	20	3
(T) Barium	87.8				91.1	91.1							
(T) Yttrium	80.4				99.3	99.3							

Laboratory Control Sample (LCS)

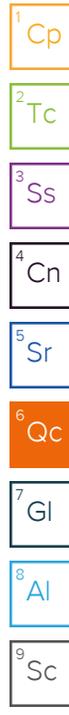
(LCS) R4302799-2 11/17/25 22:29

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	5.35	107	80.0-120	
(T) Barium			91.7		
(T) Yttrium			96.3		

L191117-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L191117-03 11/17/25 22:29 • (MS) R4302799-3 11/17/25 22:29 • (MSD) R4302799-4 11/17/25 22:29

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-228	16.7	5.83	18.5	19.4	76.0	81.4	1	70.0-130			4.69		20
(T) Barium		57.5			59.8	68.9							
(T) Yttrium		94.4			94.7	103							



Method Blank (MB)

(MB) R4299790-1 11/11/25 22:42

Analyte	MB Result pCi/l	MB Qualifier	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-226	0.000	<u>U</u>	0.0278	0.0555	0.0203
(T) Barium-133	73.9		73.9		

L1916025-09 Original Sample (OS) • Duplicate (DUP)

(OS) L1916025-09 11/11/25 22:42 • (DUP) R4299790-5 11/11/25 22:42

Analyte	Original Result pCi/l	Original 2 sigma CE + / -	Original MDA pCi/l	Original Lc pCi/l	DUP Result pCi/l	DUP 2 sigma CE + / -	DUP MDA pCi/l	DUP Lc pCi/l	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-226	0.898	0.469	0.472	0.171	1.07	0.399	0.249	0.0710	17.4	0.278		20	3
(T) Barium-133	95.6				84.0	84.0							

Laboratory Control Sample (LCS)

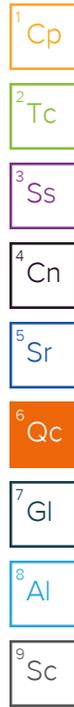
(LCS) R4299790-2 11/11/25 22:42

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-226	5.00	5.22	104	80.0-120	
(T) Barium-133			91.0		

L1915386-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1915386-01 11/11/25 22:42 • (MS) R4299790-3 11/11/25 22:42 • (MSD) R4299790-4 11/11/25 22:42

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-226	20.0	1.28	23.8	24.5	112	116	1	75.0-125			2.94		20
(T) Barium-133		79.9			85.9	90.8							



Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDA	Minimum Detectable Activity.
Rec.	Recovery.
RER	Replicate Error Ratio.
TPU	Total Propagated Uncertainty reported at 2 sigma (counting error plus all measurable variables).
Lc	Decision Level or Critical Level. DOE required Detection limit at a 68% confidence level.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(T)	Tracer - A radioisotope of known concentration added to a solution of chemically equivalent radioisotopes at a known concentration to assist in monitoring the yield of the chemical separation.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
U (Radiochemistry)	Result + Error < MDA.
J (Radiochemistry)	Result < MDA; Result + Error > MDA.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
U	Below Detectable Limits: Indicates that the analyte was not detected.



# ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico <sup>1</sup>	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1,6</sup>	KY90010	South Carolina	84004002
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

\* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.



**SUBCONTRACT ORDER**  
**Transfer Chain of Custody**

M001

**Pace Analytical Services, LLC**  
**IK00259**

**SENDING LABORATORY**

PDC Laboratories, Inc.  
 2231 W Altorfer Dr  
 Peoria, IL 61615  
 (800) 752-6651

**RECEIVING LABORATORY**

Pace Analytical - Mt Juliet, Tn  
 12065 Lebanon Rd  
 Mt Juliet, TN 37122  
 (615) 758-5858

U916025

Sample: IK00259-01  
 Name: 03R

22

Sampled: 11/03/25 14:33  
 Matrix: Ground Water  
 Preservative: HNO3, pH <2

-01

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	11/14/25 16:00	05/02/26 14:33	

Sample: IK00259-02  
 Name: 08

Sampled: 11/03/25 14:10  
 Matrix: Ground Water  
 Preservative: HNO3, pH <2

-02

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	11/14/25 16:00	05/02/26 14:10	

Sample: IK00259-03  
 Name: 13

Sampled: 11/03/25 13:04  
 Matrix: Ground Water  
 Preservative: HNO3, pH <2

-03

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	11/14/25 16:00	05/02/26 13:04	

Sample: IK00259-04  
 Name: 18D

Sampled: 11/03/25 16:05  
 Matrix: Ground Water  
 Preservative: HNO3, pH <2

-04

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	11/14/25 16:00	05/02/26 16:05	

Sample: IK00259-05  
 Name: 22

Sampled: 11/03/25 13:24  
 Matrix: Ground Water  
 Preservative: HNO3, pH <2

-05

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	11/14/25 16:00	05/02/26 13:24	

**SUBCONTRACT ORDER**

Transfer Chain of Custody

Pace Analytical Services, LLC

IK00259

**SENDING LABORATORY**

PDC Laboratories, Inc.  
 2231 W Altorfer Dr  
 Peoria, IL 61615  
 (800) 752-6651

**RECEIVING LABORATORY**

Pace Analytical - Mt Juliet, Tn  
 12065 Lebanon Rd  
 Mt Juliet, TN 37122  
 (615) 758-5858

*LI9116025*

Sample: IK00259-06  
 Name: 22D

Sampled: 11/03/25 12:10  
 Matrix: Ground Water  
 Preservative: HNO3, pH <2

*-06*

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	11/14/25 16:00	05/02/26 12:10	

Sample: IK00259-07  
 Name: 35

Sampled: 11/03/25 11:17  
 Matrix: Ground Water  
 Preservative: HNO3, pH <2

*-07*

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	11/14/25 16:00	05/02/26 11:17	

Sample: IK00259-08  
 Name: EB #2

Sampled: 11/03/25 14:36  
 Matrix: Ground Water  
 Preservative: HNO3, pH <2

*-08*

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	11/14/25 16:00	05/02/26 14:36	

Sample: IK00259-09  
 Name: 22D Dup

Sampled: 11/03/25 00:00  
 Matrix: Ground Water  
 Preservative: HNO3, pH <2

*1210 12/2/25  
 -09 dup*

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	11/14/25 16:00	05/02/26 00:00	

*168210=1682 TL99*

Sample Receipt Checklist

COC Seal Present/Intact:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	VOA Zero Headspace:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
COC Signed/Accurate:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Pres Correct/Check:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Bottles arrive intact:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Condition:	<input type="checkbox"/> NCF <input checked="" type="checkbox"/> OK
Correct bottles used:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N		
Sufficient volume sent:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N		
RA Screen <0.5 mR/hr:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N		

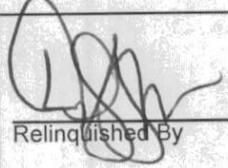
**SUBCONTRACT ORDER**  
**Transfer Chain of Custody**

**Pace Analytical Services, LLC**  
**IK00259**

*U916025*

Please email results to Diane Billings at [diane.billings@pacelabs.com](mailto:diane.billings@pacelabs.com)

Date Shipped: 11/6/25 Total # of Containers: 18 Sample Origin (State): IL PO #: \_\_\_\_\_  
Turn-Around Time Requested  NORMAL  RUSH Date Results Needed: \_\_\_\_\_

	<u>11/6/25 0840</u>			Sample Temperature Upon Receipt	_____ °C
Relinquished By	Date/Time	Received By	Date/Time	Sample(s) Received on Ice	Y or N
			<u>11-7-25 0900</u>	Proper Bottles Received in Good Condition	Y or N
Relinquished By	Date/Time	Received By	Date/Time	Bottles Filled with Adequate Volume	Y or N
				Samples Received Within Hold Time	Y or N
				Date/Time Taken From Sample Bottle	Y or N

8358 1010 0566

# ANALYTICAL REPORT

December 01, 2025

## Pace IR - Peoria, IL

Sample Delivery Group: L1916760  
Samples Received: 11/11/2025  
Project Number: IK01122  
Description:  
Site: 01  
Report To: Diane Billings  
2231 W. Altorfer Drive  
Peoria, IL 61615

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Entire Report Reviewed By:



Ashley N Pullium  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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# SAMPLE SUMMARY

## 07 L1916760-01

Collected by  
 Collected date/time  
 Received date/time

11/05/25 12:20  
 11/11/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2638882	1	11/13/25 14:21	11/19/25 09:10	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2638579	1	11/14/25 10:53	11/19/25 09:10	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2638579	1	11/14/25 10:53	11/17/25 22:24	RGT	Mt. Juliet, TN



## 08D L1916760-02

Collected by  
 Collected date/time  
 Received date/time

11/05/25 13:51  
 11/11/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2638882	1	11/13/25 14:21	11/19/25 09:10	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2638579	1	11/14/25 10:53	11/19/25 09:10	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2638579	1	11/14/25 10:53	11/17/25 22:24	RGT	Mt. Juliet, TN

## 50 L1916760-03

Collected by  
 Collected date/time  
 Received date/time

11/05/25 10:50  
 11/11/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2638882	1	11/13/25 14:21	11/19/25 09:10	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2638579	1	11/14/25 10:53	11/19/25 09:10	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2638579	1	11/14/25 10:53	11/17/25 22:24	RGT	Mt. Juliet, TN

## 52 L1916760-04

Collected by  
 Collected date/time  
 Received date/time

11/05/25 12:13  
 11/11/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2638882	1	11/13/25 14:21	11/19/25 09:10	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2638579	1	11/14/25 10:53	11/19/25 09:10	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2638579	1	11/14/25 10:53	11/17/25 22:24	RGT	Mt. Juliet, TN

## 54 L1916760-05

Collected by  
 Collected date/time  
 Received date/time

11/05/25 11:18  
 11/11/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2638882	1	11/13/25 14:21	11/19/25 09:10	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2638579	1	11/14/25 10:53	11/19/25 09:10	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2638579	1	11/14/25 10:53	11/17/25 22:24	RGT	Mt. Juliet, TN

## FIELD BLANK L1916760-06

Collected by  
 Collected date/time  
 Received date/time

11/05/25 14:06  
 11/11/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2638882	1	11/13/25 14:21	11/19/25 09:10	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2638579	1	11/14/25 10:53	11/19/25 09:10	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2638579	1	11/14/25 10:53	11/17/25 22:24	RGT	Mt. Juliet, TN

# SAMPLE SUMMARY

Collected by  
 Collected date/time 11/05/25 11:18  
 Received date/time 11/11/25 09:00

54 DUP L1916760-07

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2638882	1	11/13/25 14:21	11/19/25 09:10	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2638579	1	11/14/25 10:53	11/19/25 09:10	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2638579	1	11/14/25 10:53	11/17/25 22:24	RGT	Mt. Juliet, TN

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

# CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Ashley N Pullium  
Project Manager

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.476	J	0.474	0.504	0.792	0.248	11/19/2025 09:10	<a href="#">WG2638882</a>
(T) Barium	91.5					30.0-110	11/19/2025 09:10	<a href="#">WG2638882</a>
(T) Yttrium	104					30.0-110	11/19/2025 09:10	<a href="#">WG2638882</a>

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.747	J	0.534	0.846	11/19/2025 09:10	<a href="#">WG2638579</a>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.271	J	0.247	0.330	0.298	0.0878	11/17/2025 22:24	<a href="#">WG2638579</a>
(T) Barium-133	78.9					30.0-110	11/17/2025 22:24	<a href="#">WG2638579</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.0818	<u>U</u>	0.615	0.628	1.07	0.336	11/19/2025 09:10	<a href="#">WG2638882</a>
(T) Barium	97.8					30.0-110	11/19/2025 09:10	<a href="#">WG2638882</a>
(T) Yttrium	262	<u>C1</u>				30.0-110	11/19/2025 09:10	<a href="#">WG2638882</a>

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.146	<u>U</u>	0.657	1.15	11/19/2025 09:10	<a href="#">WG2638579</a>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.0647	<u>U</u>	0.231	0.280	0.422	0.131	11/17/2025 22:24	<a href="#">WG2638579</a>
(T) Barium-133	71.2					30.0-110	11/17/2025 22:24	<a href="#">WG2638579</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.488	J	0.376	0.406	0.615	0.190	11/19/2025 09:10	<a href="#">WG2638882</a>
(T) Barium	92.8					30.0-110	11/19/2025 09:10	<a href="#">WG2638882</a>
(T) Yttrium	97.6					30.0-110	11/19/2025 09:10	<a href="#">WG2638882</a>

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.632	J	0.431	0.692	11/19/2025 09:10	<a href="#">WG2638579</a>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.144	J	0.211	0.274	0.317	0.0869	11/17/2025 22:24	<a href="#">WG2638579</a>
(T) Barium-133	80.4					30.0-110	11/17/2025 22:24	<a href="#">WG2638579</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.372	J	0.417	0.444	0.700	0.217	11/19/2025 09:10	WG2638882
(T) Barium	86.8					30.0-110	11/19/2025 09:10	WG2638882
(T) Yttrium	111	C1				30.0-110	11/19/2025 09:10	WG2638882

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.441	J	0.485	0.832	11/19/2025 09:10	WG2638579

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.0689	U	0.247	0.288	0.450	0.139	11/17/2025 22:24	WG2638579
(T) Barium-133	72.3					30.0-110	11/17/2025 22:24	WG2638579

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.555	J	0.379	0.411	0.613	0.189	11/19/2025 09:10	<a href="#">WG2638882</a>
(T) Barium	97.6					30.0-110	11/19/2025 09:10	<a href="#">WG2638882</a>
(T) Yttrium	91.3					30.0-110	11/19/2025 09:10	<a href="#">WG2638882</a>

1 Cp

2 Tc

3 Ss

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.630	J	0.464	0.772	11/19/2025 09:10	<a href="#">WG2638579</a>

4 Cn

5 Sr

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.0746	U	0.268	0.308	0.470	0.155	11/17/2025 22:24	<a href="#">WG2638579</a>
(T) Barium-133	79.4					30.0-110	11/17/2025 22:24	<a href="#">WG2638579</a>

6 Qc

7 Gl

8 Al

9 Sc

FIELD BLANK

ATTACHMENT B.

SAMPLE RESULTS - 06

845 QUARTERLY REPORT - QUARTER 4, 2025  
 Collected date: 11/19/2025 11:09  
 HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4 L1916760

HEN-845-802-805

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	-0.131	<u>U</u>	0.476	0.492	0.845	0.265	11/19/2025 09:10	<a href="#">WG2638882</a>
(T) Barium	90.7					30.0-110	11/19/2025 09:10	<a href="#">WG2638882</a>
(T) Yttrium	116	<u>C1</u>				30.0-110	11/19/2025 09:10	<a href="#">WG2638882</a>

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.106	<u>U</u>	0.528	0.926	11/19/2025 09:10	<a href="#">WG2638579</a>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.106	<u>U</u>	0.228	0.268	0.378	0.117	11/17/2025 22:24	<a href="#">WG2638579</a>
(T) Barium-133	82.6					30.0-110	11/17/2025 22:24	<a href="#">WG2638579</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.0633	<u>U</u>	0.344	0.355	0.603	0.187	11/19/2025 09:10	<a href="#">WG2638882</a>
(T) Barium	102					30.0-110	11/19/2025 09:10	<a href="#">WG2638882</a>
(T) Yttrium	106					30.0-110	11/19/2025 09:10	<a href="#">WG2638882</a>

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.248	<u>U</u>	0.451	0.747	11/19/2025 09:10	<a href="#">WG2638579</a>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.185	<u>J</u>	0.292	0.354	0.441	0.144	11/17/2025 22:24	<a href="#">WG2638579</a>
(T) Barium-133	77.9					30.0-110	11/17/2025 22:24	<a href="#">WG2638579</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Method Blank (MB)

(MB) R4306963-1 11/19/25 09:10

Analyte	MB Result pCi/l	MB Qualifier	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-228	-0.186	<u>U</u>	0.248	0.459	0.143
(T) Barium	104		104		
(T) Yttrium	96.9		96.9		

L1916760-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1916760-02 11/19/25 09:10 • (DUP) R4306963-3 11/19/25 09:10

Analyte	Original Result pCi/l	Original 2 sigma CE + / -	Original MDA pCi/l	Original Lc pCi/l	DUP Result pCi/l	DUP 2 sigma CE + / -	DUP MDA pCi/l	DUP Lc pCi/l	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-228	0.0818	0.615	1.07	0.336	0.269	0.511	0.878	0.274	107	0.234	<u>U</u>	20	3
(T) Barium	97.8				103	103							
(T) Yttrium	262				109	109							

Laboratory Control Sample (LCS)

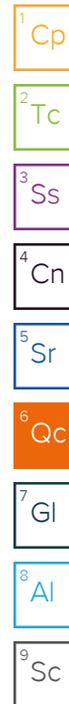
(LCS) R4306963-2 11/19/25 09:10

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	4.17	83.4	80.0-120	
(T) Barium			99.4		
(T) Yttrium			89.6		

L191117-13 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L191117-13 11/26/25 13:20 • (MS) R4306963-6 11/26/25 13:20 • (MSD) R4306963-7 11/26/25 13:20

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-228	16.7	1.45	27.2	19.4	154	107	1	70.0-130	<u>J5</u>	<u>J3</u>	33.5		20
(T) Barium		110			127	100			<u>C1</u>				
(T) Yttrium		97.6			94.4	100							



Method Blank (MB)

(MB) R4302839-1 11/17/25 22:24

Analyte	MB Result pCi/l	MB Qualifier	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-226	-0.0165	<u>U</u>	0.0255	0.0777	0.0235
(T) Barium-133	90.1		90.1		

L1916763-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1916763-03 11/17/25 22:24 • (DUP) R4302839-5 11/17/25 22:24

Analyte	Original Result pCi/l	Original 2 sigma CE + / -	Original MDA pCi/l	Original Lc pCi/l	DUP Result pCi/l	DUP 2 sigma CE + / -	DUP MDA pCi/l	DUP Lc pCi/l	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-226	0.0597	0.135	0.247	0.0597	0.268	0.234	0.273	0.0779	127	0.770	<u>J</u>	20	3
(T) Barium-133	83.8				76.6	76.6							

Laboratory Control Sample (LCS)

(LCS) R4302839-2 11/17/25 22:24

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-226	5.00	5.46	109	80.0-120	
(T) Barium-133			66.1		

L1916756-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1916756-01 11/17/25 22:24 • (MS) R4302839-3 11/17/25 22:24 • (MSD) R4302839-4 11/17/25 22:24

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-226	20.0	0.980	22.0	22.7	105	109	1	75.0-125			3.26		20
(T) Barium-133		86.6			82.8	79.6							



Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDA	Minimum Detectable Activity.
Rec.	Recovery.
RER	Replicate Error Ratio.
TPU	Total Propagated Uncertainty reported at 2 sigma (counting error plus all measurable variables).
Lc	Decision Level or Critical Level. DOE required Detection limit at a 68% confidence level.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(T)	Tracer - A radioisotope of known concentration added to a solution of chemically equivalent radioisotopes at a known concentration to assist in monitoring the yield of the chemical separation.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
U (Radiochemistry)	Result + Error < MDA.
J (Radiochemistry)	Result < MDA; Result + Error > MDA.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
C1	Tracer recovery limits have been exceeded; values are outside upper control limits.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
U	Below Detectable Limits: Indicates that the analyte was not detected.



# ACCREDITATIONS & LOCATIONS

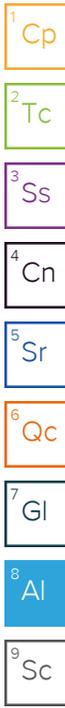
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico <sup>1</sup>	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1,6</sup>	KY90010	South Carolina	84004002
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

\* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.



