



ENVIRONMENTAL CONSULTATION & REMEDIATION

KPRG and Associates, Inc.

**FEDERAL CCR COMPLIANCE
ANNUAL GROUNDWATER MONITORING and
CORRECTIVE ACTION REPORT – 2023
ASH BY-PASS BASIN AND ASH SURGE BASIN**

**Midwest Generation, LLC
Powerton Station
13082 E. Manito Rd.
Pekin, IL 61554**

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January 31, 2024

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OVERVIEW

Groundwater monitoring requirements in accordance with the Federal Register, Environmental Protection Agency, 40 CFR Parts 257.94 and 257.95, Hazardous and Solid Waste Management System; Disposal of Coal Combustion Residuals from Electric Utilities; Final Rule dated April 17, 2015 (CCR Rule) and subsequent amendments, have been completed for the ash pond monitoring wells located at the Midwest Generation, LLC (Midwest Generation) Powerton Generating Station. The wells sampled were selected to meet the monitoring requirements of the CCR Rule for the Ash Surge Basin (ASB) and the Ash By-pass basin (ABB). The monitoring well network around these ponds consists of monitoring wells MW-01 [upgradient], MW-08, MW-09 [upgradient], MW-11, MW-12, MW-15, MW-17, MW-18 and MW-19 [upgradient] as shown on Figure 1.

This overview of the 2023 groundwater monitoring period is provided in accordance with requirements under Section 257.90(e)(6). Each required item is discussed separately below.

- Section 257.90(e)(6)(i) – At the start of the current monitoring period, the subject CCR units were operating under the assessment monitoring program outlined in Section 257.95.
- Section 257.90(e)(6)(ii) – At the end of the current monitoring period, the subject CCR unit continues to operate under the assessment monitoring program outlined in Section 257.95.
- Section 257.90(e)(6)(iii) – The following statistically significant increases (SSIs) above established background for the Appendix III detection monitoring constituents were noted during this monitoring period:
 - MW-08 – chloride and fluoride (1st through 4th quarters), pH (1st quarter), TDS (1st and 4th quarters)
 - MW-11 – boron and fluoride (1st through 4th quarters), sulfate (1st, 2nd, and 4th quarters)
 - MW-12 – Chloride, fluoride, and sulfate (1st through 4th quarters), pH (1st and 2nd quarters), TDS (1st through 3rd quarters)
 - MW-15 – boron (1st through 3rd quarters), calcium, chloride, fluoride, sulfate, TDS (1st through 4th quarters)
 - MW-17 – boron (1st and 3rd quarters), calcium (1st and 2nd quarters), chloride, fluoride, sulfate, and TDS (1st through 4th quarters), pH (1st quarter)
 - MW-18 – chloride, fluoride, pH, sulfate and TDS (1st through 4th quarters), calcium (3rd and 4th quarters)

Since a previously completed Appendix III Alternate Source Demonstration (ASD) in April 2018 was unsuccessful and the site was shifted to assessment monitoring under Section 257.95, completing another ASD for any Appendix III parameters not included in the initial evaluation is not appropriate. With the exceptions of those constituents discussed in the next bullet, there are no Appendix IV parameter detections above established site-specific Groundwater Protection Standards (GWPSs).

- Section 257.90(e)(6)(iv) – In 2023 there were no confirmed statistically significant levels (SSLs) above GWPSs for the Appendix IV assessment monitoring constituents for these units recorded during this monitoring period with the exception of the following:
 - Arsenic – MW-11 (1st, 3rd and 4th quarters) and MW-12 (1st and 4th quarters)

Arsenic was a parameter previously addressed under the March 25, 2019 Appendix IV ASD which determined that the regulated units were not the source of the SSLs.

- Section 257.90(e)(6)(v) – The subject units are not under corrective action. It is noted that the ABB and ASB are being planned for liner retrofit construction under the Illinois EPA State CCR Rule program to meet the modified CCR liner requirements. Please refer to the State CCR Rule Compliance Annual Groundwater Monitoring and Corrective Action Report – 2023 available on the State CCR compliance website.
- Section 257.90(e)(6)(vi) – The subject units are not under corrective action. It is noted that the ABB and ASB are being planned for liner retrofit construction under the Illinois EPA State CCR Rule program to meet the modified CCR liner requirements. Please refer to the State CCR Rule Compliance Annual Groundwater Monitoring and Corrective Action Report – 2023 available on the State CCR compliance website.

1.0 INTRODUCTION

The Assessment Monitoring requirements in accordance with the Federal Register, Environmental Protection Agency, 40 CFR Parts 257.94 and 257.95, Hazardous and Solid Waste Management System; Disposal of Coal Combustion Residuals from Electric Utilities; Final Rule dated April 17, 2015 (CCR Rule) have been completed for the ash basin monitoring wells located at the Midwest Generation, LLC (Midwest Generation) Powerton Generating Station. The wells sampled were selected to meet the monitoring requirements of the CCR Rule for the ASB and the ABB. The monitoring well network around these ponds consists of monitoring wells (MW-01 [upgradient], MW-08, MW-09 [upgradient], MW-11, MW-12, MW-15, MW-17, MW-18 and MW-19 [upgradient]) as shown on Figure 1.

With the vacating of Section 257.100(b) through (d) in October 2016, the inactive Former Ash Basin (FAB), which is being planned for closure, was added to the CCR units that would require monitoring under the CCR Rule. Wells MW-02 through MW-05 and MW-10 were added to the CCR sampling program specifically for the FAB and are not part of the monitoring program for the Ash Surge Basin and Ash By-pass Basin. The FAB monitoring results are discussed under separate cover.

This annual report covers the work performed relative to CCR groundwater monitoring for the 2023 calendar year for the ASB and ABB. It does not duplicate information or activities previously reported for 2022. It is prepared in accordance with Section 257.90(e)(1-6) and summarizes the sampling procedures used, provides an evaluation of groundwater flow conditions, summarizes the analytical data generated, and summarizes conclusions and recommendations for the station going forward.

2.0 FIELD PROCEDURES AND GROUNDWATER FLOW EVALUATION

2.1 Field Procedures

As previously noted, the CCR groundwater monitoring network around the ASB and ABB consists of monitoring wells MW-01 [upgradient], MW-08, MW-09 [upgradient], MW-11, MW-12, MW-15, MW-17, MW-18 and MW-19 [upgradient] as shown on Figure 1. As part of sampling procedures, the integrity of all monitoring wells was inspected and water levels were obtained using an electronic water level meter (see summary of water level discussion below). All wells were found in generally good condition.

All groundwater samples were collected using the low-flow sampling technique from dedicated pumps. The samples were not filtered prior to analysis to provide for total metals concentrations as opposed to dissolved metals concentrations. One duplicate sample was collected from a randomly selected monitoring well per sampling event for quality assurance purposes.

2.2 Groundwater Flow Evaluation

Water level data measurements were obtained from monitoring wells during each round of groundwater sampling. A complete round of water levels was collected prior to initiating sampling, and the water level data are summarized in Table 1. This table has been modified to include Illinois River water levels from the U.S. Geological Survey (USGS) Kingston Mine gage which is the nearest river gaging station to the site for each well gaging event. A review of water levels associated with the 2023 quarterly groundwater sampling events (February, May, August and November), shows that no river water levels were noted to be higher in elevation than those collected at downgradient monitoring wells or upgradient monitoring wells. It is further noted that there were no such instances in any of the water level monitoring events documented within the Table 1.

Water levels were also concurrently measured at other monitoring well locations in the area that are not part of the CCR monitoring network for the ASB and ABB. The full set of water levels was used to generate a groundwater flow map for each sampling event. It is also noted that CCR monitoring wells MW-08, MW-12, MW-15 and MW-17 are screened within a shallow, localized, saturated clay/silt unit which is underlain by a more extensive sand unit. The remaining monitoring wells have deeper screens, within the more extensive sand unit with the exception of MW-18 which appears to be in a transitional zone between the two units. The water levels from wells screened in the clay/silt unit and the water levels from monitoring wells screened within the sand unit were evaluated separately and used to generate groundwater flow maps for each unit. These maps are provided in Attachment 1.

In accordance with general groundwater sampling requirements under Section 257.93(c), Table 2 provides a summary of the flow direction and an estimated rate of groundwater flow for each sampling event. The flow rate was calculated using the following equation:

$$V_s = \frac{Kdh}{n_e dl}, \text{ where}$$

V_s is seepage velocity (distance/time)

K is hydraulic conductivity (distance/time)

dh/dl is hydraulic gradient (unitless)

n_e is effective porosity (unitless)

The average hydraulic conductivities of 3.28×10^{-7} ft/sec (silt/clay unit) in Table 2 were estimated from literature (Freeze and Cherry, 1979). The average hydraulic conductivity for the sand unit was based on field slug test data. The estimated effective porosities of the silt/clay materials (0.40) and of the sandy materials (0.35) were obtained from literature (Applied Hydrogeology, Fetter, 1980).

3.0 ANALYTICAL DATA AND STATUS OF EVALUATIONS

3.1 Sampling Summary

The groundwater sampling summary for the 2023 reporting period is provided in Table 3 in accordance with 257.90 (e)(3). Federal CCR assessment monitoring requires groundwater sampling on a minimum semi-annual basis. Samples during this reporting period were collected on a quarterly basis exceeding minimum requirements. Analytical data packages are included in Attachment 2.

3.2 Data Summary

The analytical data from the ABB and ASB assessment monitoring groundwater sampling for Appendix III and IV parameters are provided in Tables 4 and 5, respectively. Table 4 includes Prediction Limits (PLs) for Appendix III parameters and Table 5 includes Groundwater Protection Standards (GWPS) established for detected Appendix IV compounds under the Federal CCR Rule. Both tables include the sample dates and whether the specific well is considered upgradient or downgradient relative to groundwater flow and the regulated unit(s). In 2023 there were no confirmed SSLs above GWPSs for the Appendix IV assessment monitoring constituents for these units recorded during this monitoring period with the exception of arsenic at wells MW-11 and MW-12. Arsenic was previously addressed under Appendix IV ASD dated March 25, 2019, for these units, which continues to apply.

3.3 Current Status

The ASB and ABB were transitioned from detection monitoring to assessment monitoring in April 2018 and currently remains in assessment monitoring. It is noted that the ABB and ASB are being planned for liner retrofit construction under the Illinois EPA State CCR Rule program to meet the modified CCR liner requirements. Please refer to the State CCR Rule Compliance Annual Groundwater Monitoring and Corrective Action Report – 2023 available on the State CCR compliance website.

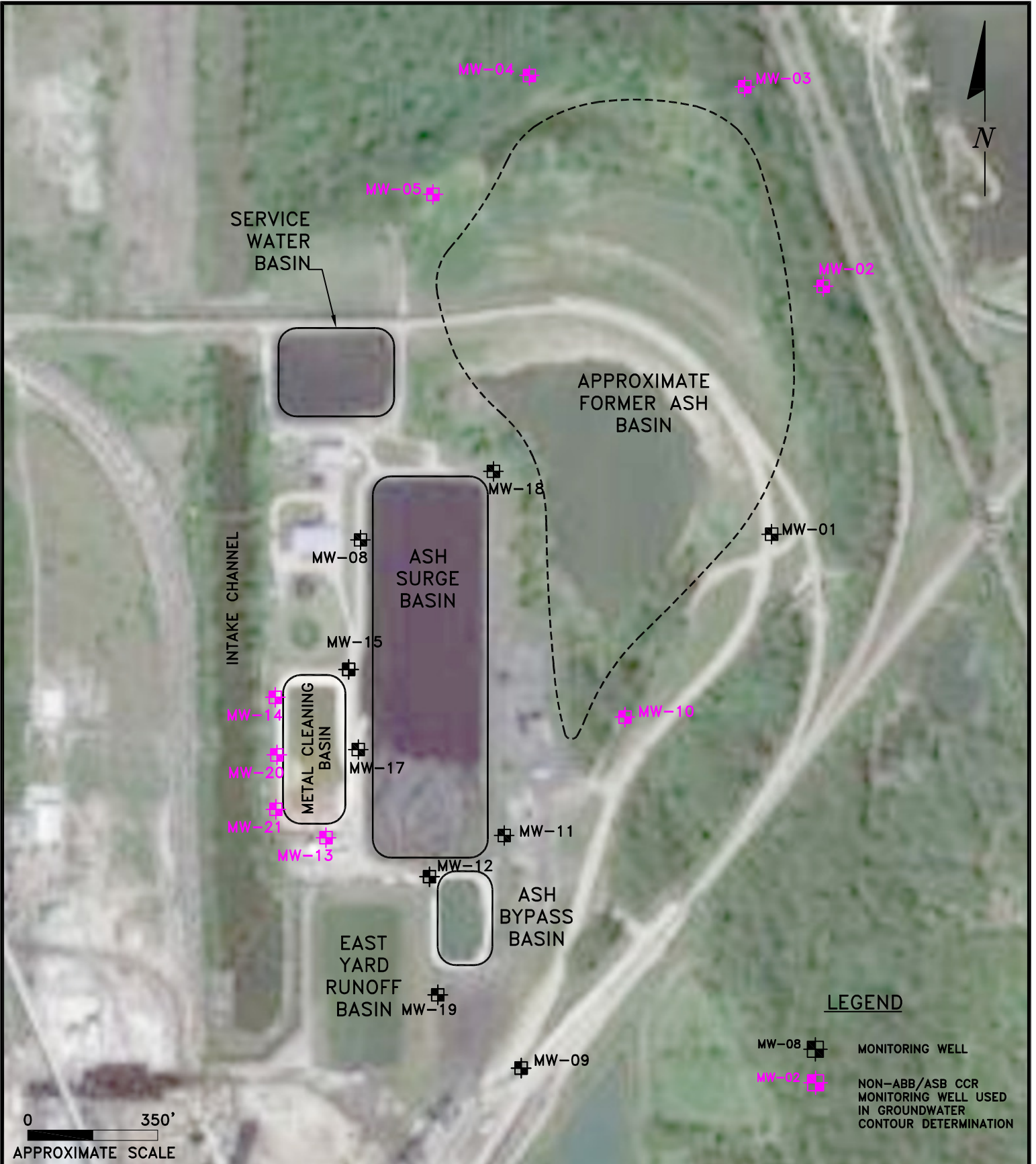
4.0 SUMMARY/CONCLUSIONS AND RECOMMENDATIONS

The assessment monitoring requirements in accordance with the CCR rule are being successfully met. Since the continued assessment monitoring has not detected any Appendix IV constituents above the Federal CCR site specific GWPSs attributable to the subject regulated units, it is recommended that the station remain in assessment monitoring in accordance with Section 257.95.

5.0 REFERENCES

- Federal Register, Environmental Protection Agency, 40 CFR Parts 257 and 261, Hazardous and Solid Waste Management System; Disposal of Coal Combustion Residuals From Electric Utilities; Final Rule. Vol. 80, No. 74, Friday April 17, 2015.
- Patrick Engineering, Inc., Hydrogeologic Assessment Report – Powerton Generating Station, Pekin, IL. February 2011.
- KPRG and Associates, Inc., CCR Compliance Annual Groundwater Monitoring and Corrective Action Report - 2017 Ash By-Pass Basin and Ash-Surge Basin, Midwest Generation, LLC Powerton Generating Station. January 31, 2018.
- KPRG and Associates, Inc., CCR Compliance Annual Groundwater Monitoring and Corrective Action Report - 2018 Ash By-Pass Basin and Ash-Surge Basin, Midwest Generation, LLC Powerton Generating Station. January 31, 2019.
- KPRG and Associates, Inc., CCR Compliance Annual Groundwater Monitoring and Corrective Action Report - 2019 Ash By-Pass Basin and Ash-Surge Basin, Midwest Generation, LLC Powerton Generating Station. January 31, 2020.
- KPRG and Associates, Inc., Alternate Source Demonstration CCR Groundwater Monitoring Powerton Generating Station – Appendix IV Parameters. March 25, 2019.
- KPRG and Associates, Inc., CCR Compliance Annual Groundwater Monitoring and Corrective Action Report - 2020 Ash By-Pass Basin and Ash-Surge Basin, Midwest Generation, LLC Powerton Generating Station. January 31, 2021.
- KPRG and Associates, Inc., CCR Compliance Annual Groundwater Monitoring and Corrective Action Report - 2021 Ash By-Pass Basin and Ash-Surge Basin, Midwest Generation, LLC Powerton Generating Station. January 31, 2022.
- KPRG and Associates, Inc., CCR Compliance Annual Groundwater Monitoring and Corrective Action Report - 2022 Ash By-Pass Basin and Ash-Surge Basin, Midwest Generation, LLC Powerton Generating Station. January 31, 2023.
- C.W. Fetter, Jr., Applied Hydrogeology. Charles E. Merrill Publishing Co., 1980.
- R.A. Freeze and J.A. Cherry, Groundwater. Prentice-Hall, Inc. Publishing Co., 1979

FIGURE



LEGEND

- MW-08 MONITORING WELL
- MW-02 NON-ABB/ASB CCR MONITORING WELL USED IN GROUNDWATER CONTOUR DETERMINATION

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CCR MONITORING WELL SITE MAP

POWERTON STATION
PEKIN, ILLINOIS

Scale: 1" = 350'

Date: June 10, 2021

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KPRG Project No. 12313.1

FIGURE 1

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TABLES

Table 1. Groundwater Elevations for ABB/ASB Wells - Midwest Generation, LLC, Powerton Station, Pekin, IL

Well ID	Date	Top of Casing Elevation (ft above MSL)	Depth to Groundwater (ft below TOC)	Groundwater Elevation (ft above MSL)	Illinois River Gage Reading* (ft above datum)	Illinois River Gage Reading* (ft above MSL)
MW-01 up-gradient	11/16/2015	465.24	26.04	439.20	4.38	431.55
	2/22/2016	465.24	21.90	443.34	7.97	435.14
	5/16/2016	465.24	21.83	443.41	14.53	441.7
	8/15/2016	465.24	23.89	441.35	7.11	434.28
	11/14/2016	465.24	23.38	441.86	6.35	433.52
	2/13/2017	465.24	21.71	443.53	N/A	N/A
	5/1/2017	465.24	18.87	446.37	17.09	444.26
	6/20/2017	465.24	21.54	443.70	11.93	439.1
	8/25/2017	465.24	24.70	440.54	3.86	431.03
	11/8/2017	465.24	24.92	440.32	6.89	434.06
	5/17/2018	465.24	22.66	442.58	9.93	437.1
	8/8/2018	465.24	26.05	439.19	2.13	429.3
	10/30/2018	465.24	24.69	440.55	4.21	431.38
	4/29/2019	465.24	20.15	445.09	14.04	441.21
	11/11/2019	465.24	19.49	445.75	15.92	443.09
	4/27/2020	465.24	20.90	444.34	12.64	439.81
	12/7/2020	465.24	25.69	439.55	2.97	430.14
	2/22/2021	465.24	25.18	440.06	6.21	433.38
	4/7/2021	465.24	22.20	443.04	10.23	437.4
	5/10/2021	465.24	23.41	441.83	10.71	437.88
	6/2/2021	465.24	22.00	443.24	10.7	437.87
	6/28/2021	465.24	23.18	442.06	12.11	439.28
	7/19/2021	465.24	20.43	444.81	15.06	442.23
	8/23/2021	465.24	24.42	440.82	3.49	430.66
	9/30/2021	465.24	26.89	438.35	2.49	429.66
	10/27/2021	465.24	24.53	440.71	13.08	440.25
	11/29/2021	465.24	23.31	441.93	5.17	432.34
	12/30/2021	465.24	24.31	440.93	6.68	433.85
	1/6/2022	465.24	24.86	440.38	6.45	433.62
	2/7/2022	465.24	25.57	439.67	4.4	431.57
	3/1/2022	465.24	21.96	443.28	16.04	443.21
	4/22/2022	465.24	20.03	445.21	N/A	N/A
	5/24/2022	465.24	21.37	443.87	11.42	438.59
	6/6/2022	465.24	22.13	443.11	8.21	435.38
	7/25/2022	465.24	25.48	439.76	5.36	432.53
	8/29/2022	465.24	27.53	437.71	2.55	429.72
	9/28/2022	465.24	28.58	436.66	2.37	429.54
	10/26/2022	465.24	29.75	435.49	4.36	431.53
	11/14/2022	465.24	29.58	435.66	3.2	430.37
	12/28/2022	465.24	26.63	438.61	N/A	N/A
1/24/2023	465.24	27.91	437.33	7.29	434.46	
2/20/2023	465.24	26.94	438.30	7.6	434.77	
3/28/2023	465.24	21.74	443.50	14.9	442.07	
4/25/2023	465.24	22.22	443.02	9.4	436.57	
5/15/2023	465.24	23.91	441.33	8.78	435.95	
6/26/2023	465.24	28.66	436.58	2.42	429.59	
7/25/2023	465.24	28.06	437.18	3.67	430.84	
8/28/2023	465.24	28.85	436.39	3.26	430.43	
9/28/2023	465.24	29.42	435.82	3.35	430.52	
10/27/2023	465.24	29.16	436.08	3.98	431.15	
11/6/2023	465.24	29.23	436.01	3.65	430.82	
12/21/2023	465.24	29.21	436.03	6.12	433.29	

Table 1. Groundwater Elevations for ABB/ASB Wells - Midwest Generation, LLC, Powerton Station, Pekin, IL

Well ID	Date	Top of Casing Elevation (ft above MSL)	Depth to Groundwater (ft below TOC)	Groundwater Elevation (ft above MSL)	Illinois River Gage Reading* (ft above datum)	Illinois River Gage Reading* (ft above MSL)
MW-08 down-gradient	11/16/2015	471.75	26.06	445.69	4.38	431.55
	2/22/2016	471.75	23.99	447.76	7.97	435.14
	5/16/2016	471.75	25.48	446.27	14.53	441.7
	8/15/2016	471.75	23.61	448.14	7.11	434.28
	11/14/2016	471.75	24.31	447.44	6.35	433.52
	2/13/2017	471.75	23.97	447.78	N/A	N/A
	5/1/2017	471.75	23.28	448.47	17.09	444.26
	6/20/2017	471.75	23.31	448.44	11.93	439.1
	8/29/2017	471.75	24.52	447.23	3.86	431.03
	11/8/2017	471.75	25.27	446.48	6.89	434.06
	5/17/2018	471.75	24.36	447.39	9.93	437.1
	8/8/2018	471.75	24.04	447.71	2.13	429.3
	10/31/2018	471.75	24.92	446.83	4.21	431.38
	4/29/2019	471.75	24.28	447.47	14.04	441.21
	11/11/2019	471.75	24.24	447.51	15.92	443.09
	4/27/2020	471.75	24.50	447.25	12.64	439.81
	12/7/2020	471.75	25.35	446.40	2.97	430.14
	2/22/2021	471.75	24.70	447.05	6.21	433.38
	4/7/2021	471.75	24.88	446.87	10.23	437.4
	5/10/2021	471.75	24.75	447.00	10.71	437.88
	6/2/2021	471.75	24.25	447.50	10.7	437.87
	6/28/2021	471.75	24.79	446.96	12.11	439.28
	7/19/2021	471.75	24.33	447.42	15.06	442.23
	8/23/2021	471.75	24.85	446.90	3.49	430.66
	9/30/2021	471.75	25.28	446.47	2.49	429.66
	10/25/2021	471.75	25.30	446.45	13.08	440.25
	11/29/2021	471.75	25.10	446.65	5.17	432.34
	12/30/2021	471.75	25.52	446.23	6.68	433.85
	1/6/2022	471.75	25.59	446.16	6.45	433.62
	2/7/2022	471.75	26.70	445.05	4.4	431.57
	3/1/2022	471.75	25.51	446.24	16.04	443.21
	4/22/2022	471.75	24.74	447.01	N/A	N/A
	5/24/2022	471.75	24.97	446.78	11.42	438.59
	6/6/2022	471.75	25.04	446.71	8.21	435.38
	7/25/2022	471.75	25.56	446.19	5.36	432.53
	8/29/2022	471.75	25.67	446.08	2.55	429.72
	9/28/2022	471.75	25.81	445.94	2.37	429.54
	10/26/2022	471.75	26.17	445.58	4.36	431.53
	11/14/2022	471.75	26.23	445.52	3.2	430.37
	12/28/2022	471.75	26.06	445.69	N/A	N/A
1/24/2023	471.75	26.21	445.54	7.29	434.46	
2/20/2023	471.75	26.25	445.50	7.6	434.77	
3/28/2023	471.75	25.36	446.39	14.9	442.07	
4/25/2023	471.75	25.21	446.54	9.4	436.57	
5/15/2023	471.75	25.42	446.33	8.78	435.95	
6/26/2023	471.75	25.85	445.90	2.42	429.59	
7/25/2023	471.75	26.06	445.69	3.67	430.84	
8/28/2023	471.75	25.89	445.86	3.26	430.43	
9/28/2023	471.75	25.99	445.76	3.35	430.52	
10/27/2023	471.75	26.26	445.49	3.98	431.15	
11/6/2023	471.75	26.28	445.47	3.65	430.82	
12/21/2023	471.75	26.50	445.25	6.12	433.29	

Table 1. Groundwater Elevations for ABB/ASB Wells - Midwest Generation, LLC, Powerton Station, Pekin, IL

Well ID	Date	Top of Casing Elevation (ft above MSL)	Depth to Groundwater (ft below TOC)	Groundwater Elevation (ft above MSL)	Illinois River Gage Reading* (ft above datum)	Illinois River Gage Reading* (ft above MSL)
MW-09 up-gradient	11/16/2015	469.14	26.07	443.07	4.38	431.55
	2/22/2016	469.14	22.83	446.31	7.97	435.14
	5/16/2016	469.14	23.06	446.08	14.53	441.7
	8/15/2016	469.14	24.50	444.64	7.11	434.28
	11/14/2016	469.14	24.33	444.81	6.35	433.52
	2/13/2017	469.14	23.43	445.71	N/A	N/A
	5/1/2017	469.14	20.77	448.37	17.09	444.26
	6/20/2017	469.14	22.15	446.99	11.93	439.1
	8/25/2017	469.14	24.79	444.35	3.86	431.03
	11/8/2017	469.14	25.74	443.40	6.89	434.06
	5/16/2018	469.14	23.89	445.25	9.93	437.1
	8/8/2018	469.14	25.49	443.65	2.13	429.3
	11/1/2018	469.14	26.02	443.12	4.21	431.38
	4/29/2019	469.14	21.30	447.84	14.04	441.21
	11/11/2019	469.14	21.31	447.83	15.92	443.09
	4/27/2020	469.14	21.80	447.34	12.64	439.81
	12/7/2020	469.14	26.19	442.95	2.97	430.14
	2/22/2021	469.14	26.08	443.06	6.21	433.38
	4/7/2021	469.14	23.75	445.39	10.23	437.4
	5/10/2021	469.14	24.55	444.59	10.71	437.88
	6/2/2021	469.14	23.31	445.83	10.7	437.87
	6/28/2021	469.14	24.18	444.96	12.11	439.28
	7/19/2021	469.14	22.20	446.94	15.06	442.23
	8/23/2021	469.14	24.75	444.39	3.49	430.66
	9/30/2021	469.14	26.28	442.86	2.49	429.66
	10/25/2021	469.14	25.42	443.72	13.08	440.25
	11/29/2021	469.14	24.50	444.64	5.17	432.34
	12/30/2021	469.14	25.35	443.79	6.68	433.85
	1/6/2022	469.14	28.11	441.03	6.45	433.62
	2/7/2022	469.14	26.15	442.99	4.4	431.57
	3/1/2022	469.14	23.88	445.26	16.04	443.21
	4/22/2022	469.14	21.75	447.39	N/A	N/A
	5/24/2022	469.14	22.40	446.74	11.42	438.59
	6/6/2022	469.14	22.95	446.19	8.21	435.38
	7/25/2022	469.14	25.51	443.63	5.36	432.53
	8/29/2022	469.14	26.56	442.58	2.55	429.72
	9/28/2022	469.14	27.52	441.62	2.37	429.54
	10/26/2022	469.14	28.38	440.76	4.36	431.53
	11/14/2022	469.14	28.44	440.70	3.2	430.37
	12/28/2022	469.14	27.96	441.18	N/A	N/A
1/24/2023	469.14	27.93	441.21	7.29	434.46	
2/20/2023	469.14	27.62	441.52	7.6	434.77	
3/28/2023	469.14	24.05	445.09	14.9	442.07	
4/25/2023	469.14	23.76	445.38	9.4	436.57	
5/15/2023	469.14	24.90	444.24	8.78	435.95	
6/26/2023	469.14	27.40	441.74	2.42	429.59	
7/25/2023	469.14	27.55	441.59	3.67	430.84	
8/28/2023	469.14	28.00	441.14	3.26	430.43	
9/28/2023	469.14	28.64	440.50	3.35	430.52	
10/27/2023	469.14	28.85	440.29	3.98	431.15	
11/6/2023	469.14	28.98	440.16	3.65	430.82	
12/21/2023	469.14	29.12	440.02	6.12	433.29	

Table 1. Groundwater Elevations for ABB/ASB Wells - Midwest Generation, LLC, Powerton Station, Pekin, IL

Well ID	Date	Top of Casing Elevation (ft above MSL)	Depth to Groundwater (ft below TOC)	Groundwater Elevation (ft above MSL)	Illinois River Gage Reading* (ft above datum)	Illinois River Gage Reading* (ft above MSL)
MW-11 down-gradient	11/16/2015	471.62	31.67	439.95	4.38	431.55
	2/22/2016	471.62	28.34	443.28	7.97	435.14
	5/16/2016	471.62	27.11	444.51	14.53	441.7
	8/15/2016	471.62	29.64	441.98	7.11	434.28
	11/14/2016	471.62	29.19	442.43	6.35	433.52
	2/13/2017	471.62	27.49	444.13	N/A	N/A
	5/1/2017	471.62	24.34	447.28	17.09	444.26
	6/20/2017	471.62	26.94	444.68	11.93	439.1
	8/29/2017	471.62	30.42	441.20	3.86	431.03
	11/9/2017	471.62	30.27	441.35	6.89	434.06
	5/16/2018	471.62	28.58	443.04	9.93	437.1
	8/9/2018	471.62	31.04	440.58	2.13	429.3
	11/1/2018	471.62	30.82	440.80	4.21	431.38
	4/29/2019	471.62	25.38	446.24	14.04	441.21
	11/11/2019	471.62	24.88	446.74	15.92	443.09
	4/27/2020	471.62	26.35	445.27	12.64	439.81
	12/7/2020	471.62	31.35	440.27	2.97	430.14
	2/22/2021	471.62	30.78	440.84	6.21	433.38
	4/7/2021	471.62	27.85	443.77	10.23	437.4
	5/10/2021	471.62	29.19	442.43	10.71	437.88
	6/2/2021	471.62	27.57	444.05	10.7	437.87
	6/28/2021	471.62	28.84	442.78	12.11	439.28
	7/19/2021	471.62	25.82	445.80	15.06	442.23
	8/23/2021	471.62	30.10	441.52	3.49	430.66
	9/30/2021	471.62	31.78	439.84	2.49	429.66
	10/25/2021	471.62	30.12	441.50	13.08	440.25
	11/29/2021	471.62	29.40	442.22	5.17	432.34
	12/30/2021	471.62	30.22	441.40	6.68	433.85
	1/6/2022	471.62	30.09	441.53	6.45	433.62
	2/7/2022	471.62	31.19	440.43	4.4	431.57
	3/1/2022	471.62	26.92	444.70	16.04	443.21
	4/22/2022	471.62	25.43	446.19	N/A	N/A
	5/24/2022	471.62	26.69	444.93	11.42	438.59
	6/6/2022	471.62	27.55	444.07	8.21	435.38
	7/25/2022	471.62	30.77	440.85	5.36	432.53
	8/29/2022	471.62	31.95	439.67	2.55	429.72
	9/28/2022	471.62	32.99	438.63	2.37	429.54
	10/26/2022	471.62	33.86	437.76	4.36	431.53
	11/14/2022	471.62	33.79	437.83	3.2	430.37
	12/28/2022	471.62	32.41	439.21	N/A	N/A
1/24/2023	471.62	32.57	439.05	7.29	434.46	
2/20/2023	471.62	31.91	439.71	7.6	434.77	
3/28/2023	471.62	27.32	444.30	14.9	442.07	
4/25/2023	471.62	27.80	443.82	9.4	436.57	
5/15/2023	471.62	29.25	442.37	8.78	435.95	
6/26/2023	471.62	32.81	438.81	2.42	429.59	
7/25/2023	471.62	32.55	439.07	3.67	430.84	
8/28/2023	471.62	33.15	438.47	3.26	430.43	
9/28/2023	471.62	33.76	437.86	3.35	430.52	
10/27/2023	471.62	33.68	437.94	3.98	431.15	
11/6/2023	471.62	33.79	437.83	3.65	430.82	
12/21/2023	471.62	33.81	437.81	6.12	433.29	

Table 1. Groundwater Elevations for ABB/ASB Wells - Midwest Generation, LLC, Powerton Station, Pekin, IL