**SUBCONTRACT ORDER**  
**Transfer Chain of Custody**

**Pace Analytical Services, LLC**  
**IK01122**

**B010**

**SENDING LABORATORY**

PDC Laboratories, Inc.  
2231 W Altorfer Dr  
Peoria, IL 61615  
(800) 752-6651

**RECEIVING LABORATORY**

Pace Analytical - Mt Juliet, Tn  
12065 Lebanon Rd  
Mt Juliet, TN 37122  
(615) 758-5858

4916760

**Sample: IK01122-01**  
**Name: 07**

**Sampled: 11/05/25 12:20**  
**Matrix: Ground Water**  
**Preservative: HNO3, pH <2**

-01

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	12/01/25 16:00	05/04/26 12:20	

**Sample: IK01122-02**  
**Name: 08D**

**Sampled: 11/05/25 13:51**  
**Matrix: Ground Water**  
**Preservative: HNO3, pH <2**

-02

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	12/01/25 16:00	05/04/26 13:51	

**Sample: IK01122-03**  
**Name: 50**

**Sampled: 11/05/25 10:50**  
**Matrix: Ground Water**  
**Preservative: HNO3, pH <2**

-03

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	12/01/25 16:00	05/04/26 10:50	

**Sample: IK01122-04**  
**Name: 52**

**Sampled: 11/05/25 12:13**  
**Matrix: Ground Water**  
**Preservative: HNO3, pH <2**

-04

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	12/01/25 16:00	05/04/26 12:13	

**Sample: IK01122-05**  
**Name: 54**

**Sampled: 11/05/25 11:18**  
**Matrix: Ground Water**  
**Preservative: HNO3, pH <2**

-05

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	12/01/25 16:00	05/04/26 11:18	

**SUBCONTRACT ORDER**  
**Transfer Chain of Custody**

**Pace Analytical Services, LLC**  
**IK01122**

**SENDING LABORATORY**

PDC Laboratories, Inc.  
 2231 W Altorfer Dr  
 Peoria, IL 61615  
 (800) 752-6651

**RECEIVING LABORATORY**

Pace Analytical - Mt Juliet, Tn  
 12065 Lebanon Rd  
 Mt Juliet, TN 37122  
 (615) 758-5858

U91167600

**Sample: IK01122-06**  
**Name: Field Blank**

**Sampled: 11/05/25 14:06**  
**Matrix: Ground Water**  
**Preservative: HNO3, pH <2**

-06

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	12/01/25 16:00	05/04/26 14:06	

**Sample: IK01122-07**  
**Name: 54 Dup**

**Sampled: 11/05/25 11:18**  
**Matrix: Ground Water**  
**Preservative: HNO3, pH <2**

-07

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	12/01/25 16:00	05/04/26 11:18	

11-B-D.O-11-3

**Sample Receipt Checklist**

Seal Present/Intact:  Y  N NP If Applicable

Labels Signed/Accurate:  Y  N VOA Zero Headspace:  Y  N

Containers Arrive Intact:  Y  N Pres. Correct/Check:  Y  N

Correct bottles used:  Y  N

Correct volume sent:  Y  N Condition:  NCF  OK

Radon <0.5 mR/hr:  Y  N TOTAL

Please email results to Diane Billings at [diane.billings@pacelabs.com](mailto:diane.billings@pacelabs.com)

Date Shipped: 10-Nov-25 Total # of Containers: 14 Sample Origin (State): IL PO #: \_\_\_\_\_

Turn-Around Time Requested  NORMAL  RUSH Date Results Needed: \_\_\_\_\_

Relinquished By: <u>[Signature]</u>	Date/Time: <u>11/10/25 1330</u>	Received By: _____	Date/Time: _____	Sample Temperature Upon Receipt: _____ °C
Relinquished By: _____	Date/Time: _____	Received By: <u>Christopher Mallin</u>	Date/Time: <u>11/10/25 0900</u>	Sample(s) Received on Ice: Y or N
				Proper Bottles Received in Good Condition: Y or N
				Bottles Filled with Adequate Volume: Y or N
				Samples Received Within Hold Time: Y or N
				Date/Time Taken From Sample Bottle: Y or N

# ANALYTICAL REPORT

December 01, 2025

## Pace IR - Peoria, IL

Sample Delivery Group: L1916762  
Samples Received: 11/11/2025  
Project Number: IK01448  
Description:  
Site: 01  
Report To: Diane Billings  
2231 W. Altorfer Drive  
Peoria, IL 61615

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Entire Report Reviewed By:



Ashley N Pullium  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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# SAMPLE SUMMARY

## 18S L1916762-01

Collected by  
 Collected date/time 11/04/25 11:09  
 Received date/time 11/11/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2638882	1	11/13/25 14:21	11/19/25 09:10	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2638579	1	11/14/25 10:53	11/19/25 09:10	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2638579	1	11/14/25 10:53	11/17/25 22:24	RGT	Mt. Juliet, TN



## 45S L1916762-02

Collected by  
 Collected date/time 11/04/25 15:02  
 Received date/time 11/11/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2638882	1	11/13/25 14:21	11/19/25 09:10	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2638579	1	11/14/25 10:53	11/19/25 09:10	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2638579	1	11/14/25 10:53	11/17/25 22:24	RGT	Mt. Juliet, TN

## 47 L1916762-03

Collected by  
 Collected date/time 11/04/25 12:31  
 Received date/time 11/11/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2640416	1	11/14/25 11:38	11/19/25 17:17	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2638579	1	11/14/25 10:53	11/19/25 17:17	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2638579	1	11/14/25 10:53	11/17/25 22:24	RGT	Mt. Juliet, TN

## 45S DUP L1916762-04

Collected by  
 Collected date/time 11/04/25 15:02  
 Received date/time 11/11/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2640416	1	11/14/25 11:38	11/19/25 17:17	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2638579	1	11/14/25 10:53	11/19/25 17:17	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2638579	1	11/14/25 10:53	11/17/25 22:24	RGT	Mt. Juliet, TN

# CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Ashley N Pullium  
Project Manager

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.379	J	0.473	0.500	0.799	0.250	11/19/2025 09:10	WG2638882
(T) Barium	87.4					30.0-110	11/19/2025 09:10	WG2638882
(T) Yttrium	107					30.0-110	11/19/2025 09:10	WG2638882

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.485	J	0.516	0.871	11/19/2025 09:10	WG2638579

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.105	U	0.206	0.255	0.348	0.0952	11/17/2025 22:24	WG2638579
(T) Barium-133	79.6					30.0-110	11/17/2025 22:24	WG2638579

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.825		0.507	0.547	0.821	0.257	11/19/2025 09:10	<a href="#">WG2638882</a>
(T) Barium	89.3					30.0-110	11/19/2025 09:10	<a href="#">WG2638882</a>
(T) Yttrium	93.9					30.0-110	11/19/2025 09:10	<a href="#">WG2638882</a>

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.02		0.559	0.882	11/19/2025 09:10	<a href="#">WG2638579</a>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.200	J	0.235	0.300	0.323	0.102	11/17/2025 22:24	<a href="#">WG2638579</a>
(T) Barium-133	84.6					30.0-110	11/17/2025 22:24	<a href="#">WG2638579</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.743	J	0.489	0.528	0.796	0.249	11/19/2025 17:17	<a href="#">WG2640416</a>
(T) Barium	104					30.0-110	11/19/2025 17:17	<a href="#">WG2640416</a>
(T) Yttrium	90.1					30.0-110	11/19/2025 17:17	<a href="#">WG2640416</a>

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.829	J	0.525	0.862	11/19/2025 17:17	<a href="#">WG2638579</a>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.0860	U	0.192	0.246	0.332	0.0946	11/17/2025 22:24	<a href="#">WG2638579</a>
(T) Barium-133	77.3					30.0-110	11/17/2025 22:24	<a href="#">WG2638579</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.0290	<u>U</u>	0.412	0.419	0.720	0.225	11/19/2025 17:17	<a href="#">WG2640416</a>
(T) Barium	111	<u>C1</u>				30.0-110	11/19/2025 17:17	<a href="#">WG2640416</a>
(T) Yttrium	104					30.0-110	11/19/2025 17:17	<a href="#">WG2640416</a>

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.309	<u>J</u>	0.488	0.780	11/19/2025 17:17	<a href="#">WG2638579</a>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.280	<u>J</u>	0.261	0.351	0.300	0.0725	11/17/2025 22:24	<a href="#">WG2638579</a>
(T) Barium-133	72.8					30.0-110	11/17/2025 22:24	<a href="#">WG2638579</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Method Blank (MB)

(MB) R4306963-1 11/19/25 09:10

Analyte	MB Result pCi/l	MB Qualifier	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-228	-0.186	<u>U</u>	0.248	0.459	0.143
(T) Barium	104		104		
(T) Yttrium	96.9		96.9		

L1916760-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1916760-02 11/19/25 09:10 • (DUP) R4306963-3 11/19/25 09:10

Analyte	Original Result pCi/l	Original 2 sigma CE + / -	Original MDA pCi/l	Original Lc pCi/l	DUP Result pCi/l	DUP 2 sigma CE + / -	DUP MDA pCi/l	DUP Lc pCi/l	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-228	0.0818	0.615	1.07	0.336	0.269	0.511	0.878	0.274	107	0.234	<u>U</u>	20	3
(T) Barium	97.8				103	103							
(T) Yttrium	262				109	109							

Laboratory Control Sample (LCS)

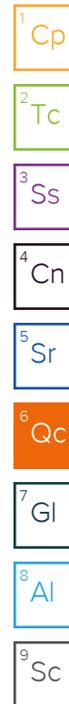
(LCS) R4306963-2 11/19/25 09:10

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	4.17	83.4	80.0-120	
(T) Barium			99.4		
(T) Yttrium			89.6		

L191117-13 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L191117-13 11/26/25 13:20 • (MS) R4306963-6 11/26/25 13:20 • (MSD) R4306963-7 11/26/25 13:20

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-228	16.7	1.45	27.2	19.4	154	107	1	70.0-130	<u>J5</u>	<u>J3</u>	33.5		20
(T) Barium		110			127	100			<u>C1</u>				
(T) Yttrium		97.6			94.4	100							



Method Blank (MB)

(MB) R4304733-1 11/19/25 17:17

Analyte	MB Result pCi/l	MB Qualifier	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-228	0.0838	<u>U</u>	0.274	0.475	0.148
(T) Barium	98.5		98.5		
(T) Yttrium	99.2		99.2		

L1912324-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1912324-01 11/19/25 17:17 • (DUP) R4304733-5 11/19/25 17:17

Analyte	Original Result pCi/l	Original 2 sigma CE + / -	Original MDA pCi/l	Original Lc pCi/l	DUP Result pCi/l	DUP 2 sigma CE + / -	DUP MDA pCi/l	DUP Lc pCi/l	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-228	1.06	0.660	1.07	0.337	1.70	0.750	1.18	0.371	46.1	0.636		20	3
(T) Barium	104				96.8	96.8							
(T) Yttrium	103				94.4	94.4							

Laboratory Control Sample (LCS)

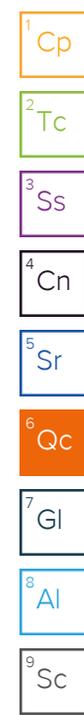
(LCS) R4304733-2 11/19/25 17:17

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	4.92	98.3	80.0-120	
(T) Barium			88.6		
(T) Yttrium			104		

L1911536-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1911536-02 11/19/25 17:17 • (MS) R4304733-3 11/19/25 17:17 • (MSD) R4304733-4 11/19/25 17:17

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-228	10.0	1.03	10.7	10.3	96.8	93.2	1	70.0-130			3.42		20
(T) Barium		92.6			86.4	91.4							
(T) Yttrium		94.2			94.4	111				<u>C1</u>			



Method Blank (MB)

(MB) R4302839-1 11/17/25 22:24

Analyte	MB Result	MB Qualifier	MB 2 sigma CE	MB MDA	MB Lc
	pCi/l		+ / -	pCi/l	pCi/l
Radium-226	-0.0165	<u>U</u>	0.0255	0.0777	0.0235
(T) Barium-133	90.1		90.1		

L1916763-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1916763-03 11/17/25 22:24 • (DUP) R4302839-5 11/17/25 22:24

Analyte	Original Result	Original 2 sigma CE	Original MDA	Original Lc	DUP Result	DUP 2 sigma CE	DUP MDA	DUP Lc	DUP RPD	DUP RER	DUP Qualifier	DUP RPD Limits	DUP RER Limit
	pCi/l	+ / -	pCi/l	pCi/l	pCi/l	+ / -	pCi/l	pCi/l	%			%	
Radium-226	0.0597	0.135	0.247	0.0597	0.268	0.234	0.273	0.0779	127	0.770	<u>J</u>	20	3
(T) Barium-133	83.8				76.6	76.6							

Laboratory Control Sample (LCS)

(LCS) R4302839-2 11/17/25 22:24

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	pCi/l	pCi/l	%	%	
Radium-226	5.00	5.46	109	80.0-120	
(T) Barium-133			66.1		

L1916756-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1916756-01 11/17/25 22:24 • (MS) R4302839-3 11/17/25 22:24 • (MSD) R4302839-4 11/17/25 22:24

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	MS RER	RPD Limits
	pCi/l	pCi/l	pCi/l	pCi/l	%	%		%			%		%
Radium-226	20.0	0.980	22.0	22.7	105	109	1	75.0-125			3.26		20
(T) Barium-133		86.6			82.8	79.6							



Guide to Reading and Understanding Your Laboratory Report

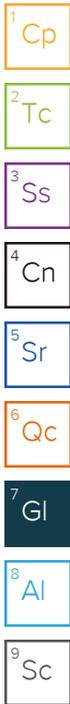
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDA	Minimum Detectable Activity.
Rec.	Recovery.
RER	Replicate Error Ratio.
TPU	Total Propagated Uncertainty reported at 2 sigma (counting error plus all measurable variables).
Lc	Decision Level or Critical Level. DOE required Detection limit at a 68% confidence level.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(T)	Tracer - A radioisotope of known concentration added to a solution of chemically equivalent radioisotopes at a known concentration to assist in monitoring the yield of the chemical separation.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
U (Radiochemistry)	Result + Error < MDA.
J (Radiochemistry)	Result < MDA; Result + Error > MDA.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
C1	Tracer recovery limits have been exceeded; values are outside upper control limits.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
U	Below Detectable Limits: Indicates that the analyte was not detected.



# ACCREDITATIONS & LOCATIONS

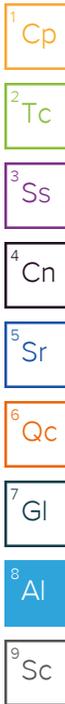
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico <sup>1</sup>	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1,6</sup>	KY90010	South Carolina	84004002
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

\* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.



**SUBCONTRACT ORDER**  
**Transfer Chain of Custody**

**Pace Analytical Services, LLC**  
**IK01448**

**B011**

**SENDING LABORATORY**

PDC Laboratories, Inc.  
 2231 W Altorfer Dr  
 Peoria, IL 61615  
 (800) 752-6651

**RECEIVING LABORATORY**

Pace Analytical - Mt Juliet, Tn  
 12065 Lebanon Rd  
 Mt Juliet, TN 37122  
 (615) 758-5858

*LI916762*

**Sample: IK01448-01**  
**Name: 18S**

**Sampled: 11/04/25 11:09**  
**Matrix: Ground Water**  
**Preservative: HNO3, pH <2**

*-01*

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	11/26/25 16:00	05/03/26 11:09	

**Sample: IK01448-02**  
**Name: 45S**

**Sampled: 11/04/25 15:02**  
**Matrix: Ground Water**  
**Preservative: HNO3, pH <2**

*-02*

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	11/26/25 16:00	05/03/26 15:02	

**Sample: IK01448-03**  
**Name: 47**

**Sampled: 11/04/25 12:31**  
**Matrix: Ground Water**  
**Preservative: HNO3, pH <2**

*-03*

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	11/26/25 16:00	05/03/26 12:31	

**Sample: IK01448-04**  
**Name: 45S Dup**

**Sampled: 11/04/25 15:02**  
**Matrix: Ground Water**  
**Preservative: HNO3, pH <2**

*-04*

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	11/26/25 16:00	05/03/26 15:02	

*11.4-0.0-11.4*

**Sample Receipt Checklist**

Total Present/Intact:  Y  N  NP If Applicable  
 Signed/Accurate:  Y  N VOR Zero Headspace:  Y  N  
 Samples arrive intact:  Y  N Pres. Correct/Check:  Y  N  
 Correct bottles used:  Y  N Condition:  NCF  OK  
 Correct volume sent:  Y  N  
 Residual <0.5 mR/hr:  Y  N

**8 TOTAL**

**SUBCONTRACT ORDER**  
**Transfer Chain of Custody**

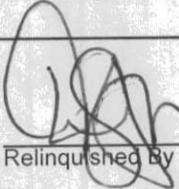
Pace Analytical Services, LLC

IK01448

U916762

Please email results to Diane Billings at [diane.billings@pacelabs.com](mailto:diane.billings@pacelabs.com)

Date Shipped: 11/10/25 Total # of Containers: 8 Sample Origin (State): IL PO #: \_\_\_\_\_  
Turn-Around Time Requested  NORMAL  RUSH Date Results Needed: \_\_\_\_\_

	<u>11/10/25</u>	<u>1:30</u>			Sample Temperature Upon Receipt _____ °C
Relinquished By	Date/Time	Received By	Date/Time		Sample(s) Received on Ice Y or N
		<u>Christopher Yellin</u>	<u>11/11/25</u>		Proper Bottles Received in Good Condition Y or N
Relinquished By	Date/Time	Received By	Date/Time		Bottles Filled with Adequate Volume Y or N
					Samples Received Within Hold Time Y or N
					Date/Time Taken From Sample Bottle Y or N

0900





I305413

**CHAIN-OF-CUSTODY / Analytical Request Document**

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

<b>Section A</b> Required Client Information: Company: <b>Vistra Corp-Hennepin</b> Address: <b>13498 E 800th St                  Hennepin, IL 61327</b> Email To: <b>Brian.Voelker@VistraCorp.com</b> Phone: <b>(217) 753-8911</b> Fax: Requested Due Date/FAT: <b>10 day</b>		<b>Section B</b> Required Project Information: Report To: <b>Brian Voelker</b> Copy To: <b>Jason.Shuckey@vistracorp.com</b> <b>Michael.Oliffe@vistracorp.com</b> <b>Robert.Johnson@vistracorp.com</b> Purchase Order No.: Project Name: Project Number:		<b>Section C</b> Invoice Information: Attention: <b>Brian Voelker</b> Company Name: <b>Vistra Corp</b> Address: <b>see Section A</b> Quote Reference: Project Manager: Profile #		Page: <b>1</b> of <b>2</b>	
<b>Section D</b> Required Client Information: SAMPLE ID (A-Z, 0-9, /, -) Sample IDs MUST BE UNIQUE <b>27 - Field dup                  Equipment blank #1</b>		Valid Matrix Codes MATRIX CODE WASTEWATER WW WATER WATER WW PRODUCT P FUGITIVELY F OIL OIL WASTE WASTE AIR AIR GASES GASES TISSUE TISSUE		MATRIX CODE (see valid codes to left) SAMPLE TYPE (G=GRAB C=COMP) DATE TIME <b>10/28/25 12:47</b> <b>10/28/25 14:35</b>		COLLECTED DATE TIME <b>10/28/25 12:47</b> <b>10/28/25 14:35</b>	
# OF CONTAINERS UNPRESERVED H <sub>2</sub> SO <sub>4</sub> HNO <sub>3</sub> HCl NaOH Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> Methanol Other		PRESERVATIVES Y/N Analysis Test		Requested Analysis Filtered (Y/N)		Residual Chlorine (Y/N)	
Project No./ Lab I.D. <b>Field@218</b>		DATE TIME <b>10/28/25 16:15</b>		DATE TIME <b>10/28/25 7:31</b>		SAMPLE CONDITIONS Received on Ice (Y/N) Custody Sealed (Y/N) Inact (Y/N)	
ADDITIONAL COMMENTS <b>HEN-25Q4 Rev 0</b>		RELINQUISHED BY / AFFILIATION <b>Ashley Whiteska</b>		ACCEPTED BY / AFFILIATION <b>Carolina Bennett</b>		Temp in °C	
SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER: <b>Ashley Whiteska</b> SIGNATURE of SAMPLER: 		DATE SIGNED (MM/DD/YYYY): <b>10/28/25</b>		DATE SIGNED (MM/DD/YYYY): <b>10/28/25</b>		Temp in °C	