Well ID	Date	Top of Casing Elevation (ft above MSL)	Depth to Groundwater (ft below TOC)	Groundwater Elevation (ft above MSL)	Illinois River Gage Reading* (ft above datum)	Illinois River Gage Reading* (ft above MSL)
MW-12 down-gradient	11/16/2015	473.38	24.48	448.90	4.38	431.55
	2/22/2016	473.38	21.41	451.97	7.97	435.14
	5/16/2016	473.38	22.94	450.44	14.53	441.7
	8/15/2016	473.38	23.85	449.53	7.11	434.28
	11/14/2016	473.38	23.89	449.49	6.35	433.52
	2/13/2017	473.38	21.93	451.45	N/A	N/A
	5/1/2017	473.38	22.26	451.12	17.09	444.26
	6/20/2017	473.38	22.76	450.62	11.93	439.1
	8/26/2017	473.38	23.92	449.46	3.86	431.03
	11/10/2017	473.38	24.29	449.09	6.89	434.06
	5/16/2018	473.38	22.46	450.92	9.93	437.1
	8/9/2018	473.38	23.78	449.60	2.13	429.3
	11/1/2018	473.38	23.74	449.64	4.21	431.38
	4/29/2019	473.38	22.05	451.33	14.04	441.21
	11/11/2019	473.38	22.85	450.53	15.92	443.09
	4/27/2020	473.38	21.44	451.94	12.64	439.81
	12/7/2020	473.38	22.70	450.68	2.97	430.14
	2/22/2021	473.38	21.00	452.38	6.21	433.38
	4/7/2021	473.38	21.91	451.47	10.23	437.4
	5/10/2021	473.38	22.50	450.88	10.71	437.88
	6/2/2021	473.38	22.60	450.78	10.7	437.87
	6/28/2021	473.38	22.95	450.43	12.11	439.28
	7/19/2021	473.38	22.99	450.39	15.06	442.23
	8/23/2021	473.38	23.48	449.90	3.49	430.66
	9/30/2021	473.38	23.87	449.51	2.49	429.66
	10/27/2021	473.38	23.90	449.48	13.08	440.25
	11/29/2021	473.38	23.33	450.05	5.17	432.34
	12/30/2021	473.38	22.95	450.43	6.68	433.85
	1/6/2022	473.38	22.77	450.61	6.45	433.62
	2/7/2022	473.38	22.03	451.35	4.4	431.57
	3/1/2022	473.38	21.74	451.64	16.04	443.21
	4/22/2022	473.38	22.03	451.35	N/A	N/A
	5/24/2022	473.38	22.36	451.02	11.42	438.59
	6/6/2022	473.38	22.65	450.73	8.21	435.38
	7/25/2022	473.38	23.29	450.09	5.36	432.53
	8/29/2022	473.38	23.84	449.54	2.55	429.72
	9/28/2022	473.38	24.13	449.25	2.37	429.54
	10/26/2022	473.38	24.28	449.10	4.36	431.53
	11/14/2022	473.38	24.15	449.23	3.2	430.37
	12/28/2022	473.38	22.41	450.97	N/A	N/A
1/24/2023	473.38	21.68	451.70	7.29	434.46	
2/20/2023	473.38	21.36	452.02	7.6	434.77	
3/28/2023	473.38	21.07	452.31	14.9	442.07	
4/25/2023	473.38	21.53	451.85	9.4	436.57	
5/15/2023	473.38	21.88	451.50	8.78	435.95	
6/26/2023	473.38	22.87	450.51	2.42	429.59	
7/25/2023	473.38	22.99	450.39	3.67	430.84	
8/28/2023	473.38	23.12	450.26	3.26	430.43	
9/28/2023	473.38	23.50	449.88	3.35	430.52	
10/27/2023	473.38	23.88	449.50	3.98	431.15	
11/6/2023	473.38	23.88	449.50	3.65	430.82	
12/21/2023	473.38	22.72	450.66	6.12	433.29	

Table 1. Groundwater Elevations for ABB/ASB Wells - Midwest Generation, LLC, Powerton Station, Pekin, IL

Well ID	Date	Top of Casing Elevation (ft above MSL)	Depth to Groundwater (ft below TOC)	Groundwater Elevation (ft above MSL)	Illinois River Gage Reading* (ft above datum)	Illinois River Gage Reading* (ft above MSL)
MW-15 down-gradient	11/16/2015	471.37	25.33	446.04	4.38	431.55
	2/22/2016	471.37	22.91	448.46	7.97	435.14
	5/16/2016	471.37	24.71	446.66	14.53	441.7
	8/15/2016	471.37	23.45	447.92	7.11	434.28
	11/14/2016	471.37	23.94	447.43	6.35	433.52
	2/13/2017	471.37	23.73	447.64	N/A	N/A
	5/1/2017	471.37	23.27	448.10	17.09	444.26
	6/20/2017	471.37	22.86	448.51	11.93	439.1
	8/29/2017	471.37	23.13	448.24	3.86	431.03
	11/10/2017	471.37	25.13	446.24	6.89	434.06
	5/17/2018	471.37	23.85	447.52	9.93	437.1
	8/9/2018	471.37	23.96	447.41	2.13	429.3
	10/31/2018	471.37	24.55	446.82	4.21	431.38
	4/29/2019	471.37	23.57	447.80	14.04	441.21
	11/11/2019	471.37	23.79	447.58	15.92	443.09
	4/27/2020	471.37	23.95	447.42	12.64	439.81
	12/7/2020	471.37	25.01	446.36	2.97	430.14
	2/22/2021	471.37	27.74	443.63	6.21	433.38
	4/7/2021	471.37	24.44	446.93	10.23	437.4
	5/10/2021	471.37	24.62	446.75	10.71	437.88
	6/2/2021	471.37	24.12	447.25	10.7	437.87
	6/28/2021	471.37	24.19	447.18	12.11	439.28
	7/19/2021	471.37	24.01	447.36	15.06	442.23
	8/23/2021	471.37	24.38	446.99	3.49	430.66
	9/30/2021	471.37	24.91	446.46	2.49	429.66
	10/25/2021	471.37	24.92	446.45	13.08	440.25
	11/29/2021	471.37	24.60	446.77	5.17	432.34
	12/30/2021	471.37	24.90	446.47	6.68	433.85
	1/6/2022	471.37	25.04	446.33	6.45	433.62
	2/7/2022	471.37	25.09	446.28	4.4	431.57
	3/1/2022	471.37	25.11	446.26	16.04	443.21
	4/22/2022	471.37	24.18	447.19	N/A	N/A
	5/24/2022	471.37	24.27	447.10	11.42	438.59
	6/6/2022	471.37	24.29	447.08	8.21	435.38
	7/25/2022	471.37	25.05	446.32	5.36	432.53
	8/29/2022	471.37	25.45	445.92	2.55	429.72
	9/28/2022	471.37	25.54	445.83	2.37	429.54
	10/26/2022	471.37	26.00	445.37	4.36	431.53
	11/14/2022	471.37	26.14	445.23	3.2	430.37
	12/28/2022	471.37	27.84	443.53	N/A	N/A
1/24/2023	471.37	25.26	446.11	7.29	434.46	
2/20/2023	471.37	25.24	446.13	7.6	434.77	
3/28/2023	471.37	24.81	446.56	14.9	442.07	
4/25/2023	471.37	24.56	446.81	9.4	436.57	
5/15/2023	471.37	24.64	446.73	8.78	435.95	
6/26/2023	471.37	25.18	446.19	2.42	429.59	
7/25/2023	471.37	25.53	445.84	3.67	430.84	
8/28/2023	471.37	25.60	445.77	3.26	430.43	
9/28/2023	471.37	25.78	445.59	3.35	430.52	
10/27/2023	471.37	26.00	445.37	3.98	431.15	
11/6/2023	471.37	26.04	445.33	3.65	430.82	
12/21/2023	471.37	25.86	445.51	6.12	433.29	

Table 1. Groundwater Elevations for ABB/ASB Wells - Midwest Generation, LLC, Powerton Station, Pekin, IL

Well ID	Date	Top of Casing Elevation (ft above MSL)	Depth to Groundwater (ft below TOC)	Groundwater Elevation (ft above MSL)	Illinois River Gage Reading* (ft above datum)	Illinois River Gage Reading* (ft above MSL)
MW-17 down-gradient	11/16/2015	467.75	26.92	440.83	4.38	431.55
	2/22/2016	467.75	19.86	447.89	7.97	435.14
	5/16/2016	467.75	20.42	447.33	14.53	441.7
	8/15/2016	467.75	21.61	446.14	7.11	434.28
	11/14/2016	467.75	21.39	446.36	6.35	433.52
	2/13/2017	467.75	19.66	448.09	N/A	N/A
	5/1/2017	467.75	18.78	448.97	17.09	444.26
	6/20/2017	467.75	19.42	448.33	11.93	439.1
	8/29/2017	467.75	22.68	445.07	3.86	431.03
	11/6/2017	467.75	24.66	443.09	6.89	434.06
	5/14/2018	467.75	19.79	447.96	9.93	437.1
	8/6/2018	467.75	21.03	446.72	2.13	429.3
	10/29/2018	467.75	21.98	445.77	4.21	431.38
	4/29/2019	467.75	18.75	449.00	14.04	441.21
	11/11/2019	467.75	19.60	448.15	15.92	443.09
	4/27/2020	467.75	19.15	448.60	12.64	439.81
	12/7/2020	467.75	24.12	443.63	2.97	430.14
	2/22/2021	467.75	20.22	447.53	6.21	433.38
	4/7/2021	467.75	19.69	448.06	10.23	437.4
	5/10/2021	467.75	20.00	447.75	10.71	437.88
	6/2/2021	467.75	19.65	448.10	10.7	437.87
	6/28/2021	467.75	19.98	447.77	12.11	439.28
	7/19/2021	467.75	19.57	448.18	15.06	442.23
	8/23/2021	467.75	20.15	447.60	3.49	430.66
	9/30/2021	467.75	23.25	444.50	2.49	429.66
	10/28/2021	467.75	23.35	444.40	13.08	440.25
	11/29/2021	467.75	20.64	447.11	5.17	432.34
	12/30/2021	467.75	22.61	445.14	6.68	433.85
	1/6/2022	467.75	23.19	444.56	6.45	433.62
	2/7/2022	467.75	22.03	445.72	4.4	431.57
	3/1/2022	467.75	19.97	447.78	16.04	443.21
	4/22/2022	467.75	19.36	448.39	N/A	N/A
	5/24/2022	467.75	19.38	448.37	11.42	438.59
	6/6/2022	467.75	19.45	448.30	8.21	435.38
	7/25/2022	467.75	20.39	447.36	5.36	432.53
	8/29/2022	467.75	23.75	444.00	2.55	429.72
	9/28/2022	467.75	25.38	442.37	2.37	429.54
	10/26/2022	467.75	27.49	440.26	4.36	431.53
	11/14/2022	467.75	27.73	440.02	3.2	430.37
	12/28/2022	467.75	27.47	440.28	N/A	N/A
1/24/2023	467.75	23.08	444.67	7.29	434.46	
2/20/2023	467.75	20.29	447.46	7.6	434.77	
3/28/2023	467.75	19.43	448.32	14.9	442.07	
4/25/2023	467.75	19.31	448.44	9.4	436.57	
5/15/2023	467.75	19.60	448.15	8.78	435.95	
6/26/2023	467.75	20.42	447.33	2.42	429.59	
7/25/2023	467.75	21.26	446.49	3.67	430.84	
8/28/2023	467.75	21.13	446.62	3.26	430.43	
9/28/2023	467.75	23.65	444.10	3.35	430.52	
10/27/2023	467.75	24.26	443.49	3.98	431.15	
11/6/2023	467.75	24.42	443.33	3.65	430.82	
12/21/2023	467.75	24.85	442.90	6.12	433.29	

Table 1. Groundwater Elevations for ABB/ASB Wells - Midwest Generation, LLC, Powerton Station, Pekin, IL

Well ID	Date	Top of Casing Elevation (ft above MSL)	Depth to Groundwater (ft below TOC)	Groundwater Elevation (ft above MSL)	Illinois River Gage Reading* (ft above datum)	Illinois River Gage Reading* (ft above MSL)
MW-18 down-gradient	11/16/2015	469.28	28.42	440.86	4.38	431.55
	2/22/2016	469.28	27.96	441.32	7.97	435.14
	5/16/2016	469.28	25.57	443.71	14.53	441.7
	8/15/2016	469.28	27.86	441.42	7.11	434.28
	11/14/2016	469.28	27.39	441.89	6.35	433.52
	2/13/2017	469.28	25.06	444.22	N/A	N/A
	5/1/2017	469.28	22.49	446.79	17.09	444.26
	6/20/2017	469.28	24.97	444.31	11.93	439.1
	8/28/2017	469.28	27.30	441.98	3.86	431.03
	11/6/2017	469.28	26.33	442.95	6.89	434.06
	5/14/2018	469.28	24.65	444.63	9.93	437.1
	8/6/2018	469.28	25.67	443.61	2.13	429.3
	10/29/2018	469.28	25.79	443.49	4.21	431.38
	4/29/2019	469.28	23.00	446.28	14.04	441.21
	11/11/2019	469.28	23.94	445.34	15.92	443.09
	4/27/2020	469.28	23.97	445.31	12.64	439.81
	12/7/2020	469.28	27.82	441.46	2.97	430.14
	2/22/2021	469.28	26.69	442.59	6.21	433.38
	4/7/2021	469.28	24.94	444.34	10.23	437.4
	5/10/2021	469.28	25.96	443.32	10.71	437.88
	6/2/2021	469.28	24.70	444.58	10.7	437.87
	6/28/2021	469.28	25.60	443.68	12.11	439.28
	7/19/2021	469.28	23.50	445.78	15.06	442.23
	8/23/2021	469.28	27.35	441.93	3.49	430.66
	9/30/2021	469.28	29.70	439.58	2.49	429.66
	10/25/2021	469.28	27.35	441.93	13.08	440.25
	11/29/2021	469.28	26.81	442.47	5.17	432.34
	12/30/2021	469.28	27.14	442.14	6.68	433.85
	1/6/2022	469.28	26.57	442.71	6.45	433.62
	2/7/2022	469.28	27.83	441.45	4.4	431.57
	3/1/2022	469.28	24.45	444.83	16.04	443.21
	4/22/2022	469.28	23.77	445.51	N/A	N/A
	5/24/2022	469.28	25.04	444.24	11.42	438.59
	6/6/2022	469.28	25.71	443.57	8.21	435.38
	7/25/2022	469.28	28.62	440.66	5.36	432.53
	8/29/2022	469.28	28.66	440.62	2.55	429.72
	9/28/2022	469.28	32.19	437.09	2.37	429.54
	10/26/2022	469.28	33.26	436.02	4.36	431.53
	11/14/2022	469.28	32.95	436.33	3.2	430.37
	12/28/2022	469.28	28.44	440.84	N/A	N/A
1/24/2023	469.28	28.65	440.63	7.29	434.46	
2/20/2023	469.28	28.44	440.84	7.6	434.77	
3/28/2023	469.28	26.78	442.50	14.9	442.07	
4/25/2023	469.28	25.35	443.93	9.4	436.57	
5/15/2023	469.28	26.46	442.82	8.78	435.95	
6/26/2023	469.28	30.11	439.17	2.42	429.59	
7/25/2023	469.28	28.93	440.35	3.67	430.84	
8/28/2023	469.28	29.87	439.41	3.26	430.43	
9/28/2023	469.28	30.02	439.26	3.35	430.52	
10/27/2023	469.28	29.29	439.99	3.98	431.15	
11/6/2023	469.28	29.54	439.74	3.65	430.82	
12/21/2023	469.28	28.68	440.60	6.12	433.29	

Table 1. Groundwater Elevations for ABB/ASB Wells - Midwest Generation, LLC, Powerton Station, Pekin, IL

Well ID	Date	Top of Casing Elevation (ft above MSL)	Depth to Groundwater (ft below TOC)	Groundwater Elevation (ft above MSL)	Illinois River Gage Reading* (ft above datum)	Illinois River Gage Reading* (ft above MSL)
MW-19 up-gradient	11/14/2016	465.07	22.65	442.42	6.35	433.52
	2/13/2017	465.07	21.27	443.80	N/A	N/A
	5/1/2017	465.07	18.39	446.68	17.09	444.26
	6/20/2017	465.07	20.44	444.63	11.93	439.1
	8/28/2017	465.07	23.60	441.47	3.86	431.03
	11/9/2017	465.07	23.80	441.27	6.89	434.06
	5/14/2018	465.07	22.08	442.99	9.93	437.1
	8/6/2018	465.07	24.14	440.93	2.13	429.3
	10/29/2018	465.07	24.31	440.76	4.21	431.38
	4/29/2019	465.07	19.12	445.95	14.04	441.21
	11/11/2019	465.07	18.80	446.27	15.92	443.09
	4/27/2020	465.07	19.94	445.13	12.64	439.81
	12/7/2020	465.07	24.63	440.44	2.97	430.14
	2/22/2021	465.07	24.23	440.84	6.21	433.38
	4/7/2021	465.07	21.60	443.47	10.23	437.4
	5/10/2021	465.07	22.75	442.32	10.71	437.88
	6/2/2021	465.07	21.24	443.83	10.7	437.87
	6/28/2021	465.07	22.41	442.66	12.11	439.28
	7/19/2021	465.07	19.75	445.32	15.06	442.23
	8/23/2021	465.07	23.31	441.76	3.49	430.66
	9/30/2021	465.07	24.85	440.22	2.49	429.66
	10/27/2021	465.07	23.36	441.71	13.08	440.25
	11/29/2021	465.07	22.75	442.32	5.17	432.34
	12/30/2021	465.07	23.65	441.42	6.68	433.85
	1/6/2022	465.07	24.04	441.03	6.45	433.62
	2/7/2022	465.07	24.46	440.61	4.4	431.57
	3/1/2022	465.07	21.05	444.02	16.04	443.21
	4/22/2022	465.07	19.34	445.73	N/A	N/A
	5/24/2022	465.07	20.34	444.73	11.42	438.59
	6/6/2022	465.07	21.05	444.02	8.21	435.38
	7/25/2022	465.07	23.98	441.09	5.36	432.53
	8/29/2022	465.07	25.08	439.99	2.55	429.72
	9/28/2022	465.07	25.97	439.10	2.37	429.54
	10/26/2022	465.07	26.81	438.26	4.36	431.53
	11/14/2022	465.07	26.79	438.28	3.2	430.37
	12/28/2022	465.07	25.95	439.12	N/A	N/A
1/24/2023	465.07	25.93	439.14	7.29	434.46	
2/20/2023	465.07	25.29	439.78	7.6	434.77	
3/28/2023	465.07	21.40	443.67	14.9	442.07	
4/25/2023	465.07	21.52	443.55	9.4	436.57	
5/15/2023	465.07	22.94	442.13	8.78	435.95	
6/26/2023	465.07	25.76	439.31	2.42	429.59	
7/25/2023	465.07	25.69	439.38	3.67	430.84	
8/28/2023	465.07	26.24	438.83	3.26	430.43	
9/28/2023	465.07	26.86	438.21	3.35	430.52	
10/27/2023	465.07	26.97	438.10	3.98	431.15	
11/6/2023	465.07	27.07	438.00	3.65	430.82	
12/21/2023	465.07	27.13	437.94	6.12	433.29	

Notes: Elevations are in feet above mean sea level and Depths are in feet below top of casing.

* - Data obtained from USGS Kingston Mine Gage

MSL - Mean Sea Level

TOC - Top of Casing

BOLD- River elevation above groundwater elevation

Table 2. Groundwater Flow Direction and Estimated Seepage Velocity/Flow Rate - Powerton Generation Station ABB/ASB

DATE	Screened Unit	Groundwater Flow Direction	Kavg (ft/sec)*	Average Hydraulic Gradient (ft/ft)	Porosity (unitless)**	Estimated Seepage Velocity (ft/day)
6/6/2022	Silt/clay	Westerly	3.280E-07	0.0291	0.4	0.0021
6/6/2022	Sandy	Northeasterly - Northwesterly	1.390E-03	0.0026	0.35	0.89
8/29/2022	Silt/clay	Westerly	3.280E-07	0.0311	0.4	0.0022
8/29/2022	Sandy	Northeasterly - Northwesterly	1.390E-03	0.0043	0.35	1.48
11/14/2022	Silt/clay	Westerly	3.280E-07	0.0321	0.4	0.0023
11/14/2022	Sandy	Northeasterly - Northwesterly	1.390E-03	0.0041	0.35	1.41
2/20/2023	Silt/clay	Westerly	3.280E-07	0.0296	0.4	0.0021
2/20/2023	Sandy	Northeasterly - Northwesterly	1.390E-03	0.0031	0.35	1.06
5/15/2023	Silt/clay	Westerly	3.280E-07	0.0235	0.4	0.0017
5/15/2023	Sandy	Northeasterly - Northwesterly	1.390E-03	0.0028	0.35	0.96
8/28/2023	Silt/clay	Westerly	3.280E-07	0.0311	0.4	0.0022
8/28/2023	Sandy	Northeasterly - Northwesterly	1.390E-03	0.0043	0.35	1.48
11/6/2023	Silt/clay	Westerly	3.280E-07	0.0252	0.4	0.0018
11/6/2023	Sandy	Northeasterly - Northwesterly	1.390E-03	0.0040	0.35	1.37

* Kavg - K values from re-evaluation of slug test data as part of groundwater modeling in support of Application for Construction Permit per Illinois State CCR Rule. Average hydraulic conductivity for silt/clay unit (feet/second) from Groundwater, Freeze and Cherry, 1979.
 ** - Porosity estimates from Applied Hydrogeology, Fetter, 1980.

Table 3. CCR Groundwater Sample Collection Summary for 2023 - Powerton Generating Station Ash Bypass Basin & Ash Surge Basin

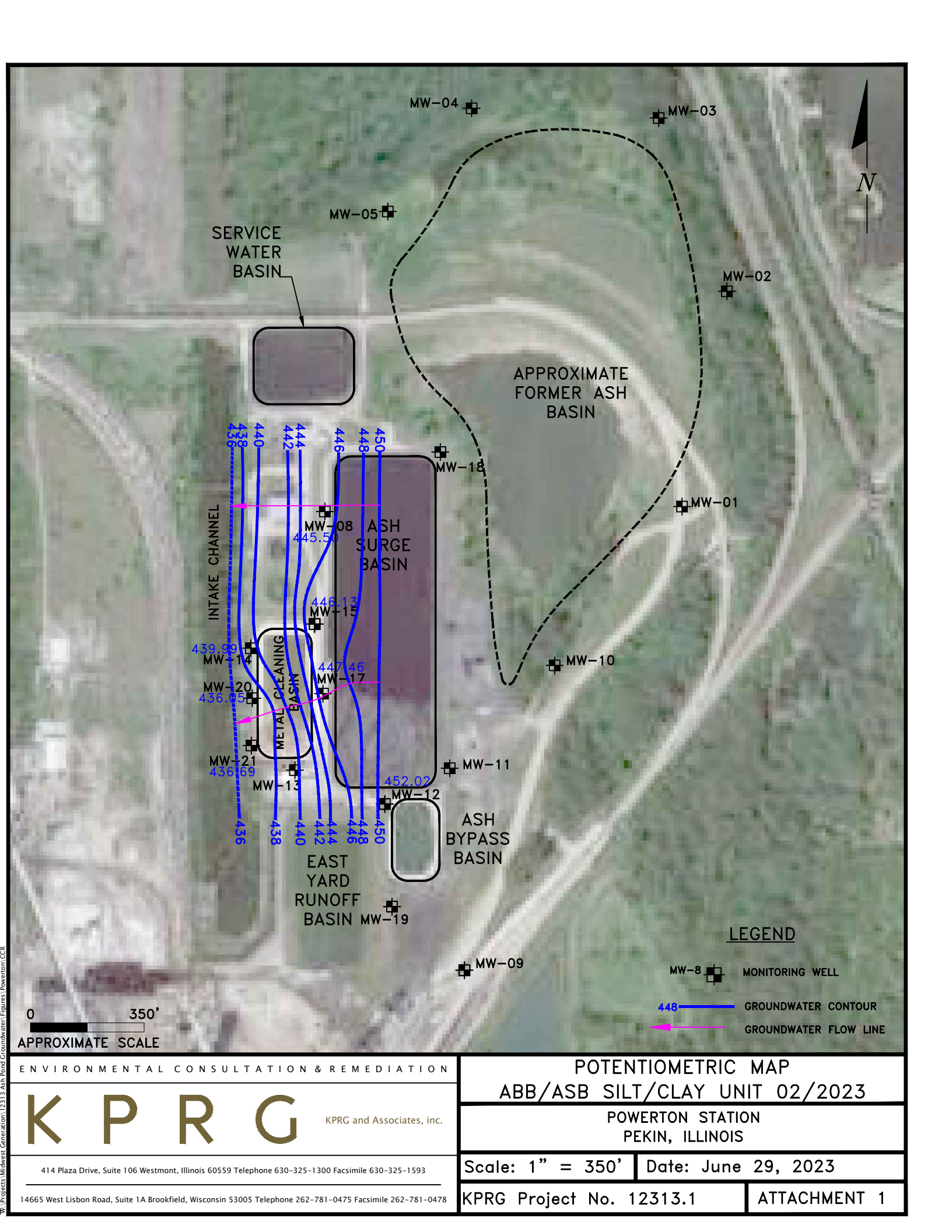
Well ID	Number of Groundwater Sampling Events	Dates of Groundwater Sampling Events	Detection Monitoring (D) versus Assessment Monitoring (A)
MW-01 (Upgradient)	4	2/22/2023	A
		5/17/2023	A
		8/29/2023	A
		11/7/2023	A
MW-09 (Upgradient)	4	2/23/2023	A
		5/16/2023	A
		8/30/2023	A
		11/8/2023	A
MW-19 (Upgradient)	4	2/21/2023	A
		5/18/2023	A
		8/29/2023	A
		11/8/2023	A
MW-08 (Downgradient)	4	2/22/2023	A
		5/17/2023	A
		8/29/2023	A
		11/7/2023	A
MW-11 (Downgradient)	4	2/23/2023	A
		5/16/2023	A
		8/30/2023	A
		11/8/2023	A
MW-12 (Downgradient)	4	2/23/2023	A
		5/16/2023	A
		8/30/2023	A
		11/8/2023	A
MW-15 (Downgradient)	4	2/23/2023	A
		5/17/2023	A
		8/30/2023	A
		11/6/2023	A
MW-17 (Downgradient)	4	2/23/2023	A
		5/18/2023	A
		8/30/2023	A
		11/6/2023	A
MW-18 (Downgradient)	4	2/21/2023	A
		5/18/2023	A
		8/29/2023	A
		11/8/2023	A

Table 4. Appendix III Groundwater Analytical Results - Midwest Generation, LLC, Powerton Station, Pekin, IL, Ash By-Pass Basin Ash Surge Basin.

Well	Date	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved Solids	
MW-01 (S) sp-gradient	11/16/2015	1.0	98	44	0.17	7.07	93	530	
	2/25/2016	0.2	110	42	0.16	7.23	54	460	
	5/20/2016	0.34	100	44	0.17	6.95	65	430	
	8/17/2016	0.27	78	39	0.25	7.16	50	430	
	11/16/2016	0.18	97	39	0.21	7.22	32	500	
	2/14/2017	0.18	120	55	0.17	7.30	60	550	
	2/3/2017	0.19	86	66	0.16	7.41	45	440	
	6/21/2017	0.18	85	48	0.18	7.60	47	540	
	Pred. Limit*	1.0	142	81	0.25	7.90-6.58		115	648
	8/25/2017	0.56	86	41	0.18	7.41	63	490	
	1/8/2018	0.57	130	38	0.12	6.69	61	640	
	5/7/2018	0.15	88	50	0.12	6.7	48	540	
	8/20/2018	0.14	86	48	0.13	6.8	43	430	
	4/30/2019	0.07	78	54	0.17	7.2	27	450	
	11/15/2019	0.52	95	47	0.18	7.51	41	390	
	4/28/2020	0.33	110	46	0.19	7.17	41	470	
	12/7/2020	0.6	100	54	0.25	7.22	55	490	
	5/1/2021	0.23	84	53	0.2	7.52	38	450	
	8/24/2021	0.26	98	40	0.18	7.19	56	450	
	11/30/2021	0.33	97	42	0.2	7.14	28	410	
	2/9/2022	0.18	95	47	0.17	7.33	47	520	
	6/7/2022	0.21	82	51	0.15	7.62	27	440	
	8/30/2022	0.59	100	44	0.13	7.1	66	700	
	11/15/2022	0.71	110	45	0.1	7.15	44	520	
	2/22/2023	0.47	110	53	<	7.51	47	550	
5/7/2023	0.32	91	55	0.12	7.23	31	450		
8/29/2023	0.53	100	50	<	6.98	43	520		
11/7/2023	0.48	110	45	<	6.95	63	550		
MW-09 (S) sp-gradient	11/18/2015	2.0	63	H	0.19	7.15	H	440	
	2/25/2016	2.3	77	36	0.19	7.34	110	500	
	5/19/2016	2.0	73	38	0.17	7.30	100	520	
	8/17/2016	2.7	74	39	0.15	7.32	120	750	
	11/17/2016	4.5	85	38	0.13	7.37	110	630	
	2/15/2017	4.1	84	38	0.13	6.94	160	620	
	4/3/2017	4.5	85	38	0.17	7.48	170	680	
	6/21/2017	3.3	82	38	0.14	7.63	180	760	
	Pred. Limit*	3.9	103	39	0.24	7.99-6.64		236	1000
	8/25/2017	4.1	85	36	0.14	7.30	150	630	
	11/20/2017	4.7	89	37	0.13	6.92	190	650	
	5/16/2018	4.1	89	36	0.15	7.83	180	550	
	8/8/2018	4.3	86	39	0.14	7.31	180	690	
	1/19/2019	4.6	79	37	0.17	7.11	170	640	
	11/4/2019	2.5	85	36	0.18	7.49	160	520	
	4/29/2020	2	71	34	0.2	7.19	140	510	
	12/8/2020	2.6	65	34	0.22	7.29	63	400	
	3/13/2021	2.6	74	33	0.2	7.33	120	410	
	8/25/2021	2.2	80	32	0.17	7.11	100	420	
	12/1/2021	3.2	79	32	0.2	7.22	100	570	
	2/10/2022	3.5	79	33	0.23	7.12	120	510	
	4/30/2022	3.2	70	31	0.21	7.52	150	510	
	8/31/2022	3.2	79	30	0.18	7.18	140	530	
	11/15/2022	3.7	77	32	0.25	7.39	130	490	
	2/23/2023	4.6	71	31	0.18	7.92	150	520	
5/16/2023	3.5	70	30	0.16	7.46	120	510		
8/30/2023	3.8	73	30	0.15	7.25	120	500		
11/8/2023	3.2	87	25	0.14	7.15	130	570		
11/18/2016	3.8	89	38	0.13	7.34	120	670		
2/15/2017	4.7	88	37	0.13	7.50	160	630		
5/5/2017	3.3	88	38	0.14	7.51	160	640		
6/21/2017	2.3	110	35	0.12	7.30	170	690		
8/28/2017	3.5	97	36	0.16	7.20	160	700		
11/6/2017	4.5	86	35	0.17	7.26	190	640		
5/14/2018	4.1	96	35	0.16	7.92	180	820		
8/6/2018	3.8	100	37	0.13	7.57	170	720		
Pred. Limit*	6.2	121	41	0.20	8.20-6.70		236	890	
5/22/2019	3.7	100	39	0.13	6.86	160	520		
11/15/2019	2.5	130	24	0.15	7.51	140	740		
4/27/2020	2.3	100	43	0.17	6.87	110	570		
12/7/2020	3.3	74	34	0.19	7.30	76	420		
5/10/2021	2.3	68	33	0.17	7.36	110	420		
8/26/2021	2.1	85	32	0.11	7.12	130	320		
12/1/2021	3.5	89	31	0.17	7.25	120	620		
2/27/2022	3.9	77	34	0.17	7.18	140	600		
6/6/2022	2.7	92	33	0.12	7.08	130	560		
8/30/2022	0.7	140	200	0.32	7.29	45	1100		
11/16/2022	4.3	80	34	0.22	7.27	160	580		
2/21/2023	3.9	70	33	0.14	7.79	170	680		
5/18/2023	3.8	78	31	0.13	7.26	150	580		
8/29/2023	3	80	32	0.18	7.16	120	610		
11/8/2023	3.7	80	32	0.16	7.34	180	610		
11/18/2015	1.5	160	H	170	H	0.44	7.61	H	1300
2/25/2016	1.7	160	200	0.30	7.00	280	1100		
5/18/2016	1.7	160	140	0.34	7.67	300	1200		
8/17/2016	1.0	150	230	0.35	7.33	360	1400		
11/15/2016	1.2	140	290	0.33	6.90	290	1300		
2/16/2017	1.5	150	460	0.28	7.00	230	1500		
5/2/2017	0.55	140	300	0.33	7.30	320	1300		
6/21/2017	1.2	160	490	0.30	7.27	350	1700		
Pred. Limit*	1.0	136	77	0.24**	7.73-6.83**		107	588**	
8/29/2017	1.2	150	360	0.47	7.29	300	1500		
11/8/2017	0.68	130	260	0.45	7.27	270	1200		
5/7/2018	1.2	130	200	0.37	6.79	170	1000		
8/28/2018	1.1	140	270	0.32	6.93	190	1200		
1/19/2019	0.54	95	73	0.35	7.60	85	600		
11/15/2019	0.98	110	92	0.33	7.66	110	640		
4/28/2020	0.74	110	120	0.38	7.58	58	660		
12/14/2020	0.73	120	150	0.38	7.40	92	530		
5/1/2021	0.54	97	120	0.39	7.64	110	680		
8/25/2021	0.6	100	110	0.35	7.28	100	550		
12/1/2021	0.64	110	97	0.36	7.50	66	690		
2/10/2022	0.81	110	120	0.37	7.54	55	670		
6/8/2022	0.73	130	180	0.3	7.71	53	790		
8/30/2022	0.7	140	210	0.32	7.37	50	1200		
11/15/2022	0.68	130	200	0.45	7.67	41	780		
2/22/2023	0.66	130	140	0.32	8.11	61	800		
5/7/2023	0.61	120	110	0.34	7.68	62	720		
8/29/2023	0.67	110	140	0.34	7.64	49	700		
11/7/2023	0.72	120	120	0.32	7.67	86	790		
12/22/2023 R	NS	NS	NS	NS	NS	NS	NS	710	

Notes: All units are in mg/l except pH is in standard units.
 Pred. Limit - Prediction Limit
 (S) - Slightly Limit
 (CL) - Slightly Clay Limit
 * - Interwell Prediction Limit. All others are interwell comparisons.
 ** - Based on pooled background from MW-01/MW-09. All others based on MW-01 as background.
 † - Recently installed upgradient well. Insignificant rounds of sampling for statistical evaluation at this time.
 Index Data - First round of Detection Monitoring and re-sample after statistical background establishment.
 Bold - Potential statistically significant increase.
 FI - MR and/or MSD Recovery outside of limits.
 H - Sample was prepared or analyzed beyond the specified holding time.
 V - Serial dilution exceeds control limits.

ATTACHMENT 1
Groundwater Flow Contour Maps



SERVICE WATER BASIN

APPROXIMATE FORMER ASH BASIN

ASH SURGE BASIN

METAL CLEANING BASIN

ASH BYPASS BASIN

EAST YARD RUNOFF BASIN

INTAKE CHANNEL

LEGEND

MW-8 MONITORING WELL

448 GROUNDWATER CONTOUR

GROUNDWATER FLOW LINE

0 350'

APPROXIMATE SCALE

ENVIRONMENTAL CONSULTATION & REMEDIATION

K P R G

KPRG and Associates, inc.