**ENV-FRM-PEOR-0098 v05\_Sample Condition Upon Receipt**

Client Name: Vista Work Order #: IJ05413 / 110542 Completed by / Date: CB 10/29/25

Custody seal on cooler/box present and seal intact:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Chain of Custody (CoC) Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
CoC is Legible:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Sampler Name Present on CoC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Sampler Signature Present on CoC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Sample Collection Date Present on CoC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Sample Collection Time Present on CoC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
CoC Relinquished by Client:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Unique Sample ID's Present on CoC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
CoC and Sample Container Labels Match:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Sample chilling process started prior to receipt: If yes, what type of ice:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/> Wet <input type="checkbox"/> Blue
Samples received within temperature compliance: ( $\leq 6^{\circ}\text{C}$ , but above freezing or received same day collected and chill process started prior to receipt)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Container(s) Received Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Containers Received Labeled and Labels are Legible:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Appropriate Bottles Received for Analysis Requested:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Sufficient Sample Volume Received:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
USDA Regulated Soil: Country of Origin: _____ State of Origin: _____	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Trip Blank(s) Received: If present, are they Listed on CoC:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No
VOA vials are free of any headspace larger than pea sized bubble (>6mm) – Applies to methods 8260, 624, 524.2 - including THM vials If headspace is present, note sample ID and # of vials	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
All (Non-Field) Analysis Received Within Hold Times:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Rush Turn Around Time Requested or Time Sensitive Analysis:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Short Hold Time Analysis (48 Hours or Less):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

**Client Notification/ Resolution:** If checked, please see attached form for additional comments   
 Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Comments/ Resolution: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

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

WORK ORDER #: W05413 / W05421 INITIALS: CRB

	Plastic Bottles									
	-1	-2	-3	-4	-5	-6	-7	-8	-9	-10
P, U, 1000ml - Total + D/S	2	2	1	1	1	1	2	1	2	
P, U, 250ml									1	
P, U, 500ml - Total										
P, U, 500ml - Diss			1	1	1	1		1		
P, (250ml)/500ml H <sub>2</sub> SO <sub>4</sub> - Total	1	1					1		1	
P, 250ml/500ml H <sub>2</sub> SO <sub>4</sub> - Diss										
P, (250ml)/500ml NaOH	1	1	1	1	1	1	1	1	1	
P, (250ml)/500ml HNO <sub>3</sub> - Total			1	1	1	1	X	1	1	
P, (250ml)/500ml HNO <sub>3</sub> - Diss	1	1					1		1	
P, 500ml NaOH + ZnAc										
P, U, 150ml/4oz TC										
P, 2.5L HNO <sub>3</sub>										
P, U, 2.5L										
P, U, 50ml										
S, P, 120ml Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>										
P, 16oz - Soil/Sludge										

	Amber Glass Bottles - Vials									
A, G, U, 1000ml										
A, G, 1000ml HCl										
A, G, 1000ml MeCl <sub>2</sub>										
A, G, 500ml H <sub>2</sub> SO <sub>4</sub>										
A, G, U, 500ml										
A, G, U, 250ml H <sub>2</sub> SO <sub>4</sub>	1	1	1	1	1	1	1	1	1	
A, G, U, 250ml										
A, V, 40ml H <sub>2</sub> SO <sub>4</sub>										
A, V, U, 60ml										

	Clear Glass Bottles - Soil/Sludge Jars - Vials									
C, G, 1000ml HCl										
C, G, U, 1000ml										
C, G, U, 250ml - LLHg										
C, G, U, 250ml - LLHg - FB										
C, G, 16oz - Soil Jar										
C, G, 9oz - Soil Jar										
C, G, 4oz - Soil Jar										
C, G, 2oz - Soil Jar										
C, V, 40ml TSP										
C, V, 40ml HCl									3	3
C, V, U, 40ml										
C, V, 40ml Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>										
C, V, 40ml MeOH										
C, V, 40ml Sodium Bisulfate										
C, V, U, 60ml										

	Client Supplied									
Description										







1K00258 /  
 1K00259

**CHAIN-OF-CUSTODY / Analytical Request Document**

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:	
Company: Vistra Corp-Hennepin	Report To: Brian Voelker	Attention: Brian Voelker	Company Name: Vistra Corp	REGULATORY AGENCY	
Address: 13498 E 800th St Hennepin, IL 61327	Copy To: jason.sluckey@vistracorp.com Michael.Olle@vistracorp.com Robert.Johnson@vistracorp.com	Address: see Section A	Address: see Section A	NPDES	GROUND WATER
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.:	Quote Reference: Project Manager:	UST	RCRA	OTHER
Phone: (217) 753-8911	Project Name:	Profile #:	Site Location	STATE:	IL
Requested Due Date/TAT: 10 day	Project Number:				

ITEM #	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WASTE WATER WW WASTEWATER WW WASTEWATER SI SOIL/SOLID SI OIL WIP WIFE WIP AIR AR OTHER OT TISSUE TS	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE TIME	SAMPLER NAME AND SIGNATURE	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	Requested Analysis Filtered (Y/N)		Project No. / Lab I.D.
											Y	N	
1													
2													
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													
13													
14													
15													
16													

<b>ADDITIONAL COMMENTS</b>		<b>SAMPLE CONDITIONS</b>	
HEN-25Q4 Rev 0		Temp in °C	
3-Nov-25 17:37		Custody Sealed (Y/N)	
Austin M		Cooler (Y/N)	
Sophia Lehtinen		Received on (Y/N)	
DATE SIGNED (MM/DD/YYYY): 11/03/25		Date Signed (MM/DD/YYYY): 11-25 17:37	

**SAMPLER NAME AND SIGNATURE**

PRINT Name of SAMPLER: Austin Moore

SIGNATURE of SAMPLER: *Austin M*

DATE SIGNED (MM/DD/YYYY): 11/03/25



ENV-FRM-25-08-0098 v05\_Sample Condition Upon Receipt

Client Name: \_\_\_\_\_ Work Order #: 1K00258 / 259 Completed by / Date: \_\_\_\_\_

Custody seal on cooler/box present and seal intact:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Chain of Custody (CoC) Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No	
CoC is Legible:	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Sampler Name Present on CoC:	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Sampler Signature Present on CoC:	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Sample Collection Date Present on CoC:	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Sample Collection Time Present on CoC:	<input type="checkbox"/> Yes <input type="checkbox"/> No	
CoC Relinquished by Client:	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Unique Sample ID's Present on CoC:	<input type="checkbox"/> Yes <input type="checkbox"/> No	
CoC and Sample Container Labels Match:	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Sample chilling process started prior to receipt: If yes, what type of ice:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> Wet <input type="checkbox"/> Blue	
Samples received within temperature compliance: ( $\leq 6^{\circ}\text{C}$ , but above freezing or received same day collected and chill process started prior to receipt)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Container(s) Received Intact:	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Containers Received Labeled and Labels are Legible:	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Appropriate Bottles Received for Analysis Requested:	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Sufficient Sample Volume Received:	<input type="checkbox"/> Yes <input type="checkbox"/> No	
USDA Regulated Soil: Country of Origin: _____ State of Origin: _____	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Trip Blank(s) Received: If present, are they Listed on CoC:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No	
VOA vials are free of any headspace larger than pea sized bubble (>6mm) – Applies to methods 8260, 624, 524.2 - including THM vials *If headspace is present, note sample ID and # of vials	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
All (Non-Field) Analysis Received Within Hold Times:	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Rush Turn Around Time Requested or Time Sensitive Analysis:	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Short Hold Time Analysis (48 Hours or Less):	<input type="checkbox"/> Yes <input type="checkbox"/> No	

**Client Notification/ Resolution:** \_\_\_\_\_ If checked, please see attached form for additional comments

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments/ Resolution: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

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

WORK ORDER #: 1200258/259 INITIALS: EB#2 #08 #18D #35 #22D #03R #13 FRB

	-1	-2	-3	-4	-5	-6	-7	-8	-9	-10
<b>Plastic Bottles</b>										
P, U, 1000ml - Total <u>+D</u>	<u>2</u>	<u>2</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>2</u>			
P, U, 250ml	<u>1</u>	<u>1</u>	<u>1</u>			<u>1</u>				
P, U, 500ml - Total			<u>1</u>							
P, U, 500ml - Diss			<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>				
P, 250ml/500ml H <sub>2</sub> SO <sub>4</sub> - Total	<u>1</u>	<u>1</u>					<u>1</u>			
P, 250ml/500ml H <sub>2</sub> SO <sub>4</sub> - Diss										
P, 250ml/500ml NaOH	<u>1</u>									
P, 250ml/500ml HNO <sub>3</sub> - Total	<u>1</u>									
P, 250ml/500ml HNO <sub>3</sub> - Diss	<u>1</u>	<u>1</u>					<u>1</u>			
P, 500ml NaOH + ZnAc										
P, U, 150ml/4oz TC										
P, 2.5L HNO <sub>3</sub>										
P, U, 2.5L										
P, U, 50ml										
S, P, 120ml Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>										
P, 16oz - Soil/Sludge										

<b>Amber Glass Bottles - Vials</b>										
A, G, U, 1000ml										
A, G, 1000ml HCl										
A, G, 1000ml MeCl <sub>2</sub>										
A, G, 500ml H <sub>2</sub> SO <sub>4</sub>										
A, G, U, 500ml										
A, G, U, 250ml H <sub>2</sub> SO <sub>4</sub>	<u>1</u>	<u>1</u>		<u>1</u>	<u>1</u>		<u>1</u>			
A, G, U, 250ml										
A, V, 40ml H <sub>2</sub> SO <sub>4</sub>										
A, V, U, 60ml										

<b>Clear Glass Bottles - Soil/Sludge Jars - Vials</b>										
C, G, 1000ml HCl										
C, G, U, 1000ml										
C, G, U, 250ml - LLHg										
C, G, U, 250ml - LLHg - FB										
C, G, 16oz - Soil Jar										
C, G, 9oz - Soil Jar										
C, G, 4oz - Soil Jar										
C, G, 2oz - Soil Jar										
C, V, 40ml TSP										
C, V, 40ml HCl	<u>3</u>	<u>3</u>	<u>3</u>			<u>3</u>		<u>3</u>		
C, V, U, 40ml										
C, V, 40ml Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>										
C, V, 40ml MeOH										
C, V, 40ml Sodium Bisulfate										
C, V, U, 60ml										

<b>Client Supplied</b>										
Description	<u>P, 1000ml Rad HNO<sub>3</sub> - (2) fraction</u>									





1K01122

**CHAIN-OF-CUSTODY / Analytical Request Document**

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

<b>Section A</b> Required Client Information: Company: <b>Vistra Corp-Hennepin</b> Address: <b>13498 E 800th St                  Hennepin, IL 61327</b> Email To: <b>Brian.Voelker@VistraCorp.com</b> Phone: <b>(217) 753-8911</b> Fax: Requested Due Date/TAT: <b>10 day</b>		<b>Section B</b> Required Project Information: Report To: <b>Brian Voelker</b> Copy To: <b>Jason.Stuckey@vistracorp.com</b> Michael.Oller@vistracorp.com Robert.Johnson@vistracorp.com Purchase Order No.: Project Name: Project Number:		<b>Section C</b> Invoice Information: Attention: <b>Brian Voelker</b> Company Name: <b>Vistra Corp</b> Address: <b>see Section A</b> Quote Reference: Project Manager: Profile #:		REGULATORY AGENCY NPDES <b>GROUND WATER</b> <b>DRINKING WATER</b> UST <b>RCRA</b> <b>OTHER</b> Site Location <b>IL</b> STATE:		Page: <b>1</b> of <b>2</b>	
<b>Section D</b> Required Client Information: Valid Matrix Codes MATRIX: DW WASTE WATER P OIL/SOIL WIFE AIR OTHER TISSUE SAMPLE ID: <b>54-DUP</b> (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE		Valid Matrix Codes MATRIX: DW WASTE WATER P OIL/SOIL WIFE AIR OTHER TISSUE SAMPLE ID: <b>Trip Blank #3</b>		Valid Matrix Codes MATRIX: DW WASTE WATER P OIL/SOIL WIFE AIR OTHER TISSUE SAMPLE ID:		Valid Matrix Codes MATRIX: DW WASTE WATER P OIL/SOIL WIFE AIR OTHER TISSUE SAMPLE ID:		Valid Matrix Codes MATRIX: DW WASTE WATER P OIL/SOIL WIFE AIR OTHER TISSUE SAMPLE ID:	
Section D Required Client Information: MATRIX CODE (see valid codes to left) SAMPLE TYPE (G=GRAB C=COMP) DATE TIME COLLECTED SAMPLE TEMP AT COLLECTION # OF CONTAINERS Preservatives HCl HNO <sub>3</sub> H <sub>2</sub> SO <sub>4</sub> Unpreserved Analysis Test Y/N Requested Analysis Filtered (Y/N)		Section D Required Client Information: MATRIX CODE (see valid codes to left) SAMPLE TYPE (G=GRAB C=COMP) DATE TIME COLLECTED SAMPLE TEMP AT COLLECTION # OF CONTAINERS Preservatives HCl HNO <sub>3</sub> H <sub>2</sub> SO <sub>4</sub> Unpreserved Analysis Test Y/N Requested Analysis Filtered (Y/N)		Section D Required Client Information: MATRIX CODE (see valid codes to left) SAMPLE TYPE (G=GRAB C=COMP) DATE TIME COLLECTED SAMPLE TEMP AT COLLECTION # OF CONTAINERS Preservatives HCl HNO <sub>3</sub> H <sub>2</sub> SO <sub>4</sub> Unpreserved Analysis Test Y/N Requested Analysis Filtered (Y/N)		Section D Required Client Information: MATRIX CODE (see valid codes to left) SAMPLE TYPE (G=GRAB C=COMP) DATE TIME COLLECTED SAMPLE TEMP AT COLLECTION # OF CONTAINERS Preservatives HCl HNO <sub>3</sub> H <sub>2</sub> SO <sub>4</sub> Unpreserved Analysis Test Y/N Requested Analysis Filtered (Y/N)		Section D Required Client Information: MATRIX CODE (see valid codes to left) SAMPLE TYPE (G=GRAB C=COMP) DATE TIME COLLECTED SAMPLE TEMP AT COLLECTION # OF CONTAINERS Preservatives HCl HNO <sub>3</sub> H <sub>2</sub> SO <sub>4</sub> Unpreserved Analysis Test Y/N Requested Analysis Filtered (Y/N)	
ADDITIONAL COMMENTS <b>HEN-25Q4 Rev 0</b>		RELINQUISHED BY / AFFILIATION <b>Andy Hitts</b>		DATE TIME <b>11/05/25 15:38</b>		ACCEPTED BY / AFFILIATION <b>Andy Hitts</b>		DATE TIME <b>11/25/25 15:38</b>	
SAMPLE NO. / LAB I.D.		RECEIVED ON Temp in °C		SEaled COoler (Y/N)		REceived on Temp in °C		SAMPLE CONDITIONS	

WORK ORDER #: IK0117/IK0112 INITIALS: JS

	Plastic Bottles									
	-1	-2	-3	-4	-5	-6	-7	-8	-9	-10
P, U, 1000ml - Total	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
P, U, 250ml	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
P, U, 500ml - Total	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
P, U, 500ml - Diss	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
P, 250ml/500ml H <sub>2</sub> SO <sub>4</sub> - Total	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
P, 250ml/500ml H <sub>2</sub> SO <sub>4</sub> - Diss	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
P, 250ml/500ml NaOH	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
P, 250ml/500ml HNO <sub>3</sub> - Total	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
P, 250ml/500ml HNO <sub>3</sub> - Diss	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
P, 500ml NaOH + ZnAc	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
P, U, 150ml/4oz TC	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
P, 2.5L HNO <sub>3</sub>	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
P, U, 2.5L	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
P, U, 50ml	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
S, P, 120ml Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
P, 16oz - Soil/Sludge	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
Amber Glass Bottles - Vials										
A, G, U, 1000ml	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
A, G, 1000ml HCl	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
A, G, 1000ml MeCl <sub>2</sub>	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
A, G, 500ml H <sub>2</sub> SO <sub>4</sub>	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
A, G, U, 500ml	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
A, G, U, 250ml H <sub>2</sub> SO <sub>4</sub>	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
A, G, U, 250ml	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
A, V, 40ml H <sub>2</sub> SO <sub>4</sub>	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
A, V, U, 60ml	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
Clear Glass Bottles - Soil/Sludge Jars - Vials										
C, G, 1000ml HCl	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
C, G, U, 1000ml	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
C, G, U, 250ml - LLHg	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
C, G, U, 250ml - LLHg - FB	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
C, G, 16oz - Soil Jar	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
C, G, 9oz - Soil Jar	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
C, G, 4oz - Soil Jar	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
C, G, 2oz - Soil Jar	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
C, V, 40ml TSP	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
C, V, 40ml HCl	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
C, V, U, 40ml	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
C, V, 40ml Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
C, V, 40ml MeOH	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
C, V, 40ml Sodium Bisulfate	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
C, V, U, 60ml	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
Client Supplied										
Description										
<u>P 1000 RAD</u>	<u>2</u>	<u>2</u>	<u>2</u>	<u>2</u>	<u>2</u>	<u>2</u>	<u>2</u>			





**CHAIN-OF-CUSTODY / Analytical Request Document**  
 The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

**Section A**  
 Required Client Information:  
 Company: **Vistra Corp-Hennepin**  
 Address: **13498 E 800th St  
 Hennepin, IL 61327**  
 Email To: **Brian.Voelker@VistraCorp.com**  
 Phone: **(217) 753-8911** Fax:  
 Requested Due Date/TAT: **10 day**

**Section B**  
 Required Project Information:  
 Report To: **Brian Voelker**  
 Copy To: **Jason.Stuckey@vistracorp.com**  
**Michael.Olle@vistracorp.com**  
**Robert.Johnson@vistracorp.com**  
 Purchase Order No.:  
 Project Name:  
 Project Number:

**Section C**  
 Invoicing Information:  
 Attention: **Brian Voelker**  
 Company Name: **Vistra Corp**  
 Address: **see Section A**  
 Quote Reference:  
 Project Manager:  
 Profile #:

**REGULATORY AGENCY**  
 NPDES  GROUND WATER  DRINKING WATER   
 UST  RCRA  OTHER   
 Site Location: **IL**  
 STATE:

Page: **1** of **2**

ITEM #	Section D Required Client Information	Valid Matrix Codes	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		# OF CONTAINERS	Preservatives	Analysis Test	Requested Analysis Filtered (Y/N)		Project No. / Lab I.D.
					DATE	TIME				Y	N	
1	SAMPLE ID (A-Z, 0-9 / - / -) Sample IDs MUST BE UNIQUE	DRAINAGE WATER DW WATER WW WASTE WATER WW INDUSTRIAL WASTE IW SOIL SOLID SL OIL SOLID OL WFE WP WR OTHER OT TRISSE TS	WT	G	4-Nov-25	1502	10	Unpreserved HCl HNO <sub>3</sub> H <sub>2</sub> SO <sub>4</sub> NaOH Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> Methanol Other	Residual Chlorine (Y/N)	HEN-257-802	HEN-WPCP-East	HEN-845-803
2										HEN-257-803	HEN-WPCP-West	
3										HEN-257-804		
4										HEN-257-805		
5										HEN-811-801		
6										HEN-845-802-805		
7										HEN-845-804		
8										HEN-845-804		
9										HEN-845-804		
10										HEN-845-802-805		
11										HEN-811-801		
12										HEN-257-804		
13										HEN-257-803		
14										HEN-257-803		
15										HEN-257-802		
16										HEN-257-802		

**ADDITIONAL COMMENTS**  
**HEN-25Q4 Rev 0**

RELINQUISHED BY / AFFILIATION: *Quinn M* DATE: *4-Nov-25* TIME: *1657*  
 ACCEPTED BY / AFFILIATION: *Sol Keef* DATE: *11/4/25* TIME: *1657*

SAMPLER NAME AND SIGNATURE:  
 PRINT Name of SAMPLER: *Aysia Moore* DATE Signed (MM/DD/YYYY): *11/04/25*  
 SIGNATURE of SAMPLER: *Aysia Moore*

Temp in °C: \_\_\_\_\_  
 Received on: \_\_\_\_\_  
 Loc (Y/N): \_\_\_\_\_  
 Custody Sealed (Y/N): \_\_\_\_\_  
 Samples Intact (Y/N): \_\_\_\_\_

IR Gun # 17 Correction Factor (Deg C) 0.2  
 Observed Temp (Deg C) 2.8 Corrected Temp (Deg C) 2.6  
 Delivery Method: FedEx UPS Walk-in USPS Other

**Vistra Hennepin**

WELL/SAMPLE POINT 02

Purge Method: Dedicated Bladder Pump

Date: 10/27/25 Start Time: 13:24 Finish/Sample Time: 14:13

Well Depth (Bottom) From MP:      ft Min. Purge Volume: 1000 mL

Depth to Water From MP: 45.38 ft Total Purge Volume: 3100 mL

Water Column Length:      ft

Well Water Volume:      L Total Drawdown: 0.0 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	13:34	45.38	100	7.18	1072	15.94	128	6.16	0.6
2	13:37	45.38	100	7.08	1043	15.74	126	3.45	0.0
3	13:40	45.38	100	7.04	1021	15.85	122	2.37	0.0
4	13:43	45.38	100	7.02	985	13.99	122	2.13	0.0
5	13:44	45.38	100	7.02	980	13.75	123	2.20	0.0
Stabilization	NA	NA	NA	±0.1	±3%	±0.1	±10	±10% or 0.2	10% if >10

Field Meter: Hanna

Secondary pH Meter:     

Sample Appearance:

Odor:  None  Slight  Mod.  Strong  
 Color:  None  Slight  Mod.  Strong  
 Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	X	
Casing locked/secure	X	
Well cap fits securely.	X	
Good seal/drainage	X	
Well has weep holes	X	

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
3	VOAs (C,V, 40mL, HCL)
	VOAs (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 500mL, H2SO4)
1	Metals (P,250mL, HNO3)
1	Cyanide (P, 250mL, NaOH)
	General (P,1000mL)
1	General (P, 500 mL)
	Ammonia (P, 250mL, H2SO4)
	Rad (P, 2.5L, HNO3)
1	Unpreserved (P, 250mL)

8

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P,500mL)
	General (P,1000mL)
	TOC (A,V, 40mL, H2SO4)

Final DTW: 45.38 ft

Comments

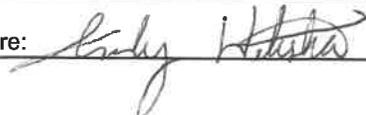
Sampler's Signature: *[Signature]*

WELL/SAMPLE POINT 02 (Cont.)

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
6	13:49	45.38	100	7.01	972	13.73	124	2.15	0.0
7	13:52	45.38	100	6.99	955	13.70	126	2.08	0.0
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

Comments

Sampler's Signature:



WELL/SAMPLE POINT 03R

Purge Method: Dedicated Bladder

Date: 3-Nov-25 Start Time: 1356 Finish/Sample Time: 1433

Well Depth (Bottom) From MP: N/A ft  
 Min. Purge Volume: 1000 mL  
 Depth to Water From MP: 35.56 ft  
 Total Purge Volume: 1800 mL  
 Water Column Length: N/A ft  
 Well Water Volume: N/A L  
 Total Drawdown: 0 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1401	35.56	200	7.20	924	17.44	90.5	0.01	2.8
2	1403	35.56	L	7.18	923	17.40	90.1	0.01	3.9
3	1405	35.56	L	7.20	922	17.39	89.3	0.00	3.5
4									
5									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

Field Meter: Hanna

Secondary pH Meter: N/A

Sample Appearance:  
 Odor:  None  Slight  Mod.  Strong  
 Color:  None  Slight  Mod.  Strong  
 Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	/	
Casing locked/secure	/	
Well cap fits securely.	/	
Good seal/drainage	/	
Well has weep holes	/	

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
3	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 500mL, H2SO4)
1	Metals (P,250mL, HNO3)
1	Cyanide (P, 250mL, NaOH)
1	General (P,1000mL)
1	General (P, 500 mL) <u>250</u>
	Ammonia (P, 250mL, H2SO4)
2	Rad (P, 2.5L, HNO3) <u>1000</u>

10

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)
	General (P,1000mL)
	TOC (A,V, 40mL, H2SO4)

Final DTW: 35.56 ft

Comments \_\_\_\_\_

Sampler's Signature: [Signature]

WELL/SAMPLE POINT 05DR

Purge Method: Compressor

Date: 10/28/25 Start Time: 1320 Finish/Sample Time: 1420

Well Depth (Bottom) From MP: 71.52 ft  
 Depth to Water From MP: 41.81 ft  
 Water Column Length: 30.29 ft  
 Well Water Volume: 18.34 L

Min. Purge Volume: 1000 mL  
 Total Purge Volume: 2800 mL  
 Total Drawdown: 0.02 ft  
~~41.83~~ ft

APP 10/29/25

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1345	41.83	200	7.52	873	16.58	95.8	0.01	1.8
2	1348	41.83	200	7.50	871	16.62	99.3	0.01	1.7
3	1351	41.83	200	7.50	872	16.61	103.4	0.01	1.6
4									
5									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

Field Meter: Hanna

Secondary pH Meter: \_\_\_\_\_

Sample Appearance:

Odor:  None  Slight  Mod.  Strong  
 Color:  None  Slight  Mod.  Strong  
 Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Casing locked/secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well cap fits securely.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Good seal/drainage	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well has weep holes	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
1	TOX (A,G 500mL, H2SO4)
	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
1	General (P,1000mL)
	General (P, 500 mL)
1	Ammonia (P, 250mL, H2SO4)
	Rad (P, 2.5L, HNO3)

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
1	Ammonia (P,250mL, H2SO4)
	General (P,500mL)
1	General (P,1000mL)
	TOC (A,V, 40mL, H2SO4)

Final DTW: 41.83 ft

Comments \_\_\_\_\_

Sampler's Signature: Bohannon

WELL/SAMPLE POINT 05R

Purge Method: Compressor

Date: 10/28/25 Start Time: 1202 Finish/Sample Time: 1306

Well Depth (Bottom) From MP: 49.15 ft Min. Purge Volume: 1000 mL  
 Depth to Water From MP: 41.78 ft Total Purge Volume: 2350 mL  
 Water Column Length: 7.37 ft  
 Well Water Volume: 4.46 L Total Drawdown: 0.01 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	<del>1229</del>	41.79	150	7.67	872	16.85	168.8	0.00	15.8
2	1230	41.79	150	7.65	872	16.90	168.9	0.00	16.4
3	1230	41.79	150	7.68	872	16.88	169.3	0.00	16.5
4									
5									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

Field Meter: Hanna

Secondary pH Meter: \_\_\_\_\_

Sample Appearance:  
 Odor:  None  Slight  Mod.  Strong  
 Color:  None  Slight  Mod.  Strong  
 Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	X	
Casing locked/secure	X	
Well cap fits securely.	X	
Good seal/drainage	X	
Well has weep holes	X	

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAs (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
1	TOX (A,G 500mL, H2SO4)
	Metals (P,250mL, HNO3)
1	Cyanide (P, 250mL, NaOH)
1	General (P,1000mL)
	General (P, 500 mL)
	Ammonia (P, 250mL, H2SO4)
	Rad (P, 2.5L, HNO3)

⑥

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
1	Ammonia (P,250mL, H2SO4)
	General (P,500mL)
1	General (P,1000mL)
	TOC (A,V, 40mL, H2SO4)

Final DTW: 41.79 ft

Comments \_\_\_\_\_

Sampler's Signature: J. Bohannon

WELL/SAMPLE POINT 07

Purge Method: Dedicated bladder pump

Date: 11/05/25 Start Time: 11:37 Finish/Sample Time: 12:20

Well Depth (Bottom) From MP:          ft Min. Purge Volume: 1000 mL

Depth to Water From MP: 68.77 ft Total Purge Volume: 2200 mL

Water Column Length:          ft 3200 APP 11/10/25

Well Water Volume:          L Total Drawdown: 0.0 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	11:44	68.77	200	7.29	1142	14.28	125	7.24	1.4
2	11:46	68.77	200	7.15	1148	13.61	133	7.19	0.0
3	11:48	68.77	200	7.19	1171	13.24	138	6.66	0.0
4	11:50	68.77	200	7.20	1185	12.98	142	6.38	0.0
5	11:52	68.77	200	7.18	1185	12.91	145	6.22	0.0
Stabilization	NA	NA	NA	±0.1	±3%	±0.1	±10	±10% or 0.2	10% if >10

Field Meter: Hanna

Secondary pH Meter:         

Sample Appearance:

Odor:  None  Slight  Mod.  Strong

Color:  None  Slight  Mod.  Strong

Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Casing locked/secure	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Well cap fits securely.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Good seal/drainage	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well has weep holes	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
<u>3</u>	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 500mL, H2SO4)
<u>1</u>	Metals (P,250mL, HNO3)
<u>1</u>	Cyanide (P, 250mL, NaOH)
<u>1</u>	General (P,1000mL)
<u>1</u>	General (P, <del>500</del> mL) <u>250mL</u>
	Ammonia (P, 250mL, H2SO4)
<u>2</u>	Rad (P, <del>2.5</del> L, HNO3) <u>1000mL</u>

10

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
<u>1</u>	General (P,500mL)
	General (P,1000mL)
	TOC (A,V, 40mL, H2SO4)

Final DTW: 68.77 ft

Comments Casing is locked but well cap is broken.

Sampler's Signature: [Signature]

**WELL/SAMPLE POINT 07 (Cont.)**

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
6	11:54	68.77	200	7.17	1183	12.89	146	6.02	0.0
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

Comments

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Sampler's Signature: \_\_\_\_\_



WELL/SAMPLE POINT 08

Purge Method: portable pump

Date: 11/03/25 Start Time: 13:18 Finish/Sample Time: 14:10

Well Depth (Bottom) From MP: 64.09 ft Min. Purge Volume: 1000 mL

Depth to Water From MP: 54.20 ft Total Purge Volume: 2200 mL

Water Column Length: 9.89 ft

Well Water Volume: 5.99 L Total Drawdown: 0.2 ft

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Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	13:26	54.22	200	6.78	2126	15.54	117	1.37	69.6
2	13:28	54.22	200	6.75	2116	15.05	114	3.54	31.6
3	13:30	54.22	200	6.74	2110	14.92	109	3.05	15.9
4	13:32	54.22	200	6.73	2105	15.00	104	2.74	6.0
5	13:34	54.22	200	6.73	2105	15.06	102	2.70	5.6
Stabilization	NA	NA	NA	±0.1	±3%	±0.1	±10	±10% or 0.2	10% if >10

Field Meter: Hanna

Secondary pH Meter: \_\_\_\_\_

Sample Appearance:

Odor:  None  Slight  Mod.  Strong  
 Color:  None  Slight  Mod.  Strong  
 Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Casing locked/secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well cap fits securely.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Good seal/drainage	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well has weep holes	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
3	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 500mL, H2SO4)
1	Metals (P,250mL, HNO3)
1	Cyanide (P, 250mL, NaOH)
1	General (P,1000mL)
1	General (P, 500 mL) <u>250mL</u>
1	Ammonia (P, 250mL, H2SO4)
2	Rad (P, 2-5L, HNO3) <u>1000mL</u>
1	Phenols (A,G 250mL H2SO4)

13

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)
1	General (P,1000mL)
	TOC (A,V, 40mL, H2SO4)

Final DTW: 54.20 ft  
54.22 ASW 11/03/25

Comments EB 2 Filled here @ 14:36

Sampler's Signature: Andy [Signature]

WELL/SAMPLE POINT 08 (Cont.)

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
6	13:36	54.22	200	10.72	2108	15.09	101	2.68	5.7
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

Comments

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Sampler's Signature: *[Handwritten Signature]*

WELL/SAMPLE POINT 08D

Purge Method: Dedicated Bladder

Date: 5-Nov-25 Start Time: 1243 Finish/Sample Time: 1351

Well Depth (Bottom) From MP: N/A ft  
 Depth to Water From MP: 53.89 ft  
 Water Column Length: N/A ft  
 Well Water Volume: N/A L  
 Min. Purge Volume: 1000 mL  
 Total Purge Volume: 2350 mL  
 Total Drawdown: 0 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1255	53.89	150	7.01	2025	15.02	118.9	0.04	3.0
2	1258	53.89		6.87	2096	14.83	119.8	0.03	4.2
3	1301	53.89		6.83	2121	14.78	119.8	0.03	2.3
4	1304	53.89		6.79	2120	14.73	119.1	0.03	3.5
5									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

Field Meter: Hanna

Secondary pH Meter: N/A

Sample Appearance:

Odor:  None  Slight  Mod.  Strong  
 Color:  None  Slight  Mod.  Strong  
 Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Casing locked/secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well cap fits securely.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Good seal/drainage	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well has weep holes	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
3	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 500mL, H2SO4)
1	Metals (P,250mL, HNO3)
1	Cyanide (P, 250mL, NaOH)
1	General (P,1000mL)
1	General (P, <del>500 mL</del> 250 mL)
	Ammonia (P, 250mL, H2SO4)
2	Rad (P, <del>25L</del> 1000mL, HNO3)

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)
1	General (P,1000mL)
	TOC (A,V, 40mL, H2SO4)

Final DTW: 53.89 ft

Comments

Sampler's Signature: [Signature]

WELL/SAMPLE POINT 10

Purge Method: Dedicated Bladder

Date: 4-Nov-25 Start Time: 1251 Finish/Sample Time: 1335

Well Depth (Bottom) From MP: N/A ft  
 Depth to Water From MP: 50.79 ft  
 Water Column Length: N/A ft  
 Well Water Volume: N/A L

Min. Purge Volume: 1000 mL  
 Total Purge Volume: 1800 mL  
 Total Drawdown: 0 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1303	50.79	200	7.01	1011	19.54	119.6	0.04	1.6
2	1305	50.79	↓	7.01	1030	19.60	117.8	0.03	1.4
3	1307	50.79	↓	7.02	1035	19.63	115.9	0.03	1.7
4									
5									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

Field Meter: Hanna

Secondary pH Meter: N/A

Sample Appearance:

Odor:  None  Slight  Mod.  Strong  
 Color:  None  Slight  Mod.  Strong  
 Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	/	
Casing locked/secure	/	
Well cap fits securely.	/	
Good seal/drainage	/	
Well has weep holes	/	

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
3	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 500mL, H2SO4)
1	Metals (P,250mL, HNO3)
1	Cyanide (P, 250mL, NaOH)
1	General (P,1000mL)
	General (P, 500 mL)
1	Ammonia (P, 250mL, H2SO4)
	Rad (P, 2.5L, HNO3)

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)
1	General (P,1000mL)
	TOC (A,V, 40mL, H2SO4)

10

1 Phenol (A, G, 250mL) (H2SO4)

Final DTW: 50.79 ft

Comments

Sampler's Signature: Austin [Signature]

WELL/SAMPLE POINT 12

Purge Method: Dedicated Bladder Pump

Date: 10/29/25 Start Time: 9:57 Finish/Sample Time: 11:23

Well Depth (Bottom) From MP:      ft 45 Min. Purge Volume: 1000 mL

Depth to Water From MP: Top of pump ft 51.38 Total Purge Volume: 3100 mL

Water Column Length:      ft

Well Water Volume:      L Total Drawdown:      ft

ADP 10/30/25

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	10:08	Top of pump	100	6.91	924	17.33	179	5.71	2.0
2	10:11	Top of pump	100	7.07	875	17.77	162	4.53	0.0
3	10:14	Top of pump	100	7.15	866	17.97	153	3.58	0.0
4	10:17	Top of pump	100	7.22	862	18.30	140	2.68	0.0
5	10:20	Top of pump	100	7.25	863	18.51	132	2.34	0.0
Stabilization	NA	NA	NA	±0.1	±3%	±0.1	±10	±10% or 0.2	10% if >10

Field Meter: Hanna

Secondary pH Meter:     

Sample Appearance:

Odor:  None  Slight  Mod.  Strong

Color:  None  Slight  Mod.  Strong

Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	X	
Casing locked/secure	X	
Well cap fits securely.	X	
Good seal/drainage	X	
Well has weep holes	X	

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAs (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 500mL, H2SO4)
1	Metals (P,250mL, HNO3)
1	Cyanide (P, 250mL, NaOH)
1	General (P,1000mL)
	General (P, 500 mL)
1	Ammonia (P, 250mL, H2SO4)
2	Rad (P, <del>2.5L</del> , HNO3) 1000mL
1	Phenols (A,G 250mL H2SO4)

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Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)
1	General (P,1000mL)
	TOC (A,V, 40mL, H2SO4)

Final DTW: Top of pump ft

Comments

Sampler's Signature: [Signature]

**WELL/SAMPLE POINT 12 (Cont.)**

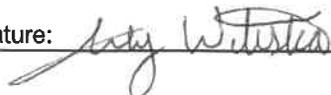
Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
6	10:23	TOP of PUMP	100	7.26	863	18.55	129	2.15	0.0
7	10:26	TOP of PUMP	100	7.25	865	18.59	125	2.12	0.0
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

Comments

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Sampler's Signature: 

WELL/SAMPLE POINT 13

Purge Method: portable pump

Date: 11/03/25 Start Time: 11:32 Finish/Sample Time: 13:04

Well Depth (Bottom) From MP: 21.27 ft Min. Purge Volume: 1000 mL

Depth to Water From MP: 51.82 ft Total Purge Volume: 2800 mL

Water Column Length: 19.45 ft 3800 APP 11/10/25

Well Water Volume: 11.78 L Total Drawdown: 0.0 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	12:16	51.82	200	7.48	923	20.18	132	1.21	>1000
2	12:18	51.82	200	7.38	901	19.53	131	1.17	>1000
3	12:20	51.82	200	7.36	901	19.39	129	1.58	>1000
4	12:22	51.82	200	7.34	901	19.34	125	2.09	>1000
5	12:24	51.82	200	7.34	902	19.07	123	1.84	696
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

Field Meter: Hanna

Secondary pH Meter: \_\_\_\_\_

Sample Appearance:

Odor:  None  Slight  Mod.  Strong

Color:  None  Slight  Mod.  Strong

Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	X	
Casing locked/secure	X	
Well cap fits securely.	X	
Good seal/drainage	X	
Well has weep holes		X