414 Plaza Drive, Suite 106 Westmont, Illinois 60559 Telephone 630-325-1300 Facsimile 630-325-1593

14665 West Lisbon Road, Suite 1A Brookfield, Wisconsin 53005 Telephone 262-781-0475 Facsimile 262-781-0478

**POTENTIOMETRIC MAP
ABB/ASB SILT/CLAY UNIT 02/2023**

POWERTON STATION
PEKIN, ILLINOIS

Scale: 1" = 350'

Date: June 29, 2023

KPRG Project No. 12313.1

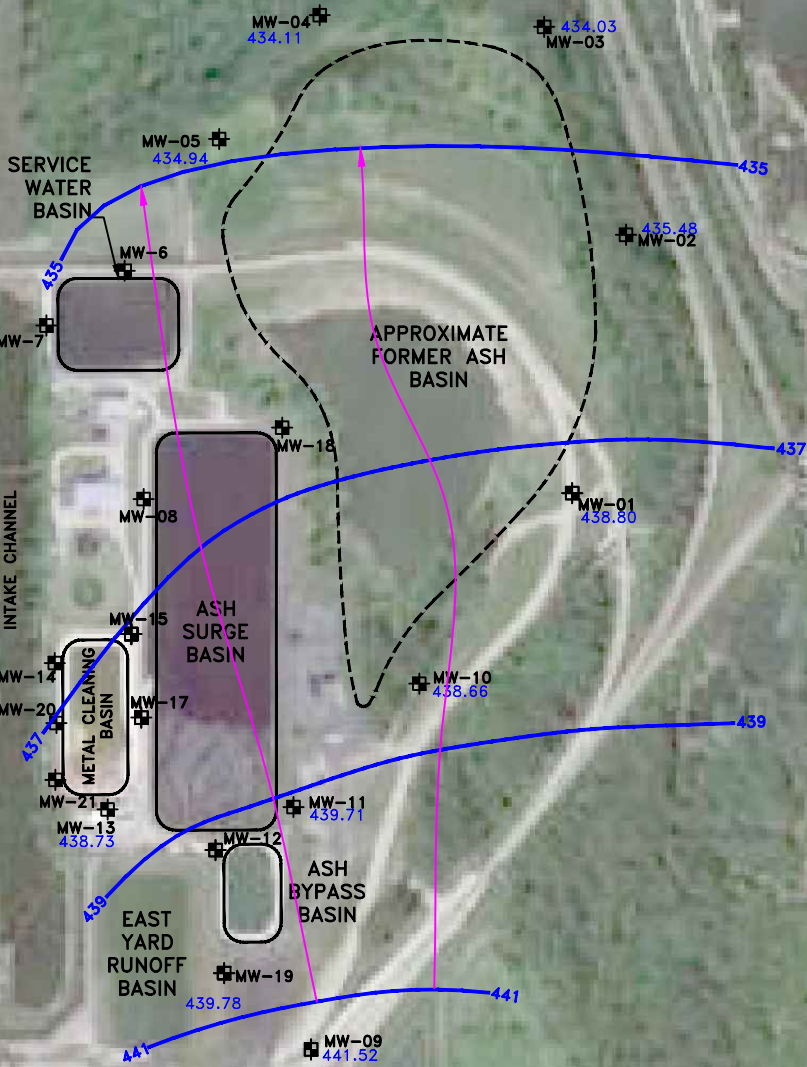
ATTACHMENT 1

W:\Projects\Midwest Generation\12313 Ash Pond Groundwater\Figures\Powerton CCR

ILLINOIS RIVER *434.77



COAL STORAGE PILE



LEGEND

MW-8 MONITORING WELL

448 GROUNDWATER CONTOUR

GROUNDWATER FLOW LINE

NOTE: * IL River elevation in an approximation from the Downstream USGS Kingston Mines gage.

MAIN BUILDING

0 500'
APPROXIMATE SCALE

ENVIRONMENTAL CONSULTATION & REMEDIATION

K P R G

KPRG and Associates, inc.

**POTENTIOMETRIC MAP
ABB/ASB GRAVELY SAND UNIT 02/2023**

POWERTON STATION
PEKIN, ILLINOIS

Scale: 1" = 500'

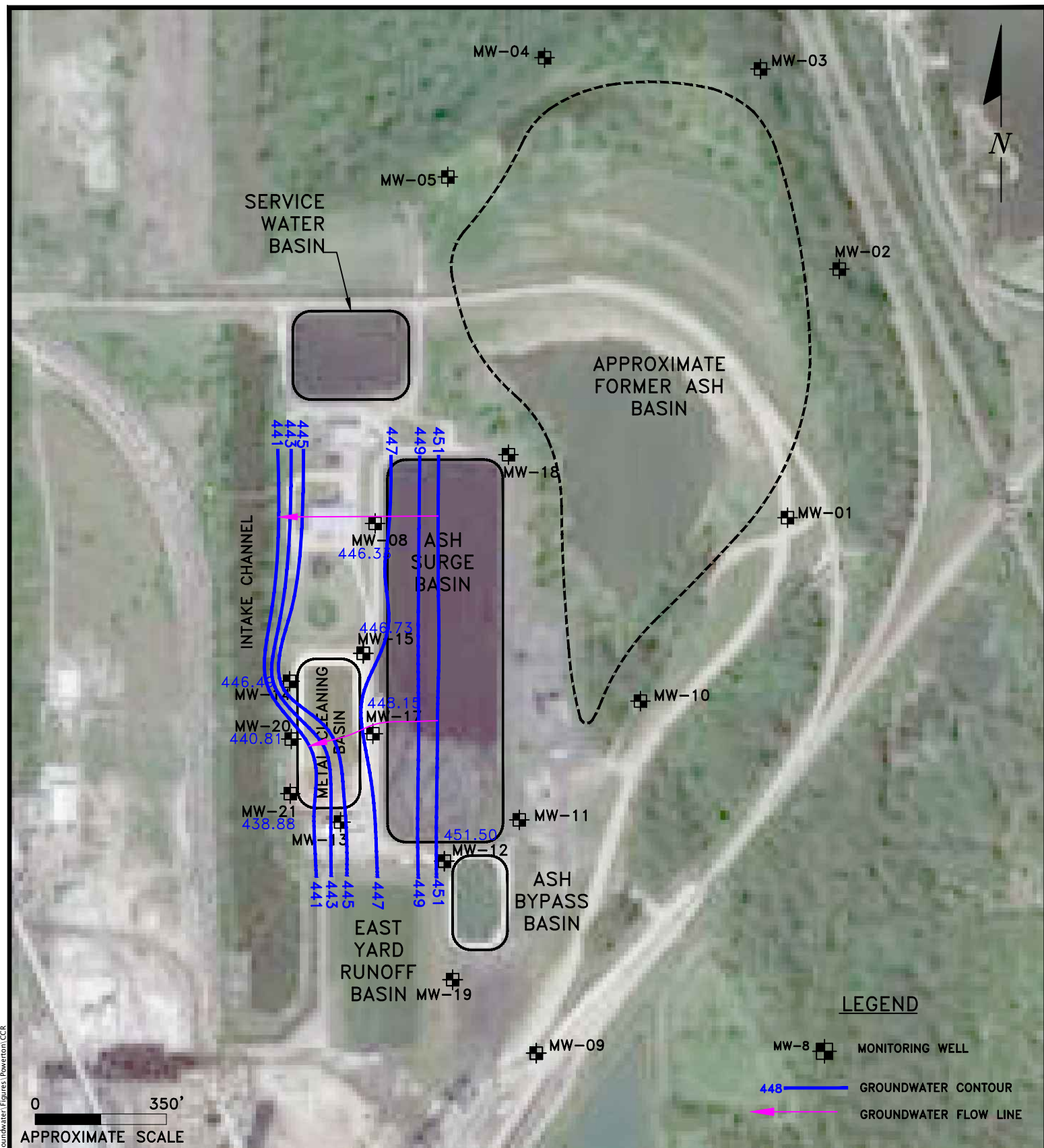
Date: June 29, 2023

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POTENTIOMETRIC MAP
 ABB/ASB SILT/CLAY UNIT 05/2023

POWERTON STATION
 PEKIN, ILLINOIS

Scale: 1" = 350'

Date: June 29, 2023

KPRG Project No. 12313.1

ATTACHMENT 1

W:\Projects\Midwest\Generation\12313\Ash Pond\Groundwater\Figures\Powertron\CCR

ILLINOIS RIVER

*435.95



COAL STORAGE PILE

SERVICE WATER BASIN

APPROXIMATE FORMER ASH BASIN

INTAKE CHANNEL

ASH SURGE BASIN

METAL CLEANING BASIN

ASH BYPASS BASIN

EAST YARD RUNOFF BASIN

MAIN BUILDING

LEGEND

MW-8 MONITORING WELL

448 GROUNDWATER CONTOUR

GROUNDWATER FLOW LINE

NOTE: * IL River elevation in an approximation from the Downstream USGS Kingston Mines gage.

0 500'
APPROXIMATE SCALE

ENVIRONMENTAL CONSULTATION & REMEDIATION

K P R G

KPRG and Associates, inc.

**POTENTIOMETRIC MAP
ABB/ASB GRAVELY SAND UNIT 05/2023**

POWERTON STATION
PEKIN, ILLINOIS

Scale: 1" = 500'

Date: June 29, 2023

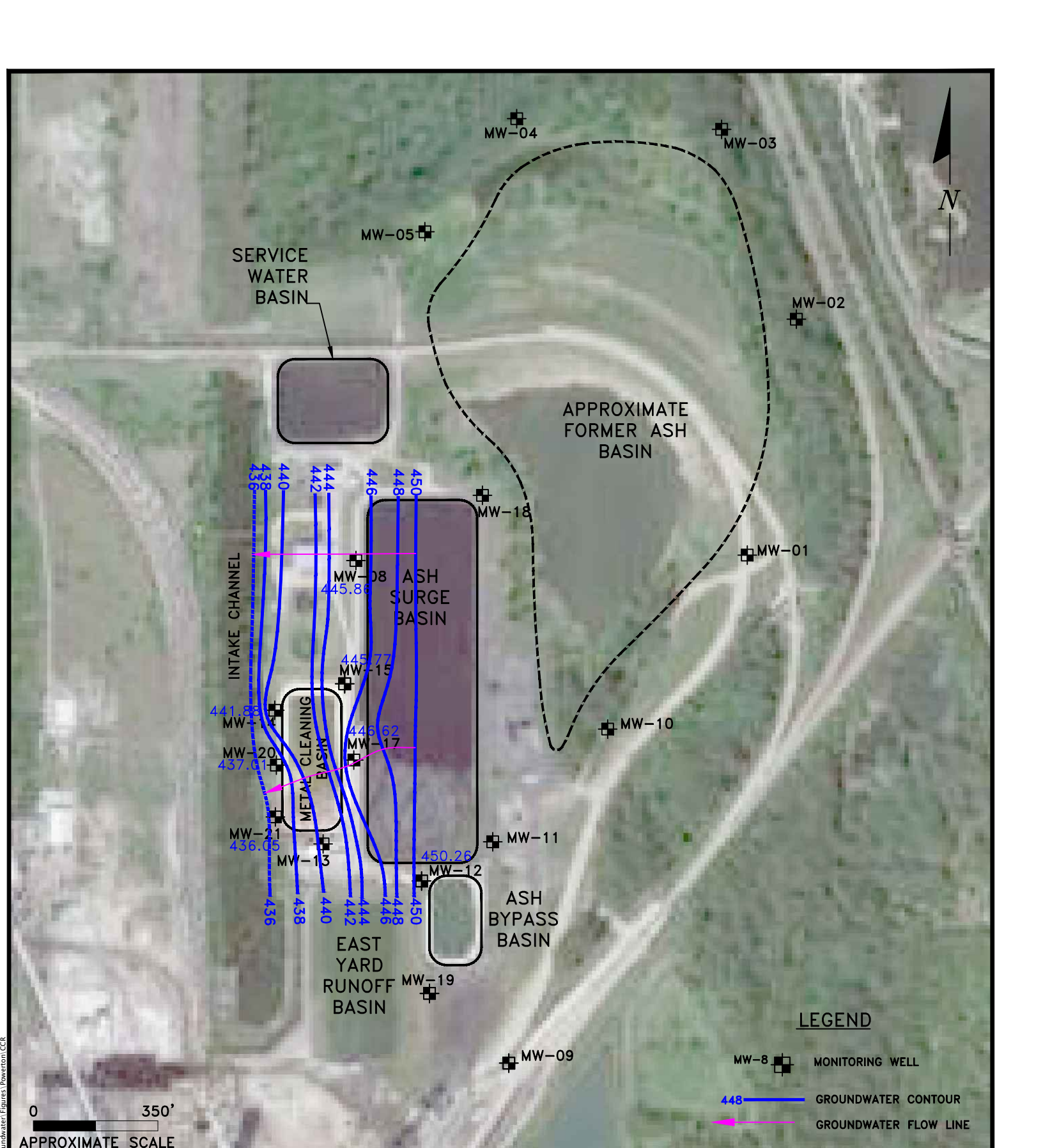
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14665 West Lisbon Road, Suite 1A Brookfield, Wisconsin 53005 Telephone 262-781-0475 Facsimile 262-781-0478

KPRG Project No. 12313.1

ATTACHMENT 1

W:\Projects\Midwest Generation\12313 Ash Pond Groundwater\Figures\Powertron CCR



LEGEND

- MW-8 MONITORING WELL
- 448 GROUNDWATER CONTOUR
- GROUNDWATER FLOW LINE

ENVIRONMENTAL CONSULTATION & REMEDIATION

K P R G KPRG and Associates, inc.

414 Plaza Drive, Suite 106 Westmont, Illinois 60559 Telephone 630-325-1300 Facsimile 630-325-1593

14665 West Lisbon Road, Suite 1A Brookfield, Wisconsin 53005 Telephone 262-781-0475 Facsimile 262-781-0478

POTENTIOMETRIC MAP
ABB/ASB SILT/CLAY UNIT 08/2023

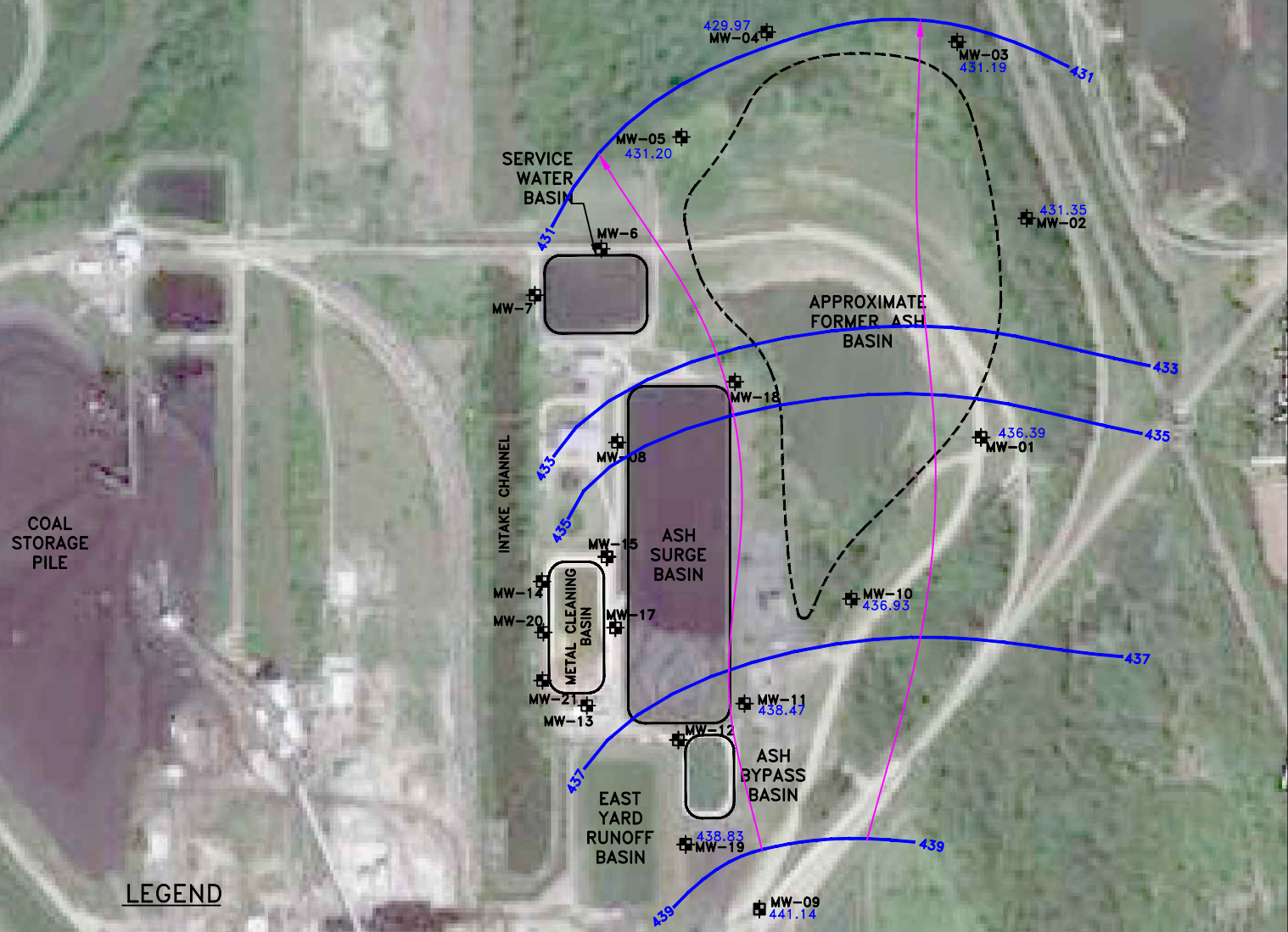
POWERTON STATION
PEKIN, ILLINOIS

Scale: 1" = 350' Date: September 12, 2023

KPRG Project No. 12313.1 ATTACHMENT 1

W:\Projects\Midwest\Generation\12313\ASH Pond Groundwater Figures\Poweron\CCR

ILLINOIS RIVER *430.43



LEGEND

MW-8 MONITORING WELL

448 GROUNDWATER CONTOUR

GROUNDWATER FLOW LINE

NOTE: * IL River elevation in an approximation from the Downstream USGS Kingston Mines gage.

MAIN BUILDING

0 500'
APPROXIMATE SCALE

ENVIRONMENTAL CONSULTATION & REMEDIATION

K P R G

KPRG and Associates, inc.

**POTENTIOMETRIC MAP
ABB/ASB GRAVELY SAND UNIT 08/2023**

**POWERTON STATION
PEKIN, ILLINOIS**

Scale: 1" = 500'

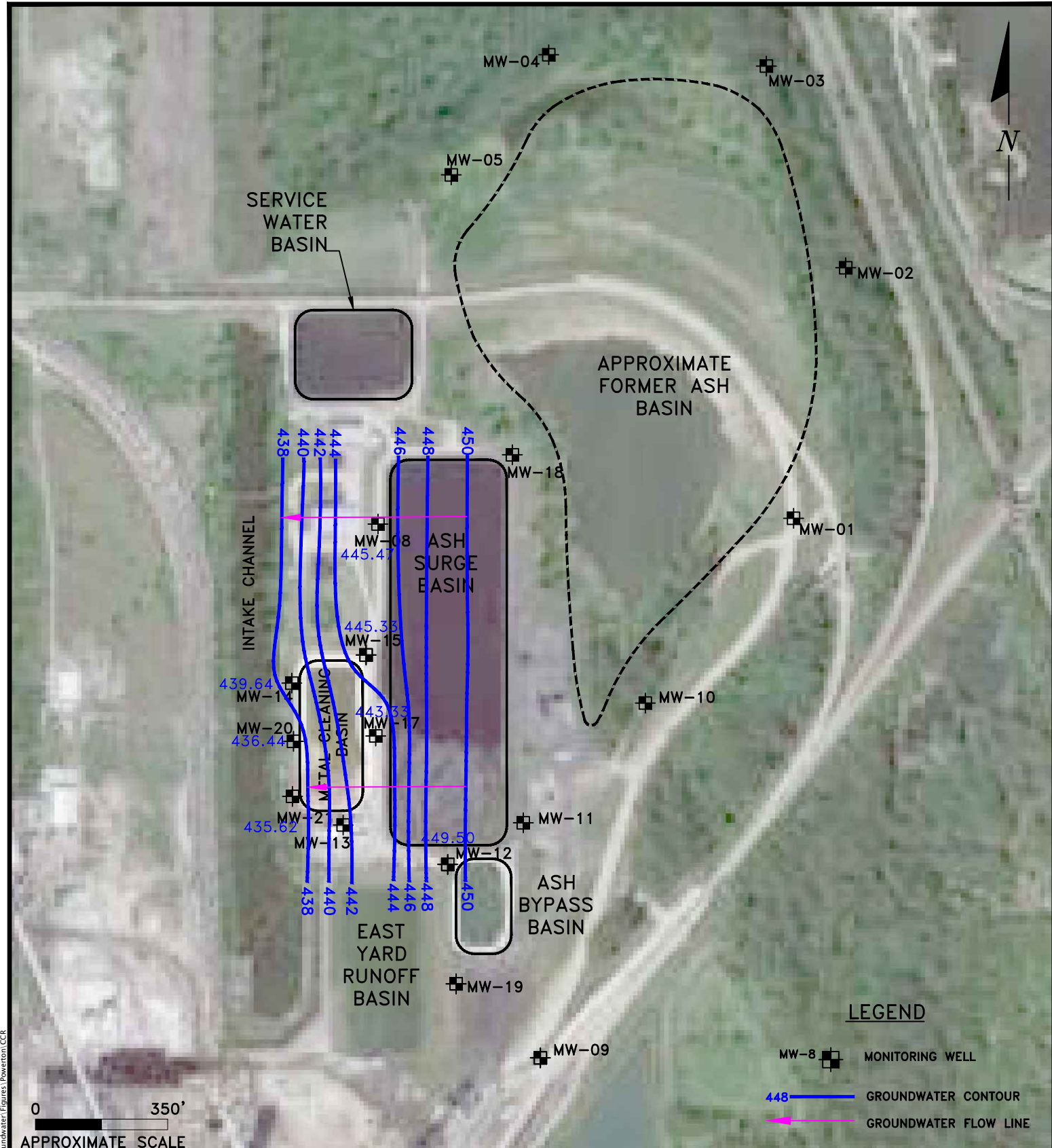
Date: September 12, 2023

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14665 West Lisbon Road, Suite 1A Brookfield, Wisconsin 53005 Telephone 262-781-0475 Facsimile 262-781-0478

KPRG Project No. 12313.1

ATTACHMENT 1



LEGEND

- MW-8 MONITORING WELL
- 448 GROUNDWATER CONTOUR
- GROUNDWATER FLOW LINE

ENVIRONMENTAL CONSULTATION & REMEDIATION



414 Plaza Drive, Suite 106 Westmont, Illinois 60559 Telephone 630-325-1300 Facsimile 630-325-1593
 14665 West Lisbon Road, Suite 1A Brookfield, Wisconsin 53005 Telephone 262-781-0475 Facsimile 262-781-0478

**POTENTIOMETRIC MAP
 ABB/ASB SILT/CLAY UNIT 11/2023**

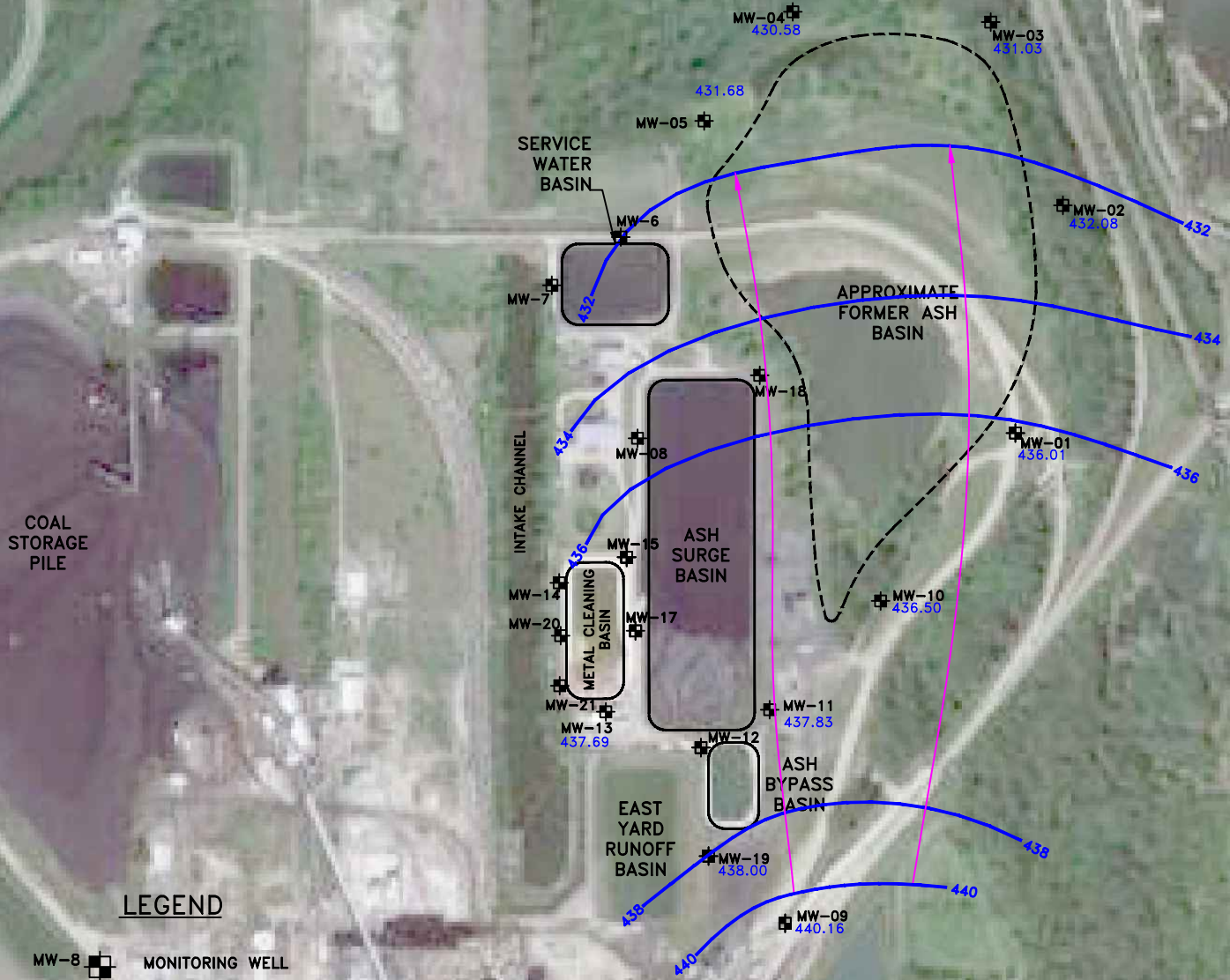
**POWERTON STATION
 PEKIN, ILLINOIS**

Scale: 1" = 350' Date: December 28, 2023

KPRG Project No. 12313.1 ATTACHMENT 1

W:\Projects\Midwest\Generation\12313_Ash Pond_Groundwater\Figures\Powerton_CCR

ILLINOIS RIVER *430.82



LEGEND

MW-8 MONITORING WELL

448 GROUNDWATER CONTOUR

GROUNDWATER FLOW LINE

NOTE: * IL River elevation in an approximation from the Downstream USGS Kingston Mines gage.

MAIN BUILDING

0 500'
APPROXIMATE SCALE

ENVIRONMENTAL CONSULTATION & REMEDIATION

K P R G

KPRG and Associates, inc.

**POTENTIOMETRIC MAP
ABB/ASB GRAVELY SAND UNIT 11/2023**

**POWERTON STATION
PEKIN, ILLINOIS**

Scale: 1" = 500'

Date: December 28, 2023

414 Plaza Drive, Suite 106 Westmont, Illinois 60559 Telephone 630-325-1300 Facsimile 630-325-1593

14665 West Lisbon Road, Suite 1A Brookfield, Wisconsin 53005 Telephone 262-781-0475 Facsimile 262-781-0478

KPRG Project No. 12313.1

ATTACHMENT 1

ATTACHMENT 2
Analytical Data Packages

 **ANALYTICAL REPORT****PREPARED FOR**

Attn: Richard Gnat
KPRG and Associates, Inc.
14665 West Lisbon Road,
Suite 1A
Brookfield, Wisconsin 53005

Generated 3/17/2023 11:22:03 AM

JOB DESCRIPTION

Powerton CCR - Quarterly

JOB NUMBER

500-229791-1

Eurofins Chicago

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

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

Authorization



Generated
3/17/2023 11:22:03 AM

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Table of Contents

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QC Association	18
QC Sample Results	22
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Case Narrative

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR - Quarterly

Job ID: 500-229791-1

Job ID: 500-229791-1

Laboratory: Eurofins Chicago

Narrative

**Job Narrative
500-229791-1**

Comments

No additional comments.

Receipt

The samples were received on 2/22/2023 9:55 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were -1.1° C, 0.5° C, 1.1° C and 1.4° C.

Metals

Method 6020A: The low level continuing calibration verification (ICVL/CCVL) associated with batch 500-700664 recovered above the upper control limit for Beryllium. The samples associated with this ICVL/CCVL were non-detects for the affected analyte; therefore, the data have been reported.

Method 6020A: The internal standard Terbium (Tb) was used to report the elements Lead and Thallium in batch 500-700664. This was due to the LCS being spiked with the trace digestion spike which contains Bismuth.