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAs (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 500mL, H2SO4)
1	Metals (P,250mL, HNO3)
1	Cyanide (P, 250mL, NaOH)
1	General (P,1000mL)
	General (P, 500 mL)
	Ammonia (P, 250mL, H2SO4)
2	Rad (P, 25L, HNO3) 1000mL
1	Phenols (A,G 250 mL H2SO4)
1	Ammonia (P, 250mL H2SO4)

(9)

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)
1	General (P,1000mL)
	TOC (A,V, 40mL, H2SO4)

Final DTW: 51.82 ft

Comments \_\_\_\_\_

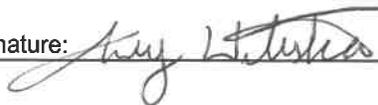
Sampler's Signature: [Signature]

**WELL/SAMPLE POINT 13 (Cont.)**

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
6	12:26	51.82	200	7.33	903	18.77	113	1.10	378
7	12:28	51.82	200	7.33	903	18.66	107	1.36	287
8	12:30	51.82	200	7.33	904	18.64	104	1.39	271
9	12:32	51.82	200	7.33	903	18.67	102	1.34	265
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

Comments

Sampler's Signature:



WELL/SAMPLE POINT 18D

Purge Method: Dedicated Bladder

Date: 3-Nov-25 Start Time: 1520 Finish/Sample Time: 1605

Well Depth (Bottom) From MP: N/A ft Min. Purge Volume: 1000 mL

Depth to Water From MP: 41.40 ft Total Purge Volume: 1800 mL

Water Column Length: N/A ft

Well Water Volume: N/A L Total Drawdown: 0.2 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1526	41.60	200	7.14	942	17.10	86.0	0.02	2.9
2	1528	41.60	↓	7.12	942	17.13	86.5	0.02	3.8
3	1530	41.60	↓	7.16	942	17.17	87.7	0.01	4.3
4									
5									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

Field Meter: Hanna

Secondary pH Meter: N/A

Sample Appearance:

Odor:  None  Slight  Mod.  Strong

Color:  None  Slight  Mod.  Strong

Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	/	
Casing locked/secure	/	
Well cap fits securely.	/	
Good seal/drainage	/	
Well has weep holes	/	

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
3	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 500mL, H2SO4)
1	Metals (P,250mL, HNO3)
1	Cyanide (P, 250mL, NaOH)
1	General (P,1000mL)
1	General (P, 500 mL) <u>250</u>
	Ammonia (P, 250mL, H2SO4)
2	Rad (P, 2-5L, HNO3) <u>1000mL</u>

10

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P,500mL)
	General (P,1000mL)
	TOC (A,V, 40mL, H2SO4)

Final DTW: 41.60 ft

Comments \_\_\_\_\_

Sampler's Signature: [Signature]

**Vistra Hennepin**

WELL/SAMPLE POINT 18S

Purge Method: Dedicated Bladder

Date: 4-Nov-25 Start Time: 1022 Finish/Sample Time: 1109

Well Depth (Bottom) From MP: N/A ft  
 Depth to Water From MP: 40.86 ft  
 Water Column Length: N/A ft  
 Well Water Volume: N/A L  
 Min. Purge Volume: 1000 mL  
 Total Purge Volume: 1800 mL  
 Total Drawdown: 0 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1036	40.86	200	7.27	913	17.02	139.8	0.03	3.2
2	1038	40.86	↓	7.31	911	16.99	138.2	0.03	2.9
3	1040	40.86	↓	7.34	911	16.92	136.5	0.02	2.2
4									
5									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

Field Meter: Hanna

Secondary pH Meter: N/A

Sample Appearance:  
 Odor:  None  Slight  Mod.  Strong  
 Color:  None  Slight  Mod.  Strong  
 Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Casing locked/secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well cap fits securely.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Good seal/drainage	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well has weep holes	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
3	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 500mL, H2SO4)
1	Metals (P,250mL, HNO3)
1	Cyanide (P, 250mL, NaOH)
1	General (P,1000mL)
1	General (P, 500 mL) 250
	Ammonia (P, 250mL, H2SO4)
2	Rad (P, 2-5L, HNO3) 1000mL

10

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P,500mL)
	General (P,1000mL)
	TOC (A,V, 40mL, H2SO4)

Final DTW: 40.86 ft

Comments \_\_\_\_\_

Sampler's Signature: [Signature]

WELL/SAMPLE POINT 21R

Purge Method: portable pump

Date: 10/28/25 Start Time: 13:54 Finish/Sample Time: 14:28

Well Depth (Bottom) From MP: 49.97 ft Min. Purge Volume: 1000 mL

Depth to Water From MP: 6.13 ft Total Purge Volume: 2000 mL

Water Column Length: 43.84 ft

Well Water Volume: 26.55 L Total Drawdown: 0.0 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	14:01	6.17	200	7.49	1062	14.12	-149.4	1.42	334
2	14:03	6.17	200	7.48	1080	14.00	-150.4	1.36	329
3	14:04	6.17	200	7.48	1086	13.93	-151.3	1.34	312
4	14:05	6.17	200	7.47	1086	13.90	-151.4	1.33	299
5									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

Field Meter: Hanna

Secondary pH Meter: \_\_\_\_\_

Sample Appearance:

Odor:  None  Slight  Mod.  Strong

Color:  None  Slight  Mod.  Strong

Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	X	
Casing locked/secure	X	
Well cap fits securely.	X	
Good seal/drainage	X	
Well has weep holes		X

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 500mL, H2SO4)
1	Metals (P,250mL, HNO3)
1	Cyanide (P, 250mL, NaOH)
1	General (P,1000mL)
	General (P, 500 mL)
	Ammonia (P, 250mL, H2SO4)
2	Rad (P, <del>25L</del> , HNO3) 1000mL
1	Phenols (A,G 250mL H2SO4)

(7)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P,500mL)
	General (P,1000mL)
	TOC (A,V, 40mL, H2SO4)

Final DTW: 6.13 ft

Comments EB #1 Filled here @ 14:35

Sampler's Signature: [Signature]

WELL/SAMPLE POINT 22

Purge Method: Dedicated Bladder

Date: 3-Nov-25 Start Time: 1244 Finish/Sample Time: 1324

Well Depth (Bottom) From MP: N/A ft  
 Min. Purge Volume: 1000 mL  
 Depth to Water From MP: 18.83 ft  
 Total Purge Volume: 1800 mL  
 Water Column Length: N/A ft  
 Well Water Volume: N/A L  
 Total Drawdown: 0.06 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1251	18.89	200	7.54	1039	16.22	84.9	0.00	6.9
2	1253	18.89	↓	7.52	1038	16.17	85.2	0.00	3.6
3	1255	18.89	↓	7.51	1038	16.15	85.4	0.00	3.8
4									
5									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

Field Meter: Hanna

Secondary pH Meter: N/A

Sample Appearance:

Odor:  None  Slight  Mod.  Strong  
 Color:  None  Slight  Mod.  Strong  
 Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Casing locked/secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well cap fits securely.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Good seal/drainage	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well has weep holes	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAs (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 500mL, H2SO4)
	Metals (P,250mL, HNO3)
1	Cyanide (P, 250mL, NaOH)
1	General (P,1000mL)
	General (P, 500 mL)
	Ammonia (P, 250mL, H2SO4)
2	Rad (P, 250mL, HNO3) <u>1000mL</u>
1	Phenol (A,G, 250mL, H2SO4)

(7)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P,500mL)
	General (P,1000mL)
	TOC (A,V, 40mL, H2SO4)

Final DTW: 18.89 ft

Comments

Sampler's Signature: [Signature]

WELL/SAMPLE POINT 22D

Purge Method: Dedicated Bladder

Date: 3-Nov-25 Start Time: 10:45 Finish/Sample Time: 12:10

Well Depth (Bottom) From MP: N/A ft  
 Depth to Water From MP: 19.76 ft  
 Water Column Length: N/A ft  
 Well Water Volume: N/A L  
 Min. Purge Volume: 1000 mL  
 Total Purge Volume: 2600 mL  
 Total Drawdown: 0.22 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	11:08	19.76	200	7.03	1130	15.65	74.2	0.00	5.3
2	11:10	19.76	L	6.87	1135	15.72	61.6	0.00	7.6
3	11:12	19.76	L	6.78	1139	15.85	52.2	0.00	6.6
4	11:14	19.76	L	6.77	1139	15.79	42.6	0.00	6.4
5	11:16	19.76	L	6.77	1140	15.79	42.3	0.00	5.3
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

Field Meter: Hanna

Secondary pH Meter: \_\_\_\_\_

Sample Appearance:  
 Odor:  None  Slight  Mod.  Strong  
 Color:  None  Slight  Mod.  Strong  
 Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	/	
Casing locked/secure	/	
Well cap fits securely.	/	
Good seal/drainage	/	
Well has weep holes	/	

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 500mL, H2SO4)
1+	Metals (P,250mL, HNO3)
1+	Cyanide (P, 250mL, NaOH)
1+	General (P,1000mL)
	General (P, 500 mL)
	Ammonia (P, 250mL, H2SO4)
2+2	Rad (P, 25mL, HNO3) 1000 mL
1+	Phenol (A,G) 250mL, H2SO4

7  
7  
Dup

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1+	General (P,500mL)
	General (P,1000mL)
	TOC (A,V, 40mL, H2SO4)

Final DTW: 19.76 ft

Comments Dup taken here

Sampler's Signature: [Signature]

WELL/SAMPLE POINT 23

Purge Method: Dedicated Bladder

Date: 29-Oct-25 Start Time: 1156 Finish/Sample Time: 1249

Well Depth (Bottom) From MP: N/A ft  
 Depth to Water From MP: 17.18 ft  
 Water Column Length: N/A ft  
 Well Water Volume: N/A L  
 Min. Purge Volume: 1000 mL  
 Total Purge Volume: 3400 mL  
 Total Drawdown: 0.3 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1206	17.48	200	7.28	1260	13.67	27.3	0.03	3.5
2	1208	17.48	1	7.33	1258	13.96	15.9	0.02	3.1
3	1210	17.48	1	7.36	1257	13.49	4.2	0.01	3.7
4	1212	17.48	1	7.40	1258	13.44	-6.3	0.00	4.3
5	1214	17.48	1	7.41	1256	13.46	-14.5	0.00	3.8
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

Field Meter: Hanna

Secondary pH Meter: \_\_\_\_\_

Sample Appearance:  
 Odor:  None  Slight  Mod.  Strong  
 Color:  None  Slight  Mod.  Strong  
 Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	/	
Casing locked/secure	/	
Well cap fits securely.	/	
Good seal/drainage	/	
Well has weep holes	/	

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 500mL, H2SO4)
1	Metals (P,250mL, HNO3)
1	Cyanide (P, 250mL, NaOH)
1	General (P,1000mL)
	General (P, 500 mL)
	Ammonia (P, 250mL, H2SO4)
2	Rad (P, 2.5L, HNO3)
1	Phenol (A,G 250mL H2SO4)

7

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P,500mL)
	General (P,1000mL)
	TOC (A,V, 40mL, H2SO4)

Final DTW: 17.48 ft

Comments \_\_\_\_\_

Sampler's Signature: [Signature]

WELL/SAMPLE POINT 23 (Cont.)

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
6	1216	7.48	200	7.42	1259	13.75	-21.0	0.00	3.5
7	1218	7.48	L	7.42	1254	13.73	-24.5	0.00	3.5
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

Comments \_\_\_\_\_

Sampler's Signature: William M

**Vistra: Hennepin**

WELL/SAMPLE POINT 27

Purge Method: portable pump

Date: 10/28/25 Start Time: 11:28 Finish/Sample Time: 12:47

Well Depth (Bottom) From MP: 37.45 ft Min. Purge Volume: 1000 mL  
 Depth to Water From MP: 4.25 ft Total Purge Volume: 1675 mL  
 Water Column Length: 33.20 ft  
 Well Water Volume: 20.11 L Total Drawdown: 0.0 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	11:39	4.25	150	7.33	1048	13.62	24.9	6.06	>1000
2	11:41	4.25	150	7.31	1049	13.62	25.2	5.87	>1000
3	11:42	4.25	150	7.30	1050	13.60	25.2	5.79	>1000
4									
5									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

Field Meter: Hanna

Secondary pH Meter: \_\_\_\_\_

Sample Appearance:

Odor:  None  Slight  Mod.  Strong  
 Color:  None  Slight  Mod.  Strong  
 Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Casing locked/secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well cap fits securely.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Good seal/drainage	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well has weep holes	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 500mL, H2SO4)
1 + 1	Metals (P,250mL, HNO3)
1 + 1	Cyanide (P, 250mL, NaOH)
1 + 1	General (P,1000mL)
	General (P, 500 mL)
	Ammonia (P, 250mL, H2SO4)
1 + 1	Rad (P, 2.5L, HNO3)
1 + 1	Phenols (A,G 250mL H2SO4)

7+7

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1 + 1	General (P,500mL)
	General (P,1000mL)
	TOC (A,V, 40mL, H2SO4)

Final DTW: 4.25 ft

Comments Field dup.

Sampler's Signature: [Signature]

WELL/SAMPLE POINT 32

Purge Method: portable pump

Date: 10/28/25 Start Time: 10:13 Finish/Sample Time: 11:25

Well Depth (Bottom) From MP: 20.27 ft Min. Purge Volume: 1000 mL  
 Depth to Water From MP: 5.11 ft Total Purge Volume: 2500 mL  
 Water Column Length: 15.16 ft  
 Well Water Volume: 9.18 L Total Drawdown: 0.0 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	10:30	5.11	100	7.09	1034	11.29	-5.3	2.77	891
2	10:33	5.11	100	7.11	1035	11.45	-10.1	2.64	935
3	10:36	5.11	100	7.12	1035	11.63	-14.2	2.73	898
4	10:39	5.11	100	7.12	1036	11.68	-14.5	2.77	844
5	10:42	5.11	100	7.12	1037	11.71	-15.2	2.77	820
Stabilization	NA	NA	NA	±0.1	±3%	±0.1	±10	±10% or 0.2	10% if >10

Field Meter: Hanna

Secondary pH Meter: —

Sample Appearance:

Odor:  None  Slight  Mod.  Strong

Color:  None  Slight  Mod.  Strong

Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	X	
Casing locked/secure	X	
Well cap fits securely.	X	
Good seal/drainage	X	
Well has weep holes	X	

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 500mL, H2SO4)
1	Metals (P,250mL, HNO3)
1	Cyanide (P, 250mL, NaOH)
1	General (P,1000mL)
	General (P, 500 mL)
	Ammonia (P, 250mL, H2SO4)
2	Rad (P, <del>25L</del> , HNO3) <u>1000mL</u>
1	Phenols (A,G 250mL H2SO4)

(7)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P,500mL)
	General (P,1000mL)
	TOC (A,V, 40mL, H2SO4)

Final DTW: 5.11 ft

Comments

Sampler's Signature: [Signature]

WELL/SAMPLE POINT 34

Purge Method: portable pump

Date: 10/28/25 Start Time: 13:08 Finish/Sample Time: 13:48

Well Depth (Bottom) From MP: 36.72 ft Min. Purge Volume: 1000 mL  
 Depth to Water From MP: 8.45 ft Total Purge Volume: 2400 mL  
 Water Column Length: 28.27 ft  
 Well Water Volume: 17.12 L Total Drawdown: 9.08 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	13:20	8.53	200	7.12	1290	13.09	-82.5	1.62	190
2	13:21	8.53	200	7.12	1298	13.12	-85.4	1.49	203
3	13:23	8.53	200	7.12	1300	13.06	-88.6	1.37	232
4	13:25	8.53	200	7.12	1301	13.05	-90.1	1.34	240
5	13:24	8.53	200	7.12	1300	13.05	-91.0	1.33	245
Stabilization	NA	NA	NA	±0.1	±3%	±0.1	±10	±10% or 0.2	10% if >10

Field Meter: Hanna

Secondary pH Meter: \_\_\_\_\_

Sample Appearance:

Odor:  None  Slight  Mod.  Strong  
 Color:  None  Slight  Mod.  Strong  
 Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	X	
Casing locked/secure	X	
Well cap fits securely.	X	
Good seal/drainage	X	
Well has weep holes	X	

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAs (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 500mL, H2SO4)
1	Metals (P,250mL, HNO3)
1	Cyanide (P, 250mL, NaOH)
1	General (P,1000mL)
	General (P, 500 mL)
	Ammonia (P, 250mL, H2SO4)
2	Rad (P, <del>2.5L</del> , HNO3) 1000mL
1	Phenols (A,G 250mL H2SO4)

(7)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P,500mL)
	General (P,1000mL)
	TOC (A,V, 40mL, H2SO4)

Final DTW: 8.53 ft

Comments \_\_\_\_\_

Sampler's Signature: \_\_\_\_\_

*[Handwritten Signature]*

**Wistra Hennepin**

WELL/SAMPLE POINT 35

Purge Method: portable pump

Date: 11/03/25 Start Time: 10:27 Finish/Sample Time: 11:17

Well Depth (Bottom) From MP: 20.19 ft Min. Purge Volume: 1000 mL

Depth to Water From MP: 8.48 ft Total Purge Volume: 5400 mL

Water Column Length: 11.71 ft

Well Water Volume: 7.09 L Total Drawdown: 0.0 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	10:39	8.53	200	6.55	1776	15.17	109	3.83	243
2	10:41	8.48	200	6.60	1793	15.54	96	2.44	187
3	10:43	8.48	200	6.66	1807	15.81	86	2.50	147
4	10:45	8.48	200	6.72	1874	16.06	72	2.41	131
5	10:47	8.48	200	6.76	1917	16.27	59	2.15	100
Stabilization	NA	NA	NA	±0.1	±3%	±0.1	±10	±10% or 0.2	10% if >10

Field Meter: Hanna

Secondary pH Meter: \_\_\_\_\_

Sample Appearance:

Odor:  None  Slight  Mod.  Strong

Color:  None  Slight  Mod.  Strong

Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	X	
Casing locked/secure	X	
Well cap fits securely.	X	
Good seal/drainage	X	
Well has weep holes		X

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 500mL, H2SO4)
1	Metals (P,250mL, HNO3)
1	Cyanide (P, 250mL, NaOH)
	General (P,1000mL)
	General (P, 500 mL)
	Ammonia (P, 250mL, H2SO4)
2	Rad (P, 25mL, HNO3) 1000mL
1	Phenols (A, G, 250mL H2SO4)

(6)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P,500mL)
	General (P,1000mL)
	TOC (A,V, 40mL, H2SO4)

Final DTW: 8.48 ft

Comments \_\_\_\_\_

Sampler's Signature: \_\_\_\_\_

*[Handwritten Signature]*

WELL/SAMPLE POINT 35 (Cont.)

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
6	10:49	8.48	200	6.77	1919	16.40	55	2.05	82.1
7	10:51	8.48	200	6.77	1915	16.51	52	1.97	51.8
8	10:53	8.48	200	6.78	1903	16.68	50	1.86	47.8
9	10:55	8.48	200	6.79	1942	16.86	50	1.11	29.4
10	10:57	8.48	200	6.78	1953	16.83	50	1.13	28.6
11	10:59	8.48	200	6.79	1948	16.85	50	1.12	27.1
12									
13									
14									
15									
16									
17									
18									
19									
20									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

Comments

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Sampler's Signature: 

WELL/SAMPLE POINT 40S

Purge Method: Compressor

Date: 10/28/25 Start Time: 1020 Finish/Sample Time: 1140

Well Depth (Bottom) From MP: 41.04 ft Min. Purge Volume: 1000 mL

Depth to Water From MP: 42.67 ft Total Purge Volume: 3100 mL

Water Column Length: 1.63 ft

Well Water Volume: 0.99 L Total Drawdown: 0.03 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1049	41.05	100	7.60	820	15.68	174.3	0.00	2.1
2	1052	41.06	100	7.78	817	15.89	170.9	0.00	1.3
3	1053	41.06	100	7.83	817	16.11	170.5	0.00	1.3
4	1058	41.07	100	7.84	817	16.24	168.2	0.00	1.2
5	1101	41.07	100	7.84	816	16.30	167.7	0.00	1.3
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

Field Meter: Hanna

Secondary pH Meter: —

Sample Appearance:

Odor:  None  Slight  Mod.  Strong

Color:  None  Slight  Mod.  Strong

Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Casing locked/secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well cap fits securely.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Good seal/drainage	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well has weep holes	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAs (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
1	TOX (A,G 500mL, H2SO4)
	Metals (P,250mL, HNO3)
1	Cyanide (P, 250mL, NaOH)
1	General (P,1000mL)
	General (P, 500 mL)
1	Ammonia (P, 250mL, H2SO4)
	Rad (P, 2.5L, HNO3)

⑥

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
1	Ammonia (P,250mL, H2SO4)
	General (P,500mL)
1	General (P,1000mL)
	TOC (A,V, 40mL, H2SO4)

Final DTW: 41.07 ft

Comments

Sampler's Signature: Bohannon

**WELL/SAMPLE POINT** 40S (Cont.)

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
6	1104	41.08	100	7.85	816	16.33	167.4	0.00	1.3
7	1107	41.08	100	7.86	817	16.35	166.8	0.00	1.2
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

Comments

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Sampler's Signature: Bohannon

WELL/SAMPLE POINT 45S

Purge Method: Dedicated Bladder

Date: 1-Nov-25 Start Time: 1355 Finish/Sample Time: 1502

Well Depth (Bottom) From MP: N/A ft  
 Depth to Water From MP: 20.56 ft  
 Water Column Length: N/A ft  
 Well Water Volume: N/A L  
 Min. Purge Volume: 1000 mL  
 Total Purge Volume: 2200 mL  
 Total Drawdown: 0.02 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	404	20.56	200	7.20	1050	18.62	91.6	0.03	2.8
2	406	20.56		7.18	1023	18.61	94.4	0.02	4.0
3	408	20.56		7.17	1008	18.59	97.2	0.02	3.7
4	410	20.56		7.17	1001	18.55	99.1	0.01	2.9
5									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

Field Meter: Hanna

Secondary pH Meter: N/A

Sample Appearance:

Odor:  None  Slight  Mod.  Strong

Color:  None  Slight  Mod.  Strong

Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	/	
Casing locked/secure		
Well cap fits securely.	/	
Good seal/drainage	/	
Well has weep holes	/	

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
313	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 500mL, H2SO4)
11	Metals (P,250mL, HNO3)
11	Cyanide (P, 250mL, NaOH)
11	General (P,1000mL)
11	General (P, 500 mL) <u>250</u>
	Ammonia (P, 250mL, H2SO4)
212	Rad (P, <del>2.5</del> h, HNO3) <u>1000mL</u>

10  
10  
Dup

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
11	General (P,500mL)
	General (P,1000mL)
	TOC (A,V, 40mL, H2SO4)

Final DTW: 20.56 ft

Comments Dup taken here

Sampler's Signature: [Signature]

WELL/SAMPLE POINT 46

Purge Method: Dedicated Bladder Pump

Date: 10/29/25 Start Time: 12:00 Finish/Sample Time: 13:17

Well Depth (Bottom) From MP:      ft  
 Min. Purge Volume: 1000 mL  
 Depth to Water From MP: 51.98 ft  
 Total Purge Volume: 3400 mL  
 Water Column Length:      ft  
 Well Water Volume:      L  
 Total Drawdown: 0.0 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	12:10	51.98	100	7.15	881	18.51	118	4.90	0.3
2	12:13	51.98	100	7.18	868	18.83	113	3.54	0.0
3	12:16	51.98	100	7.20	867	18.99	108	2.91	0.0
4	12:19	51.98	100	7.21	867	19.08	103	2.32	0.0
5	12:22	51.98	100	7.23	866	19.10	98	2.03	0.0
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

Field Meter: Hanna

Secondary pH Meter:     

Sample Appearance:

Odor:  None  Slight  Mod.  Strong

Color:  None  Slight  Mod.  Strong

Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	<input checked="" type="checkbox"/>	
Casing locked/secure	<input checked="" type="checkbox"/>	
Well cap fits securely.	<input checked="" type="checkbox"/>	
Good seal/drainage	<input checked="" type="checkbox"/>	
Well has weep holes	<input checked="" type="checkbox"/>	

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 500mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
1	General (P,1000mL)
	General (P, 500 mL)
	Ammonia (P, 250mL, H2SO4)
2	Rad (P, 25L, HNO3) 1000mL

5

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P,500mL)
	General (P,1000mL)
	TOC (A,V, 40mL, H2SO4)

Final DTW: 51.98 ft

Comments

Sampler's Signature: *[Signature]*

**WELL/SAMPLE POINT 46 (Cont.)**

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
6	12:25	51.98	100	7.22	869	19.12	96	1.83	0.0
7	12:28	51.98	100	7.22	869	19.15	92	1.71	0.0
8	12:31	51.98	100	7.29	874	19.12	88	1.67	0.0
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

Comments

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Sampler's Signature: 

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WELL/SAMPLE POINT 47

Purge Method: Dedicated Bladder

Date: 4-Nov-25 Start Time: 1138 Finish/Sample Time: 1231

Well Depth (Bottom) From MP: N/A ft Min. Purge Volume: 1000 mL  
 Depth to Water From MP: 55.86 ft Total Purge Volume: 1900 mL  
 Water Column Length: N/A ft  
 Well Water Volume: N/A L Total Drawdown: 0 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1152	55.86	150	7.08	966	19.28	116.9	0.02	1.5
2	1155	55.86	↓	7.06	966	19.33	114.9	0.01	1.2
3	1158	55.86	↓	7.06	967	19.37	113.9	0.01	1.4
4									
5									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

Field Meter: Hanna

Secondary pH Meter: N/A

Sample Appearance:

Odor:  None  Slight  Mod.  Strong  
 Color:  None  Slight  Mod.  Strong  
 Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	/	
Casing locked/secure	/	
Well cap fits securely.	/	
Good seal/drainage	/	
Well has weep holes	/	

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 500mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
1	General (P,1000mL)
	General (P, 500 mL)
	Ammonia (P, 250mL, H2SO4)
2	Rad (P, 2.5L, HNO3) <u>1000mL</u>

5

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P,500mL)
	General (P,1000mL)
	TOC (A,V, 40mL, H2SO4)

Final DTW: 55.86 ft

Comments

Sampler's Signature: [Signature]

WELL/SAMPLE POINT 49

Purge Method: Dedicated Bladder

Date: 29-Oct-25 Start Time: 1326 Finish/Sample Time: 1411

Well Depth (Bottom) From MP: N/A ft  
 Depth to Water From MP: 21.89 ft  
 Water Column Length: N/A ft  
 Well Water Volume: N/A L  
 Min. Purge Volume: 1000 mL  
 Total Purge Volume: 2600 mL  
 Total Drawdown: 0 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1332	21.89	200	7.23	1134	15.12	27.8	0.04	1.63
2	1334	21.89		7.18	1136	15.03	26.9	0.03	2.1
3	1336	21.89		7.16	1136	15.01	28.6	0.02	2.3
4	1338	21.89		7.13	1136	15.09	27.9	0.02	10.9
5	1340	21.89		7.13	1135	15.11	30.3	0.01	9.9
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

Field Meter: Hanna

Secondary pH Meter: \_\_\_\_\_

Sample Appearance:

Odor:  None  Slight  Mod.  Strong

Color:  None  Slight  Mod.  Strong

Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	/	
Casing locked/secure	/	
Well cap fits securely.	/	
Good seal/drainage	/	
Well has weep holes	/	

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 500mL, H2SO4)
1	Metals (P,250mL, HNO3)
1	Cyanide (P, 250mL, NaOH)
1	General (P,1000mL)
	General (P, 500 mL)
	Ammonia (P, 250mL, H2SO4)
2	Rad (P, 2.5L, HNO3)

(7)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P,500mL)
	General (P,1000mL)
	TOC (A,V, 40mL, H2SO4)

Final DTW: 21.89 ft

Comments \_\_\_\_\_

Sampler's Signature: [Signature]

WELL/SAMPLE POINT 50

Purge Method: Dedicated Bladder

Date: 5-Nov-25 Start Time: 1006 Finish/Sample Time: 1050

Well Depth (Bottom) From MP: N/A ft Min. Purge Volume: 1000 mL

Depth to Water From MP: 18.57 ft Total Purge Volume: 2600 mL

Water Column Length: N/A ft

Well Water Volume: N/A L Total Drawdown: 0.02 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1013	18.59	200	7.85	850	16.12	136.1	0.02	2.9
2	1015	18.59		7.74	888	16.16	136.4	0.01	2.6
3	1017	18.59		7.63	931	16.14	134.6	0.01	3.3
4	1019	18.59		7.59	954	16.15	131.9	0.00	3.2
5	1021	18.59		7.59	963	16.16	129.5	0.00	1.9
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

Field Meter: Hanna

Secondary pH Meter: N/A

Sample Appearance:

Odor:  None  Slight  Mod.  Strong

Color:  None  Slight  Mod.  Strong

Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	/	
Casing locked/secure	/	
Well cap fits securely.	/	
Good seal/drainage	/	
Well has weep holes	/	

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 500mL, H2SO4)
1	Metals (P,250mL, HNO3)
1	Cyanide (P, 250mL, NaOH)
1	General (P,1000mL)
	General (P, 500 mL)
	Ammonia (P, 250mL, H2SO4)
2	Rad (P, 2.5L, HNO3) 1000mL

(7)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P,500mL)
	General (P,1000mL)
	TOC (A,V, 40mL, H2SO4)

1 Phenol (A,G, 250mL, H2SO4)

Final DTW: 18.59 ft

Comments

Sampler's Signature: [Signature]

WELL/SAMPLE POINT 51

Purge Method: dedicated bladder

Date: 29-Oct-25 Start Time: 10:19 Finish/Sample Time: 11:35

Well Depth (Bottom) From MP: N/A ft  
 Depth to Water From MP: 18.89 ft  
 Water Column Length: N/A ft  
 Well Water Volume: N/A L  
 Min. Purge Volume: 1000 mL  
 Total Purge Volume: 4000 mL  
 Total Drawdown: 0.26 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1035	19.15	150	6.61	1151	13.29	66.7	0.02	32.5
2	1037	19.15	1	6.56	1157	13.28	48.8	0.01	21.2
3	1039	19.15	1	6.66	1159	13.25	11.6	0.00	14.1
4	1041	19.15	1	6.74	1159	13.25	15.5	0.00	13.5
5	1043	19.15	1	6.82	1159	13.26	-37.4	0.00	10.8
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

Field Meter: Hanna

Secondary pH Meter: \_\_\_\_\_

Sample Appearance:

Odor:  None  Slight  Mod.  Strong  
 Color:  None  Slight  Mod.  Strong  
 Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	/	
Casing locked/secure	/	
Well cap fits securely.	/	
Good seal/drainage	/	
Well has weep holes	/	

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAs (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 500mL, H2SO4)
1	Metals (P,250mL, HNO3)
1	Cyanide (P, 250mL, NaOH)
1	General (P,1000mL)
	General (P, 500 mL)
	Ammonia (P, 250mL, H2SO4)
2	Rad (P, 2.5L, HNO3)

7

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P,500mL)
	General (P,1000mL)
	TOC (A,V, 40mL, H2SO4)

Final DTW: 19.15 ft

Comments \_\_\_\_\_

Sampler's Signature: [Signature]

WELL/SAMPLE POINT 51 (Cont.)

Reading	Time	Depth	Flow Rate	pH	Spec Cond	Temp	ORP	DO	Turb
(Units)		ft.	mL/min	s.u.	umhos/cm	deg C	mV	mg/L	NTU
6	1045	19.15	150	6.90	1161	13.27	-57.6	0.00	10.5
7	1047	19.15		6.96	1159	13.21	-80.9	0.00	10.6
8	1049	19.15		7.03	1164	13.19	-98.5	0.00	10.0
9	1051	19.15		7.09	1164	13.17	-110.3	0.00	9.9
10	1053	19.15		7.14	1164	13.16	-116.7	0.00	9.1
11	1055	19.15		7.17	1164	13.16	-119.1	0.00	9.3
12	<hr/>								
13	<hr/>								
14	<hr/>								
15	<hr/>								
16	<hr/>								
17	<hr/>								
18	<hr/>								
19	<hr/>								
20	<hr/>								
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

Comments

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Sampler's Signature: *Amelia M*

WELL/SAMPLE POINT 52

Purge Method: Dedicated Bladder

Date: 5-Nov-25 Start Time: 11:18 Finish/Sample Time: 12:13

Well Depth (Bottom) From MP: N/A ft  
 Depth to Water From MP: 53.65 ft  
 Water Column Length: N/A ft  
 Well Water Volume: N/A L  
 Min. Purge Volume: 1000 mL  
 Total Purge Volume: 2350 mL  
 Total Drawdown: 0 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1132	53.65	150	7.01	991	19.16	123.5	0.03	1.3
2	1135	53.65	↓	7.01	1000	18.98	121.3	0.03	1.3
3	1138	53.65	↓	7.02	1002	19.02	120.2	0.03	1.3
4	1141	53.65	↓	7.02	1002	19.05	119.5	0.03	1.1
5									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

Field Meter: Hanna

Secondary pH Meter: N/A

Sample Appearance:  
 Odor:  None  Slight  Mod.  Strong  
 Color:  None  Slight  Mod.  Strong  
 Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	/	
Casing locked/secure	/	
Well cap fits securely.	/	
Good seal/drainage	/	
Well has weep holes	/	

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAs (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 500mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
1	General (P,1000mL)
	General (P, 500 mL)
	Ammonia (P, 250mL, H2SO4)
2	Rad (P, 2.5L, HNO3) <u>1000 mL</u>

5

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P,500mL)
	General (P,1000mL)
	TOC (A,V, 40mL, H2SO4)

Final DTW: 53.65 ft

Comments \_\_\_\_\_

Sampler's Signature: [Signature]

**Vistra Hennepin**

WELL/SAMPLE POINT 54

Purge Method: Dedicated Blaster

Date: 11/5/25 Start Time: 1006 Finish/Sample Time: 1118

Well Depth (Bottom) From MP: \_\_\_\_\_ ft Min. Purge Volume: 1000 mL

Depth to Water From MP: 53.00 ft Total Purge Volume: 2600 mL

Water Column Length: \_\_\_\_\_ ft 3800 APP 11/10/25

Well Water Volume: \_\_\_\_\_ L Total Drawdown: 0.0 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1012	53.00	200	7.41	864	17.06	194	7.28	0.0
2	1014	53.00	200	7.35	882	17.30	182	6.36	0.0
3	1016	53.00	200	7.32	900	17.33	173	5.64	0.0
4	1018	53.00	200	7.34 <sup>2</sup>	937	17.70	162	4.68	0.0
5	1020	53.00	200	7.34	955	18.02	150	3.97	0.0
Stabilization	NA	NA	NA	±0.1	±3%	±0.1	±10	±10% or 0.2	10% if >10

APP 11/10/25

Field Meter: Hanna

Secondary pH Meter: \_\_\_\_\_

Sample Appearance:

Odor:  None  Slight  Mod.  Strong  
 Color:  None  Slight  Mod.  Strong  
 Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	X	
Casing locked/secure	X	
Well cap fits securely.	X	
Good seal/drainage	X	
Well has weep holes	X	

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 500mL, H2SO4)
1+1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
1+1	General (P,1000mL)
	General (P, 500 mL)
	Ammonia (P, 250mL, H2SO4)
2+2	Rad (P, 2-5L, HNO3)

5x5

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1+1	General (P,500mL)
	General (P,1000mL)
	TOC (A,V, 40mL, H2SO4)

Final DTW: 53.00 ft

Comments Field Cap Filled here

Sampler's Signature: \_\_\_\_\_

for Andrew Weloska

APP 11/10/25

**WELL/SAMPLE POINT 54 (Cont.)**

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
6	1022	53.00	200	7.37	960	18.05	138	3.78	0.0
7	1024	53.00	200	7.36	962	18.00	133	3.55	0.0
8	1026	53.00	200	7.37	962	18.03	129	3.51	0.0
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
Stabilization	NA	NA	NA	± 0.1	± 3%	± 0.1	± 10	± 10% or 0.2	10% if >10

Comments

Sampler's Signature:   
 For Andrew Wefesha

Multiparameter Meter Field Calibration Checklist									
Field Personnel: <u>AJW</u>					Location: <u>Hennepin</u>				
Weather: <u>cloudy 44°-55° 7mph Wind NE</u>					Environment: <u>grassy, overgrown</u>				
Multiparameter Water Meter		Make: <u>Hana</u>	Model: <u>H19829</u>	Serial Number: <u>09410009101</u>					
Water Level Meter		Make: <u>Hera</u>	Model: <u>Dipper-T</u>	Serial Number: <u>3717-T</u>					
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>4.03</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NO</u>	<u>N/A</u>	MSI	024140-01	5/21/2026
pH 7.00a	<u>7.04</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NO</u>	<u>N/A</u>	MSI	025066-02	3/24/2027
pH 10.00a	<u>9.99</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NO</u>	<u>N/A</u>	MSI	025066-01	3/18/2027
SC Zero (DI)	<u>0.0</u>	µS/cm	0<25 µS/cm	<u>P</u>	<u>NO</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<u>2002</u>	µS/cm	±5%	<u>P</u>	<u>NO</u>	<u>N/A</u>	Proactive	5G11693	Sep-26
ORP	<u>238</u>	mV	±15 mV	<u>P</u>	<u>NO</u>	<u>N/A</u>	In-Situ	5GC1058	Dec-25
DO (Zero pt)	<u>0.1</u>	mg/L	±0.1	<u>P</u>	<u>NO</u>	<u>N/A</u>	Thermo-Scientific	10240674	9/1/2026
DO (Saturated)	<u>99.3</u>	%	97-100%	<u>P</u>	<u>NO</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<u>0.0</u>	NTU	<2 NTU	<u>P</u>	<u>NO</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)
Approx. every 8 hrs, unless only one well									
ICV (Initial Calibration Verification)					Time: <u>7:30</u>				
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	<u>3.98</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>NO</u>	Proactive	5GD0333	Apr-27	
pH 7.00b	<u>6.99</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>NO</u>	Proactive	5GC1678	Mar-27	
pH 10.00b	<u>10.26</u>	s.u.	±0.15 s.u.	<u>F</u>	<u>yes / 10.07</u>	Proactive	5GC1614	Mar-27	
SC 1000	<u>1039</u>	µS/cm	±5%	<u>P</u>	<u>NO</u>	Reagents	8405243	Jun-26	
Approx. every 8 hrs, unless only one well									
CCV (Continued Calibration Verification):					Time: <u>16:20</u>				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>4.01</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NO</u>	<u>N/A</u>	MSI	024140-01	5/21/2026
pH 7.00a	<u>6.96</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NO</u>	<u>N/A</u>	MSI	024145-01	5/29/2026
pH 10.00a	<u>9.98</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NO</u>	<u>N/A</u>	MSI	024072-02	3/21/2026
SC 1000	<u>1031</u>	µS/cm	±5%	<u>P</u>	<u>NO</u>	<u>N/A</u>	Reagents	8405243	Jun-26
DO (Zero pt)	<u>0.1</u>	mg/L	±0.1 mg/L	<u>P</u>	<u>NO</u>	<u>N/A</u>	Thermo-Scientific	10240674	9/1/2026
Turbidity (DI)	<u>0.0</u>	NTU	<2 NTU	<u>P</u>	<u>NO</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)
Approx. every 8 hrs, unless only one well									
Comments:									
Signature: <u>[Signature]</u>					Date: <u>10/28/25</u>				