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

General Chemistry

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



Method Summary

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR - Quarterly

Job ID: 500-229791-1

Method	Method Description	Protocol	Laboratory
6020A	Metals (ICP/MS)	SW846	EET CHI
7470A	Mercury (CVAA)	SW846	EET CHI
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET CHI
SM 4500 Cl- E	Chloride, Total	SM	EET CHI
SM 4500 F C	Fluoride	SM	EET CHI
SM 4500 SO4 E	Sulfate, Total	SM	EET CHI
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CHI
7470A	Preparation, Mercury	SW846	EET CHI

Protocol References:

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

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

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR - Quarterly

Job ID: 500-229791-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-229791-1	MW-18	Water	02/21/23 14:48	02/22/23 09:55
500-229791-2	MW-19	Water	02/21/23 13:36	02/22/23 09:55
500-229791-3	Duplicate	Water	02/21/23 00:00	02/22/23 09:55
500-229791-4	MW-01	Water	02/22/23 10:22	02/23/23 09:50
500-229791-5	MW-08	Water	02/22/23 11:41	02/23/23 09:50
500-229791-6	MW-09	Water	02/23/23 14:54	02/24/23 09:50
500-229791-7	MW-11	Water	02/23/23 13:36	02/24/23 09:50
500-229791-8	MW-12	Water	02/23/23 12:18	02/24/23 09:50
500-229791-9	MW-15	Water	02/23/23 08:43	02/24/23 09:50
500-229791-10	MW-17	Water	02/23/23 09:39	02/24/23 09:50

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

Client Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Powerton CCR - Quarterly

Job ID: 500-229791-1

Client Sample ID: MW-18
Date Collected: 02/21/23 14:48
Date Received: 02/22/23 09:55

Lab Sample ID: 500-229791-1
Matrix: Water

Method: SW846 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		02/22/23 16:18	02/23/23 13:24	1
Arsenic	<0.0010		0.0010		mg/L		02/22/23 16:18	02/23/23 15:31	1
Barium	0.12		0.0025		mg/L		02/22/23 16:18	02/23/23 13:24	1
Beryllium	<0.0010		0.0010		mg/L		02/22/23 16:18	02/23/23 13:24	1
Boron	0.68		0.050		mg/L		02/22/23 16:18	02/23/23 13:24	1
Cadmium	<0.00050		0.00050		mg/L		02/22/23 16:18	02/23/23 13:24	1
Calcium	130		0.20		mg/L		02/22/23 16:18	02/23/23 13:24	1
Chromium	<0.0050		0.0050		mg/L		02/22/23 16:18	02/23/23 13:24	1
Cobalt	<0.0010		0.0010		mg/L		02/22/23 16:18	02/23/23 13:24	1
Lead	<0.00050		0.00050		mg/L		02/22/23 16:18	02/23/23 13:24	1
Lithium	0.012		0.010		mg/L		02/22/23 16:18	02/23/23 13:24	1
Molybdenum	<0.0050		0.0050		mg/L		02/22/23 16:18	02/23/23 13:24	1
Selenium	<0.0025		0.0025		mg/L		02/22/23 16:18	02/23/23 13:24	1
Thallium	<0.0020		0.0020		mg/L		02/22/23 16:18	02/23/23 13:24	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/01/23 11:25	03/02/23 08:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1100		10		mg/L			02/23/23 04:23	1
Chloride (SM 4500 Cl- E)	160		20		mg/L			03/01/23 11:35	10
Fluoride (SM 4500 F C)	0.52		0.10		mg/L			02/23/23 13:49	1
Sulfate (SM 4500 SO4 E)	180		50		mg/L			03/01/23 13:12	10

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR - Quarterly

Job ID: 500-229791-1

Client Sample ID: MW-19

Lab Sample ID: 500-229791-2

Date Collected: 02/21/23 13:36

Matrix: Water

Date Received: 02/22/23 09:55

Method: SW846 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		02/22/23 16:18	02/23/23 13:27	1
Arsenic	<0.0010		0.0010		mg/L		02/22/23 16:18	02/23/23 15:34	1
Barium	0.063		0.0025		mg/L		02/22/23 16:18	02/23/23 13:27	1
Beryllium	<0.0010		0.0010		mg/L		02/22/23 16:18	02/23/23 13:27	1
Boron	3.9		0.050		mg/L		02/22/23 16:18	02/23/23 13:27	1
Cadmium	<0.00050		0.00050		mg/L		02/22/23 16:18	02/23/23 13:27	1
Calcium	70		0.20		mg/L		02/22/23 16:18	02/23/23 13:27	1
Chromium	<0.0050		0.0050		mg/L		02/22/23 16:18	02/23/23 13:27	1
Cobalt	<0.0010		0.0010		mg/L		02/22/23 16:18	02/23/23 13:27	1
Lead	<0.00050		0.00050		mg/L		02/22/23 16:18	02/23/23 13:27	1
Lithium	<0.010		0.010		mg/L		02/22/23 16:18	02/23/23 13:27	1
Molybdenum	0.032		0.0050		mg/L		02/22/23 16:18	02/23/23 13:27	1
Selenium	0.0033		0.0025		mg/L		02/22/23 16:18	02/23/23 13:27	1
Thallium	<0.0020		0.0020		mg/L		02/22/23 16:18	02/23/23 13:27	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/01/23 11:25	03/02/23 08:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	680		10		mg/L			02/23/23 04:25	1
Chloride (SM 4500 Cl- E)	33		20		mg/L			03/01/23 11:35	10
Fluoride (SM 4500 F C)	0.14		0.10		mg/L			02/23/23 13:49	1
Sulfate (SM 4500 SO4 E)	170		50		mg/L			03/01/23 13:13	10

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR - Quarterly

Job ID: 500-229791-1

Client Sample ID: Duplicate

Lab Sample ID: 500-229791-3

Date Collected: 02/21/23 00:00

Matrix: Water

Date Received: 02/22/23 09:55

Method: SW846 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		02/22/23 16:18	02/23/23 13:30	1
Arsenic	<0.0010		0.0010		mg/L		02/22/23 16:18	02/23/23 15:38	1
Barium	0.065		0.0025		mg/L		02/22/23 16:18	02/23/23 13:30	1
Beryllium	<0.0010		0.0010		mg/L		02/22/23 16:18	02/23/23 13:30	1
Boron	4.1		0.050		mg/L		02/22/23 16:18	02/23/23 13:30	1
Cadmium	<0.00050		0.00050		mg/L		02/22/23 16:18	02/23/23 13:30	1
Calcium	73		0.20		mg/L		02/22/23 16:18	02/23/23 13:30	1
Chromium	<0.0050		0.0050		mg/L		02/22/23 16:18	02/23/23 13:30	1
Cobalt	<0.0010		0.0010		mg/L		02/22/23 16:18	02/23/23 13:30	1
Lead	<0.00050		0.00050		mg/L		02/22/23 16:18	02/23/23 13:30	1
Lithium	<0.010		0.010		mg/L		02/22/23 16:18	02/23/23 13:30	1
Molybdenum	0.034		0.0050		mg/L		02/22/23 16:18	02/23/23 13:30	1
Selenium	0.0036		0.0025		mg/L		02/22/23 16:18	02/23/23 13:30	1
Thallium	<0.0020		0.0020		mg/L		02/22/23 16:18	02/23/23 13:30	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/01/23 11:25	03/02/23 08:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	700		10		mg/L			02/23/23 04:28	1
Chloride (SM 4500 Cl- E)	34		20		mg/L			03/01/23 11:35	10
Fluoride (SM 4500 F C)	0.14		0.10		mg/L			02/23/23 13:49	1
Sulfate (SM 4500 SO4 E)	180		50		mg/L			03/01/23 13:13	10

Client Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Powerton CCR - Quarterly

Job ID: 500-229791-1

Client Sample ID: MW-01

Lab Sample ID: 500-229791-4

Date Collected: 02/22/23 10:22

Matrix: Water

Date Received: 02/23/23 09:50

Method: SW846 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		02/23/23 16:26	02/24/23 13:16	1
Arsenic	<0.0010		0.0010		mg/L		02/23/23 16:26	02/24/23 13:16	1
Barium	0.083		0.0025		mg/L		02/23/23 16:26	02/24/23 13:16	1
Beryllium	<0.0010		0.0010		mg/L		02/23/23 16:26	02/24/23 13:16	1
Boron	0.47		0.050		mg/L		02/23/23 16:26	02/24/23 13:16	1
Cadmium	<0.00050		0.00050		mg/L		02/23/23 16:26	02/24/23 13:16	1
Calcium	110		0.20		mg/L		02/23/23 16:26	02/24/23 13:16	1
Chromium	<0.0050		0.0050		mg/L		02/23/23 16:26	02/24/23 13:16	1
Cobalt	<0.0010		0.0010		mg/L		02/23/23 16:26	02/24/23 13:16	1
Lead	<0.00050		0.00050		mg/L		02/23/23 16:26	02/24/23 13:16	1
Lithium	<0.010		0.010		mg/L		02/23/23 16:26	02/24/23 13:16	1
Molybdenum	<0.0050		0.0050		mg/L		02/23/23 16:26	02/24/23 13:16	1
Selenium	0.0027		0.0025		mg/L		02/23/23 16:26	02/24/23 13:16	1
Thallium	<0.0020		0.0020		mg/L		02/23/23 16:26	02/24/23 13:16	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/01/23 11:25	03/02/23 09:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	550		10		mg/L			02/24/23 02:32	1
Chloride (SM 4500 Cl- E)	53		10		mg/L			03/01/23 11:35	5
Fluoride (SM 4500 F C)	<0.10		0.10		mg/L			02/28/23 14:13	1
Sulfate (SM 4500 SO4 E)	47		25		mg/L			03/01/23 13:13	5

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR - Quarterly

Job ID: 500-229791-1

Client Sample ID: MW-08
Date Collected: 02/22/23 11:41
Date Received: 02/23/23 09:50

Lab Sample ID: 500-229791-5
Matrix: Water

Method: SW846 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		02/23/23 16:26	02/24/23 13:19	1
Arsenic	0.0029		0.0010		mg/L		02/23/23 16:26	02/24/23 13:19	1
Barium	0.13		0.0025		mg/L		02/23/23 16:26	02/24/23 13:19	1
Beryllium	<0.0010		0.0010		mg/L		02/23/23 16:26	02/24/23 13:19	1
Boron	0.66		0.050		mg/L		02/23/23 16:26	02/24/23 13:19	1
Cadmium	<0.00050		0.00050		mg/L		02/23/23 16:26	02/24/23 13:19	1
Calcium	130		0.20		mg/L		02/23/23 16:26	02/24/23 13:19	1
Chromium	<0.0050		0.0050		mg/L		02/23/23 16:26	02/24/23 13:19	1
Cobalt	<0.0010		0.0010		mg/L		02/23/23 16:26	02/24/23 13:19	1
Lead	<0.00050		0.00050		mg/L		02/23/23 16:26	02/24/23 13:19	1
Lithium	0.022		0.010		mg/L		02/23/23 16:26	02/24/23 13:19	1
Molybdenum	0.0070		0.0050		mg/L		02/23/23 16:26	02/24/23 13:19	1
Selenium	<0.0025		0.0025		mg/L		02/23/23 16:26	02/24/23 13:19	1
Thallium	<0.0020		0.0020		mg/L		02/23/23 16:26	02/24/23 13:19	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/01/23 11:25	03/02/23 09:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	800		10		mg/L			02/24/23 02:35	1
Chloride (SM 4500 Cl- E)	140		40		mg/L			03/01/23 11:36	20
Fluoride (SM 4500 F C)	0.32		0.10		mg/L			02/28/23 14:13	1
Sulfate (SM 4500 SO4 E)	61		25		mg/L			03/01/23 13:14	5

Client Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Powerton CCR - Quarterly

Job ID: 500-229791-1

Client Sample ID: MW-09

Lab Sample ID: 500-229791-6

Date Collected: 02/23/23 14:54

Matrix: Water

Date Received: 02/24/23 09:50

Method: SW846 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		02/27/23 08:21	02/28/23 17:53	1
Arsenic	<0.0010		0.0010		mg/L		02/27/23 08:21	02/28/23 17:53	1
Barium	0.037		0.0025		mg/L		02/27/23 08:21	02/28/23 17:53	1
Beryllium	<0.0010	^1+ ^+	0.0010		mg/L		02/27/23 08:21	02/28/23 17:53	1
Boron	4.6		0.50		mg/L		02/27/23 08:21	03/01/23 13:25	10
Cadmium	<0.00050		0.00050		mg/L		02/27/23 08:21	02/28/23 17:53	1
Calcium	71		0.20		mg/L		02/27/23 08:21	02/28/23 17:53	1
Chromium	<0.0050		0.0050		mg/L		02/27/23 08:21	02/28/23 17:53	1
Cobalt	<0.0010		0.0010		mg/L		02/27/23 08:21	02/28/23 17:53	1
Lead	<0.00050		0.00050		mg/L		02/27/23 08:21	02/28/23 17:53	1
Lithium	<0.010		0.010		mg/L		02/27/23 08:21	02/28/23 17:53	1
Molybdenum	0.034		0.0050		mg/L		02/27/23 08:21	02/28/23 17:53	1
Selenium	<0.0025		0.0025		mg/L		02/27/23 08:21	02/28/23 17:53	1
Thallium	<0.0020		0.0020		mg/L		02/27/23 08:21	02/28/23 17:53	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/01/23 11:25	03/02/23 09:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	520		10		mg/L			02/27/23 05:04	1
Chloride (SM 4500 Cl- E)	31		2.0		mg/L			03/01/23 11:36	1
Fluoride (SM 4500 F C)	0.18		0.10		mg/L			03/02/23 13:02	1
Sulfate (SM 4500 SO4 E)	150		50		mg/L			03/01/23 13:14	10

Client Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Powerton CCR - Quarterly

Job ID: 500-229791-1

Client Sample ID: MW-11

Lab Sample ID: 500-229791-7

Date Collected: 02/23/23 13:36

Matrix: Water

Date Received: 02/24/23 09:50

Method: SW846 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		02/27/23 08:21	02/28/23 17:57	1
Arsenic	0.012		0.0010		mg/L		02/27/23 08:21	02/28/23 17:57	1
Barium	0.17		0.0025		mg/L		02/27/23 08:21	02/28/23 17:57	1
Beryllium	<0.0010	^1+ ^+	0.0010		mg/L		02/27/23 08:21	02/28/23 17:57	1
Boron	3.1		0.50		mg/L		02/27/23 08:21	03/01/23 13:28	10
Cadmium	<0.00050		0.00050		mg/L		02/27/23 08:21	02/28/23 17:57	1
Calcium	110		0.20		mg/L		02/27/23 08:21	02/28/23 17:57	1
Chromium	<0.0050		0.0050		mg/L		02/27/23 08:21	02/28/23 17:57	1
Cobalt	0.0017		0.0010		mg/L		02/27/23 08:21	02/28/23 17:57	1
Lead	<0.00050		0.00050		mg/L		02/27/23 08:21	02/28/23 17:57	1
Lithium	<0.010		0.010		mg/L		02/27/23 08:21	02/28/23 17:57	1
Molybdenum	0.016		0.0050		mg/L		02/27/23 08:21	02/28/23 17:57	1
Selenium	<0.0025		0.0025		mg/L		02/27/23 08:21	02/28/23 17:57	1
Thallium	<0.0020		0.0020		mg/L		02/27/23 08:21	02/28/23 17:57	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/01/23 11:25	03/02/23 09:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	680		10		mg/L			02/27/23 05:07	1
Chloride (SM 4500 Cl- E)	63		20		mg/L			03/01/23 11:37	10
Fluoride (SM 4500 F C)	0.58		0.10		mg/L			03/02/23 13:02	1
Sulfate (SM 4500 SO4 E)	120		50		mg/L			03/01/23 12:54	10

Client Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Powerton CCR - Quarterly

Job ID: 500-229791-1

Client Sample ID: MW-12
Date Collected: 02/23/23 12:18
Date Received: 02/24/23 09:50

Lab Sample ID: 500-229791-8
Matrix: Water

Method: SW846 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		02/27/23 08:21	02/28/23 18:00	1
Arsenic	0.032		0.0010		mg/L		02/27/23 08:21	02/28/23 18:00	1
Barium	0.068		0.0025		mg/L		02/27/23 08:21	02/28/23 18:00	1
Beryllium	<0.0010	^1+ ^+	0.0010		mg/L		02/27/23 08:21	02/28/23 18:00	1
Boron	0.28		0.050		mg/L		02/27/23 08:21	03/01/23 13:32	1
Cadmium	<0.00050		0.00050		mg/L		02/27/23 08:21	02/28/23 18:00	1
Calcium	100		0.20		mg/L		02/27/23 08:21	02/28/23 18:00	1
Chromium	<0.0050		0.0050		mg/L		02/27/23 08:21	02/28/23 18:00	1
Cobalt	<0.0010		0.0010		mg/L		02/27/23 08:21	02/28/23 18:00	1
Lead	<0.00050		0.00050		mg/L		02/27/23 08:21	02/28/23 18:00	1
Lithium	<0.010		0.010		mg/L		02/27/23 08:21	02/28/23 18:00	1
Molybdenum	0.013		0.0050		mg/L		02/27/23 08:21	02/28/23 18:00	1
Selenium	<0.0025		0.0025		mg/L		02/27/23 08:21	02/28/23 18:00	1
Thallium	<0.0020		0.0020		mg/L		02/27/23 08:21	02/28/23 18:00	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/01/23 11:25	03/02/23 09:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	950		10		mg/L			02/27/23 05:10	1
Chloride (SM 4500 Cl- E)	160		20		mg/L			03/01/23 11:37	10
Fluoride (SM 4500 F C)	0.38		0.10		mg/L			03/02/23 13:02	1
Sulfate (SM 4500 SO4 E)	340		100		mg/L			03/01/23 12:55	20

Client Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Powerton CCR - Quarterly

Job ID: 500-229791-1

Client Sample ID: MW-15

Lab Sample ID: 500-229791-9

Date Collected: 02/23/23 08:43

Matrix: Water

Date Received: 02/24/23 09:50

Method: SW846 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		02/27/23 08:21	02/28/23 18:04	1
Arsenic	0.0049		0.0010		mg/L		02/27/23 08:21	02/28/23 18:04	1
Barium	0.056		0.0025		mg/L		02/27/23 08:21	02/28/23 18:04	1
Beryllium	<0.0010	^1+ ^+	0.0010		mg/L		02/27/23 08:21	02/28/23 18:04	1
Boron	1.2		0.25		mg/L		02/27/23 08:21	03/01/23 13:35	5
Cadmium	0.00091		0.00050		mg/L		02/27/23 08:21	02/28/23 18:04	1
Calcium	200		0.20		mg/L		02/27/23 08:21	02/28/23 18:04	1
Chromium	<0.0050		0.0050		mg/L		02/27/23 08:21	02/28/23 18:04	1
Cobalt	0.0089		0.0010		mg/L		02/27/23 08:21	02/28/23 18:04	1
Lead	<0.00050		0.00050		mg/L		02/27/23 08:21	02/28/23 18:04	1
Lithium	0.025		0.010		mg/L		02/27/23 08:21	02/28/23 18:04	1
Molybdenum	0.093		0.0050		mg/L		02/27/23 08:21	02/28/23 18:04	1
Selenium	0.029		0.0025		mg/L		02/27/23 08:21	02/28/23 18:04	1
Thallium	0.0029		0.0020		mg/L		02/27/23 08:21	02/28/23 18:04	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/01/23 11:25	03/02/23 09:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1500		10		mg/L			02/27/23 05:12	1
Chloride (SM 4500 Cl- E)	210		20		mg/L			03/01/23 11:37	10
Fluoride (SM 4500 F C)	0.38		0.10		mg/L			03/02/23 13:02	1
Sulfate (SM 4500 SO4 E)	390		250		mg/L			03/01/23 12:55	50

Client Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Powerton CCR - Quarterly

Job ID: 500-229791-1

Client Sample ID: MW-17

Lab Sample ID: 500-229791-10

Date Collected: 02/23/23 09:39

Matrix: Water

Date Received: 02/24/23 09:50

Method: SW846 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		02/27/23 08:21	02/28/23 18:07	1
Arsenic	0.0034		0.0010		mg/L		02/27/23 08:21	02/28/23 18:07	1
Barium	0.027		0.0025		mg/L		02/27/23 08:21	02/28/23 18:07	1
Beryllium	<0.0010	^1+ ^+	0.0010		mg/L		02/27/23 08:21	02/28/23 18:07	1
Boron	1.6		0.25		mg/L		02/27/23 08:21	03/01/23 13:38	5
Cadmium	<0.00050		0.00050		mg/L		02/27/23 08:21	02/28/23 18:07	1
Calcium	170		0.20		mg/L		02/27/23 08:21	02/28/23 18:07	1
Chromium	<0.0050		0.0050		mg/L		02/27/23 08:21	02/28/23 18:07	1
Cobalt	<0.0010		0.0010		mg/L		02/27/23 08:21	02/28/23 18:07	1
Lead	<0.00050		0.00050		mg/L		02/27/23 08:21	02/28/23 18:07	1
Lithium	0.015		0.010		mg/L		02/27/23 08:21	02/28/23 18:07	1
Molybdenum	0.043		0.0050		mg/L		02/27/23 08:21	02/28/23 18:07	1
Selenium	<0.0025		0.0025		mg/L		02/27/23 08:21	02/28/23 18:07	1
Thallium	0.0020		0.0020		mg/L		02/27/23 08:21	02/28/23 18:07	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/01/23 11:25	03/02/23 09:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1700		10		mg/L			02/27/23 05:15	1
Chloride (SM 4500 Cl- E)	210		20		mg/L			03/01/23 11:51	10
Fluoride (SM 4500 F C)	0.67		0.10		mg/L			03/02/23 13:02	1
Sulfate (SM 4500 SO4 E)	690		250		mg/L			03/01/23 12:56	50

Definitions/Glossary

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR - Quarterly

Job ID: 500-229791-1

Qualifiers

Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
^1+	Initial Calibration Verification (ICV) is outside acceptance limits, high biased.

Glossary

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

QC Association Summary

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR - Quarterly

Job ID: 500-229791-1

Metals

Prep Batch: 699812

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-229791-1	MW-18	Total Recoverable	Water	3005A	
500-229791-2	MW-19	Total Recoverable	Water	3005A	
500-229791-3	Duplicate	Total Recoverable	Water	3005A	
MB 500-699812/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-699812/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 699991

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-229791-1	MW-18	Total Recoverable	Water	6020A	699812
500-229791-2	MW-19	Total Recoverable	Water	6020A	699812
500-229791-3	Duplicate	Total Recoverable	Water	6020A	699812
MB 500-699812/1-A	Method Blank	Total Recoverable	Water	6020A	699812
LCS 500-699812/2-A	Lab Control Sample	Total Recoverable	Water	6020A	699812

Analysis Batch: 699994

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-229791-1	MW-18	Total Recoverable	Water	6020A	699812
500-229791-2	MW-19	Total Recoverable	Water	6020A	699812
500-229791-3	Duplicate	Total Recoverable	Water	6020A	699812
MB 500-699812/1-A	Method Blank	Total Recoverable	Water	6020A	699812
LCS 500-699812/2-A	Lab Control Sample	Total Recoverable	Water	6020A	699812

Prep Batch: 700008

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-229791-4	MW-01	Total Recoverable	Water	3005A	
500-229791-5	MW-08	Total Recoverable	Water	3005A	
MB 500-700008/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-700008/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 700200

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-229791-4	MW-01	Total Recoverable	Water	6020A	700008
500-229791-5	MW-08	Total Recoverable	Water	6020A	700008
MB 500-700008/1-A	Method Blank	Total Recoverable	Water	6020A	700008
LCS 500-700008/2-A	Lab Control Sample	Total Recoverable	Water	6020A	700008

Prep Batch: 700282

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-229791-6	MW-09	Total Recoverable	Water	3005A	
500-229791-7	MW-11	Total Recoverable	Water	3005A	
500-229791-8	MW-12	Total Recoverable	Water	3005A	
500-229791-9	MW-15	Total Recoverable	Water	3005A	
500-229791-10	MW-17	Total Recoverable	Water	3005A	
MB 500-700282/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-700282/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 700664

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-229791-6	MW-09	Total Recoverable	Water	6020A	700282
500-229791-7	MW-11	Total Recoverable	Water	6020A	700282
500-229791-8	MW-12	Total Recoverable	Water	6020A	700282

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QC Association Summary

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR - Quarterly

Job ID: 500-229791-1

Metals (Continued)

Analysis Batch: 700664 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-229791-9	MW-15	Total Recoverable	Water	6020A	700282
500-229791-10	MW-17	Total Recoverable	Water	6020A	700282
MB 500-700282/1-A	Method Blank	Total Recoverable	Water	6020A	700282
LCS 500-700282/2-A	Lab Control Sample	Total Recoverable	Water	6020A	700282

Prep Batch: 700696

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-229791-1	MW-18	Total/NA	Water	7470A	
500-229791-2	MW-19	Total/NA	Water	7470A	
500-229791-3	Duplicate	Total/NA	Water	7470A	
500-229791-4	MW-01	Total/NA	Water	7470A	
500-229791-5	MW-08	Total/NA	Water	7470A	
500-229791-6	MW-09	Total/NA	Water	7470A	
500-229791-7	MW-11	Total/NA	Water	7470A	
500-229791-8	MW-12	Total/NA	Water	7470A	
500-229791-9	MW-15	Total/NA	Water	7470A	
500-229791-10	MW-17	Total/NA	Water	7470A	
MB 500-700696/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-700696/13-A	Lab Control Sample	Total/NA	Water	7470A	
500-229791-7 MS	MW-11	Total/NA	Water	7470A	
500-229791-7 MSD	MW-11	Total/NA	Water	7470A	
500-229791-7 DU	MW-11	Total/NA	Water	7470A	

Analysis Batch: 700848

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-229791-6	MW-09	Total Recoverable	Water	6020A	700282
500-229791-7	MW-11	Total Recoverable	Water	6020A	700282
500-229791-8	MW-12	Total Recoverable	Water	6020A	700282
500-229791-9	MW-15	Total Recoverable	Water	6020A	700282
500-229791-10	MW-17	Total Recoverable	Water	6020A	700282

Analysis Batch: 700850

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-700282/1-A	Method Blank	Total Recoverable	Water	6020A	700282
LCS 500-700282/2-A	Lab Control Sample	Total Recoverable	Water	6020A	700282

Analysis Batch: 700909

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-229791-1	MW-18	Total/NA	Water	7470A	700696
500-229791-2	MW-19	Total/NA	Water	7470A	700696
500-229791-3	Duplicate	Total/NA	Water	7470A	700696
500-229791-4	MW-01	Total/NA	Water	7470A	700696
500-229791-5	MW-08	Total/NA	Water	7470A	700696
500-229791-6	MW-09	Total/NA	Water	7470A	700696
500-229791-7	MW-11	Total/NA	Water	7470A	700696
500-229791-8	MW-12	Total/NA	Water	7470A	700696
500-229791-9	MW-15	Total/NA	Water	7470A	700696
500-229791-10	MW-17	Total/NA	Water	7470A	700696
MB 500-700696/12-A	Method Blank	Total/NA	Water	7470A	700696
LCS 500-700696/13-A	Lab Control Sample	Total/NA	Water	7470A	700696
500-229791-7 MS	MW-11	Total/NA	Water	7470A	700696

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QC Association Summary

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR - Quarterly

Job ID: 500-229791-1

Metals (Continued)

Analysis Batch: 700909 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-229791-7 MSD	MW-11	Total/NA	Water	7470A	700696
500-229791-7 DU	MW-11	Total/NA	Water	7470A	700696

General Chemistry

Analysis Batch: 699823

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-229791-1	MW-18	Total/NA	Water	SM 2540C	
500-229791-2	MW-19	Total/NA	Water	SM 2540C	
500-229791-3	Duplicate	Total/NA	Water	SM 2540C	
MB 500-699823/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-699823/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 699977

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-229791-1	MW-18	Total/NA	Water	SM 4500 F C	
500-229791-2	MW-19	Total/NA	Water	SM 4500 F C	
500-229791-3	Duplicate	Total/NA	Water	SM 4500 F C	
MB 500-699977/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-699977/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	

Analysis Batch: 700037

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-229791-4	MW-01	Total/NA	Water	SM 2540C	
500-229791-5	MW-08	Total/NA	Water	SM 2540C	
MB 500-700037/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-700037/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 700232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-229791-6	MW-09	Total/NA	Water	SM 2540C	
500-229791-7	MW-11	Total/NA	Water	SM 2540C	
500-229791-8	MW-12	Total/NA	Water	SM 2540C	
500-229791-9	MW-15	Total/NA	Water	SM 2540C	
500-229791-10	MW-17	Total/NA	Water	SM 2540C	
MB 500-700232/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-700232/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 700591

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-229791-4	MW-01	Total/NA	Water	SM 4500 F C	
500-229791-5	MW-08	Total/NA	Water	SM 4500 F C	
MB 500-700591/3	Method Blank	Total/NA	Water	SM 4500 F C	
MB 500-700591/31	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-700591/32	Lab Control Sample	Total/NA	Water	SM 4500 F C	
LCS 500-700591/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	

Analysis Batch: 700692

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-229791-1	MW-18	Total/NA	Water	SM 4500 CI- E	
500-229791-2	MW-19	Total/NA	Water	SM 4500 CI- E	

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QC Association Summary

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR - Quarterly

Job ID: 500-229791-1

General Chemistry (Continued)

Analysis Batch: 700692 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-229791-3	Duplicate	Total/NA	Water	SM 4500 Cl- E	
500-229791-4	MW-01	Total/NA	Water	SM 4500 Cl- E	
500-229791-5	MW-08	Total/NA	Water	SM 4500 Cl- E	
500-229791-6	MW-09	Total/NA	Water	SM 4500 Cl- E	
500-229791-7	MW-11	Total/NA	Water	SM 4500 Cl- E	
500-229791-8	MW-12	Total/NA	Water	SM 4500 Cl- E	
500-229791-9	MW-15	Total/NA	Water	SM 4500 Cl- E	
500-229791-10	MW-17	Total/NA	Water	SM 4500 Cl- E	
MB 500-700692/56	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 500-700692/57	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 700721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-229791-1	MW-18	Total/NA	Water	SM 4500 SO4 E	
500-229791-2	MW-19	Total/NA	Water	SM 4500 SO4 E	
500-229791-3	Duplicate	Total/NA	Water	SM 4500 SO4 E	
500-229791-4	MW-01	Total/NA	Water	SM 4500 SO4 E	
500-229791-5	MW-08	Total/NA	Water	SM 4500 SO4 E	
500-229791-6	MW-09	Total/NA	Water	SM 4500 SO4 E	
500-229791-7	MW-11	Total/NA	Water	SM 4500 SO4 E	
500-229791-8	MW-12	Total/NA	Water	SM 4500 SO4 E	
500-229791-9	MW-15	Total/NA	Water	SM 4500 SO4 E	
500-229791-10	MW-17	Total/NA	Water	SM 4500 SO4 E	
MB 500-700721/55	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-700721/56	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 700911

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-229791-6	MW-09	Total/NA	Water	SM 4500 F C	
500-229791-7	MW-11	Total/NA	Water	SM 4500 F C	
500-229791-8	MW-12	Total/NA	Water	SM 4500 F C	
500-229791-9	MW-15	Total/NA	Water	SM 4500 F C	
500-229791-10	MW-17	Total/NA	Water	SM 4500 F C	
MB 500-700911/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-700911/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
500-229791-6 MS	MW-09	Total/NA	Water	SM 4500 F C	
500-229791-6 MSD	MW-09	Total/NA	Water	SM 4500 F C	

QC Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR - Quarterly

Job ID: 500-229791-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 500-699812/1-A
Matrix: Water
Analysis Batch: 699991

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 699812

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0030		0.0030		mg/L		02/22/23 16:18	02/23/23 12:37	1
Barium	<0.0025		0.0025		mg/L		02/22/23 16:18	02/23/23 12:37	1
Beryllium	<0.0010		0.0010		mg/L		02/22/23 16:18	02/23/23 12:37	1
Boron	<0.050		0.050		mg/L		02/22/23 16:18	02/23/23 12:37	1
Cadmium	<0.00050		0.00050		mg/L		02/22/23 16:18	02/23/23 12:37	1
Calcium	<0.20		0.20		mg/L		02/22/23 16:18	02/23/23 12:37	1
Chromium	<0.0050		0.0050		mg/L		02/22/23 16:18	02/23/23 12:37	1
Cobalt	<0.0010		0.0010		mg/L		02/22/23 16:18	02/23/23 12:37	1
Lead	<0.00050		0.00050		mg/L		02/22/23 16:18	02/23/23 12:37	1
Lithium	<0.010		0.010		mg/L		02/22/23 16:18	02/23/23 12:37	1
Molybdenum	<0.0050		0.0050		mg/L		02/22/23 16:18	02/23/23 12:37	1
Selenium	<0.0025		0.0025		mg/L		02/22/23 16:18	02/23/23 12:37	1
Thallium	<0.0020		0.0020		mg/L		02/22/23 16:18	02/23/23 12:37	1

Lab Sample ID: MB 500-699812/1-A
Matrix: Water
Analysis Batch: 699994

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 699812

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	<0.0010		0.0010		mg/L		02/22/23 16:18	02/23/23 14:46	1

Lab Sample ID: LCS 500-699812/2-A
Matrix: Water
Analysis Batch: 699991

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 699812

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	2.00	2.07		mg/L		104	80 - 120
Beryllium	0.0500	0.0497		mg/L		99	80 - 120
Boron	1.00	0.968		mg/L		97	80 - 120
Cadmium	0.0500	0.0502		mg/L		100	80 - 120
Calcium	10.0	9.97		mg/L		100	80 - 120
Chromium	0.200	0.210		mg/L		105	80 - 120
Cobalt	0.500	0.529		mg/L		106	80 - 120
Lead	0.100	0.106		mg/L		106	80 - 120
Lithium	0.500	0.526		mg/L		105	80 - 120
Molybdenum	1.00	0.979		mg/L		98	80 - 120
Selenium	0.100	0.0992		mg/L		99	80 - 120
Thallium	0.100	0.107		mg/L		107	80 - 120

Lab Sample ID: LCS 500-699812/2-A
Matrix: Water
Analysis Batch: 699994

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 699812

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits

QC Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR - Quarterly

Job ID: 500-229791-1

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

Lab Sample ID: MB 500-700008/1-A
Matrix: Water
Analysis Batch: 700200

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 700008

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		02/23/23 16:26	02/24/23 11:53	1
Arsenic	<0.0010		0.0010		mg/L		02/23/23 16:26	02/24/23 11:53	1
Barium	<0.0025		0.0025		mg/L		02/23/23 16:26	02/24/23 11:53	1
Beryllium	<0.0010		0.0010		mg/L		02/23/23 16:26	02/24/23 11:53	1
Boron	<0.050		0.050		mg/L		02/23/23 16:26	02/24/23 11:53	1
Cadmium	<0.00050		0.00050		mg/L		02/23/23 16:26	02/24/23 11:53	1
Calcium	<0.20		0.20		mg/L		02/23/23 16:26	02/24/23 11:53	1
Chromium	<0.0050		0.0050		mg/L		02/23/23 16:26	02/24/23 11:53	1
Cobalt	<0.0010		0.0010		mg/L		02/23/23 16:26	02/24/23 11:53	1
Lead	<0.00050		0.00050		mg/L		02/23/23 16:26	02/24/23 11:53	1
Lithium	<0.010		0.010		mg/L		02/23/23 16:26	02/24/23 11:53	1
Molybdenum	<0.0050		0.0050		mg/L		02/23/23 16:26	02/24/23 11:53	1
Selenium	<0.0025		0.0025		mg/L		02/23/23 16:26	02/24/23 11:53	1
Thallium	<0.0020		0.0020		mg/L		02/23/23 16:26	02/24/23 11:53	1

Lab Sample ID: LCS 500-700008/2-A
Matrix: Water
Analysis Batch: 700200

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 700008

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.514		mg/L		103	80 - 120
Arsenic	0.100	0.0951		mg/L		95	80 - 120
Barium	2.00	2.07		mg/L		103	80 - 120
Beryllium	0.0500	0.0503		mg/L		101	80 - 120
Boron	1.00	0.901		mg/L		90	80 - 120
Cadmium	0.0500	0.0491		mg/L		98	80 - 120
Calcium	10.0	9.68		mg/L		97	80 - 120
Chromium	0.200	0.206		mg/L		103	80 - 120
Cobalt	0.500	0.515		mg/L		103	80 - 120
Lead	0.100	0.104		mg/L		104	80 - 120
Lithium	0.500	0.491		mg/L		98	80 - 120
Molybdenum	1.00	0.972		mg/L		97	80 - 120
Selenium	0.100	0.0982		mg/L		98	80 - 120
Thallium	0.100	0.106		mg/L		106	80 - 120

Lab Sample ID: MB 500-700282/1-A
Matrix: Water
Analysis Batch: 700664

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 700282

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		02/27/23 08:21	02/28/23 17:12	1
Arsenic	<0.0010		0.0010		mg/L		02/27/23 08:21	02/28/23 17:12	1
Barium	<0.0025		0.0025		mg/L		02/27/23 08:21	02/28/23 17:12	1
Beryllium	<0.0010	^1+ ^+	0.0010		mg/L		02/27/23 08:21	02/28/23 17:12	1
Boron	<0.050		0.050		mg/L		02/27/23 08:21	02/28/23 17:12	1
Cadmium	<0.00050		0.00050		mg/L		02/27/23 08:21	02/28/23 17:12	1
Calcium	<0.20		0.20		mg/L		02/27/23 08:21	02/28/23 17:12	1
Chromium	<0.0050		0.0050		mg/L		02/27/23 08:21	02/28/23 17:12	1
Cobalt	<0.0010		0.0010		mg/L		02/27/23 08:21	02/28/23 17:12	1

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QC Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR - Quarterly

Job ID: 500-229791-1

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

Lab Sample ID: MB 500-700282/1-A
Matrix: Water
Analysis Batch: 700664

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 700282

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.00050		0.00050		mg/L		02/27/23 08:21	02/28/23 17:12	1
Lithium	<0.010		0.010		mg/L		02/27/23 08:21	02/28/23 17:12	1
Molybdenum	<0.0050		0.0050		mg/L		02/27/23 08:21	02/28/23 17:12	1
Selenium	<0.0025		0.0025		mg/L		02/27/23 08:21	02/28/23 17:12	1
Thallium	<0.0020		0.0020		mg/L		02/27/23 08:21	02/28/23 17:12	1

Lab Sample ID: MB 500-700282/1-A
Matrix: Water
Analysis Batch: 700850

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 700282

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0010		0.0010		mg/L		02/27/23 08:21	03/01/23 13:29	1
Barium	<0.0025		0.0025		mg/L		02/27/23 08:21	03/01/23 13:29	1
Calcium	<0.20		0.20		mg/L		02/27/23 08:21	03/01/23 13:29	1
Chromium	<0.0050		0.0050		mg/L		02/27/23 08:21	03/01/23 13:29	1
Cobalt	<0.0010		0.0010		mg/L		02/27/23 08:21	03/01/23 13:29	1
Lead	<0.00050		0.00050		mg/L		02/27/23 08:21	03/01/23 13:29	1
Thallium	<0.0020		0.0020		mg/L		02/27/23 08:21	03/01/23 13:29	1