### Multiparameter Meter Field Calibration Checklist

Field Personnel: <u>Jordan Bohannon</u>				Location: <u>Hennepin</u>					
Weather: <u>50°F, Cloudy, 7mph ENE wind</u>				Environment: <u>Grassy</u>					
Multiparameter Water Meter		Make: <u>HANNA</u>	Model: <u>HI 9899</u>	Serial Number: <u>08080027101</u>					
Water Level Meter		Make: <u>Heron</u>	Model: <u>Dipper T</u>	Serial Number: <u>19FF2111015HB</u>					
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>3.97</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>No</u>	<u>N/A</u>	MSI	024140-01	5/21/2026
pH 7.00a	<u>6.93</u>	s.u.	±0.1 s.u.				MSI	025066-02	3/24/2027
pH 10.00a	<u>10.05</u>	s.u.	±0.1 s.u.				MSI	025066-01	3/18/2027
SC Zero (DI)	<u>0.00</u>	µS/cm	0<25 µS/cm				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<u>2071</u>	µS/cm	±5%				Proactive	5G11693	Sep-26
ORP	<u>235</u>	mV	±15 mV				In-Situ	5GC1058	Dec-25
DO (Zero pt)	<u>0.00</u>	mg/L	±0.1				Thermo-Scientific	10240674	9/1/2026
DO (Saturated)	<u>100%</u>	%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<u>0.00</u>	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 8 hrs, unless only one well

ICV (Initial Calibration Verification)				Time: <u>0757</u>					
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	<u>4.01</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>None</u>	Proactive	5GD0333	Apr-27	
pH 7.00b	<u>7.01</u>	s.u.	±0.15 s.u.			Proactive	5GC1678	Mar-27	
pH 10.00b	<u>10.02</u>	s.u.	±0.15 s.u.			Proactive	5GC1614	Mar-27	
SC 1000	<u>1030</u>	µS/cm	±5%			Reagents	8405243	Jun-26	

Approx. every 8 hrs, unless only one well

CCV (Continued Calibration Verification):				Time: <u>1608</u>					
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>4.02</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>No</u>	<u>N/A</u>	MSI	024140-01	5/21/2026
pH 7.00a	<u>7.01</u>	s.u.	±0.1 s.u.				MSI	024145-01	5/29/2026
pH 10.00a	<u>10.02</u>	s.u.	±0.1 s.u.				MSI	024072-02	3/21/2026
SC 1000	<u>1017</u>	µS/cm	±5%				Reagents	8405243	Jun-26
DO (Zero pt)	<u>0.00</u>	mg/L	±0.1 mg/L				Thermo-Scientific	10240674	9/1/2026
Turbidity (DI)	<u>0.00</u>	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 8 hrs, unless only one well

Comments:

Signature: <u>Bohannon</u>	Date: <u>10/28/25</u>
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### Multiparameter Meter Field Calibration Checklist

Field Personnel: <i>Austin Moore</i>				Location: <i>Hennepin</i>					
Weather: <i>Cloudy 45-57° wind 14 mph NE</i>				Environment: <i>Woods, land 6 1/2 powerplant</i>					
Multiparameter Water Meter		Make: <i>Hanna</i>	Model: <i>HI9829</i>	Serial Number: <i>0828 0027101</i>					
Water Level Meter		Make: <i>Herron</i>	Model: <i>Dipper-T</i>	Serial Number: <i>19FF2202131ML</i>					
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<i>3.98</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>N</i>	—	MSI	024140-01	5/21/2026
pH 7.00a	<i>7.01</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>N</i>	—	MSI	025066-02	3/24/2027
pH 10.00a	<i>9.96</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>N</i>	—	MSI	025066-01	3/18/2027
SC Zero (DI)	<i>0</i>	µS/cm	0<25 µS/cm	<i>P</i>	<i>N</i>	—	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<i>2176</i>	µS/cm	±5%	<i>F</i>	<i>Y</i>	<i>2083</i>	Proactive	5G11693	Sep-26
ORP	<i>237.0</i>	mV	±15 mV	<i>P</i>	<i>N</i>	—	In-Situ	5GC1058	Dec-25
DO (Zero pt)	<i>0.00</i>	mg/L	±0.1	<i>P</i>	<i>N</i>	—	Thermo-Scientific	10240674	9/1/2026
DO (Saturated)	<i>97.6</i>	%	97-100%	<i>P</i>	<i>N</i>	—	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<i>0.0</i>	NTU	<2 NTU	<i>P</i>	<i>N</i>	—	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 8 hrs, unless only one well

#### ICV (Initial Calibration Verification)

Time: *0733*

Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	<i>4.01</i>	s.u.	±0.15 s.u.	<i>P</i>	—	Proactive	5GD0333	Apr-27
pH 7.00b	<i>7.02</i>	s.u.	±0.15 s.u.	<i>P</i>	—	Proactive	5GC1678	Mar-27
pH 10.00b	<i>9.91</i>	s.u.	±0.15 s.u.	<i>P</i>	—	Proactive	5GC1614	Mar-27
SC 1000	<i>1188</i>	µS/cm	±5%	<i>F</i>	<i>Y 1042</i>	Reagents	8405243	Jun-26

Approx. every 8 hrs, unless only one well

#### CCV (Continued Calibration Verification):

Time: *1627*

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<i>3.92</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>Y</i>	<i>4.05</i>	MSI	024140-01	5/21/2026
pH 7.00a	<i>7.08</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>Y</i>	<i>6.94</i>	MSI	024145-01	5/29/2026
pH 10.00a	<i>9.99</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>N</i>	—	MSI	024072-02	3/21/2026
SC 1000	<i>1135</i>	µS/cm	±5%	<i>F</i>	<i>Y</i>	<i>1035</i>	Reagents	8405243	Jun-26
DO (Zero pt)	<i>0.00</i>	mg/L	±0.1 mg/L	<i>P</i>	<i>N</i>	—	Thermo-Scientific	10240674	9/1/2026
Turbidity (DI)	<i>0.3</i>	NTU	<2 NTU	<i>P</i>	<i>N</i>	—	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 8 hrs, unless only one well

Comments:

Signature: *Austin Moore* Date: *29-Oct-25*

## Multiparameter Meter Field Calibration Checklist

Field Personnel: <u>A.J.W</u>		Location: <u>Hennepin</u>							
Weather: <u>Cloudy 45-57° 14 mph Wind NE</u>		Environment: <u>grassy, overgrown</u>							
Multiparameter Water Meter	Make: <u>Hanna</u>	Model: <u>H19829</u>	Serial Number: <u>09410009101</u>						
Water Level Meter	Make: <u>Hecon</u>	Model: <u>Dipper-T</u>	Serial Number: <u>3717-T</u>						
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>3.91</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NO</u>	<u>N/A</u>	MSI	024140-01	5/21/2026
pH 7.00a	<u>7.04</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NO</u>	<u>N/A</u>	MSI	025066-02	3/24/2027
pH 10.00a	<u>10.02</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NO</u>	<u>N/A</u>	MSI	025066-01	3/18/2027
SC Zero (DI)	<u>0.0</u>	µS/cm	0<25 µS/cm	<u>P</u>	<u>NO</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<u>2037</u>	µS/cm	±5%	<u>P</u>	<u>NO</u>	<u>N/A</u>	Proactive	5G11693	Sep-26
ORP	<u>241</u>	mV	±15 mV	<u>P</u>	<u>NO</u>	<u>N/A</u>	In-Situ	5GC1058	Dec-25
DO (Zero pt)	<u>0.1</u>	mg/L	±0.1	<u>P</u>	<u>NO</u>	<u>N/A</u>	Thermo-Scientific	10240674	9/1/2026
DO (Saturated)	<u>99.5</u>	%	97-100%	<u>P</u>	<u>NO</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<u>0.0</u>	NTU	<2 NTU	<u>P</u>	<u>NO</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 8 hrs, unless only one well

ICV (Initial Calibration Verification)					Time:					
					<u>7:30</u>					
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.		
pH 4.00b	<u>4.05</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>NO</u>	Proactive	5GD0333	Apr-27		
pH 7.00b	<u>7.04</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>NO</u>	Proactive	5GC1678	Mar-27		
pH 10.00b	<u>9.98</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>NO</u>	Proactive	5GC1614	Mar-27		
SC 1000	<u>1045</u>	µS/cm	±5%	<u>P</u>	<u>NO</u>	Reagents	8405243	Jun-26		

Approx. every 8 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:					
					<u>15:36</u>					
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.	
pH 4.00a	<u>4.02</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NO</u>	<u>N/A</u>	MSI	024140-01	5/21/2026	
pH 7.00a	<u>7.06</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NO</u>	<u>N/A</u>	MSI	024145-01	5/29/2026	
pH 10.00a	<u>10.01</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NO</u>	<u>N/A</u>	MSI	024072-02	3/21/2026	
SC 1000	<u>1032</u>	µS/cm	±5%	<u>P</u>	<u>NO</u>	<u>N/A</u>	Reagents	8405243	Jun-26	
DO (Zero pt)	<u>0.1</u>	mg/L	±0.1 mg/L	<u>P</u>	<u>NO</u>	<u>N/A</u>	Thermo-Scientific	10240674	9/1/2026	
Turbidity (DI)	<u>0.0</u>	NTU	<2 NTU	<u>P</u>	<u>NO</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)	

Approx. every 8 hrs, unless only one well

Comments:

Signature: <u><i>Alex H. [Signature]</i></u>	Date: <u>10/29/25</u>
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### Multiparameter Meter Field Calibration Checklist

Field Personnel: <u>AJW</u>				Location: <u>Hennepin</u>					
Weather: <u>Sunny 42°-60 10 mph Wind W</u>				Environment: <u>grassy, overgrown</u>					
Multiparameter Water Meter		Make: <u>Hanna</u>	Model: <u>H19829</u>	Serial Number: <u>09410009101</u>					
Water Level Meter		Make: <u>Heron</u>	Model: <u>DPW-T</u>	Serial Number: <u>3717-T</u>					
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>4.00</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NO</u>	<u>N/A</u>	MSI	024140-01	5/21/2026
pH 7.00a	<u>6.96</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NO</u>	<u>N/A</u>	MSI	025066-02	3/24/2027
pH 10.00a	<u>9.99</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NO</u>	<u>N/A</u>	MSI	025066-01	3/18/2027
SC Zero (DI)	<u>0.0</u>	µS/cm	0<25 µS/cm	<u>P</u>	<u>NO</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<u>2021</u>	µS/cm	±5%	<u>P</u>	<u>NO</u>	<u>N/A</u>	Proactive	5G11693	Sep-26
ORP	<u>239</u>	mV	±15 mV	<u>P</u>	<u>NO</u>	<u>N/A</u>	In-Situ	5GC1058	Dec-25
DO (Zero pt)	<u>0.1</u>	mg/L	±0.1	<u>P</u>	<u>NO</u>	<u>N/A</u>	Thermo-Scientific	10240674	9/1/2026
DO (Saturated)	<u>99.3</u>	%	97-100%	<u>P</u>	<u>NO</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<u>0.0</u>	NTU	<2 NTU	<u>P</u>	<u>NO</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 8 hrs, unless only one well

ICV (Initial Calibration Verification)					Time: <u>7:46</u>				
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	<u>3.91</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>NO</u>	Proactive	5GD0333	Apr-27	
pH 7.00b	<u>6.92</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>NO</u>	Proactive	5GC1678	Mar-27	
pH 10.00b	<u>9.93</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>NO</u>	Proactive	5GC1614	Mar-27	
SC 1000	<u>1045</u>	µS/cm	±5%	<u>P</u>	<u>NO</u>	Reagents	8405243	Jun-26	

Approx. every 8 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: <u>16:18</u>				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>4.00</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NO</u>	<u>N/A</u>	MSI	024140-01	5/21/2026
pH 7.00a	<u>6.95</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NO</u>	<u>N/A</u>	MSI	024145-01	5/29/2026
pH 10.00a	<u>9.97</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NO</u>	<u>N/A</u>	MSI	024072-02	3/21/2026
SC 1000	<u>1023</u>	µS/cm	±5%	<u>P</u>	<u>NO</u>	<u>N/A</u>	Reagents	8405243	Jun-26
DO (Zero pt)	<u>0.1</u>	mg/L	±0.1 mg/L	<u>P</u>	<u>NO</u>	<u>N/A</u>	Thermo-Scientific	10240674	9/1/2026
Turbidity (DI)	<u>0.0</u>	NTU	<2 NTU	<u>P</u>	<u>NO</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 8 hrs, unless only one well

Comments:

Signature: [Signature] Date: 11/03/25

### Multiparameter Meter Field Calibration Checklist

Field Personnel: <u>Austin Moore</u>				Location: <u>Hennipen</u>					
Weather: <u>Sunny 42°-60° w/n at 10am</u>				Environment: <u>Landfill</u>					
Multiparameter Water Meter		Make: <u>Hanna</u>	Model: <u>HI9829</u>	Serial Number: <u>08080027181</u>					
Water Level Meter		Make: <u>Heron</u>	Model: <u>Dippec-T</u>	Serial Number: <u>19FF2202130ML</u>					
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>4.01</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N</u>	<u>—</u>	MSI	024140-01	5/21/2026
pH 7.00a	<u>6.89</u>	s.u.	±0.1 s.u.	<u>F</u>	<u>Y</u>	<u>7.01</u>	MSI	025066-02	3/24/2027
pH 10.00a	<u>10.02</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N</u>	<u>—</u>	MSI	025066-01	3/18/2027
SC Zero (DI)	<u>0.0</u>	µS/cm	0<25 µS/cm	<u>P</u>	<u>N</u>	<u>—</u>	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<u>2602</u>	µS/cm	±5%	<u>F</u>	<u>X</u>	<u>2085</u>	Proactive	5G11693	Sep-26
ORP	<u>239.6</u>	mV	±15 mV	<u>P</u>	<u>N</u>	<u>—</u>	In-Situ	5GC1058	Dec-25
DO (Zero pt)	<u>0.00</u>	mg/L	±0.1	<u>P</u>	<u>N</u>	<u>—</u>	Thermo-Scientific	10240674	9/1/2026
DO (Saturated)	<u>98.2</u>	%	97-100%	<u>P</u>	<u>N</u>	<u>—</u>	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<u>0.1</u>	NTU	<2 NTU	<u>P</u>	<u>N</u>	<u>—</u>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 8 hrs, unless only one well

ICV (Initial Calibration Verification)				Time: <u>0750</u>					
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	<u>4.03</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>—</u>	Proactive	5GD0333	Apr-27	
pH 7.00b	<u>7.02</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>—</u>	Proactive	5GC1678	Mar-27	
pH 10.00b	<u>10.05</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>—</u>	Proactive	5GC1614	Mar-27	
SC 1000	<u>1517</u>	µS/cm	±5%	<u>F</u>	<u>Y</u>	<u>1032</u>	Reagents	8405243	Jun-26

Approx. every 8 hrs, unless only one well

CCV (Continued Calibration Verification):				Time: <u>1725</u>					
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>4.00</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N</u>	<u>—</u>	MSI	024140-01	5/21/2026
pH 7.00a	<u>6.99</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N</u>	<u>—</u>	MSI	024145-01	5/29/2026
pH 10.00a	<u>10.02</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N</u>	<u>—</u>	MSI	024072-02	3/21/2026
SC 1000	<u>1021</u>	µS/cm	±5%	<u>P</u>	<u>N</u>	<u>—</u>	Reagents	8405243	Jun-26
DO (Zero pt)	<u>0.00</u>	mg/L	±0.1 mg/L	<u>P</u>	<u>N</u>	<u>—</u>	Thermo-Scientific	10240674	9/1/2026
Turbidity (DI)	<u>0.3</u>	NTU	<2 NTU	<u>P</u>	<u>N</u>	<u>—</u>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 8 hrs, unless only one well

Comments:

Signature: Austin M Date: 3-Nov-25

### Multiparameter Meter Field Calibration Checklist

Field Personnel:	Austin Moore				Location:	Hennepin			
Weather:	66°-70° cloudy wind 11 mph SE				Environment:	Landfill			
Multiparameter Water Meter	Make:	Hanna	Model:	HI9829	Serial Number:	08080097A01			
Water Level Meter	Make:	Heron	Model:	Dipper-T	Serial Number:	19FF-220213(ML)			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	3.76	s.u.	±0.1 s.u.	F	Y	4.01	MSI	024140-01	5/21/2026
pH 7.00a	6.87	s.u.	±0.1 s.u.	F	Y	7.05	MSI	025066-02	3/24/2027
pH 10.00a	9.99	s.u.	±0.1 s.u.	P	Y	9.99	MSI	025066-01	3/18/2027
SC Zero (DI)	375	µS/cm	0<25 µS/cm	F	Y	7	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	1992	µS/cm	±5%	P	N	—	Proactive	5G11693	Sep-26
ORP	240.3	mV	±15 mV	F	N	—	In-Situ	5GC1058	Dec-25
DO (Zero pt)	0.03	mg/L	±0.1	P	N	—	Thermo-Scientific	10240674	9/1/2026
DO (Saturated)	97.2	%	97-100%	P	N	—	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.6	NTU	<2 NTU	P	N	—	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 8 hrs, unless only one well

#### ICV (Initial Calibration Verification)

Time: 0732

Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	3.79	s.u.	±0.15 s.u.	F	Y 4.01	Proactive	5GD0333	Apr-27
pH 7.00b	6.96	s.u.	±0.15 s.u.	P	Y 7.01	Proactive	5GC1678	Mar-27
pH 10.00b	9.88	s.u.	±0.15 s.u.	P	Y 10.01	Proactive	5GC1614	Mar-27
SC 1000	1095	µS/cm	±5%	F	Y 1097	Reagents	8405243	Jun-26

Approx. every 8 hrs, unless only one well

#### CCV (Continued Calibration Verification):

Time: 1719

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	3.98	s.u.	±0.1 s.u.	P	N	—	MSI	024140-01	5/21/2026
pH 7.00a	7.02	s.u.	±0.1 s.u.	P	N	—	MSI	024145-01	5/29/2026
pH 10.00a	10.09	s.u.	±0.1 s.u.	P	N	—	MSI	024072-02	3/21/2026
SC 1000	1039	µS/cm	±5%	P	N	—	Reagents	8405243	Jun-26
DO (Zero pt)	0.00	mg/L	±0.1 mg/L	P	N	—	Thermo-Scientific	10240674	9/1/2026
Turbidity (DI)	0.2	NTU	<2 NTU	P	N	—	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 8 hrs, unless only one well

Comments:

Signature: *Austin Moore*

Date: 4-Nov-25

### Multiparameter Meter Field Calibration Checklist

Field Personnel: <i>Austin Moore</i>				Location: <i>Hennepin</i>					
Weather: <i>64°-39° sunny wind 10 mph NW</i>				Environment: <i>Landfill</i>					
Multiparameter Water Meter		Make: <i>Hanna</i>	Model: <i>HI9829</i>	Serial Number: <i>08080027101</i>					
Water Level Meter		Make: <i>Herin</i>	Model: <i>Dipart</i>	Serial Number: <i>19FF2202131ML</i>					
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<i>4.08</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>N</i>	—	MSI	024140-01	5/21/2026
pH 7.00a	<i>7.00</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>N</i>	—	MSI	025066-02	3/24/2027
pH 10.00a	<i>10.07</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>N</i>	—	MSI	025066-01	3/18/2027
SC Zero (DI)	<i>10</i>	µS/cm	0<25 µS/cm	<i>P</i>	<i>N</i>	—	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<i>1998</i>	µS/cm	±5%	<i>P</i>	<i>N</i>	—	Proactive	5G11693	Sep-26
ORP	<i>238.1</i>	mV	±15 mV	<i>P</i>	<i>N</i>	—	In-Situ	5GC1058	Dec-25
DO (Zero pt)	<i>0.04</i>	mg/L	±0.1	<i>P</i>	<i>N</i>	—	Thermo-Scientific	10240674	9/1/2026
DO (Saturated)	<i>98.5</i>	%	97-100%	<i>P</i>	<i>N</i>	—	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<i>1.4</i>	NTU	<2 NTU	<i>P</i>	<i>N</i>	—	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 8 hrs, unless only one well