Lab Sample ID: LCS 500-700282/2-A
Matrix: Water
Analysis Batch: 700664

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 700282

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.535		mg/L		107	80 - 120
Arsenic	0.100	0.0952		mg/L		95	80 - 120
Barium	2.00	2.05		mg/L		102	80 - 120
Beryllium	0.0500	0.0479	^1+ ^+	mg/L		96	80 - 120
Boron	1.00	0.983		mg/L		98	80 - 120
Cadmium	0.0500	0.0497		mg/L		99	80 - 120
Calcium	10.0	9.80		mg/L		98	80 - 120
Chromium	0.200	0.204		mg/L		102	80 - 120
Cobalt	0.500	0.512		mg/L		102	80 - 120
Lead	0.100	0.107		mg/L		107	80 - 120
Lithium	0.500	0.481		mg/L		96	80 - 120
Molybdenum	1.00	0.964		mg/L		96	80 - 120
Selenium	0.100	0.100		mg/L		100	80 - 120
Thallium	0.100	0.107		mg/L		107	80 - 120

Lab Sample ID: LCS 500-700282/2-A
Matrix: Water
Analysis Batch: 700850

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 700282

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.103		mg/L		103	80 - 120
Barium	2.00	2.16		mg/L		108	80 - 120
Calcium	10.0	9.54		mg/L		95	80 - 120
Chromium	0.200	0.199		mg/L		99	80 - 120
Cobalt	0.500	0.509		mg/L		102	80 - 120

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QC Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR - Quarterly

Job ID: 500-229791-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-700696/12-A
Matrix: Water
Analysis Batch: 700909

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 700696

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/01/23 11:25	03/02/23 08:50	1

Lab Sample ID: LCS 500-700696/13-A
Matrix: Water
Analysis Batch: 700909

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 700696

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00198	0.00198		mg/L		100	80 - 120

Lab Sample ID: 500-229791-7 MS
Matrix: Water
Analysis Batch: 700909

Client Sample ID: MW-11
Prep Type: Total/NA
Prep Batch: 700696

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.00020		0.00100	0.00101		mg/L		101	75 - 125

Lab Sample ID: 500-229791-7 MSD
Matrix: Water
Analysis Batch: 700909

Client Sample ID: MW-11
Prep Type: Total/NA
Prep Batch: 700696

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.00020		0.00100	0.00103		mg/L		103	75 - 125	2	20

Lab Sample ID: 500-229791-7 DU
Matrix: Water
Analysis Batch: 700909

Client Sample ID: MW-11
Prep Type: Total/NA
Prep Batch: 700696

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	<0.00020		<0.00020		mg/L		NC	20

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

Lab Sample ID: MB 500-699823/1
Matrix: Water
Analysis Batch: 699823

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10		mg/L			02/23/23 03:29	1

Lab Sample ID: LCS 500-699823/2
Matrix: Water
Analysis Batch: 699823

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	276		mg/L		110	80 - 120

QC Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR - Quarterly

Job ID: 500-229791-1

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

Lab Sample ID: MB 500-700037/1
Matrix: Water
Analysis Batch: 700037

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10		mg/L			02/24/23 01:46	1

Lab Sample ID: LCS 500-700037/2
Matrix: Water
Analysis Batch: 700037

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	252		mg/L		101	80 - 120

Lab Sample ID: MB 500-700232/1
Matrix: Water
Analysis Batch: 700232

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10		mg/L			02/27/23 04:39	1

Lab Sample ID: LCS 500-700232/2
Matrix: Water
Analysis Batch: 700232

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	252		mg/L		101	80 - 120

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 500-700692/56
Matrix: Water
Analysis Batch: 700692

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<2.0		2.0		mg/L			03/01/23 11:31	1

Lab Sample ID: LCS 500-700692/57
Matrix: Water
Analysis Batch: 700692

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	20.0		mg/L		100	85 - 115

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-699977/3
Matrix: Water
Analysis Batch: 699977

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10		mg/L			02/23/23 13:49	1

QC Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR - Quarterly

Job ID: 500-229791-1

Method: SM 4500 F C - Fluoride (Continued)

Lab Sample ID: LCS 500-699977/4
Matrix: Water
Analysis Batch: 699977

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	10.0	10.1		mg/L		101	90 - 119

Lab Sample ID: MB 500-700591/3
Matrix: Water
Analysis Batch: 700591

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10		mg/L			02/28/23 14:13	1

Lab Sample ID: MB 500-700591/31
Matrix: Water
Analysis Batch: 700591

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10		mg/L			02/28/23 14:13	1

Lab Sample ID: LCS 500-700591/32
Matrix: Water
Analysis Batch: 700591

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	10.0	10.1		mg/L		101	90 - 119

Lab Sample ID: LCS 500-700591/4
Matrix: Water
Analysis Batch: 700591

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	10.0	10.0		mg/L		100	90 - 119

Lab Sample ID: MB 500-700911/3
Matrix: Water
Analysis Batch: 700911

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10		mg/L			03/02/23 13:02	1

Lab Sample ID: LCS 500-700911/4
Matrix: Water
Analysis Batch: 700911

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	10.0	10.2		mg/L		102	90 - 119

Lab Sample ID: 500-229791-6 MS
Matrix: Water
Analysis Batch: 700911

Client Sample ID: MW-09
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.18		5.00	5.22		mg/L		101	75 - 125

Eurofins Chicago

QC Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Powerton CCR - Quarterly

Job ID: 500-229791-1

Method: SM 4500 F C - Fluoride

Lab Sample ID: 500-229791-6 MSD
 Matrix: Water
 Analysis Batch: 700911

Client Sample ID: MW-09
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	0.18		5.00	5.20		mg/L		100	75 - 125	0	20

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 500-700721/55
 Matrix: Water
 Analysis Batch: 700721

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<5.0		5.0		mg/L			03/01/23 12:48	1

Lab Sample ID: LCS 500-700721/56
 Matrix: Water
 Analysis Batch: 700721

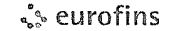
Client Sample ID: Lab Control Sample
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	20.0	21.9		mg/L		109	88 - 123

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2417 Bond Street
University Park, IL 60484
Phone 708-534-5200 Fax 708-534-5211

Chain of Custody Record



Client Information		Sampler: <u>Kaelyn Sperte</u>		Lab PM: Mockler, Diana J		Carrier Tracking No(s)		COC No: 500-106663-43259 1			
Client Contact: <u>Kaelyn Sperte</u>		Phone: <u>262-278-1621</u>		E-Mail: Diana Mockler@et eurofinsus.com		State of Origin: <u>IL</u>		Page: Page 1 of 1			
Company: KPRG and Associates Inc				PWSID		Analysis Requested					
Address: 14665 West Lisbon Road, Suite 1A		Due Date Requested: <u>Standard</u>		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 903.0, 904.0 6020A, 7470A 2540C, 4500_F_C, SM4500_CL_E SM4500_SO4_E - Sulfate		Total Number of containers 500-229791 COC		Job #: <u>500-229791</u>			
City: Brookfield		TAT Requested (days): <u>Standard</u>									
State, Zip: WI 53005		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No									
Phone: 262-781-0475(Tel)		PO #: 4502081030									
Email: <u>kaelyn@kprginc.com</u>		WO #:									
Project Name: Powerton CCR Event Desc: Quarterly Powerton CCR Sampling		Project #: 50011612		Preservation Codes		A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Y - Trizma Z - other (specify)					
Site: Illinois		SSOW#:		Other:							
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)			
						D		D N N			
					Water						
					Water						
					Water						
					Water						
					Water						
					Water						
					Water						
1 MW-18		2/21/23	1448	G	Water	N	N	X	X	X	X
2 MW-19		2/21/23	1336	↓	Water	↓	↓	↓	↓	↓	↓
3 Duplicate		2/21/23	-	↓	Water	↓	↓	↓	↓	↓	↓
					Water						
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)					
<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological						<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months					
Deliverable Requested I, II, III, IV, Other (specify)						Special Instructions/QC Requirements					
Empty Kit Relinquished by:		Date		Time		Method of Shipment:					
Relinquished by: <u>Kaelyn Sperte</u>		Date/Time: <u>2/21/23/1700</u>		Company: <u>KPRG</u>		Received by: <u>FedEx</u>		Date/Time: <u>2/21/23/1700</u>		Company: <u>FedEx</u>	
Relinquished by:		Date/Time:		Company:		Received by: <u>Stephanie Hernandez</u>		Date/Time: <u>2/22/23 0455</u>		Company: <u>EIA</u>	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks: <u>2.7+1.1</u>							

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 2417 Bond Street
 University Park, IL 60484
 Phone 708-534-5200 Fax: 708-534-5211



Chain of Custody Record

MKE 232



Environment Testing

Client Information Client Contact: Mitchell Dolan Company: KPRG and Associates Inc. Address: 14665 West Lisbon Road, Suite 1A City: Brookfield State Zip: WI 53005 Phone: 262-781-0475(Tel) Email: mitcheld@kprginc.com Project Name: Powerton CCR Event Desc: Quarterly Powerton CCR Sampling Site: Illinois			500 229791 COC PWSID		Sampler: <u>Kaelyn Sparte</u> Lab PM: Mockler Diana J Carrier Tracking No(s) E-Mail: Diana.Mockler@et.eurofinsus.com State of Origin: <u>IL</u>		COC No: 500-109813-43259 1 Page: Page 1 of 1 Job #: <u>500-229791</u>																						
Due Date Requested: <u>standard</u> TAT Requested (days): <u>standard</u> Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No PO #: 4502081030 WO #: Project #: 50011612 SSOW#			Analysis Requested																										
Sample Identification			Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=tissue, A=air)	Field Filtered Sample (Yes or No)	Perforin MS/MSD (Yes or No)	903.0, 904.0	6020A, 7470A	2540C, 4590, F_C, SM4500, CLE	SM4500, SO4, E - Sulfate	9	10	Total Number of Containers	Preservation Codes	Special Instructions/Note.												
MW-01			2/22/23	1022	G	Water																							
MW-08			2/22/23	1141	↓	Water																							
						Water																							
						Water																							
						Water																							
						Water																							
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						Water																							
						Water																							
Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological			Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			Deliverable Requested I II, III IV Other (specify)												Special Instructions/QC Requirements											
Empty Kit Relinquished by: <u>Kaelyn Sparte</u>			Date: <u>2/23/23/1645</u>			Time: _____			Method of Shipment: _____																				
Relinquished by: <u>Kaelyn Sparte</u>			Date/Time: <u>2/23/23/1645</u>			Company: <u>KPRG</u>			Received by: <u>[Signature]</u>			Date/Time: <u>2/23/23/1645</u>			Company: <u>FedEx</u>														
Relinquished by: _____			Date/Time: _____			Company: _____			Received by: <u>[Signature]</u>			Date/Time: <u>2/23/23 0950</u>			Company: _____														
Relinquished by: _____			Date/Time: _____			Company: _____			Received by: _____			Date/Time: _____			Company: _____														
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No			Custody Seal No			Cooler Temperature(s) °C and Other Remarks: <u>110+14</u>																							

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Eurofins Chicago

2417 Bond Street
University Park, IL 60484
Phone 708-534-5200 Fax 708-534-5211



Chain of Custody Record

MKE 232

eurofins

Environment Testing

Client Information		500 229791 COC		Lab PM Mockler Diana J		Carrier Tracking No(s)		COC No: 500-109813-43259 1																																				
Client Contact: Kaelyn Sperle		Kaelyn Sperle		E-Mail Diana.Mockler@et.eurofins.com		State of Origin IL		Page Page 1 of 1																																				
Company KPRG and Associates, Inc.		PWSID:		Analysis Requested						Job # 500-229791																																		
Address: 14665 West Lisbon Road, Suite 1A		Due Date Requested: Standard		<table border="1"> <tr> <td rowspan="5">Field Filtered Sample (Yes or No)</td> <td rowspan="5">Perform MS/MSD (Yes or No)</td> <td rowspan="5">903.0, 904.0</td> <td rowspan="5">6020A, 7470A</td> <td rowspan="5">2540C, 4500_F_C, SIM4500_CL_E</td> <td rowspan="5">SIM4500_SO4_E - Sulfate</td> <td rowspan="5">Total Number of Containers</td> <td colspan="4">Preservation Codes</td> </tr> <tr> <td>A - HCL</td> <td>M Hexane</td> <td>N None</td> <td>O AsNaO2</td> </tr> <tr> <td>B NaOH</td> <td>P Na2O4S</td> <td>Q Na2SO3</td> <td>R Na2S2O3</td> </tr> <tr> <td>C - Zn Acetate</td> <td>S - H2SO4</td> <td>T TSP Dodecahydrate</td> <td>U Acetone</td> </tr> <tr> <td>D - Nitric Acid</td> <td>V MCAA</td> <td>W pH 4-5</td> <td>Y Trizma</td> </tr> <tr> <td>E - NaHSO4</td> <td>Z other (specify)</td> <td colspan="2">Other:</td> <td colspan="2"></td> </tr> </table>						Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0, 904.0	6020A, 7470A	2540C, 4500_F_C, SIM4500_CL_E	SIM4500_SO4_E - Sulfate	Total Number of Containers	Preservation Codes				A - HCL	M Hexane	N None	O AsNaO2	B NaOH	P Na2O4S	Q Na2SO3	R Na2S2O3	C - Zn Acetate	S - H2SO4	T TSP Dodecahydrate	U Acetone	D - Nitric Acid	V MCAA	W pH 4-5	Y Trizma	E - NaHSO4	Z other (specify)	Other:				Job #	
Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0, 904.0	6020A, 7470A														2540C, 4500_F_C, SIM4500_CL_E	SIM4500_SO4_E - Sulfate	Total Number of Containers	Preservation Codes																								
																				A - HCL	M Hexane	N None	O AsNaO2																					
																				B NaOH	P Na2O4S	Q Na2SO3	R Na2S2O3																					
																				C - Zn Acetate	S - H2SO4	T TSP Dodecahydrate	U Acetone																					
				D - Nitric Acid	V MCAA	W pH 4-5	Y Trizma																																					
E - NaHSO4	Z other (specify)	Other:																																										
City Brookfield		TAT Requested (days): Standard																																										
State, Zip WI 53005		Compliance Project. <input type="checkbox"/> Yes <input type="checkbox"/> No																																										
Phone: 262-781-0475(Tel)		PO #: 4502081030																																										
Email kaelyns@kprginc.com		WO #:																																										
Project Name: Powerton CCR Event Desc. Quarterly Powerton CCR Sampling		Project #: 50011612																																										
Site: Illinois		SSOVW#:																																										

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=TISSUE, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0, 904.0	6020A, 7470A	2540C, 4500_F_C, SIM4500_CL_E	SIM4500_SO4_E - Sulfate	Total Number of Containers	Special Instructions/Note
				Water								
				Water								
6 7 8 9 10	MW-09	2/23/23	1454	G	Water	N	N	X	X	X	X	
	MW-11	2/23/23	1336	↓	Water	N	N	X	X	X	X	
	MW-12	2/23/23	1218	↓	Water	N	N	X	X	X	X	
	MW-15	2/23/23	0843	↓	Water	N	N	X	X	X	X	
	MW-17	2/23/23	0939	G	Water	N	N	X	X	X	X	
				Water								
				Water								
				Water								
				Water								

Possible Hazard Identification				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological				<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Deliverable Requested I II, III IV Other (specify)				Special Instructions/QC Requirements			
Empty Kit Relinquished by		Date		Time		Method of Shipment:	
Relinquished by Kaelyn Sperle		Date/Time 2/23/23/1645		Company KPRG		Received by FedEx	
Relinquished by		Date/Time		Company		Date/Time 2/23/23/1645	
Relinquished by		Date/Time		Company		Date/Time 2/24/23 0950	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks (0.7-0.5)(0.9-1.1)			

WESTMONT, IL 60559
UNITED STATES US

TO EUROFINS CHICAGO
EUROFINS CHICAGO
2417 BOND ST

UNIVERSITY PARK IL 60484

(708) 634-6200

REF:

INU:

DEPT:

230200010318EXP 09/23



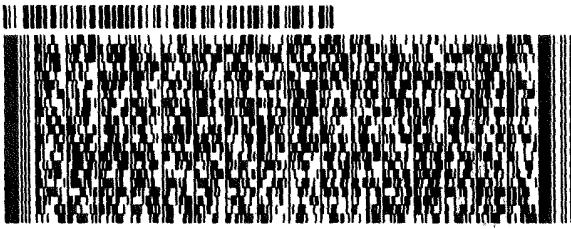
500-229791 Waybi

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Express



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PRIORITY OVERNIGHT

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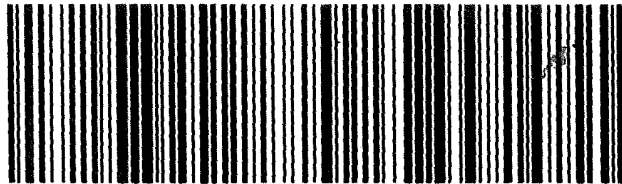
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ORIGIN ID:PIAA (262) 278-1621
KAELYN SPERLE
KPRG AND ASSOCIATES
414 PLAZA DR STE 106

SHIP DATE: 23FEB23
ACTWGT: 46.55 LB
CAD: 6994780/SSFE2401
DIMS: 24x13x14 IN

WESTMONT, IL 60559
UNITED STATES US

BILL THIRD PARTY

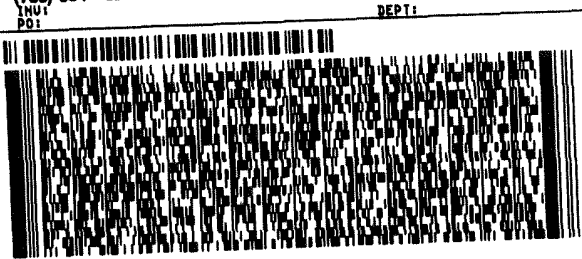
TO EUROFINS CHICAGO
EUROFINS CHICAGO
2417 BOND ST

UNIVERSITY PARK IL 60484

(708) 534-5200

REF:

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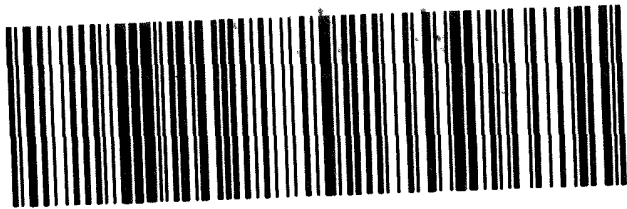
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6 of 6
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Mstr# 3949 9426 6488

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PRIORITY OVERNIGHT

XN JOTA *480t*

AHS
60484
IL-US ORD



Part # 156297 e35e/8082718XP 09/23

ORIGIN ID:PIAA (262) 278-1621
KAELYN SPERLE
KPRG AND ASSOCIATES
414 PLAZA DR STE 106

SHIP DATE: 23FEB23
ACTWGT: 46.55 LB
CAD: 6994780/SSFE2401
DIMS: 24x13x14 IN

WESTMONT, IL 60559
UNITED STATES US

BILL THIRD PARTY

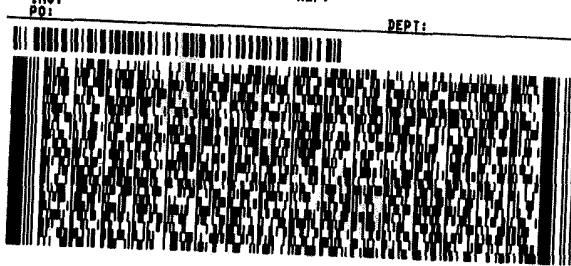
TO EUROFINS CHICAGO
EUROFINS CHICAGO
2417 BOND ST

UNIVERSITY PARK IL 60484

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3 of 6
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PRIORITY OVERNIGHT

XN JOTA *480t*

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Part # 156297 e35e/8082718XP 09/23



500-229791 Waybi

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Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-229791-1

Login Number: 229791

List Number: 1

Creator: Hernandez, Stephanie

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.1,1.4,0.5,-1.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Lab Chronicle

Client: KPRG and Associates, Inc.
 Project/Site: Powerton CCR - Quarterly

Job ID: 500-229791-1

Client Sample ID: MW-18
Date Collected: 02/21/23 14:48
Date Received: 02/22/23 09:55

Lab Sample ID: 500-229791-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			699812	RN	EET CHI	02/22/23 16:18 - 02/22/23 16:48 ¹
Total Recoverable	Analysis	6020A		1	699991	FXG	EET CHI	02/23/23 13:24
Total Recoverable	Prep	3005A			699812	RN	EET CHI	02/22/23 16:18 - 02/22/23 16:48 ¹
Total Recoverable	Analysis	6020A		1	699994	FXG	EET CHI	02/23/23 15:31
Total/NA	Prep	7470A			700696	MJG	EET CHI	03/01/23 11:25 - 03/01/23 13:25 ¹
Total/NA	Analysis	7470A		1	700909	MJG	EET CHI	03/02/23 08:55
Total/NA	Analysis	SM 2540C		1	699823	CLB	EET CHI	02/23/23 04:23
Total/NA	Analysis	SM 4500 CI- E		10	700692	LP	EET CHI	03/01/23 11:35
Total/NA	Analysis	SM 4500 F C		1	699977	EH	EET CHI	02/23/23 13:49
Total/NA	Analysis	SM 4500 SO4 E		10	700721	LP	EET CHI	03/01/23 13:12

Client Sample ID: MW-19
Date Collected: 02/21/23 13:36
Date Received: 02/22/23 09:55

Lab Sample ID: 500-229791-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			699812	RN	EET CHI	02/22/23 16:18 - 02/22/23 16:48 ¹
Total Recoverable	Analysis	6020A		1	699991	FXG	EET CHI	02/23/23 13:27
Total Recoverable	Prep	3005A			699812	RN	EET CHI	02/22/23 16:18 - 02/22/23 16:48 ¹
Total Recoverable	Analysis	6020A		1	699994	FXG	EET CHI	02/23/23 15:34
Total/NA	Prep	7470A			700696	MJG	EET CHI	03/01/23 11:25 - 03/01/23 13:25 ¹
Total/NA	Analysis	7470A		1	700909	MJG	EET CHI	03/02/23 08:57
Total/NA	Analysis	SM 2540C		1	699823	CLB	EET CHI	02/23/23 04:25
Total/NA	Analysis	SM 4500 CI- E		10	700692	LP	EET CHI	03/01/23 11:35
Total/NA	Analysis	SM 4500 F C		1	699977	EH	EET CHI	02/23/23 13:49
Total/NA	Analysis	SM 4500 SO4 E		10	700721	LP	EET CHI	03/01/23 13:13

Client Sample ID: Duplicate
Date Collected: 02/21/23 00:00
Date Received: 02/22/23 09:55

Lab Sample ID: 500-229791-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			699812	RN	EET CHI	02/22/23 16:18 - 02/22/23 16:48 ¹
Total Recoverable	Analysis	6020A		1	699991	FXG	EET CHI	02/23/23 13:30
Total Recoverable	Prep	3005A			699812	RN	EET CHI	02/22/23 16:18 - 02/22/23 16:48 ¹
Total Recoverable	Analysis	6020A		1	699994	FXG	EET CHI	02/23/23 15:38
Total/NA	Prep	7470A			700696	MJG	EET CHI	03/01/23 11:25 - 03/01/23 13:25 ¹
Total/NA	Analysis	7470A		1	700909	MJG	EET CHI	03/02/23 08:59
Total/NA	Analysis	SM 2540C		1	699823	CLB	EET CHI	02/23/23 04:28
Total/NA	Analysis	SM 4500 CI- E		10	700692	LP	EET CHI	03/01/23 11:35
Total/NA	Analysis	SM 4500 F C		1	699977	EH	EET CHI	02/23/23 13:49
Total/NA	Analysis	SM 4500 SO4 E		10	700721	LP	EET CHI	03/01/23 13:13

Lab Chronicle

Client: KPRG and Associates, Inc.
 Project/Site: Powerton CCR - Quarterly

Job ID: 500-229791-1

Client Sample ID: MW-01

Lab Sample ID: 500-229791-4

Date Collected: 02/22/23 10:22

Matrix: Water

Date Received: 02/23/23 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			700008	RN	EET CHI	02/23/23 16:26 - 02/23/23 16:56 ¹
Total Recoverable	Analysis	6020A		1	700200	FXG	EET CHI	02/24/23 13:16
Total/NA	Prep	7470A			700696	MJG	EET CHI	03/01/23 11:25 - 03/01/23 13:25 ¹
Total/NA	Analysis	7470A		1	700909	MJG	EET CHI	03/02/23 09:01
Total/NA	Analysis	SM 2540C		1	700037	CLB	EET CHI	02/24/23 02:32
Total/NA	Analysis	SM 4500 CI- E		5	700692	LP	EET CHI	03/01/23 11:35
Total/NA	Analysis	SM 4500 F C		1	700591	EH	EET CHI	02/28/23 14:13
Total/NA	Analysis	SM 4500 SO4 E		5	700721	LP	EET CHI	03/01/23 13:13

Client Sample ID: MW-08

Lab Sample ID: 500-229791-5

Date Collected: 02/22/23 11:41

Matrix: Water

Date Received: 02/23/23 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			700008	RN	EET CHI	02/23/23 16:26 - 02/23/23 16:56 ¹
Total Recoverable	Analysis	6020A		1	700200	FXG	EET CHI	02/24/23 13:19
Total/NA	Prep	7470A			700696	MJG	EET CHI	03/01/23 11:25 - 03/01/23 13:25 ¹
Total/NA	Analysis	7470A		1	700909	MJG	EET CHI	03/02/23 09:04
Total/NA	Analysis	SM 2540C		1	700037	CLB	EET CHI	02/24/23 02:35
Total/NA	Analysis	SM 4500 CI- E		20	700692	LP	EET CHI	03/01/23 11:36
Total/NA	Analysis	SM 4500 F C		1	700591	EH	EET CHI	02/28/23 14:13
Total/NA	Analysis	SM 4500 SO4 E		5	700721	LP	EET CHI	03/01/23 13:14

Client Sample ID: MW-09

Lab Sample ID: 500-229791-6

Date Collected: 02/23/23 14:54

Matrix: Water

Date Received: 02/24/23 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			700282	BDE	EET CHI	02/27/23 08:21 - 02/27/23 08:51 ¹
Total Recoverable	Analysis	6020A		1	700664	FXG	EET CHI	02/28/23 17:53
Total Recoverable	Prep	3005A			700282	BDE	EET CHI	02/27/23 08:21 - 02/27/23 08:51 ¹
Total Recoverable	Analysis	6020A		10	700848	FXG	EET CHI	03/01/23 13:25
Total/NA	Prep	7470A			700696	MJG	EET CHI	03/01/23 11:25 - 03/01/23 13:25 ¹
Total/NA	Analysis	7470A		1	700909	MJG	EET CHI	03/02/23 09:06
Total/NA	Analysis	SM 2540C		1	700232	CLB	EET CHI	02/27/23 05:04
Total/NA	Analysis	SM 4500 CI- E		1	700692	LP	EET CHI	03/01/23 11:36
Total/NA	Analysis	SM 4500 F C		1	700911	EH	EET CHI	03/02/23 13:02
Total/NA	Analysis	SM 4500 SO4 E		10	700721	LP	EET CHI	03/01/23 13:14

Lab Chronicle

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR - Quarterly

Job ID: 500-229791-1

Client Sample ID: MW-11

Date Collected: 02/23/23 13:36

Date Received: 02/24/23 09:50

Lab Sample ID: 500-229791-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			700282	BDE	EET CHI	02/27/23 08:21 - 02/27/23 08:51 ¹
Total Recoverable	Analysis	6020A		1	700664	FXG	EET CHI	02/28/23 17:57
Total Recoverable	Prep	3005A			700282	BDE	EET CHI	02/27/23 08:21 - 02/27/23 08:51 ¹
Total Recoverable	Analysis	6020A		10	700848	FXG	EET CHI	03/01/23 13:28
Total/NA	Prep	7470A			700696	MJG	EET CHI	03/01/23 11:25 - 03/01/23 13:25 ¹
Total/NA	Analysis	7470A		1	700909	MJG	EET CHI	03/02/23 09:08
Total/NA	Analysis	SM 2540C		1	700232	CLB	EET CHI	02/27/23 05:07
Total/NA	Analysis	SM 4500 CI- E		10	700692	LP	EET CHI	03/01/23 11:37
Total/NA	Analysis	SM 4500 F C		1	700911	EH	EET CHI	03/02/23 13:02
Total/NA	Analysis	SM 4500 SO4 E		10	700721	LP	EET CHI	03/01/23 12:54

Client Sample ID: MW-12

Date Collected: 02/23/23 12:18

Date Received: 02/24/23 09:50

Lab Sample ID: 500-229791-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			700282	BDE	EET CHI	02/27/23 08:21 - 02/27/23 08:51 ¹
Total Recoverable	Analysis	6020A		1	700664	FXG	EET CHI	02/28/23 18:00
Total Recoverable	Prep	3005A			700282	BDE	EET CHI	02/27/23 08:21 - 02/27/23 08:51 ¹
Total Recoverable	Analysis	6020A		1	700848	FXG	EET CHI	03/01/23 13:32
Total/NA	Prep	7470A			700696	MJG	EET CHI	03/01/23 11:25 - 03/01/23 13:25 ¹
Total/NA	Analysis	7470A		1	700909	MJG	EET CHI	03/02/23 09:37
Total/NA	Analysis	SM 2540C		1	700232	CLB	EET CHI	02/27/23 05:10
Total/NA	Analysis	SM 4500 CI- E		10	700692	LP	EET CHI	03/01/23 11:37
Total/NA	Analysis	SM 4500 F C		1	700911	EH	EET CHI	03/02/23 13:02
Total/NA	Analysis	SM 4500 SO4 E		20	700721	LP	EET CHI	03/01/23 12:55

Client Sample ID: MW-15

Date Collected: 02/23/23 08:43

Date Received: 02/24/23 09:50

Lab Sample ID: 500-229791-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			700282	BDE	EET CHI	02/27/23 08:21 - 02/27/23 08:51 ¹
Total Recoverable	Analysis	6020A		1	700664	FXG	EET CHI	02/28/23 18:04
Total Recoverable	Prep	3005A			700282	BDE	EET CHI	02/27/23 08:21 - 02/27/23 08:51 ¹
Total Recoverable	Analysis	6020A		5	700848	FXG	EET CHI	03/01/23 13:35
Total/NA	Prep	7470A			700696	MJG	EET CHI	03/01/23 11:25 - 03/01/23 13:25 ¹
Total/NA	Analysis	7470A		1	700909	MJG	EET CHI	03/02/23 09:39
Total/NA	Analysis	SM 2540C		1	700232	CLB	EET CHI	02/27/23 05:12
Total/NA	Analysis	SM 4500 CI- E		10	700692	LP	EET CHI	03/01/23 11:37
Total/NA	Analysis	SM 4500 F C		1	700911	EH	EET CHI	03/02/23 13:02
Total/NA	Analysis	SM 4500 SO4 E		50	700721	LP	EET CHI	03/01/23 12:55

Lab Chronicle

Client: KPRG and Associates, Inc.
 Project/Site: Powerton CCR - Quarterly

Job ID: 500-229791-1

Client Sample ID: MW-17

Lab Sample ID: 500-229791-10

Date Collected: 02/23/23 09:39

Matrix: Water

Date Received: 02/24/23 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			700282	BDE	EET CHI	02/27/23 08:21 - 02/27/23 08:51 ¹
Total Recoverable	Analysis	6020A		1	700664	FXG	EET CHI	02/28/23 18:07
Total Recoverable	Prep	3005A			700282	BDE	EET CHI	02/27/23 08:21 - 02/27/23 08:51 ¹
Total Recoverable	Analysis	6020A		5	700848	FXG	EET CHI	03/01/23 13:38
Total/NA	Prep	7470A			700696	MJG	EET CHI	03/01/23 11:25 - 03/01/23 13:25 ¹
Total/NA	Analysis	7470A		1	700909	MJG	EET CHI	03/02/23 09:53
Total/NA	Analysis	SM 2540C		1	700232	CLB	EET CHI	02/27/23 05:15
Total/NA	Analysis	SM 4500 Cl- E		10	700692	LP	EET CHI	03/01/23 11:51
Total/NA	Analysis	SM 4500 F C		1	700911	EH	EET CHI	03/02/23 13:02
Total/NA	Analysis	SM 4500 SO4 E		50	700721	LP	EET CHI	03/01/23 12:56

¹ Completion dates and times are reported or not reported per method requirements or individual lab discretion.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200



Accreditation/Certification Summary

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR - Quarterly

Job ID: 500-229791-1

Laboratory: Eurofins Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-23

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ANALYTICAL REPORT

PREPARED FOR

Attn: Richard Gnat
KPRG and Associates, Inc.
14665 West Lisbon Road,
Suite 1A
Brookfield, Wisconsin 53005

Generated 3/24/2023 9:10:35 AM

JOB DESCRIPTION

Powerton CCR - Quarterly (RAD)

JOB NUMBER

500-229791-2

Eurofins Chicago

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

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

Authorization



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Authorized for release by
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Case Narrative

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR - Quarterly (RAD)

Job ID: 500-229791-2

Job ID: 500-229791-2

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-229791-2

Comments

No additional comments.

Receipt

The samples were received on 2/22/2023 9:55 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were -1.1° C, 0.5° C, 1.1° C and 1.4° C.

RAD

Methods 903.0, 9315: Radium-226 batch 601539

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

MW-18 (500-229791-1), MW-19 (500-229791-2), Duplicate (500-229791-3), (LCS 160-601539/2-A), (MB 160-601539/1-A) and (500-229791-E-3-A DU)

Method 903.0: Radium-226 batch 601827

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

MW-01 (500-229791-4), MW-08 (500-229791-5), (LCS 160-601827/2-A), (MB 160-601827/1-A), (500-229829-E-11-A) and (500-229829-C-11-A DU)

Method 903.0: Radium-226 batch 602034

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

MW-09 (500-229791-6), MW-11 (500-229791-7), MW-12 (500-229791-8), MW-15 (500-229791-9), MW-17 (500-229791-10), (LCS 160-602034/2-A), (MB 160-602034/1-A), (680-230903-E-1-A), (680-230903-E-1-B MS) and (680-230903-E-1-C MSD)

Methods 904.0, 9320: Radium-228 prep batch 160-601540:

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

MW-18 (500-229791-1), MW-19 (500-229791-2), Duplicate (500-229791-3), (LCS 160-601540/2-A), (MB 160-601540/1-A) and (500-229791-E-3-B DU)

Method 904.0: Radium-228 prep batch 160-602036:

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

MW-09 (500-229791-6), MW-11 (500-229791-7), MW-12 (500-229791-8), MW-15 (500-229791-9), MW-17 (500-229791-10), (LCS 160-602036/2-A), (MB 160-602036/1-A), (680-230903-E-1-D), (680-230903-E-1-E MS) and (680-230903-E-1-F MSD)

Method 904.0: Radium-228 batch 601828

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

MW-01 (500-229791-4), MW-08 (500-229791-5), (LCS 160-601828/2-A), (MB 160-601828/1-A), (500-229829-E-11-B) and (500-229829-C-11-B DU)

Case Narrative

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR - Quarterly (RAD)

Job ID: 500-229791-2

Job ID: 500-229791-2 (Continued)

Laboratory: Eurofins Chicago (Continued)

Method PrecSep_0:

Method PrecSep-21:

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

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Method Summary

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR - Quarterly (RAD)

Job ID: 500-229791-2

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

Protocol References:

EPA = US Environmental Protection Agency

None = None

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

Laboratory References:

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



Sample Summary

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR - Quarterly (RAD)

Job ID: 500-229791-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-229791-1	MW-18	Water	02/21/23 14:48	02/22/23 09:55
500-229791-2	MW-19	Water	02/21/23 13:36	02/22/23 09:55
500-229791-3	Duplicate	Water	02/21/23 00:00	02/22/23 09:55
500-229791-4	MW-01	Water	02/22/23 10:22	02/23/23 09:50
500-229791-5	MW-08	Water	02/22/23 11:41	02/23/23 09:50
500-229791-6	MW-09	Water	02/23/23 14:54	02/24/23 09:50
500-229791-7	MW-11	Water	02/23/23 13:36	02/24/23 09:50
500-229791-8	MW-12	Water	02/23/23 12:18	02/24/23 09:50
500-229791-9	MW-15	Water	02/23/23 08:43	02/24/23 09:50
500-229791-10	MW-17	Water	02/23/23 09:39	02/24/23 09:50

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Client Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Powerton CCR - Quarterly (RAD)

Job ID: 500-229791-2

Client Sample ID: MW-18
Date Collected: 02/21/23 14:48
Date Received: 02/22/23 09:55

Lab Sample ID: 500-229791-1
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.225		0.116	0.118	1.00	0.142	pCi/L	02/24/23 10:00	03/20/23 06:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.3		30 - 110					02/24/23 10:00	03/20/23 06:43	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.33		0.634	0.646	1.00	0.878	pCi/L	02/24/23 10:32	03/03/23 11:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.3		30 - 110					02/24/23 10:32	03/03/23 11:57	1
Y Carrier	87.1		30 - 110					02/24/23 10:32	03/03/23 11:57	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.55		0.645	0.657	5.00	0.878	pCi/L		03/23/23 17:07	1

Client Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Powerton CCR - Quarterly (RAD)

Job ID: 500-229791-2

Client Sample ID: MW-19

Lab Sample ID: 500-229791-2

Date Collected: 02/21/23 13:36

Matrix: Water

Date Received: 02/22/23 09:55

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.113		0.0699	0.0707	1.00	0.0892	pCi/L	02/24/23 10:01	03/20/23 06:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.1		30 - 110					02/24/23 10:01	03/20/23 06:43	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.318	U	0.327	0.329	1.00	0.528	pCi/L	02/24/23 10:32	03/03/23 11:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.1		30 - 110					02/24/23 10:32	03/03/23 11:57	1
Y Carrier	84.9		30 - 110					02/24/23 10:32	03/03/23 11:57	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.432	U	0.334	0.337	5.00	0.528	pCi/L		03/23/23 17:07	1

Client Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Powerton CCR - Quarterly (RAD)

Job ID: 500-229791-2

Client Sample ID: Duplicate

Lab Sample ID: 500-229791-3

Date Collected: 02/21/23 00:00

Matrix: Water

Date Received: 02/22/23 09:55

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.114		0.0744	0.0751	1.00	0.103	pCi/L	02/24/23 10:01	03/20/23 06:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.4		30 - 110					02/24/23 10:01	03/20/23 06:43	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.470		0.302	0.305	1.00	0.437	pCi/L	02/24/23 10:32	03/03/23 11:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.4		30 - 110					02/24/23 10:32	03/03/23 11:57	1
Y Carrier	85.2		30 - 110					02/24/23 10:32	03/03/23 11:57	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.584		0.311	0.314	5.00	0.437	pCi/L		03/23/23 17:07	1

Client Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Powerton CCR - Quarterly (RAD)

Job ID: 500-229791-2

Client Sample ID: MW-01
Date Collected: 02/22/23 10:22
Date Received: 02/23/23 09:50

Lab Sample ID: 500-229791-4
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0806	U	0.0814	0.0817	1.00	0.129	pCi/L	02/28/23 09:01	03/22/23 20:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.7		30 - 110					02/28/23 09:01	03/22/23 20:50	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0692	U	0.286	0.286	1.00	0.523	pCi/L	02/28/23 09:47	03/08/23 12:01	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.7		30 - 110					02/28/23 09:47	03/08/23 12:01	1
Y Carrier	83.7		30 - 110					02/28/23 09:47	03/08/23 12:01	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.150	U	0.297	0.297	5.00	0.523	pCi/L		03/23/23 14:26	1

Client Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Powerton CCR - Quarterly (RAD)

Job ID: 500-229791-2

Client Sample ID: MW-08
Date Collected: 02/22/23 11:41
Date Received: 02/23/23 09:50

Lab Sample ID: 500-229791-5
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.210		0.0991	0.101	1.00	0.125	pCi/L	02/28/23 09:01	03/22/23 20:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.2		30 - 110					02/28/23 09:01	03/22/23 20:50	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.466	U	0.328	0.331	1.00	0.494	pCi/L	02/28/23 09:47	03/08/23 12:01	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.2		30 - 110					02/28/23 09:47	03/08/23 12:01	1
Y Carrier	87.1		30 - 110					02/28/23 09:47	03/08/23 12:01	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.676		0.343	0.346	5.00	0.494	pCi/L		03/23/23 14:26	1

Client Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Powerton CCR - Quarterly (RAD)

Job ID: 500-229791-2

Client Sample ID: MW-09

Lab Sample ID: 500-229791-6

Date Collected: 02/23/23 14:54

Matrix: Water

Date Received: 02/24/23 09:50

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0836		0.0559	0.0564	1.00	0.0690	pCi/L	03/01/23 09:47	03/23/23 08:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.1		30 - 110					03/01/23 09:47	03/23/23 08:00	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.484	U	0.393	0.395	1.00	0.614	pCi/L	03/01/23 10:09	03/06/23 12:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.1		30 - 110					03/01/23 10:09	03/06/23 12:11	1
Y Carrier	83.7		30 - 110					03/01/23 10:09	03/06/23 12:11	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.568	U	0.397	0.399	5.00	0.614	pCi/L		03/23/23 14:09	1

Client Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Powerton CCR - Quarterly (RAD)

Job ID: 500-229791-2

Client Sample ID: MW-11

Lab Sample ID: 500-229791-7

Date Collected: 02/23/23 13:36

Matrix: Water

Date Received: 02/24/23 09:50

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.188		0.0878	0.0894	1.00	0.0907	pCi/L	03/01/23 09:47	03/23/23 08:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	69.2		30 - 110					03/01/23 09:47	03/23/23 08:00	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.746		0.445	0.450	1.00	0.636	pCi/L	03/01/23 10:09	03/06/23 12:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	69.2		30 - 110					03/01/23 10:09	03/06/23 12:11	1
Y Carrier	81.5		30 - 110					03/01/23 10:09	03/06/23 12:11	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.934		0.454	0.459	5.00	0.636	pCi/L		03/23/23 14:09	1

Client Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Powerton CCR - Quarterly (RAD)

Job ID: 500-229791-2

Client Sample ID: MW-12
Date Collected: 02/23/23 12:18
Date Received: 02/24/23 09:50

Lab Sample ID: 500-229791-8
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0860	U	0.0717	0.0721	1.00	0.104	pCi/L	03/01/23 09:47	03/23/23 08:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	68.6		30 - 110					03/01/23 09:47	03/23/23 08:00	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.571	U	0.543	0.546	1.00	0.874	pCi/L	03/01/23 10:09	03/06/23 12:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	68.6		30 - 110					03/01/23 10:09	03/06/23 12:11	1
Y Carrier	83.4		30 - 110					03/01/23 10:09	03/06/23 12:11	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.657	U	0.548	0.551	5.00	0.874	pCi/L		03/23/23 14:09	1

Client Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Powerton CCR - Quarterly (RAD)

Job ID: 500-229791-2

Client Sample ID: MW-15
Date Collected: 02/23/23 08:43
Date Received: 02/24/23 09:50

Lab Sample ID: 500-229791-9
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.129		0.0834	0.0842	1.00	0.113	pCi/L	03/01/23 09:47	03/23/23 08:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.8		30 - 110					03/01/23 09:47	03/23/23 08:00	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.528	U	0.417	0.420	1.00	0.646	pCi/L	03/01/23 10:09	03/06/23 12:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.8		30 - 110					03/01/23 10:09	03/06/23 12:14	1
Y Carrier	82.6		30 - 110					03/01/23 10:09	03/06/23 12:14	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.657		0.425	0.428	5.00	0.646	pCi/L		03/23/23 14:09	1

Client Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Powerton CCR - Quarterly (RAD)

Job ID: 500-229791-2

Client Sample ID: MW-17
Date Collected: 02/23/23 09:39
Date Received: 02/24/23 09:50

Lab Sample ID: 500-229791-10
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0567	U	0.0552	0.0555	1.00	0.0844	pCi/L	03/01/23 09:47	03/23/23 08:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.0		30 - 110					03/01/23 09:47	03/23/23 08:00	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.466	U	0.374	0.376	1.00	0.583	pCi/L	03/01/23 10:09	03/06/23 12:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.0		30 - 110					03/01/23 10:09	03/06/23 12:14	1
Y Carrier	84.5		30 - 110					03/01/23 10:09	03/06/23 12:14	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.523	U	0.378	0.380	5.00	0.583	pCi/L		03/23/23 14:09	1

Definitions/Glossary

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR - Quarterly (RAD)

Job ID: 500-229791-2

Qualifiers

Rad

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

Glossary

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

QC Association Summary

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR - Quarterly (RAD)

Job ID: 500-229791-2

Rad

Prep Batch: 601539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-229791-1	MW-18	Total/NA	Water	PrecSep-21	
500-229791-2	MW-19	Total/NA	Water	PrecSep-21	
500-229791-3	Duplicate	Total/NA	Water	PrecSep-21	
MB 160-601539/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-601539/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-229791-3 DU	Duplicate	Total/NA	Water	PrecSep-21	

Prep Batch: 601540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-229791-1	MW-18	Total/NA	Water	PrecSep_0	
500-229791-2	MW-19	Total/NA	Water	PrecSep_0	
500-229791-3	Duplicate	Total/NA	Water	PrecSep_0	
MB 160-601540/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-601540/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-229791-3 DU	Duplicate	Total/NA	Water	PrecSep_0	

Prep Batch: 601827

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-229791-4	MW-01	Total/NA	Water	PrecSep-21	
500-229791-5	MW-08	Total/NA	Water	PrecSep-21	
MB 160-601827/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-601827/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 601828

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-229791-4	MW-01	Total/NA	Water	PrecSep_0	
500-229791-5	MW-08	Total/NA	Water	PrecSep_0	
MB 160-601828/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-601828/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Prep Batch: 602034

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-229791-6	MW-09	Total/NA	Water	PrecSep-21	
500-229791-7	MW-11	Total/NA	Water	PrecSep-21	
500-229791-8	MW-12	Total/NA	Water	PrecSep-21	
500-229791-9	MW-15	Total/NA	Water	PrecSep-21	
500-229791-10	MW-17	Total/NA	Water	PrecSep-21	
MB 160-602034/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-602034/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 602036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-229791-6	MW-09	Total/NA	Water	PrecSep_0	
500-229791-7	MW-11	Total/NA	Water	PrecSep_0	
500-229791-8	MW-12	Total/NA	Water	PrecSep_0	
500-229791-9	MW-15	Total/NA	Water	PrecSep_0	
500-229791-10	MW-17	Total/NA	Water	PrecSep_0	
MB 160-602036/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-602036/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

QC Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Powerton CCR - Quarterly (RAD)

Job ID: 500-229791-2

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-601539/1-A
Matrix: Water
Analysis Batch: 604349

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 601539

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	-0.01293	U	0.0321	0.0322	1.00	0.0789	pCi/L	02/24/23 10:00	03/20/23 06:35	1
Carrier	MB		Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	%Yield	MB Qualifier	30 - 110					02/24/23 10:00	03/20/23 06:35	1
	96.6									

Lab Sample ID: LCS 160-601539/2-A
Matrix: Water
Analysis Batch: 604349

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 601539

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits	
				Uncert. (2σ+/-)						
Radium-226	11.3	12.43		1.25	1.00	0.0740	pCi/L	110	75 - 125	
Carrier	LCS	LCS								
Ba Carrier	%Yield	Qualifier	Limits							
	94.4		30 - 110							

Lab Sample ID: 500-229791-3 DU
Matrix: Water
Analysis Batch: 604351

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 601539

Analyte	Sample		DU		Total	RL	MDC	Unit	RER	RER Limit
	Result	Sample Qual	Result	DU Qual	Uncert. (2σ+/-)					
Radium-226	0.114		0.09145	U	0.0811	1.00	0.124	pCi/L	0.15	1
Carrier	DU	DU								
Ba Carrier	%Yield	Qualifier	Limits							
	91.5		30 - 110							

Lab Sample ID: MB 160-601827/1-A
Matrix: Water
Analysis Batch: 604715

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 601827

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.008821	U	0.0567	0.0567	1.00	0.110	pCi/L	02/28/23 09:01	03/22/23 10:18	1
Carrier	MB		Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	%Yield	MB Qualifier	30 - 110					02/28/23 09:01	03/22/23 10:18	1
	89.5									

Lab Sample ID: LCS 160-601827/2-A
Matrix: Water
Analysis Batch: 604715

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 601827

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	12.40		1.26	1.00	0.107	pCi/L	109	75 - 125

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QC Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Powerton CCR - Quarterly (RAD)

Job ID: 500-229791-2

Method: 903.0 - Radium-226 (GFPC) (Continued)

Lab Sample ID: LCS 160-601827/2-A
Matrix: Water
Analysis Batch: 604715

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 601827

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	88.4		30 - 110

Lab Sample ID: MB 160-602034/1-A
Matrix: Water
Analysis Batch: 604790

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 602034

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.03605	U	0.0486	0.0487	1.00	0.0816	pCi/L	03/01/23 09:47	03/23/23 07:54	1

	MB	MB	Limits	Prepared	Analyzed	Dil Fac
Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	88.7		30 - 110	03/01/23 09:47	03/23/23 07:54	1

Lab Sample ID: LCS 160-602034/2-A
Matrix: Water
Analysis Batch: 604790

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 602034

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	11.64		1.18	1.00	0.0735	pCi/L	103	75 - 125

	LCS	LCS	Limits
Carrier	%Yield	Qualifier	Limits
Ba Carrier	92.7		30 - 110

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-601540/1-A
Matrix: Water
Analysis Batch: 602334

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 601540

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.05622	U	0.225	0.226	1.00	0.413	pCi/L	02/24/23 10:32	03/03/23 11:50	1

	MB	MB	Limits	Prepared	Analyzed	Dil Fac
Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	96.6		30 - 110	02/24/23 10:32	03/03/23 11:50	1
Y Carrier	88.2		30 - 110	02/24/23 10:32	03/03/23 11:50	1

Lab Sample ID: LCS 160-601540/2-A
Matrix: Water
Analysis Batch: 602334

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 601540

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-228	8.15	9.414		1.25	1.00	0.503	pCi/L	116	75 - 125

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QC Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Powerton CCR - Quarterly (RAD)

Job ID: 500-229791-2

Method: 904.0 - Radium-228 (GFPC) (Continued)

Lab Sample ID: LCS 160-601540/2-A
Matrix: Water
Analysis Batch: 602334

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 601540

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	94.4		30 - 110
Y Carrier	87.9		30 - 110

Lab Sample ID: 500-229791-3 DU
Matrix: Water
Analysis Batch: 602335

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 601540

Analyte	Sample		DU		Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	Limit
	Result	Qual	Result	Qual						
Radium-228	0.470		0.3217	U	0.300	1.00	0.474	pCi/L	0.24	1

	DU	DU	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	91.5		30 - 110
Y Carrier	94.2		30 - 110

Lab Sample ID: MB 160-601828/1-A
Matrix: Water
Analysis Batch: 602826

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 601828

Analyte	MB		Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier								
Radium-228	0.1520	U	0.310	0.310	1.00	0.540	pCi/L	02/28/23 09:47	03/08/23 12:08	1

	MB	MB	Limits	Prepared	Analyzed	Dil Fac
Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	89.5		30 - 110	02/28/23 09:47	03/08/23 12:08	1
Y Carrier	83.7		30 - 110	02/28/23 09:47	03/08/23 12:08	1

Lab Sample ID: LCS 160-601828/2-A
Matrix: Water
Analysis Batch: 602861

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 601828

Analyte	Spike Added	LCS		Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
		Result	Qual						
Radium-228	8.13	9.861		1.32	1.00	0.512	pCi/L	121	75 - 125

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	88.4		30 - 110
Y Carrier	85.2		30 - 110

Lab Sample ID: MB 160-602036/1-A
Matrix: Water
Analysis Batch: 602566

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 602036

Analyte	MB		Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier								
Radium-228	0.03918	U	0.338	0.338	1.00	0.613	pCi/L	03/01/23 10:09	03/06/23 12:09	1

Euofins Chicago

QC Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Powerton CCR - Quarterly (RAD)

Job ID: 500-229791-2

Method: 904.0 - Radium-228 (GFPC) (Continued)

Lab Sample ID: MB 160-602036/1-A
Matrix: Water
Analysis Batch: 602566

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 602036

Carrier	MB MB		Limits
	%Yield	Qualifier	
Ba Carrier	88.7		30 - 110
Y Carrier	84.9		30 - 110

Prepared	Analyzed	Dil Fac
03/01/23 10:09	03/06/23 12:09	1
03/01/23 10:09	03/06/23 12:09	1

Lab Sample ID: LCS 160-602036/2-A
Matrix: Water
Analysis Batch: 602566

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 602036

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec
									Limits
Radium-228	8.14	9.742		1.30	1.00	0.487	pCi/L	120	75 - 125

Carrier	LCS LCS		Limits
	%Yield	Qualifier	
Ba Carrier	92.7		30 - 110
Y Carrier	84.5		30 - 110

WESTMONT, IL 60559
UNITED STATES US

TO EUROFINS CHICAGO
EUROFINS CHICAGO
2417 BOND ST

UNIVERSITY PARK IL 60484

(708) 634-6200

REF:

INU:

DEPT:

230200010318EXP 09/23



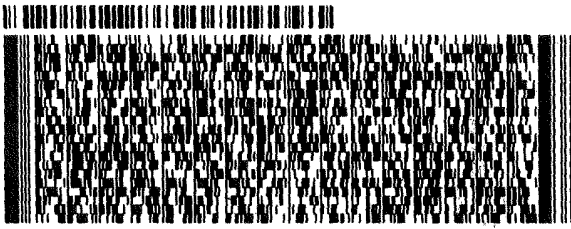
500-229791 Waybi

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WED - 22 FEB 10:30A
PRIORITY OVERNIGHT

MPS# 3948 9886 1783
0263

Mstr# 3948 9886 1761

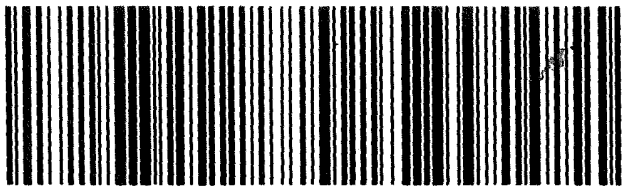
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ORIGIN ID:PIAA (262) 278-1621
KAELYN SPERLE
KPRG AND ASSOCIATES
414 PLAZA DR STE 106

SHIP DATE: 23FEB23
ACTWGT: 46.55 LB
CAD: 6994780/SSFE2401
DIMS: 24x13x14 IN

WESTMONT, IL 60559
UNITED STATES US

BILL THIRD PARTY

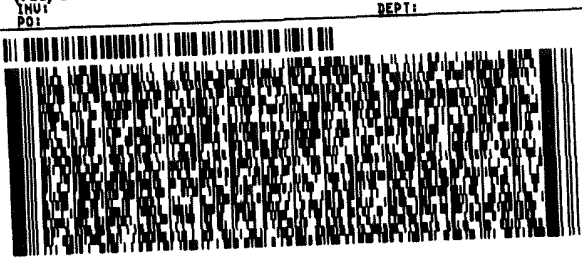
TO EUROFINS CHICAGO
EUROFINS CHICAGO
2417 BOND ST

UNIVERSITY PARK IL 60484

(708) 534-5200

REF:

DEPT:



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6 of 6
MPS# 3949 9426 6536
0263
Mstr# 3949 9426 6488

FRI - 24 FEB 10:30A
PRIORITY OVERNIGHT

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Part # 156297 e35e/8202718P 09/23

ORIGIN ID:PIAA (262) 278-1621
KAELYN SPERLE
KPRG AND ASSOCIATES
414 PLAZA DR STE 106

SHIP DATE: 23FEB23
ACTWGT: 46.55 LB
CAD: 6994780/SSFE2401
DIMS: 24x13x14 IN

WESTMONT, IL 60559
UNITED STATES US

BILL THIRD PARTY

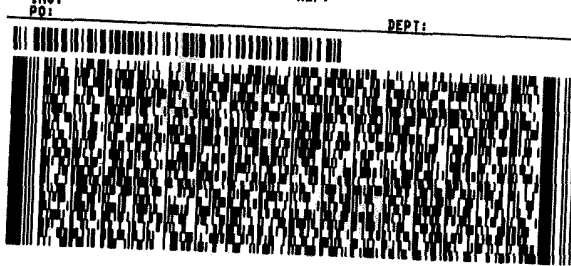
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EUROFINS CHICAGO
2417 BOND ST

UNIVERSITY PARK IL 60484

(708) 534-5200

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FedEx
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MA1011108201E2F

3 of 6
MPS# 3949 9426 6503
0263
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FRI - 24 FEB 10:30A
PRIORITY OVERNIGHT

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Part # 156297 e35e/8202718P 09/23



500-229791 Waybill

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Chain of Custody Record



Client Information (Sub Contract Lab)		Lab PM: Mockler, Diana J	Carrier Tracking No(s): 500-171204.1
Client Contact: Shipping/Receiving		E-Mail: Diana.Mockler@et.eurofins.com	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois	Job #: 500-229791-1
Address: 13715 Rider Trail North, City: Earth City State, Zip: MO, 63045 Phone: 314-298-8566(Tel) 314-298-8757(Fax) Email:		Due Date Requested: 3/14/2023 TAT Requested (days):	Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify) Other:
Project Name: Powerton CCR - Quarterly Site: MWG - Powerton		PO #: WO #: Project #: 50011612 SSOW#:	Analysis Requested
Sample Identification - Client ID (Lab ID)		Field Filtered Sample (Yes or No)	Total Number of Containers
MW-09 (500-229791-6)	Sample Date: 2/23/23 Sample Time: 14:54 Central	903.0/PreSep_21 Standard Target List	3
MW-11 (500-229791-7)	Sample Date: 2/23/23 Sample Time: 13:36 Central	904.0/PreSep_0 Standard Target List	3
MW-12 (500-229791-8)	Sample Date: 2/23/23 Sample Time: 12:18 Central	Ra226Ra228_GFPc	3
MW-15 (500-229791-9)	Sample Date: 2/23/23 Sample Time: 08:43 Central		3
MW-17 (500-229791-10)	Sample Date: 2/23/23 Sample Time: 09:39 Central		3
Special Instructions/Note: Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no			

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/testis/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2
 Empty Kit Relinquished by: _____ Date: _____
 Relinquished by: *Stephanie Hemminger* Date/Time: 2/24/23 1600
 Relinquished by: **FED EX** Date/Time: _____
 Relinquished by: _____ Date/Time: _____
 Custody Seals Intact: _____ Custody Seal No.: _____
 Δ Yes Δ No

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months
 Special Instructions/QC Requirements: _____
 Method of Shipment: _____
 Received by: *Sara Weathering* Date/Time: FEB 27 2023 0855
 Received by: _____ Date/Time: _____
 Cooler Temperature(s) °C and Other Remarks: _____



Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-229791-2

Login Number: 229791

List Source: Eurofins Chicago

List Number: 1

Creator: Hernandez, Stephanie

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.1,1.4,0.5,-1.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-229791-2

Login Number: 229791

List Number: 2

Creator: Sharkey-Gonzalez, Briana L

List Source: Eurofins St. Louis

List Creation: 02/23/23 12:05 PM

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

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-229791-2

Login Number: 229791

List Number: 3

Creator: Sharkey-Gonzalez, Briana L

List Source: Eurofins St. Louis

List Creation: 02/27/23 12:20 PM

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



Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-229791-2

Login Number: 229791

List Number: 4

Creator: Worthington, Sierra M

List Source: Eurofins St. Louis

List Creation: 02/28/23 10:05 AM

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

Lab Chronicle

Client: KPRG and Associates, Inc.
 Project/Site: Powerton CCR - Quarterly (RAD)

Job ID: 500-229791-2

Client Sample ID: MW-18
Date Collected: 02/21/23 14:48
Date Received: 02/22/23 09:55

Lab Sample ID: 500-229791-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			601539	DJP	EET SL	02/24/23 10:00
Total/NA	Analysis	903.0		1	604351	FLC	EET SL	03/20/23 06:43
Total/NA	Prep	PrecSep_0			601540	DJP	EET SL	02/24/23 10:32
Total/NA	Analysis	904.0		1	602335	SCB	EET SL	03/03/23 11:57
Total/NA	Analysis	Ra226_Ra228		1	604835	SCB	EET SL	03/23/23 17:07

Client Sample ID: MW-19
Date Collected: 02/21/23 13:36
Date Received: 02/22/23 09:55

Lab Sample ID: 500-229791-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			601539	DJP	EET SL	02/24/23 10:01
Total/NA	Analysis	903.0		1	604351	FLC	EET SL	03/20/23 06:43
Total/NA	Prep	PrecSep_0			601540	DJP	EET SL	02/24/23 10:32
Total/NA	Analysis	904.0		1	602335	SCB	EET SL	03/03/23 11:57
Total/NA	Analysis	Ra226_Ra228		1	604835	SCB	EET SL	03/23/23 17:07

Client Sample ID: Duplicate
Date Collected: 02/21/23 00:00
Date Received: 02/22/23 09:55

Lab Sample ID: 500-229791-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			601539	DJP	EET SL	02/24/23 10:01
Total/NA	Analysis	903.0		1	604351	FLC	EET SL	03/20/23 06:43
Total/NA	Prep	PrecSep_0			601540	DJP	EET SL	02/24/23 10:32
Total/NA	Analysis	904.0		1	602335	SCB	EET SL	03/03/23 11:57
Total/NA	Analysis	Ra226_Ra228		1	604835	SCB	EET SL	03/23/23 17:07

Client Sample ID: MW-01
Date Collected: 02/22/23 10:22
Date Received: 02/23/23 09:50

Lab Sample ID: 500-229791-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			601827	DJP	EET SL	02/28/23 09:01
Total/NA	Analysis	903.0		1	604715	FLC	EET SL	03/22/23 20:50
Total/NA	Prep	PrecSep_0			601828	DJP	EET SL	02/28/23 09:47
Total/NA	Analysis	904.0		1	602825	FLC	EET SL	03/08/23 12:01
Total/NA	Analysis	Ra226_Ra228		1	604822	SCB	EET SL	03/23/23 14:26

Lab Chronicle

Client: KPRG and Associates, Inc.
 Project/Site: Powerton CCR - Quarterly (RAD)

Job ID: 500-229791-2

Client Sample ID: MW-08

Lab Sample ID: 500-229791-5

Date Collected: 02/22/23 11:41

Matrix: Water

Date Received: 02/23/23 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			601827	DJP	EET SL	02/28/23 09:01
Total/NA	Analysis	903.0		1	604715	FLC	EET SL	03/22/23 20:50
Total/NA	Prep	PrecSep_0			601828	DJP	EET SL	02/28/23 09:47
Total/NA	Analysis	904.0		1	602825	FLC	EET SL	03/08/23 12:01
Total/NA	Analysis	Ra226_Ra228		1	604822	SCB	EET SL	03/23/23 14:26

Client Sample ID: MW-09

Lab Sample ID: 500-229791-6

Date Collected: 02/23/23 14:54

Matrix: Water

Date Received: 02/24/23 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			602034	DJP	EET SL	03/01/23 09:47
Total/NA	Analysis	903.0		1	604790	FLC	EET SL	03/23/23 08:00
Total/NA	Prep	PrecSep_0			602036	DJP	EET SL	03/01/23 10:09
Total/NA	Analysis	904.0		1	602566	SCB	EET SL	03/06/23 12:11
Total/NA	Analysis	Ra226_Ra228		1	604811	SCB	EET SL	03/23/23 14:09

Client Sample ID: MW-11

Lab Sample ID: 500-229791-7

Date Collected: 02/23/23 13:36

Matrix: Water

Date Received: 02/24/23 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			602034	DJP	EET SL	03/01/23 09:47
Total/NA	Analysis	903.0		1	604790	FLC	EET SL	03/23/23 08:00
Total/NA	Prep	PrecSep_0			602036	DJP	EET SL	03/01/23 10:09
Total/NA	Analysis	904.0		1	602566	SCB	EET SL	03/06/23 12:11
Total/NA	Analysis	Ra226_Ra228		1	604811	SCB	EET SL	03/23/23 14:09

Client Sample ID: MW-12

Lab Sample ID: 500-229791-8

Date Collected: 02/23/23 12:18

Matrix: Water

Date Received: 02/24/23 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			602034	DJP	EET SL	03/01/23 09:47
Total/NA	Analysis	903.0		1	604790	FLC	EET SL	03/23/23 08:00
Total/NA	Prep	PrecSep_0			602036	DJP	EET SL	03/01/23 10:09
Total/NA	Analysis	904.0		1	602566	SCB	EET SL	03/06/23 12:11
Total/NA	Analysis	Ra226_Ra228		1	604811	SCB	EET SL	03/23/23 14:09

Lab Chronicle

Client: KPRG and Associates, Inc.
 Project/Site: Powerton CCR - Quarterly (RAD)

Job ID: 500-229791-2

Client Sample ID: MW-15

Lab Sample ID: 500-229791-9

Date Collected: 02/23/23 08:43

Matrix: Water

Date Received: 02/24/23 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			602034	DJP	EET SL	03/01/23 09:47
Total/NA	Analysis	903.0		1	604790	FLC	EET SL	03/23/23 08:00
Total/NA	Prep	PrecSep_0			602036	DJP	EET SL	03/01/23 10:09
Total/NA	Analysis	904.0		1	602567	SCB	EET SL	03/06/23 12:14
Total/NA	Analysis	Ra226_Ra228		1	604811	SCB	EET SL	03/23/23 14:09

Client Sample ID: MW-17

Lab Sample ID: 500-229791-10

Date Collected: 02/23/23 09:39

Matrix: Water

Date Received: 02/24/23 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			602034	DJP	EET SL	03/01/23 09:47
Total/NA	Analysis	903.0		1	604790	FLC	EET SL	03/23/23 08:00
Total/NA	Prep	PrecSep_0			602036	DJP	EET SL	03/01/23 10:09
Total/NA	Analysis	904.0		1	602567	SCB	EET SL	03/06/23 12:14
Total/NA	Analysis	Ra226_Ra228		1	604811	SCB	EET SL	03/23/23 14:09

Laboratory References:

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

Accreditation/Certification Summary

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR - Quarterly (RAD)

Job ID: 500-229791-2

Laboratory: Eurofins St. Louis

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	200023	11-30-23

- 1
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- 13
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Tracer/Carrier Summary

Client: KPRG and Associates, Inc.
 Project/Site: Powerton CCR - Quarterly (RAD)

Job ID: 500-229791-2

Method: 903.0 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Yield (Acceptance Limits)	
		Ba (30-110)	
500-229791-1	MW-18	76.3	
500-229791-2	MW-19	83.1	
500-229791-3	Duplicate	90.4	
500-229791-3 DU	Duplicate	91.5	
500-229791-4	MW-01	86.7	
500-229791-5	MW-08	93.2	
500-229791-6	MW-09	90.1	
500-229791-7	MW-11	69.2	
500-229791-8	MW-12	68.6	
500-229791-9	MW-15	76.8	
500-229791-10	MW-17	87.0	
LCS 160-601539/2-A	Lab Control Sample	94.4	
LCS 160-601827/2-A	Lab Control Sample	88.4	
LCS 160-602034/2-A	Lab Control Sample	92.7	
MB 160-601539/1-A	Method Blank	96.6	
MB 160-601827/1-A	Method Blank	89.5	
MB 160-602034/1-A	Method Blank	88.7	

Tracer/Carrier Legend
 Ba = Ba Carrier

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Yield (Acceptance Limits)	
		Ba (30-110)	Y (30-110)
500-229791-1	MW-18	76.3	87.1
500-229791-2	MW-19	83.1	84.9
500-229791-3	Duplicate	90.4	85.2
500-229791-3 DU	Duplicate	91.5	94.2
500-229791-4	MW-01	86.7	83.7
500-229791-5	MW-08	93.2	87.1
500-229791-6	MW-09	90.1	83.7
500-229791-7	MW-11	69.2	81.5
500-229791-8	MW-12	68.6	83.4
500-229791-9	MW-15	76.8	82.6
500-229791-10	MW-17	87.0	84.5
LCS 160-601540/2-A	Lab Control Sample	94.4	87.9
LCS 160-601828/2-A	Lab Control Sample	88.4	85.2
LCS 160-602036/2-A	Lab Control Sample	92.7	84.5
MB 160-601540/1-A	Method Blank	96.6	88.2
MB 160-601828/1-A	Method Blank	89.5	83.7
MB 160-602036/1-A	Method Blank	88.7	84.9

Tracer/Carrier Legend
 Ba = Ba Carrier
 Y = Y Carrier



ANALYTICAL REPORT

PREPARED FOR

Attn: Richard Gnat
KPRG and Associates, Inc.
14665 West Lisbon Road,
Suite 1A
Brookfield, Wisconsin 53005

Generated 6/12/2023 3:08:36 PM

JOB DESCRIPTION

Powerton CCR

JOB NUMBER

500-233887-1

Eurofins Chicago

Job Notes

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

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

Authorization



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Case Narrative

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR

Job ID: 500-233887-1

Job ID: 500-233887-1

Laboratory: Eurofins Chicago

Narrative

**Job Narrative
500-233887-1**

Receipt

The samples were received on 5/17/2023 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were -2.0° C, 0.1° C and 5.3° C.