ICV (Initial Calibration Verification)						Time: <i>0733</i>			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	<i>3.98</i>	s.u.	±0.15 s.u.	<i>P</i>	<i>N</i> —	Proactive	5GD0333	Apr-27	
pH 7.00b	<i>6.88</i>	s.u.	±0.15 s.u.	<i>P</i>	<i>N</i> —	Proactive	5GC1678	Mar-27	
pH 10.00b	<i>9.97</i>	s.u.	±0.15 s.u.	<i>P</i>	<i>N</i> —	Proactive	5GC1614	Mar-27	
SC 1000	<i>1112</i>	µS/cm	±5%	<i>F</i>	<i>Y 1012</i>	Reagents	8405243	Jun-26	

Approx. every 8 hrs, unless only one well

CCV (Continued Calibration Verification):						Time: <i>1559</i>			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<i>3.96</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>N</i>	—	MSI	024140-01	5/21/2026
pH 7.00a	<i>7.04</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>N</i>	—	MSI	024145-01	5/29/2026
pH 10.00a	<i>10.04</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>N</i>	—	MSI	024072-02	3/21/2026
SC 1000	<i>1115</i>	µS/cm	±5%	<i>F</i>	<i>Y</i>	<i>1000</i>	Reagents	8405243	Jun-26
DO (Zero pt)	<i>0.02</i>	mg/L	±0.1 mg/L	<i>P</i>	<i>N</i>	—	Thermo-Scientific	10240674	9/1/2026
Turbidity (DI)	<i>1.2</i>	NTU	<2 NTU	<i>P</i>	<i>N</i>	—	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 8 hrs, unless only one well

Comments:

Signature: *Austin M* Date: *5-Nov-25*

## Multiparameter Meter Field Calibration Checklist

Field Personnel: <u>AJW</u>				Location: <u>Hennepin</u>					
Weather: <u>Sunny 53°-62° 12 mph WNW</u>				Environment: <u>grassy, overgrown</u>					
Multiparameter Water Meter		Make: <u>Hanna</u>	Model: <u>HI9829</u>	Serial Number: <u>09410009101</u>					
Water Level Meter		Make: <u>Heron</u>	Model: <u>Dipnet</u>	Serial Number: <u>3717-T</u>					
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>4.08</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NO</u>	<u>N/A</u>	MSI	024140-01	5/21/2026
pH 7.00a	<u>7.03</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NO</u>	<u>N/A</u>	MSI	025066-02	3/24/2027
pH 10.00a	<u>10.04</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NO</u>	<u>N/A</u>	MSI	025066-01	3/18/2027
SC Zero (DI)	<u>0.0</u>	µS/cm	0<25 µS/cm	<u>P</u>	<u>NO</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<u>2065</u>	µS/cm	±5%	<u>P</u>	<u>NO</u>	<u>N/A</u>	Proactive	5G11693	Sep-26
ORP	<u>242</u>	mV	±15 mV	<u>P</u>	<u>NO</u>	<u>N/A</u>	In-Situ	5GC1058	Dec-25
DO (Zero pt)	<u>0.1</u>	mg/L	±0.1	<u>P</u>	<u>NO</u>	<u>N/A</u>	Thermo-Scientific	10240674	9/1/2026
DO (Saturated)	<u>99.4</u>	%	97-100%	<u>P</u>	<u>NO</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<u>0.0</u>	NTU	<2 NTU	<u>P</u>	<u>NO</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 8 hrs, unless only one well

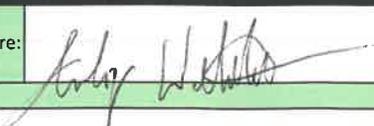
ICV (Initial Calibration Verification)					Time: <u>7:32</u>				
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	<u>4.06</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>NO</u>	Proactive	5GD0333	Apr-27	
pH 7.00b	<u>7.01</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>NO</u>	Proactive	5GC1678	Mar-27	
pH 10.00b	<u>10.02</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>NO</u>	Proactive	5GC1614	Mar-27	
SC 1000	<u>996</u>	µS/cm	±5%	<u>P</u>	<u>NO</u>	Reagents	8405243	Jun-26	

Approx. every 8 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: <u>15:40</u>				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>4.07</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NO</u>	<u>N/A</u>	MSI	024140-01	5/21/2026
pH 7.00a	<u>7.06</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NO</u>	<u>N/A</u>	MSI	024145-01	5/29/2026
pH 10.00a	<u>10.01</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NO</u>	<u>N/A</u>	MSI	024072-02	3/21/2026
SC 1000	<u>1015</u>	µS/cm	±5%	<u>P</u>	<u>NO</u>	<u>N/A</u>	Reagents	8405243	Jun-26
DO (Zero pt)	<u>0.1</u>	mg/L	±0.1 mg/L	<u>P</u>	<u>NO</u>	<u>N/A</u>	Thermo-Scientific	10240674	9/1/2026
Turbidity (DI)	<u>0.0</u>	NTU	<2 NTU	<u>P</u>	<u>NO</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 8 hrs, unless only one well

Comments:

Signature: 	Date: <u>11/05/25</u>
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**ATTACHMENT C  
COMPARISON TO BACKGROUND QUARTER 4, 2025**

**ATTACHMENT C.**  
**COMPARISON TO BACKGROUND - QUARTER 4, 2025**

845 QUARTERLY REPORT  
 HENNEPIN POWER PLANT  
 ASH POND NO. 2 AND ASH POND NO. 4  
 HENNEPIN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
03R	UA	E011	Antimony, total	mg/L	12/09/15 - 11/03/25	32	100	All ND - Last	0.003	0.001
03R	UA	E011	Arsenic, total	mg/L	12/09/15 - 11/03/25	33	100	All ND - Last	0.001	0.001
03R	UA	E011	Barium, total	mg/L	12/09/15 - 11/03/25	35	0	CI around geomean	0.061	0.212
03R	UA	E011	Beryllium, total	mg/L	12/09/15 - 11/03/25	32	100	All ND - Last	0.001	0.001
03R	UA	E011	Boron, total	mg/L	12/09/15 - 11/03/25	39	0	CB around T-S line	0.303	0.163
03R	UA	E011	Cadmium, total	mg/L	12/09/15 - 11/03/25	34	94	CB around T-S line	0.00057	0.00230
03R	UA	E011	Chloride, total	mg/L	12/09/15 - 11/03/25	39	0	CB around T-S line	76.3	435
03R	UA	E011	Chromium, total	mg/L	12/09/15 - 11/03/25	33	94	CB around T-S line	0.00184	0.00100
03R	UA	E011	Cobalt, total	mg/L	12/09/15 - 11/03/25	34	97	CI around median	0.001	0.0380
03R	UA	E011	Fluoride, total	mg/L	12/09/15 - 11/03/25	36	3	CI around median	0.27	0.120
03R	UA	E011	Lead, total	mg/L	12/09/15 - 11/03/25	33	100	All ND - Last	0.001	0.00150
03R	UA	E011	Lithium, total	mg/L	12/09/15 - 11/03/25	38	3	CB around linear reg	0.0151	0.0190
03R	UA	E011	Mercury, total	mg/L	12/09/15 - 11/03/25	32	100	All ND - Last	0.0002	0.0002
03R	UA	E011	Molybdenum, total	mg/L	12/09/15 - 11/03/25	38	0	CB around linear reg	0.0502	0.00170
03R	UA	E011	pH (field)	SU	12/09/15 - 11/03/25	42	0	CI around mean	7.2/7.3	6.6/7.5
03R	UA	E011	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 11/03/25	33	0	CI around median	0.319	1.50
03R	UA	E011	Selenium, total	mg/L	12/09/15 - 11/03/25	35	6	CI around mean	0.00476	0.00140
03R	UA	E011	Sulfate, total	mg/L	12/09/15 - 11/03/25	38	0	CB around linear reg	69.3	215
03R	UA	E011	Thallium, total	mg/L	12/09/15 - 11/03/25	32	100	All ND - Last	0.001	0.001
03R	UA	E011	Total Dissolved Solids	mg/L	12/09/15 - 11/03/25	39	0	CI around mean	509	1,620
18S	UA	E011	Antimony, total	mg/L	12/09/15 - 11/04/25	32	100	All ND - Last	0.003	0.001
18S	UA	E011	Arsenic, total	mg/L	12/09/15 - 11/04/25	33	97	CI around median	0.001	0.001
18S	UA	E011	Barium, total	mg/L	12/09/15 - 11/04/25	35	0	CB around linear reg	0.0486	0.212
18S	UA	E011	Beryllium, total	mg/L	12/09/15 - 11/04/25	32	100	All ND - Last	0.001	0.001
18S	UA	E011	Boron, total	mg/L	12/09/15 - 11/04/25	39	0	CB around T-S line	1.05	0.163
18S	UA	E011	Cadmium, total	mg/L	12/09/15 - 11/04/25	34	91	CB around T-S line	0.000538	0.00230
18S	UA	E011	Chloride, total	mg/L	12/09/15 - 11/04/25	39	0	CB around linear reg	69.6	435

**ATTACHMENT C.**  
**COMPARISON TO BACKGROUND - QUARTER 4, 2025**

845 QUARTERLY REPORT  
 HENNEPIN POWER PLANT  
 ASH POND NO. 2 AND ASH POND NO. 4  
 HENNEPIN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
18S	UA	E011	Chromium, total	mg/L	12/09/15 - 11/04/25	34	62	CB around T-S line	0.00159	0.00100
18S	UA	E011	Cobalt, total	mg/L	12/09/15 - 11/04/25	34	94	CI around median	0.001	0.0380
18S	UA	E011	Fluoride, total	mg/L	12/09/15 - 11/04/25	36	6	CB around T-S line	0.168	0.120
18S	UA	E011	Lead, total	mg/L	12/09/15 - 11/04/25	33	100	All ND - Last	0.001	0.00150
18S	UA	E011	Lithium, total	mg/L	12/09/15 - 11/04/25	38	0	CB around T-S line	0.0299	0.0190
18S	UA	E011	Mercury, total	mg/L	12/09/15 - 11/04/25	32	100	All ND - Last	0.0002	0.0002
18S	UA	E011	Molybdenum, total	mg/L	12/09/15 - 11/04/25	38	0	CB around linear reg	0.0676	0.00170
18S	UA	E011	pH (field)	SU	12/09/15 - 11/04/25	42	0	CI around median	7.3/7.4	6.6/7.5
18S	UA	E011	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 11/04/25	33	0	CI around mean	0.352	1.50
18S	UA	E011	Selenium, total	mg/L	12/09/15 - 11/04/25	35	0	CB around T-S line	0.00211	0.00140
18S	UA	E011	Sulfate, total	mg/L	12/09/15 - 11/04/25	39	0	CB around T-S line	82.8	215
18S	UA	E011	Thallium, total	mg/L	12/09/15 - 11/04/25	32	100	All ND - Last	0.001	0.001
18S	UA	E011	Total Dissolved Solids	mg/L	12/09/15 - 11/04/25	39	0	CB around T-S line	469	1,620
18D	UA	E011	Antimony, total	mg/L	12/09/15 - 11/03/25	32	100	All ND - Last	0.003	0.001
18D	UA	E011	Arsenic, total	mg/L	12/09/15 - 11/03/25	33	100	All ND - Last	0.001	0.001
18D	UA	E011	Barium, total	mg/L	12/09/15 - 11/03/25	35	0	CB around T-S line	0.059	0.212
18D	UA	E011	Beryllium, total	mg/L	12/09/15 - 11/03/25	32	100	All ND - Last	0.001	0.001
18D	UA	E011	Boron, total	mg/L	12/09/15 - 11/03/25	39	0	CB around linear reg	1.04	0.163
18D	UA	E011	Cadmium, total	mg/L	12/09/15 - 11/03/25	34	94	CB around T-S line	0.000724	0.00230
18D	UA	E011	Chloride, total	mg/L	12/09/15 - 11/03/25	39	0	CI around mean	76	435
18D	UA	E011	Chromium, total	mg/L	12/09/15 - 11/03/25	33	94	CB around T-S line	0.00184	0.00100
18D	UA	E011	Cobalt, total	mg/L	12/09/15 - 11/03/25	35	3	CB around linear reg	-0.000747	0.0380
18D	UA	E011	Fluoride, total	mg/L	12/09/15 - 11/03/25	36	6	CI around median	0.15	0.120
18D	UA	E011	Lead, total	mg/L	12/09/15 - 11/03/25	33	94	CB around T-S line	0.000773	0.00150
18D	UA	E011	Lithium, total	mg/L	12/09/15 - 11/03/25	38	0	CB around linear reg	0.0219	0.0190
18D	UA	E011	Mercury, total	mg/L	12/09/15 - 11/03/25	32	100	All ND - Last	0.0002	0.0002
18D	UA	E011	Molybdenum, total	mg/L	12/09/15 - 11/03/25	38	0	CI around median	0.0314	0.00170

**ATTACHMENT C.**  
**COMPARISON TO BACKGROUND - QUARTER 4, 2025**

845 QUARTERLY REPORT  
 HENNEPIN POWER PLANT  
 ASH POND NO. 2 AND ASH POND NO. 4  
 HENNEPIN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
18D	UA	E011	pH (field)	SU	12/09/15 - 11/03/25	42	0	CI around median	7.2/7.2	6.6/7.5
18D	UA	E011	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 11/03/25	33	0	CI around mean	0.573	1.50
18D	UA	E011	Selenium, total	mg/L	12/09/15 - 11/03/25	34	94	CB around T-S line	0.001	0.00140
18D	UA	E011	Sulfate, total	mg/L	12/09/15 - 11/03/25	39	0	CB around linear reg	85.8	215
18D	UA	E011	Thallium, total	mg/L	12/09/15 - 11/03/25	32	100	All ND - Last	0.001	0.001
18D	UA	E011	Total Dissolved Solids	mg/L	12/09/15 - 11/03/25	39	0	CB around T-S line	464	1,620
45S	UA	E011	Antimony, total	mg/L	12/09/15 - 11/04/25	32	100	All ND - Last	0.003	0.001
45S	UA	E011	Arsenic, total	mg/L	12/09/15 - 11/04/25	33	94	CI around median	0.001	0.001
45S	UA	E011	Barium, total	mg/L	12/09/15 - 11/04/25	35	0	CB around linear reg	0.0786	0.212
45S	UA	E011	Beryllium, total	mg/L	12/09/15 - 11/04/25	32	100	All ND - Last	0.001	0.001
45S	UA	E011	Boron, total	mg/L	12/09/15 - 11/04/25	36	0	CB around linear reg	0.229	0.163
45S	UA	E011	Cadmium, total	mg/L	12/09/15 - 11/04/25	34	38	CB around linear reg	0.000634	0.00230
45S	UA	E011	Chloride, total	mg/L	12/09/15 - 11/04/25	36	0	CB around linear reg	85.3	435
45S	UA	E011	Chromium, total	mg/L	12/09/15 - 11/04/25	34	94	CB around T-S line	0.00175	0.00100
45S	UA	E011	Cobalt, total	mg/L	12/09/15 - 11/04/25	35	14	CI around geomean	0.00146	0.0380
45S	UA	E011	Fluoride, total	mg/L	12/09/15 - 11/04/25	36	6	CB around T-S line	0.222	0.120
45S	UA	E011	Lead, total	mg/L	12/09/15 - 11/04/25	33	79	CI around median	0.001	0.00150
45S	UA	E011	Lithium, total	mg/L	12/09/15 - 11/04/25	35	3	CB around linear reg	0.0108	0.0190
45S	UA	E011	Mercury, total	mg/L	12/09/15 - 11/04/25	32	100	All ND - Last	0.0002	0.0002
45S	UA	E011	Molybdenum, total	mg/L	12/09/15 - 11/04/25	35	0	CB around linear reg	0.0351	0.00170
45S	UA	E011	pH (field)	SU	12/09/15 - 11/04/25	36	0	CI around mean	7.1/7.2	6.6/7.5
45S	UA	E011	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 11/04/25	33	0	CI around geomean	0.452	1.50
45S	UA	E011	Selenium, total	mg/L	12/09/15 - 11/04/25	34	100	All ND - Last	0.001	0.00140
45S	UA	E011	Sulfate, total	mg/L	12/09/15 - 11/04/25	36	0	CI around median	70	215
45S	UA	E011	Thallium, total	mg/L	12/09/15 - 11/04/25	32	100	All ND - Last	0.001	0.001
45S	UA	E011	Total Dissolved Solids	mg/L	12/09/15 - 11/04/25	36	0	CI around mean	528	1,620

**ATTACHMENT C.**  
**COMPARISON TO BACKGROUND - QUARTER 4, 2025**

845 QUARTERLY REPORT  
HENNEPIN POWER PLANT  
ASH POND NO. 2 AND ASH POND NO. 4  
HENNEPIN, IL

**Notes:**

Lower Confidence Limit (LCL) or Upper Confidence Limit (UCL) exceeded the statistical background value

Throughout this document, "exceedance" or "exceedances" is intended to refer only to potential exceedances of proposed applicable background statistics or Groundwater Protection Standards (GWPSs) as described in the proposed groundwater monitoring program which was submitted to the Illinois Environmental Protection Agency (IEPA) as part of Dynegy Midwest Generation, LLC's (DMG's) operating permit application for the Ash Pond No. 2 and Ash Pond No. 4. That operating permit application, including the proposed groundwater monitoring program, remains under review by the IEPA and, therefore, DMG has not identified any actual exceedances.

Events:

E011 = Quarter 4, 2025 sampling event

HSU = hydrostratigraphic unit:

UA = Uppermost Aquifer

mg/L = milligrams per liter

ND = non-detect

pCi/L = picocuries per liter

SU = standard units

Sample Count = number of samples from Sampled Date Range used to calculate the Statistical Result

Statistical Calculation = method used to calculate the statistical result:

All ND - Last = All results were below the reporting limit, and the last determined reporting limit is shown.

CB around linear reg = Confidence band around linear regression

CB around T-S line = Confidence band around Thiel-Sen line

CI around geomean = Confidence interval around the geometric mean

CI around mean = Confidence interval around the mean

CI around median = Confidence interval around the median

Statistical Result = calculated in accordance with the Statistical Analysis Plan using constituent concentrations observed at each monitoring well during all sampling events within the specified date range

Statistical Result Code (if applicable):

NR<sup>1</sup> = Parameter not analyzed.

NR<sup>2</sup> = Data has been rejected following data quality review.

NS<sup>1</sup> = Well has been, or will be, abandoned; therefore, a sample was not collected.

NS<sup>2</sup> = Well either needs or was undergoing maintenance; therefore, a sample was not collected.

NS<sup>3</sup> = The location was not accessible; therefore, a sample was not collected.

NS<sup>4</sup> = The location could not be found; therefore, a sample was not collected.

NS<sup>5</sup> = The location was damaged; therefore, a sample was not collected.

NS<sup>6</sup> = Sampling pump could not yield a sample.

NS<sup>7</sup> = Well was either dry or purged dry and did not recover sufficiently to yield adequate volume for a sample.

NS<sup>8</sup> = A sample was not collected.

PM<sup>1</sup> = Parameter not analyzed as the well purged dry during sample collection and did not sufficiently recover to yield adequate sample volume for analysis.

For pH, the values presented are the lower / upper limits of the background determination