Metals

Methods 6020A, 6020B: The initial low level and continuing calibration verification (ICVL/CCVL) associated with batch 500-715021 recovered above the upper control limit for Beryllium. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported.

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

General Chemistry

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



Method Summary

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR

Job ID: 500-233887-1

Method	Method Description	Protocol	Laboratory
6020A	Metals (ICP/MS)	SW846	EET CHI
7470A	Mercury (CVAA)	SW846	EET CHI
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET CHI
SM 4500 Cl- E	Chloride, Total	SM	EET CHI
SM 4500 F C	Fluoride	SM	EET CHI
SM 4500 SO4 E	Sulfate, Total	SM	EET CHI
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CHI
7470A	Preparation, Mercury	SW846	EET CHI

Protocol References:

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

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

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR

Job ID: 500-233887-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-233887-1	MW-09	Water	05/16/23 15:18	05/17/23 10:00
500-233887-2	MW-11	Water	05/16/23 14:01	05/17/23 10:00
500-233887-3	MW-12	Water	05/16/23 12:57	05/17/23 10:00
500-233887-4	MW-01	Water	05/17/23 12:36	05/18/23 09:40
500-233887-5	MW-08	Water	05/17/23 11:32	05/18/23 09:40
500-233887-6	MW-15	Water	05/17/23 13:48	05/18/23 09:40

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Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR

Job ID: 500-233887-1

Client Sample ID: MW-09
Date Collected: 05/16/23 15:18
Date Received: 05/17/23 10:00

Lab Sample ID: 500-233887-1
Matrix: Water

Method: SW846 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/22/23 09:02	05/24/23 19:39	1
Arsenic	<0.0010		0.0010		mg/L		05/22/23 09:02	05/23/23 22:38	1
Barium	0.029		0.0025		mg/L		05/22/23 09:02	05/23/23 22:38	1
Beryllium	<0.0010	^+ ^1+	0.0010		mg/L		05/22/23 09:02	05/23/23 22:38	1
Boron	3.9		0.050		mg/L		05/22/23 09:02	05/23/23 22:38	1
Cadmium	<0.00050		0.00050		mg/L		05/22/23 09:02	05/23/23 22:38	1
Calcium	70		0.20		mg/L		05/22/23 09:02	05/24/23 19:39	1
Chromium	<0.0050		0.0050		mg/L		05/22/23 09:02	05/23/23 22:38	1
Cobalt	<0.0010		0.0010		mg/L		05/22/23 09:02	05/23/23 22:38	1
Lead	<0.00050		0.00050		mg/L		05/22/23 09:02	05/23/23 22:38	1
Lithium	<0.010		0.010		mg/L		05/22/23 09:02	05/25/23 16:20	1
Molybdenum	0.032		0.0050		mg/L		05/22/23 09:02	05/23/23 22:38	1
Selenium	<0.0025		0.0025		mg/L		05/22/23 09:02	05/23/23 22:38	1
Thallium	<0.0020		0.0020		mg/L		05/22/23 09:02	05/23/23 22:38	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/06/23 09:55	06/07/23 08:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	510		10		mg/L			05/17/23 21:55	1
Chloride (SM 4500 Cl- E)	30		2.0		mg/L			05/24/23 16:30	1
Fluoride (SM 4500 F C)	0.16		0.10		mg/L			05/21/23 10:10	1
Sulfate (SM 4500 SO4 E)	130		50		mg/L			05/26/23 14:08	10

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR

Job ID: 500-233887-1

Client Sample ID: MW-11

Lab Sample ID: 500-233887-2

Date Collected: 05/16/23 14:01

Matrix: Water

Date Received: 05/17/23 10:00

Method: SW846 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/22/23 09:02	05/24/23 19:42	1
Arsenic	0.011		0.0010		mg/L		05/22/23 09:02	05/23/23 22:41	1
Barium	0.18		0.0025		mg/L		05/22/23 09:02	05/23/23 22:41	1
Beryllium	<0.0010	^+ ^1+	0.0010		mg/L		05/22/23 09:02	05/23/23 22:41	1
Boron	2.5		0.050		mg/L		05/22/23 09:02	05/23/23 22:41	1
Cadmium	<0.00050		0.00050		mg/L		05/22/23 09:02	05/23/23 22:41	1
Calcium	120		0.20		mg/L		05/22/23 09:02	05/24/23 19:42	1
Chromium	<0.0050		0.0050		mg/L		05/22/23 09:02	05/23/23 22:41	1
Cobalt	0.0018		0.0010		mg/L		05/22/23 09:02	05/23/23 22:41	1
Lead	<0.00050		0.00050		mg/L		05/22/23 09:02	05/23/23 22:41	1
Lithium	<0.010		0.010		mg/L		05/22/23 09:02	05/25/23 16:23	1
Molybdenum	0.016		0.0050		mg/L		05/22/23 09:02	05/23/23 22:41	1
Selenium	<0.0025		0.0025		mg/L		05/22/23 09:02	05/23/23 22:41	1
Thallium	<0.0020		0.0020		mg/L		05/22/23 09:02	05/23/23 22:41	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/06/23 09:55	06/07/23 08:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	690		10		mg/L			05/17/23 21:57	1
Chloride (SM 4500 Cl- E)	65		10		mg/L			05/24/23 16:31	5
Fluoride (SM 4500 F C)	0.52		0.10		mg/L			05/21/23 10:10	1
Sulfate (SM 4500 SO4 E)	120		50		mg/L			05/26/23 14:08	10

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR

Job ID: 500-233887-1

Client Sample ID: MW-12
Date Collected: 05/16/23 12:57
Date Received: 05/17/23 10:00

Lab Sample ID: 500-233887-3
Matrix: Water

Method: SW846 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/22/23 09:02	05/24/23 19:46	1
Arsenic	0.0023		0.0010		mg/L		05/22/23 09:02	05/23/23 22:45	1
Barium	0.043		0.0025		mg/L		05/22/23 09:02	05/23/23 22:45	1
Beryllium	<0.0010	^+ ^1+	0.0010		mg/L		05/22/23 09:02	05/23/23 22:45	1
Boron	0.32		0.050		mg/L		05/22/23 09:02	05/23/23 22:45	1
Cadmium	<0.00050		0.00050		mg/L		05/22/23 09:02	05/23/23 22:45	1
Calcium	89		0.20		mg/L		05/22/23 09:02	05/24/23 19:46	1
Chromium	<0.0050		0.0050		mg/L		05/22/23 09:02	05/23/23 22:45	1
Cobalt	<0.0010		0.0010		mg/L		05/22/23 09:02	05/23/23 22:45	1
Lead	<0.00050		0.00050		mg/L		05/22/23 09:02	05/23/23 22:45	1
Lithium	<0.010		0.010		mg/L		05/22/23 09:02	05/25/23 16:26	1
Molybdenum	0.013		0.0050		mg/L		05/22/23 09:02	05/23/23 22:45	1
Selenium	<0.0025		0.0025		mg/L		05/22/23 09:02	05/23/23 22:45	1
Thallium	<0.0020		0.0020		mg/L		05/22/23 09:02	05/23/23 22:45	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/06/23 09:55	06/07/23 08:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	840		10		mg/L			05/17/23 22:00	1
Chloride (SM 4500 Cl- E)	150		20		mg/L			05/24/23 16:31	10
Fluoride (SM 4500 F C)	0.34		0.10		mg/L			05/21/23 10:10	1
Sulfate (SM 4500 SO4 E)	240		100		mg/L			05/26/23 14:08	20

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR

Job ID: 500-233887-1

Client Sample ID: MW-01

Lab Sample ID: 500-233887-4

Date Collected: 05/17/23 12:36

Matrix: Water

Date Received: 05/18/23 09:40

Method: SW846 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/22/23 09:02	05/24/23 19:49	1
Arsenic	<0.0010		0.0010		mg/L		05/22/23 09:02	05/23/23 22:48	1
Barium	0.056		0.0025		mg/L		05/22/23 09:02	05/23/23 22:48	1
Beryllium	<0.0010	^+ ^1+	0.0010		mg/L		05/22/23 09:02	05/23/23 22:48	1
Boron	0.32		0.050		mg/L		05/22/23 09:02	05/23/23 22:48	1
Cadmium	<0.00050		0.00050		mg/L		05/22/23 09:02	05/23/23 22:48	1
Calcium	91		0.20		mg/L		05/22/23 09:02	05/24/23 19:49	1
Chromium	<0.0050		0.0050		mg/L		05/22/23 09:02	05/23/23 22:48	1
Cobalt	<0.0010		0.0010		mg/L		05/22/23 09:02	05/23/23 22:48	1
Lead	<0.00050		0.00050		mg/L		05/22/23 09:02	05/23/23 22:48	1
Lithium	<0.010		0.010		mg/L		05/22/23 09:02	05/25/23 16:30	1
Molybdenum	<0.0050		0.0050		mg/L		05/22/23 09:02	05/23/23 22:48	1
Selenium	<0.0025		0.0025		mg/L		05/22/23 09:02	05/23/23 22:48	1
Thallium	<0.0020		0.0020		mg/L		05/22/23 09:02	05/23/23 22:48	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/06/23 09:55	06/07/23 08:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	450		10		mg/L			05/22/23 01:02	1
Chloride (SM 4500 Cl- E)	55		4.0		mg/L			05/24/23 16:31	2
Fluoride (SM 4500 F C)	0.12		0.10		mg/L			05/24/23 08:35	1
Sulfate (SM 4500 SO4 E)	33		10		mg/L			05/26/23 14:09	2

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR

Job ID: 500-233887-1

Client Sample ID: MW-08

Lab Sample ID: 500-233887-5

Date Collected: 05/17/23 11:32

Matrix: Water

Date Received: 05/18/23 09:40

Method: SW846 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/22/23 09:02	05/24/23 20:03	1
Arsenic	0.0029		0.0010		mg/L		05/22/23 09:02	05/23/23 22:52	1
Barium	0.13		0.0025		mg/L		05/22/23 09:02	05/23/23 22:52	1
Beryllium	<0.0010	^+ ^1+	0.0010		mg/L		05/22/23 09:02	05/23/23 22:52	1
Boron	0.61		0.050		mg/L		05/22/23 09:02	05/23/23 22:52	1
Cadmium	<0.00050		0.00050		mg/L		05/22/23 09:02	05/23/23 22:52	1
Calcium	120		0.20		mg/L		05/22/23 09:02	05/24/23 20:03	1
Chromium	<0.0050		0.0050		mg/L		05/22/23 09:02	05/23/23 22:52	1
Cobalt	<0.0010		0.0010		mg/L		05/22/23 09:02	05/23/23 22:52	1
Lead	<0.00050		0.00050		mg/L		05/22/23 09:02	05/23/23 22:52	1
Lithium	0.023		0.010		mg/L		05/22/23 09:02	05/25/23 16:33	1
Molybdenum	0.0077		0.0050		mg/L		05/22/23 09:02	05/23/23 22:52	1
Selenium	<0.0025		0.0025		mg/L		05/22/23 09:02	05/23/23 22:52	1
Thallium	<0.0020		0.0020		mg/L		05/22/23 09:02	05/23/23 22:52	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/06/23 09:55	06/07/23 08:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	720		10		mg/L			05/22/23 01:05	1
Chloride (SM 4500 Cl- E)	110		20		mg/L			05/24/23 16:32	10
Fluoride (SM 4500 F C)	0.34		0.10		mg/L			05/24/23 08:35	1
Sulfate (SM 4500 SO4 E)	62		10		mg/L			05/26/23 14:09	2

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR

Job ID: 500-233887-1

Client Sample ID: MW-15

Lab Sample ID: 500-233887-6

Date Collected: 05/17/23 13:48

Matrix: Water

Date Received: 05/18/23 09:40

Method: SW846 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/22/23 09:02	05/24/23 20:07	1
Arsenic	0.0027		0.0010		mg/L		05/22/23 09:02	05/23/23 23:02	1
Barium	0.075		0.0025		mg/L		05/22/23 09:02	05/23/23 23:02	1
Beryllium	<0.0010	^+ ^1+	0.0010		mg/L		05/22/23 09:02	05/23/23 23:02	1
Boron	1.3		0.050		mg/L		05/22/23 09:02	05/23/23 23:02	1
Cadmium	<0.00050		0.00050		mg/L		05/22/23 09:02	05/23/23 23:02	1
Calcium	1400		2.0		mg/L		05/22/23 09:02	05/25/23 16:40	10
Chromium	<0.0050		0.0050		mg/L		05/22/23 09:02	05/23/23 23:02	1
Cobalt	0.0012		0.0010		mg/L		05/22/23 09:02	05/23/23 23:02	1
Lead	<0.00050		0.00050		mg/L		05/22/23 09:02	05/23/23 23:02	1
Lithium	0.024		0.010		mg/L		05/22/23 09:02	05/25/23 16:37	1
Molybdenum	0.039		0.0050		mg/L		05/22/23 09:02	05/23/23 23:02	1
Selenium	0.18		0.0025		mg/L		05/22/23 09:02	05/23/23 23:02	1
Thallium	<0.0020		0.0020		mg/L		05/22/23 09:02	05/23/23 23:02	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/06/23 09:55	06/07/23 08:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	2500		10		mg/L			05/22/23 01:07	1
Chloride (SM 4500 Cl- E)	310		20		mg/L			05/24/23 16:32	10
Fluoride (SM 4500 F C)	0.42		0.10		mg/L			05/24/23 08:35	1
Sulfate (SM 4500 SO4 E)	850		100		mg/L			05/26/23 14:09	20

Definitions/Glossary

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR

Job ID: 500-233887-1

Qualifiers

Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
^1+	Initial Calibration Verification (ICV) is outside acceptance limits, high biased.

Glossary

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

QC Association Summary

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR

Job ID: 500-233887-1

Metals

Prep Batch: 714515

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-233887-1	MW-09	Total Recoverable	Water	3005A	
500-233887-2	MW-11	Total Recoverable	Water	3005A	
500-233887-3	MW-12	Total Recoverable	Water	3005A	
500-233887-4	MW-01	Total Recoverable	Water	3005A	
500-233887-5	MW-08	Total Recoverable	Water	3005A	
500-233887-6	MW-15	Total Recoverable	Water	3005A	
MB 500-714515/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-714515/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 715021

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-233887-1	MW-09	Total Recoverable	Water	6020A	714515
500-233887-2	MW-11	Total Recoverable	Water	6020A	714515
500-233887-3	MW-12	Total Recoverable	Water	6020A	714515
500-233887-4	MW-01	Total Recoverable	Water	6020A	714515
500-233887-5	MW-08	Total Recoverable	Water	6020A	714515
500-233887-6	MW-15	Total Recoverable	Water	6020A	714515
MB 500-714515/1-A	Method Blank	Total Recoverable	Water	6020A	714515
LCS 500-714515/2-A	Lab Control Sample	Total Recoverable	Water	6020A	714515

Analysis Batch: 715273

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-233887-1	MW-09	Total Recoverable	Water	6020A	714515
500-233887-2	MW-11	Total Recoverable	Water	6020A	714515
500-233887-3	MW-12	Total Recoverable	Water	6020A	714515
500-233887-4	MW-01	Total Recoverable	Water	6020A	714515
500-233887-5	MW-08	Total Recoverable	Water	6020A	714515
500-233887-6	MW-15	Total Recoverable	Water	6020A	714515
MB 500-714515/1-A	Method Blank	Total Recoverable	Water	6020A	714515
LCS 500-714515/2-A	Lab Control Sample	Total Recoverable	Water	6020A	714515

Analysis Batch: 715492

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-233887-1	MW-09	Total Recoverable	Water	6020A	714515
500-233887-2	MW-11	Total Recoverable	Water	6020A	714515
500-233887-3	MW-12	Total Recoverable	Water	6020A	714515
500-233887-4	MW-01	Total Recoverable	Water	6020A	714515
500-233887-5	MW-08	Total Recoverable	Water	6020A	714515
500-233887-6	MW-15	Total Recoverable	Water	6020A	714515
500-233887-6	MW-15	Total Recoverable	Water	6020A	714515
MB 500-714515/1-A	Method Blank	Total Recoverable	Water	6020A	714515
LCS 500-714515/2-A	Lab Control Sample	Total Recoverable	Water	6020A	714515

Prep Batch: 716983

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-233887-1	MW-09	Total/NA	Water	7470A	
500-233887-2	MW-11	Total/NA	Water	7470A	
500-233887-3	MW-12	Total/NA	Water	7470A	
500-233887-4	MW-01	Total/NA	Water	7470A	
500-233887-5	MW-08	Total/NA	Water	7470A	
500-233887-6	MW-15	Total/NA	Water	7470A	

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QC Association Summary

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR

Job ID: 500-233887-1

Metals (Continued)

Prep Batch: 716983 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-716983/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-716983/13-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 717281

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-233887-1	MW-09	Total/NA	Water	7470A	716983
500-233887-2	MW-11	Total/NA	Water	7470A	716983
500-233887-3	MW-12	Total/NA	Water	7470A	716983
500-233887-4	MW-01	Total/NA	Water	7470A	716983
500-233887-5	MW-08	Total/NA	Water	7470A	716983
500-233887-6	MW-15	Total/NA	Water	7470A	716983
MB 500-716983/12-A	Method Blank	Total/NA	Water	7470A	716983
LCS 500-716983/13-A	Lab Control Sample	Total/NA	Water	7470A	716983

General Chemistry

Analysis Batch: 713900

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-233887-1	MW-09	Total/NA	Water	SM 2540C	
500-233887-2	MW-11	Total/NA	Water	SM 2540C	
500-233887-3	MW-12	Total/NA	Water	SM 2540C	
MB 500-713900/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-713900/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 714420

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-233887-4	MW-01	Total/NA	Water	SM 2540C	
500-233887-5	MW-08	Total/NA	Water	SM 2540C	
500-233887-6	MW-15	Total/NA	Water	SM 2540C	
MB 500-714420/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-714420/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 714514

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-233887-1	MW-09	Total/NA	Water	SM 4500 F C	
500-233887-2	MW-11	Total/NA	Water	SM 4500 F C	
500-233887-3	MW-12	Total/NA	Water	SM 4500 F C	
MB 500-714514/31	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-714514/32	Lab Control Sample	Total/NA	Water	SM 4500 F C	

Analysis Batch: 715052

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-233887-4	MW-01	Total/NA	Water	SM 4500 F C	
500-233887-5	MW-08	Total/NA	Water	SM 4500 F C	
500-233887-6	MW-15	Total/NA	Water	SM 4500 F C	
MB 500-715052/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-715052/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	

Analysis Batch: 715089

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-233887-1	MW-09	Total/NA	Water	SM 4500 Cl- E	

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QC Association Summary

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR

Job ID: 500-233887-1

General Chemistry (Continued)

Analysis Batch: 715089 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-233887-2	MW-11	Total/NA	Water	SM 4500 Cl- E	
500-233887-3	MW-12	Total/NA	Water	SM 4500 Cl- E	
500-233887-4	MW-01	Total/NA	Water	SM 4500 Cl- E	
500-233887-5	MW-08	Total/NA	Water	SM 4500 Cl- E	
500-233887-6	MW-15	Total/NA	Water	SM 4500 Cl- E	
MB 500-715089/113	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 500-715089/114	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 715553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-233887-1	MW-09	Total/NA	Water	SM 4500 SO4 E	
500-233887-2	MW-11	Total/NA	Water	SM 4500 SO4 E	
500-233887-3	MW-12	Total/NA	Water	SM 4500 SO4 E	
500-233887-4	MW-01	Total/NA	Water	SM 4500 SO4 E	
500-233887-5	MW-08	Total/NA	Water	SM 4500 SO4 E	
500-233887-6	MW-15	Total/NA	Water	SM 4500 SO4 E	
MB 500-715553/16	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-715553/17	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	

QC Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR

Job ID: 500-233887-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 500-714515/1-A
Matrix: Water
Analysis Batch: 715021

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 714515

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	<0.0010		0.0010		mg/L		05/22/23 09:02	05/23/23 22:21	1
Barium	<0.0025		0.0025		mg/L		05/22/23 09:02	05/23/23 22:21	1
Beryllium	<0.0010	^+ ^1+	0.0010		mg/L		05/22/23 09:02	05/23/23 22:21	1
Boron	<0.050		0.050		mg/L		05/22/23 09:02	05/23/23 22:21	1
Cadmium	<0.00050		0.00050		mg/L		05/22/23 09:02	05/23/23 22:21	1
Chromium	<0.0050		0.0050		mg/L		05/22/23 09:02	05/23/23 22:21	1
Cobalt	<0.0010		0.0010		mg/L		05/22/23 09:02	05/23/23 22:21	1
Lead	<0.00050		0.00050		mg/L		05/22/23 09:02	05/23/23 22:21	1
Molybdenum	<0.0050		0.0050		mg/L		05/22/23 09:02	05/23/23 22:21	1
Selenium	<0.0025		0.0025		mg/L		05/22/23 09:02	05/23/23 22:21	1
Thallium	<0.0020		0.0020		mg/L		05/22/23 09:02	05/23/23 22:21	1

Lab Sample ID: MB 500-714515/1-A
Matrix: Water
Analysis Batch: 715273

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 714515

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0030		0.0030		mg/L		05/22/23 09:02	05/24/23 19:19	1
Calcium	<0.20		0.20		mg/L		05/22/23 09:02	05/24/23 19:19	1

Lab Sample ID: MB 500-714515/1-A
Matrix: Water
Analysis Batch: 715492

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 714515

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Lithium	<0.010		0.010		mg/L		05/22/23 09:02	05/25/23 16:13	1

Lab Sample ID: LCS 500-714515/2-A
Matrix: Water
Analysis Batch: 715021

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 714515

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Arsenic	0.100	0.0987		mg/L		99	80 - 120
Barium	2.00	1.98		mg/L		99	80 - 120
Beryllium	0.0500	0.0541	^+ ^1+	mg/L		108	80 - 120
Boron	1.00	1.00		mg/L		100	80 - 120
Cadmium	0.0500	0.0485		mg/L		97	80 - 120
Chromium	0.200	0.192		mg/L		96	80 - 120
Cobalt	0.500	0.477		mg/L		95	80 - 120
Lead	0.100	0.101		mg/L		101	80 - 120
Molybdenum	1.00	0.885		mg/L		88	80 - 120
Selenium	0.100	0.0992		mg/L		99	80 - 120
Thallium	0.100	0.0978		mg/L		98	80 - 120

QC Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR

Job ID: 500-233887-1

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

Lab Sample ID: LCS 500-714515/2-A
Matrix: Water
Analysis Batch: 715273

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 714515

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.485		mg/L		97	80 - 120
Calcium	10.0	8.73		mg/L		87	80 - 120

Lab Sample ID: LCS 500-714515/2-A
Matrix: Water
Analysis Batch: 715492

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 714515

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.500	0.486		mg/L		97	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-716983/12-A
Matrix: Water
Analysis Batch: 717281

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 716983

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/06/23 09:55	06/07/23 08:18	1

Lab Sample ID: LCS 500-716983/13-A
Matrix: Water
Analysis Batch: 717281

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 716983

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00198	0.00202		mg/L		102	80 - 120

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

Lab Sample ID: MB 500-713900/1
Matrix: Water
Analysis Batch: 713900

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10		mg/L			05/17/23 21:14	1

Lab Sample ID: LCS 500-713900/2
Matrix: Water
Analysis Batch: 713900

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	240		mg/L		96	80 - 120

Lab Sample ID: MB 500-714420/1
Matrix: Water
Analysis Batch: 714420

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10		mg/L			05/22/23 00:24	1

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QC Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR

Job ID: 500-233887-1

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

Lab Sample ID: LCS 500-714420/2
Matrix: Water
Analysis Batch: 714420

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	242		mg/L		97	80 - 120

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 500-715089/113
Matrix: Water
Analysis Batch: 715089

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<2.0		2.0		mg/L			05/24/23 16:30	1

Lab Sample ID: LCS 500-715089/114
Matrix: Water
Analysis Batch: 715089

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	19.5		mg/L		98	85 - 115

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-714514/31
Matrix: Water
Analysis Batch: 714514

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10		mg/L			05/21/23 10:10	1

Lab Sample ID: LCS 500-714514/32
Matrix: Water
Analysis Batch: 714514

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	10.0	9.96		mg/L		100	90 - 119

Lab Sample ID: MB 500-715052/3
Matrix: Water
Analysis Batch: 715052

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10		mg/L			05/24/23 08:35	1

Lab Sample ID: LCS 500-715052/4
Matrix: Water
Analysis Batch: 715052

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	10.0	10.0		mg/L		100	90 - 119

QC Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR

Job ID: 500-233887-1

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 500-715553/16
Matrix: Water
Analysis Batch: 715553

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<5.0		5.0		mg/L			05/26/23 14:07	1

Lab Sample ID: LCS 500-715553/17
Matrix: Water
Analysis Batch: 715553

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	20.0	20.2		mg/L		101	88 - 123



Eurofins Chicago

2417 Bond Street
 University Park IL 60484
 Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record



Environment Testing

Client Information		Sampler: <u>Kaelyn Sperte</u>		Lab PM: Mockler, Diana J		Carrier Tracking No(s): 500-233887 COC 31											
Client Contact: Kaelyn Sperte		Phone: <u>262-278-1621</u>		E-Mail: Diana Mockler@et.eurofinsus.com		State of Origin: <u>IL</u>											
Company: KPRG and Associates, Inc		PWSID:		Analysis Requested													
Address: 14665 West Lisbon Road, Suite 1A		Due Date Requested: <u>Standard</u>		Job #: <u>500-233887</u> Page 1 of 1 Job #: <u>233887</u> Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Y - Trizma Z - other (specify) Other:													
City: Brookfield		TAT Requested (days): <u>standard</u>															
State, Zip: WI, 53005		Compliance Project. <input type="checkbox"/> Yes <input type="checkbox"/> No															
Phone: 262-781-0475(Tel)		PO #: 4502125100															
Email: kaelyns@kprginc.com		WO #:															
Project Name: Powerton CCR Event Desc Quarterly Powerton CCR Sampling		Project #: 50011612		Field Filtered Sample (Yes or No) Perform M/MS/SD (Yes or No) 903.0, 904.0 6020A, 7470A 2540C, 4500_F_C, SM4500_CLE SM4500_SO4_E - Sulfate													
Site: Illinois		SSOW#:															
Sample Identification		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)		Field Filtered Sample (Yes or No)		Perform M/MS/SD (Yes or No)		Total Number of containers		Special Instructions/Note:	
						Preservation Code											
4 MW-01		5/17/23		1236		G		Water		N		X X X X					
5 MW-08		5/17/23		1132		G		Water		N		X X X X					
MW-09								Water									
MW-11								Water									
MW-12								Water									
6 MW-15		5/17/23		1348		G		Water		N		X X X X					
MW-17								Water									
MW-18								Water									
MW-19								Water									
Possible Hazard Identification										Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)							
<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological										<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months							
Deliverable Requested I, II, III, IV, Other (specify)										Special Instructions/QC Requirements							
Empty Kit Relinquished by:				Date:				Time:				Method of Shipment:					
Relinquished by: <u>Kaelyn Sperte</u>				Date/Time: <u>5/17/23/1730</u>				Company: <u>KPRG</u>				Received by: <u>FedEx</u>					
Relinquished by:				Date/Time:				Company:				Received by: <u>[Signature]</u>					
Relinquished by:				Date/Time:				Company:				Received by: <u>[Signature]</u>					
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No				Custody Seal No				Cooler Temperature(s) °C and Other Remarks: <u>0.4 - 0.1</u>									

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2417 Bond Street
 University Park IL 60484
 Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record



Client Information		Sampler <i>Kaelyn Sperle</i>	Lab PM: Mockler, Diana J	Carrier Tracking No(s): 500-233887 COC	COE No: 500-112087-46458 1																						
Client Contact: Kaelyn Sperle		Phone <i>262-278-1621</i>	E-Mail Diana.Mockler@et.eurotinsus.com	State of Origin <i>IL</i>	Page: Page 1 of 1																						
Company KPRG and Associates, Inc		PWSID	Analysis Requested																								
Address: 14665 West Lisbon Road, Suite 1A		Due Date Requested <i>Standard</i>	<table border="1"> <tr> <td rowspan="5">Field Filtered Sample (Yes or No)</td> <td rowspan="5">Perform MS/MSD (Yes or No)</td> <td>903.0, 904.0</td> <td>6020A, 7470A</td> <td>2540C, 4500_F_C, SM4500_CL</td> <td>SM4500_SO4_E - Sulfate</td> </tr> <tr><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td></tr> </table>			Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0, 904.0	6020A, 7470A	2540C, 4500_F_C, SM4500_CL	SM4500_SO4_E - Sulfate																
Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0, 904.0						6020A, 7470A	2540C, 4500_F_C, SM4500_CL	SM4500_SO4_E - Sulfate																	
City: Brookfield		TAT Requested (days) <i>Standard</i>																									
State Zip WI, 53005		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No																									
Phone 262-781-0475(Tel)		PO # 4502125100																									
Email kaelyns@kprginc.com		WO #																									
Project Name: Powerton CCR Event Desc. Quarterly Powerton CCR Sampling		Project #: 50011612	Job #: <i>500-233887</i> Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2SO3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Y - Trizma Z - other (specify)																								
Site: Illinois		SSOW#:																									
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Total Number of Containers	Special Instructions/Note:																		
MW-01					Water																						
MW-02					Water																						
MW-09					Water																						
MW-11					Water																						
MW-12					Water																						
MW-15		<i>X</i>			Water																						
<i>78910</i> MW-17		<i>5/18/23</i>	<i>1337</i>	<i>G</i>	Water	<i>M</i>	<i>N</i>	<i>X</i>	<i>X</i>																		
MW-18		<i>5/18/23</i>	<i>1234</i>		Water	<i>M</i>	<i>N</i>																				
MW-19		<i>5/18/23</i>	<i>1441</i>		Water	<i>N</i>	<i>N</i>																				
<i>10</i> Duplicate		<i>5/18/23</i>	<i>-</i>		Water	<i>N</i>	<i>N</i>																				
Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)																									
<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months																									
Deliverable Requested I, II, III IV, Other (specify)		Special Instructions/QC Requirements																									
Empty Kit Relinquished by		Date	Time	Method of Shipment:																							
Relinquished by: <i>Kaelyn Sperle</i>		Date/Time: <i>5/18/23/1715</i>	Company: <i>KPRG</i>	Received by: <i>FedEx</i>	Date/Time: <i>5/18/23/1715</i>																						
Relinquished by:		Date/Time:	Company:	Received by:	Date/Time:																						
Relinquished by:		Date/Time:	Company:	Received by: <i>Kaelyn Sperle</i>	Date/Time: <i>5/18/23 1000</i>																						
Custody Seals Intact. <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks: <i>-2.4 - -2.0</i>																							

ORIGIN ID:PIAA (262) 278-1621

KPRG AND ASSOCIATES
414 PLAZA DR STE 106

WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 16MAY23
ACTWGT: 58 00 LB
CAD: 6994779/SSFE2420
DIMS: 24x18x12 IN

BILL THIRD PARTY

Part # 156297-43834498-23795

TO **SAMPLE RECEIVING
EUROFINS CHICAGO
2417 BOND ST**



UNIVERSITY PARK IL 60

(000) 000-0000
INU:
PO

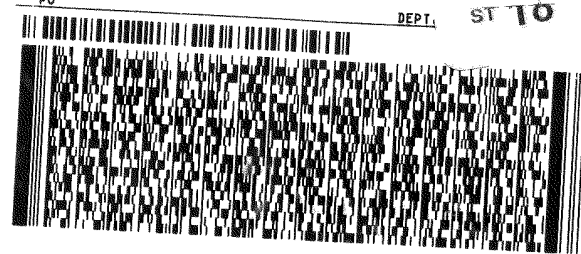
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500-233887 Waybl

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PRIORITY OVERNIGHT**

XN JOTA

**60484
IL-US ORD**





500-233887 Waybi

ORIGIN ID:PIAA (262) 278-1621
KPRG AND ASSOCIATES
414 PLAZA DR STE 106
WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 17MAY23
ACTWGT: 50.00 LB
CAD: 6994778/SSFE2420
DIMS: 24x18x12 IN
BILL THIRD PARTY

Part # 166297-435 RROB2 EXP 09/23
0231/2022/ETRES

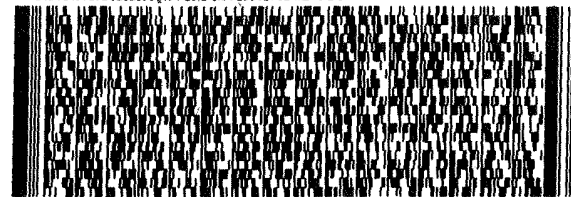
TO **SAMPLE RECEIVING**
EUROFINS
2417 BOND ST

UNIVERSITY PARK IL 60484

(000) 000-0000
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4 of 5

MPS# 3984 4873 0174
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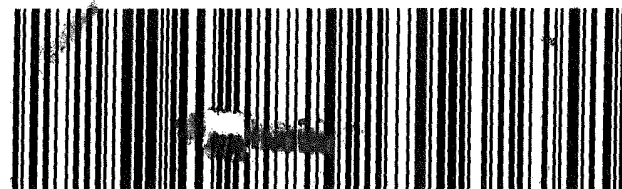
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ORIGIN ID:PIAA (000) 000-0000
KPRG AND ASSOCIATES
414 PLAZA DR STE 106
WESTMONT, IL 60559
UNITED STATES US

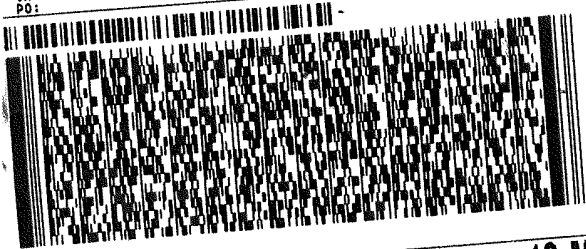
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ACTWGT: 43.00 LB
CAD: 6994779/SSFE2420
DIMS: 24x18x12 IN
BILL THIRD PARTY

Part # 150297-485JPR88-836811/23

SAMPLE RECEIVING
EUROFINS CHICAGO
2417 BOND ST

UNIVERSITY PARK IL 60484

(000) 000-0000 REF: DEPT:



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PRIORITY OVERNIGHT

2 of 3
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Do Not Lift Using This Tag

ORIGIN ID:PIAA (000) 000-0000
KPRG AND ASSOCIATES
414 PLAZA DR STE 106
WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 18MAY23
ACTWGT: 43.00 LB
CAD: 6994779/SSFE2420
DIMS: 24x18x12 IN
BILL THIRD PARTY

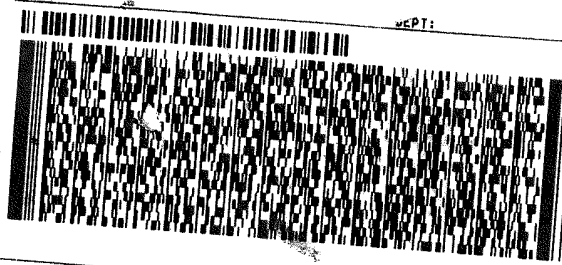
Part # 150297-485JPR88-836811/23

TO SAMPLE RECEIVING
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MASTER

FRI - 19 MAY 10:30A
PRIORITY OVERNIGHT

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500-233887 Waybl

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Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-233887-1

Login Number: 233887

List Number: 1

Creator: James, Jeff A

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.3,0.1,-2.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Lab Chronicle

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR

Job ID: 500-233887-1

Client Sample ID: MW-09
Date Collected: 05/16/23 15:18
Date Received: 05/17/23 10:00

Lab Sample ID: 500-233887-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			714515	BDE	EET CHI	05/22/23 09:02 - 05/22/23 09:32 ¹
Total Recoverable	Analysis	6020A		1	715021	FXG	EET CHI	05/23/23 22:38
Total Recoverable	Prep	3005A			714515	BDE	EET CHI	05/22/23 09:02 - 05/22/23 09:32 ¹
Total Recoverable	Analysis	6020A		1	715273	FXG	EET CHI	05/24/23 19:39
Total Recoverable	Prep	3005A			714515	BDE	EET CHI	05/22/23 09:02 - 05/22/23 09:32 ¹
Total Recoverable	Analysis	6020A		1	715492	FXG	EET CHI	05/25/23 16:20
Total/NA	Prep	7470A			716983	MJG	EET CHI	06/06/23 09:55 - 06/06/23 11:55 ¹
Total/NA	Analysis	7470A		1	717281	MJG	EET CHI	06/07/23 08:22
Total/NA	Analysis	SM 2540C		1	713900	CLB	EET CHI	05/17/23 21:55
Total/NA	Analysis	SM 4500 CI- E		1	715089	MM	EET CHI	05/24/23 16:30
Total/NA	Analysis	SM 4500 F C		1	714514	EH	EET CHI	05/21/23 10:10
Total/NA	Analysis	SM 4500 SO4 E		10	715553	MM	EET CHI	05/26/23 14:08

Client Sample ID: MW-11
Date Collected: 05/16/23 14:01
Date Received: 05/17/23 10:00

Lab Sample ID: 500-233887-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			714515	BDE	EET CHI	05/22/23 09:02 - 05/22/23 09:32 ¹
Total Recoverable	Analysis	6020A		1	715021	FXG	EET CHI	05/23/23 22:41
Total Recoverable	Prep	3005A			714515	BDE	EET CHI	05/22/23 09:02 - 05/22/23 09:32 ¹
Total Recoverable	Analysis	6020A		1	715273	FXG	EET CHI	05/24/23 19:42
Total Recoverable	Prep	3005A			714515	BDE	EET CHI	05/22/23 09:02 - 05/22/23 09:32 ¹
Total Recoverable	Analysis	6020A		1	715492	FXG	EET CHI	05/25/23 16:23
Total/NA	Prep	7470A			716983	MJG	EET CHI	06/06/23 09:55 - 06/06/23 11:55 ¹
Total/NA	Analysis	7470A		1	717281	MJG	EET CHI	06/07/23 08:24
Total/NA	Analysis	SM 2540C		1	713900	CLB	EET CHI	05/17/23 21:57
Total/NA	Analysis	SM 4500 CI- E		5	715089	MM	EET CHI	05/24/23 16:31
Total/NA	Analysis	SM 4500 F C		1	714514	EH	EET CHI	05/21/23 10:10
Total/NA	Analysis	SM 4500 SO4 E		10	715553	MM	EET CHI	05/26/23 14:08

Client Sample ID: MW-12
Date Collected: 05/16/23 12:57
Date Received: 05/17/23 10:00

Lab Sample ID: 500-233887-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			714515	BDE	EET CHI	05/22/23 09:02 - 05/22/23 09:32 ¹
Total Recoverable	Analysis	6020A		1	715021	FXG	EET CHI	05/23/23 22:45
Total Recoverable	Prep	3005A			714515	BDE	EET CHI	05/22/23 09:02 - 05/22/23 09:32 ¹
Total Recoverable	Analysis	6020A		1	715273	FXG	EET CHI	05/24/23 19:46
Total Recoverable	Prep	3005A			714515	BDE	EET CHI	05/22/23 09:02 - 05/22/23 09:32 ¹
Total Recoverable	Analysis	6020A		1	715492	FXG	EET CHI	05/25/23 16:26
Total/NA	Prep	7470A			716983	MJG	EET CHI	06/06/23 09:55 - 06/06/23 11:55 ¹
Total/NA	Analysis	7470A		1	717281	MJG	EET CHI	06/07/23 08:26

Eurofins Chicago

Lab Chronicle

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR

Job ID: 500-233887-1

Client Sample ID: MW-12
Date Collected: 05/16/23 12:57
Date Received: 05/17/23 10:00

Lab Sample ID: 500-233887-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM 2540C		1	713900	CLB	EET CHI	05/17/23 22:00
Total/NA	Analysis	SM 4500 CI- E		10	715089	MM	EET CHI	05/24/23 16:31
Total/NA	Analysis	SM 4500 F C		1	714514	EH	EET CHI	05/21/23 10:10
Total/NA	Analysis	SM 4500 SO4 E		20	715553	MM	EET CHI	05/26/23 14:08

Client Sample ID: MW-01
Date Collected: 05/17/23 12:36
Date Received: 05/18/23 09:40

Lab Sample ID: 500-233887-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			714515	BDE	EET CHI	05/22/23 09:02 - 05/22/23 09:32 ¹
Total Recoverable	Analysis	6020A		1	715021	FXG	EET CHI	05/23/23 22:48
Total Recoverable	Prep	3005A			714515	BDE	EET CHI	05/22/23 09:02 - 05/22/23 09:32 ¹
Total Recoverable	Analysis	6020A		1	715273	FXG	EET CHI	05/24/23 19:49
Total Recoverable	Prep	3005A			714515	BDE	EET CHI	05/22/23 09:02 - 05/22/23 09:32 ¹
Total Recoverable	Analysis	6020A		1	715492	FXG	EET CHI	05/25/23 16:30
Total/NA	Prep	7470A			716983	MJG	EET CHI	06/06/23 09:55 - 06/06/23 11:55 ¹
Total/NA	Analysis	7470A		1	717281	MJG	EET CHI	06/07/23 08:28
Total/NA	Analysis	SM 2540C		1	714420	CLB	EET CHI	05/22/23 01:02
Total/NA	Analysis	SM 4500 CI- E		2	715089	MM	EET CHI	05/24/23 16:31
Total/NA	Analysis	SM 4500 F C		1	715052	EH	EET CHI	05/24/23 08:35
Total/NA	Analysis	SM 4500 SO4 E		2	715553	MM	EET CHI	05/26/23 14:09

Client Sample ID: MW-08
Date Collected: 05/17/23 11:32
Date Received: 05/18/23 09:40

Lab Sample ID: 500-233887-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			714515	BDE	EET CHI	05/22/23 09:02 - 05/22/23 09:32 ¹
Total Recoverable	Analysis	6020A		1	715021	FXG	EET CHI	05/23/23 22:52
Total Recoverable	Prep	3005A			714515	BDE	EET CHI	05/22/23 09:02 - 05/22/23 09:32 ¹
Total Recoverable	Analysis	6020A		1	715273	FXG	EET CHI	05/24/23 20:03
Total Recoverable	Prep	3005A			714515	BDE	EET CHI	05/22/23 09:02 - 05/22/23 09:32 ¹
Total Recoverable	Analysis	6020A		1	715492	FXG	EET CHI	05/25/23 16:33
Total/NA	Prep	7470A			716983	MJG	EET CHI	06/06/23 09:55 - 06/06/23 11:55 ¹
Total/NA	Analysis	7470A		1	717281	MJG	EET CHI	06/07/23 08:30
Total/NA	Analysis	SM 2540C		1	714420	CLB	EET CHI	05/22/23 01:05
Total/NA	Analysis	SM 4500 CI- E		10	715089	MM	EET CHI	05/24/23 16:32
Total/NA	Analysis	SM 4500 F C		1	715052	EH	EET CHI	05/24/23 08:35
Total/NA	Analysis	SM 4500 SO4 E		2	715553	MM	EET CHI	05/26/23 14:09

Lab Chronicle

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR

Job ID: 500-233887-1

Client Sample ID: MW-15

Lab Sample ID: 500-233887-6

Date Collected: 05/17/23 13:48

Matrix: Water

Date Received: 05/18/23 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			714515	BDE	EET CHI	05/22/23 09:02 - 05/22/23 09:32 ¹
Total Recoverable	Analysis	6020A		1	715021	FXG	EET CHI	05/23/23 23:02
Total Recoverable	Prep	3005A			714515	BDE	EET CHI	05/22/23 09:02 - 05/22/23 09:32 ¹
Total Recoverable	Analysis	6020A		1	715273	FXG	EET CHI	05/24/23 20:07
Total Recoverable	Prep	3005A			714515	BDE	EET CHI	05/22/23 09:02 - 05/22/23 09:32 ¹
Total Recoverable	Analysis	6020A		1	715492	FXG	EET CHI	05/25/23 16:37
Total Recoverable	Prep	3005A			714515	BDE	EET CHI	05/22/23 09:02 - 05/22/23 09:32 ¹
Total Recoverable	Analysis	6020A		10	715492	FXG	EET CHI	05/25/23 16:40
Total/NA	Prep	7470A			716983	MJG	EET CHI	06/06/23 09:55 - 06/06/23 11:55 ¹
Total/NA	Analysis	7470A		1	717281	MJG	EET CHI	06/07/23 08:33
Total/NA	Analysis	SM 2540C		1	714420	CLB	EET CHI	05/22/23 01:07
Total/NA	Analysis	SM 4500 Cl- E		10	715089	MM	EET CHI	05/24/23 16:32
Total/NA	Analysis	SM 4500 F C		1	715052	EH	EET CHI	05/24/23 08:35
Total/NA	Analysis	SM 4500 SO4 E		20	715553	MM	EET CHI	05/26/23 14:09

¹ This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR

Job ID: 500-233887-1

Laboratory: Eurofins Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-24

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ANALYTICAL REPORT

PREPARED FOR

Attn: Richard Gnat
KPRG and Associates, Inc.
14665 West Lisbon Road,
Suite 1A
Brookfield, Wisconsin 53005

Generated 6/21/2023 4:23:08 PM

JOB DESCRIPTION

Powerton CCR (RAD)

JOB NUMBER

500-233887-2

Eurofins Chicago

Job Notes

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

Authorization



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Authorized for release by
Diana Mockler, Project Manager I
Diana.Mockler@et.eurofinsus.com
(219)252-7570



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Case Narrative

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR (RAD)

Job ID: 500-233887-2

Job ID: 500-233887-2

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-233887-2

Receipt

The samples were received on 5/17/2023 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were -2.0° C, 0.1° C and 5.3° C.

RAD

Method 903.0: Radium-226 batch 613094

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

MW-09 (500-233887-1), MW-11 (500-233887-2), MW-12 (500-233887-3), (LCS 160-613094/2-A), (MB 160-613094/1-A) and (500-233887-F-3-A DU)

Methods 903.0, 9315: Radium-226 batch 613260

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

MW-01 (500-233887-4), MW-08 (500-233887-5), MW-15 (500-233887-6), (LCS 160-613260/2-A), (MB 160-613260/1-A) and (500-233887-G-4-B DU)

Method 904.0: Radium-228 batch 613098

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

MW-09 (500-233887-1), MW-11 (500-233887-2), MW-12 (500-233887-3), (LCS 160-613098/2-A), (MB 160-613098/1-A) and (500-233887-F-3-B DU)

Methods 904.0, 9320: Radium-228 batch 613360

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

MW-01 (500-233887-4), MW-08 (500-233887-5), MW-15 (500-233887-6), (LCS 160-613360/2-A), (MB 160-613360/1-A) and (500-233887-G-4-C DU)

Method PrecSep_0:

Method PrecSep-21:

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

Method Summary

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR (RAD)

Job ID: 500-233887-2

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

Protocol References:

EPA = US Environmental Protection Agency

None = None

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

Laboratory References:

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

Sample Summary

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR (RAD)

Job ID: 500-233887-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-233887-1	MW-09	Water	05/16/23 15:18	05/17/23 10:00
500-233887-2	MW-11	Water	05/16/23 14:01	05/17/23 10:00
500-233887-3	MW-12	Water	05/16/23 12:57	05/17/23 10:00
500-233887-4	MW-01	Water	05/17/23 12:36	05/18/23 09:40
500-233887-5	MW-08	Water	05/17/23 11:32	05/18/23 09:40
500-233887-6	MW-15	Water	05/17/23 13:48	05/18/23 09:40

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

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR (RAD)

Job ID: 500-233887-2

Client Sample ID: MW-09

Lab Sample ID: 500-233887-1

Date Collected: 05/16/23 15:18

Matrix: Water

Date Received: 05/17/23 10:00

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.129	U	0.144	0.144	1.00	0.228	pCi/L	05/25/23 10:10	06/20/23 08:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.0		30 - 110					05/25/23 10:10	06/20/23 08:18	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.000	U	0.282	0.282	1.00	0.534	pCi/L	05/25/23 10:14	06/19/23 14:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.0		30 - 110					05/25/23 10:14	06/19/23 14:37	1
Y Carrier	85.6		30 - 110					05/25/23 10:14	06/19/23 14:37	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.129	U	0.317	0.317	5.00	0.534	pCi/L		06/21/23 11:14	1

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR (RAD)

Job ID: 500-233887-2

Client Sample ID: MW-11

Lab Sample ID: 500-233887-2

Date Collected: 05/16/23 14:01

Matrix: Water

Date Received: 05/17/23 10:00

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.206	U	0.189	0.190	1.00	0.290	pCi/L	05/25/23 10:10	06/20/23 08:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.0		30 - 110					05/25/23 10:10	06/20/23 08:18	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0336	U	0.338	0.338	1.00	0.625	pCi/L	05/25/23 10:14	06/19/23 14:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.0		30 - 110					05/25/23 10:14	06/19/23 14:38	1
Y Carrier	80.4		30 - 110					05/25/23 10:14	06/19/23 14:38	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.239	U	0.387	0.388	5.00	0.625	pCi/L		06/21/23 11:14	1

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR (RAD)

Job ID: 500-233887-2

Client Sample ID: MW-12

Lab Sample ID: 500-233887-3

Date Collected: 05/16/23 12:57

Matrix: Water

Date Received: 05/17/23 10:00

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0828	U	0.160	0.160	1.00	0.285	pCi/L	05/25/23 10:10	06/20/23 08:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.4		30 - 110					05/25/23 10:10	06/20/23 08:18	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.245	U	0.349	0.350	1.00	0.588	pCi/L	05/25/23 10:14	06/19/23 14:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.4		30 - 110					05/25/23 10:14	06/19/23 14:38	1
Y Carrier	83.0		30 - 110					05/25/23 10:14	06/19/23 14:38	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.328	U	0.384	0.385	5.00	0.588	pCi/L		06/21/23 11:14	1

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR (RAD)

Job ID: 500-233887-2

Client Sample ID: MW-01
Date Collected: 05/17/23 12:36
Date Received: 05/18/23 09:40

Lab Sample ID: 500-233887-4
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.129	U	0.158	0.159	1.00	0.259	pCi/L	05/26/23 09:29	06/20/23 22:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.6		30 - 110					05/26/23 09:29	06/20/23 22:35	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.153	U	0.284	0.285	1.00	0.493	pCi/L	05/26/23 13:14	06/20/23 11:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.6		30 - 110					05/26/23 13:14	06/20/23 11:17	1
Y Carrier	80.4		30 - 110					05/26/23 13:14	06/20/23 11:17	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.282	U	0.325	0.326	5.00	0.493	pCi/L		06/21/23 15:27	1

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR (RAD)

Job ID: 500-233887-2

Client Sample ID: MW-08

Lab Sample ID: 500-233887-5

Date Collected: 05/17/23 11:32

Matrix: Water

Date Received: 05/18/23 09:40

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.350		0.209	0.211	1.00	0.267	pCi/L	05/26/23 09:29	06/20/23 22:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.1		30 - 110					05/26/23 09:29	06/20/23 22:35	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.365	U	0.328	0.330	1.00	0.519	pCi/L	05/26/23 13:14	06/20/23 11:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.1		30 - 110					05/26/23 13:14	06/20/23 11:21	1
Y Carrier	83.0		30 - 110					05/26/23 13:14	06/20/23 11:21	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.714		0.389	0.392	5.00	0.519	pCi/L		06/21/23 15:27	1

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR (RAD)

Job ID: 500-233887-2

Client Sample ID: MW-15

Lab Sample ID: 500-233887-6

Date Collected: 05/17/23 13:48

Matrix: Water

Date Received: 05/18/23 09:40

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0106	U	0.126	0.126	1.00	0.265	pCi/L	05/26/23 09:29	06/20/23 22:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.1		30 - 110					05/26/23 09:29	06/20/23 22:37	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.279	U	0.327	0.328	1.00	0.538	pCi/L	05/26/23 13:14	06/20/23 11:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.1		30 - 110					05/26/23 13:14	06/20/23 11:21	1
Y Carrier	84.9		30 - 110					05/26/23 13:14	06/20/23 11:21	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.290	U	0.350	0.351	5.00	0.538	pCi/L		06/21/23 15:27	1

Definitions/Glossary

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR (RAD)

Job ID: 500-233887-2

Qualifiers

Rad

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

Glossary

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

QC Association Summary

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR (RAD)

Job ID: 500-233887-2

Rad

Prep Batch: 613094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-233887-1	MW-09	Total/NA	Water	PrecSep-21	
500-233887-2	MW-11	Total/NA	Water	PrecSep-21	
500-233887-3	MW-12	Total/NA	Water	PrecSep-21	
MB 160-613094/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-613094/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-233887-3 DU	MW-12	Total/NA	Water	PrecSep-21	

Prep Batch: 613098

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-233887-1	MW-09	Total/NA	Water	PrecSep_0	
500-233887-2	MW-11	Total/NA	Water	PrecSep_0	
500-233887-3	MW-12	Total/NA	Water	PrecSep_0	
MB 160-613098/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-613098/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-233887-3 DU	MW-12	Total/NA	Water	PrecSep_0	

Prep Batch: 613260

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-233887-4	MW-01	Total/NA	Water	PrecSep-21	
500-233887-5	MW-08	Total/NA	Water	PrecSep-21	
500-233887-6	MW-15	Total/NA	Water	PrecSep-21	
MB 160-613260/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-613260/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-233887-4 DU	MW-01	Total/NA	Water	PrecSep-21	

Prep Batch: 613360

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-233887-4	MW-01	Total/NA	Water	PrecSep_0	
500-233887-5	MW-08	Total/NA	Water	PrecSep_0	
500-233887-6	MW-15	Total/NA	Water	PrecSep_0	
MB 160-613360/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-613360/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-233887-4 DU	MW-01	Total/NA	Water	PrecSep_0	

QC Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR (RAD)

Job ID: 500-233887-2

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-613094/1-A
Matrix: Water
Analysis Batch: 616862

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 613094

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.003634	U	0.101	0.101	1.00	0.218	pCi/L	05/25/23 10:10	06/20/23 08:13	1
Carrier	MB		Limits							
Ba Carrier	%Yield	MB Qualifier	30 - 110							
	90.5									
								Prepared	Analyzed	Dil Fac
								05/25/23 10:10	06/20/23 08:13	1

Lab Sample ID: LCS 160-613094/2-A
Matrix: Water
Analysis Batch: 616862

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 613094

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits	
				Uncert. (2σ+/-)						
Radium-226	11.3	9.528		1.19	1.00	0.208	pCi/L	84	75 - 125	
Carrier	LCS	LCS								
Ba Carrier	%Yield	Qualifier	Limits							
	93.4		30 - 110							

Lab Sample ID: 500-233887-3 DU
Matrix: Water
Analysis Batch: 616862

Client Sample ID: MW-12
Prep Type: Total/NA
Prep Batch: 613094

Analyte	Sample		DU		Total	RL	MDC	Unit	RER	RER Limit	
	Result	Sample Qual	Result	DU Qual	Uncert. (2σ+/-)						
Radium-226	0.0828	U	0.1925	U	0.173	1.00	0.257	pCi/L	0.33	1	
Carrier	DU	DU									
Ba Carrier	%Yield	Qualifier	Limits								
	87.5		30 - 110								

Lab Sample ID: MB 160-613260/1-A
Matrix: Water
Analysis Batch: 616866

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 613260

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	-0.03010	U	0.129	0.129	1.00	0.292	pCi/L	05/26/23 09:29	06/20/23 20:52	1
Carrier	MB		Limits							
Ba Carrier	%Yield	MB Qualifier	30 - 110							
	87.0									
								Prepared	Analyzed	Dil Fac
								05/26/23 09:29	06/20/23 20:52	1

Lab Sample ID: LCS 160-613260/2-A
Matrix: Water
Analysis Batch: 616866

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 613260

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	9.751		1.28	1.00	0.348	pCi/L	86	75 - 125

Euromins Chicago

QC Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR (RAD)

Job ID: 500-233887-2

Method: 903.0 - Radium-226 (GFPC) (Continued)

Lab Sample ID: LCS 160-613260/2-A
Matrix: Water
Analysis Batch: 616866

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 613260

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	85.4		30 - 110

Lab Sample ID: 500-233887-4 DU
Matrix: Water
Analysis Batch: 616862

Client Sample ID: MW-01
Prep Type: Total/NA
Prep Batch: 613260

Analyte	Sample		DU	DU	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
	Result	Qual								
Radium-226	0.129	U	0.009911	U	0.144	1.00	0.291	pCi/L	0.39	1

	DU	DU	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	91.3		30 - 110

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-613098/1-A
Matrix: Water
Analysis Batch: 616572

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 613098

Analyte	MB		Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier								
Radium-228	0.4105	U	0.369	0.370	1.00	0.584	pCi/L	05/25/23 10:14	06/19/23 14:27	1

	MB	MB	Limits	Prepared	Analyzed	Dil Fac
Carrier	%Yield	Qualifier				
Ba Carrier	90.5		30 - 110	05/25/23 10:14	06/19/23 14:27	1
Y Carrier	84.1		30 - 110	05/25/23 10:14	06/19/23 14:27	1

Lab Sample ID: LCS 160-613098/2-A
Matrix: Water
Analysis Batch: 616572

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 613098

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	93.4		30 - 110
Y Carrier	82.2		30 - 110

Lab Sample ID: 500-233887-3 DU
Matrix: Water
Analysis Batch: 616575

Client Sample ID: MW-12
Prep Type: Total/NA
Prep Batch: 613098

Analyte	Sample		DU	DU	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
	Result	Qual								
Radium-228	0.245	U	0.2001	U	0.317	1.00	0.540	pCi/L	0.07	1

Euromins Chicago

QC Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR (RAD)

Job ID: 500-233887-2

Method: 904.0 - Radium-228 (GFPC) (Continued)

Lab Sample ID: 500-233887-3 DU
Matrix: Water
Analysis Batch: 616575

Client Sample ID: MW-12
Prep Type: Total/NA
Prep Batch: 613098

	DU	DU	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	87.5		30 - 110
Y Carrier	83.0		30 - 110

Lab Sample ID: MB 160-613360/1-A
Matrix: Water
Analysis Batch: 616868

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 613360

Analyte	MB MB		Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier								
Radium-228	0.1566	U	0.299	0.299	1.00	0.517	pCi/L	05/26/23 13:14	06/20/23 11:15	1

	MB	MB		Prepared	Analyzed	Dil Fac
Carrier	%Yield	Qualifier	Limits			
Ba Carrier	87.0		30 - 110	05/26/23 13:14	06/20/23 11:15	1
Y Carrier	86.4		30 - 110	05/26/23 13:14	06/20/23 11:15	1

Lab Sample ID: LCS 160-613360/2-A
Matrix: Water
Analysis Batch: 616868

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 613360

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	85.4		30 - 110
Y Carrier	88.2		30 - 110

Lab Sample ID: 500-233887-4 DU
Matrix: Water
Analysis Batch: 616863

Client Sample ID: MW-01
Prep Type: Total/NA
Prep Batch: 613360

Analyte	Sample Sample		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
	Result	Qual								
Radium-228	0.153	U	0.3729	U	0.352	1.00	0.560	pCi/L	0.34	1

	DU	DU	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	91.3		30 - 110
Y Carrier	80.7		30 - 110

Eurofins Chicago

2417 Bond Street
 University Park IL 60484
 Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record



Environment Testing

Client Information		Sampler: <u>Kaelyn Sperte</u>		Lab PM: <u>Mockler, Diana J</u>		Carrier Tracking No(s): <u>500-233887 COC 31</u>											
Client Contact: <u>Kaelyn Sperte</u>		Phone: <u>262-278-1621</u>		E-Mail: <u>Diana.Mockler@et.eurofinsus.com</u>		State of Origin: <u>IL</u>											
Company: <u>KPRG and Associates, Inc</u>		PWSID:		Analysis Requested													
Address: <u>14665 West Lisbon Road, Suite 1A</u>		Due Date Requested: <u>Standard</u>		Job #: <u>500-887</u> Page 1 of 1 233887 Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Y - Trizma Z - other (specify) Other:													
City: <u>Brookfield</u>		TAT Requested (days): <u>standard</u>															
State, Zip: <u>WI, 53005</u>		Compliance Project. <input type="checkbox"/> Yes <input type="checkbox"/> No															
Phone: <u>262-781-0475(Tel)</u>		PO #: <u>4502125100</u>															
Email: <u>kaelyns@kprginc.com</u>		WO #:															
Project Name: <u>Powerton CCR Event Desc Quarterly Powerton CCR Sampling</u>		Project #: <u>50011612</u>		Field Filtered Sample (Yes or No) Perform M/MS/SD (Yes or No) 903.0, 904.0 6020A, 7470A 2540C, 4500_F_C, SM4500_CLE SM4500_SO4_E - Sulfate													
Site: <u>Illinois</u>		SSOW#:															
Sample Identification		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)		Field Filtered Sample (Yes or No)		Perform M/MS/SD (Yes or No)		Total Number of containers		Special Instructions/Note:	
MW-01		5/17/23		1236		G		Water		XX		XX		XX		XX	
MW-08		5/17/23		1132		G		Water		XX		XX		XX		XX	
MW-09								Water									
MW-11								Water									
MW-12								Water									
MW-15		5/17/23		1348		G		Water		XX		XX		XX		XX	
MW-17								Water									
MW-18								Water									
MW-19								Water									
Possible Hazard Identification										Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)							
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Deliverable Requested I, II, III, IV, Other (specify)										Special Instructions/QC Requirements							
Empty Kit Relinquished by:				Date:				Time:				Method of Shipment:					
Relinquished by: <u>Kaelyn Sperte</u>				Date/Time: <u>5/17/23/1730</u>				Company: <u>KPRG</u>				Received by: <u>FedEx</u>					
Relinquished by:				Date/Time:				Company:				Received by: <u>[Signature]</u>					
Relinquished by:				Date/Time:				Company:				Received by: <u>[Signature]</u>					
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No				Custody Seal No				Cooler Temperature(s) °C and Other Remarks: <u>0.4 - 0.1</u>									

Eurofins Chicago

2417 Bond Street
 University Park IL 60484
 Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record



eurofins | Environment Testing

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<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological						<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months																																																																																																																																																																																																																																																																																																																																											
Deliverable Requested I, II, III, IV, Other (specify)						Special Instructions/QC Requirements																																																																																																																																																																																																																																																																																																																																											
Empty Kit Relinquished by		Date		Time		Method of Shipment:																																																																																																																																																																																																																																																																																																																																											
Relinquished by: <i>Kaelyn Sperle</i>		Date/Time: <i>5/18/23/1715</i>		Company: <i>KPRG</i>		Received by: <i>FedEx</i>		Date/Time: <i>5/18/23/1715</i>		Company: <i>FedEx</i>																																																																																																																																																																																																																																																																																																																																							
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Custody Seals Intact. <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks: <i>-2.4 - -2.0</i>																																																																																																																																																																																																																																																																																																																																													

ORIGIN ID:PIAA (262) 278-1621

KPRG AND ASSOCIATES
414 PLAZA DR STE 106

WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 16MAY23
ACTWGT: 58 00 LB
CAD: 6994779/SSFE2420
DIMS: 24x18x12 IN

BILL THIRD PARTY

Part # 156297-438344388-23795/2

TO **SAMPLE RECEIVING
EUROFINS CHICAGO
2417 BOND ST**



UNIVERSITY PARK IL 60

(000) 000-0000

REF

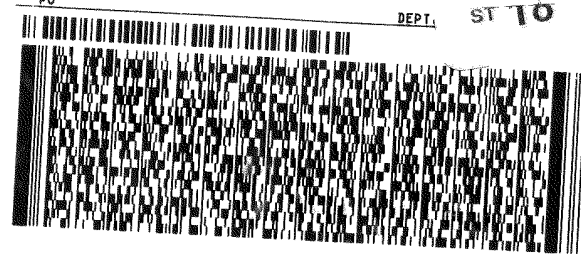
500-233887 Waybl

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Express**



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XN JOTA

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ORIGIN ID:PIAA (262) 278-1621
KPRG AND ASSOCIATES
414 PLAZA DR STE 106
WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 17MAY23
ACTWGT: 50.00 LB
CAD: 6994778/SSFE2420
DIMS: 24x18x12 IN
BILL THIRD PARTY

Part # 166297-435 RROB2 EXP 09/23
0231/2022/ETES

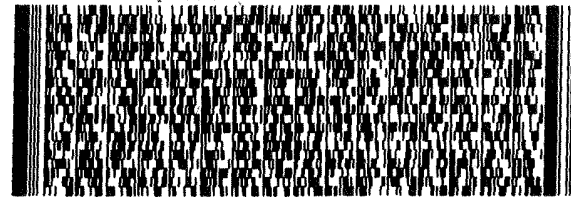
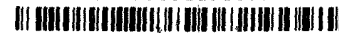
TO **SAMPLE RECEIVING**
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4 of 5

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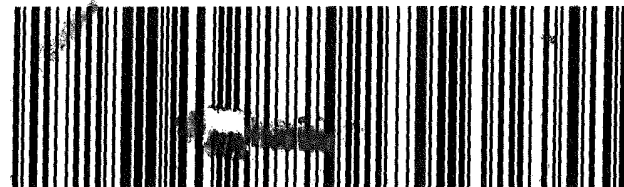
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THU - 18 MAY 10:30A
PRIORITY OVERNIGHT

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Do Not Lift Using This Tag

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ORIGIN ID:PIAA (000) 000-0000
KPRG AND ASSOCIATES
414 PLAZA DR STE 106
WESTMONT, IL 60559
UNITED STATES US

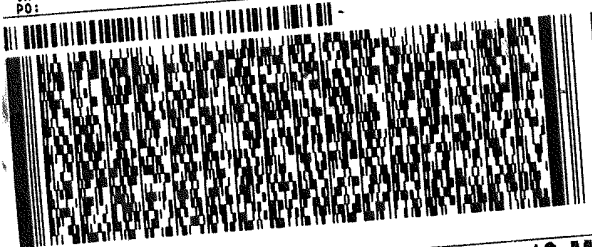
SHIP DATE: 18MAY23
ACTWTG: 43.00 LB
CAD: 6994779/SSFE2420
DIMS: 24x18x12 IN
BILL THIRD PARTY

Part # 150297-455JPR88-63631123

SAMPLE RECEIVING
EUROFINS CHICAGO
2417 BOND ST

UNIVERSITY PARK IL 60484

(000) 000-0000 REF: DEPT:



2 of 3
MPS# 3984 9766 7203
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Do Not Lift Using This Tag

ORIGIN ID:PIAA (000) 000-0000
KPRG AND ASSOCIATES
414 PLAZA DR STE 106
WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 18MAY23
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DIMS: 24x18x12 IN
BILL THIRD PARTY

Part # 150297-455JPR88-63631123

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(000) 000-0000 REF:



1 of 3
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Chain of Custody Record



Environment Testing



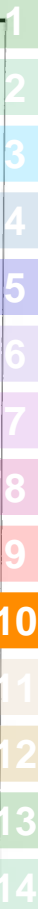
Client Information (Sub Contract Lab)		Sampler:	Lab PM:	Carrier Tracking No(s):	COC No:	
Client Contact: Shipping/Receiving		Phone:	Mockler, Diana J		500-174049-1	
Company: TestAmerica Laboratories, Inc.		E-Mail: Diana.Mockler@et.eurofins.com		State of Origin: Illinois	Page: Page 1 of 1	
Address: 13715 Rider Trail North,		Accreditations Required (See note): NELAP - Illinois		Job #: 500-233887-2	Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify)	
City: Earth City		Due Date Requested: 6/21/2023	Analysis Requested			
State, Zip: MO, 63045		TAT Requested (days):	Total Number of Containers			
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		PO #:	904.0/Precep_0 Standard Target List			
Email: Powerton CCR (RAD)		WO #:	903.0/Precep_21 Standard Target List			
Project Name: Powerton CCR (RAD)		Project #: 50011612	Perform MS/MSD (Yes or No)			
Site: MWG - Powerton		SSOW#:	Field Filtered Sample (Yes or No)			
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Water, Seawater, Wastewater, BI=Tissue, A=Air)	Preservation Code:	Special Instructions/Note:
MW-01 (500-233887-4)	5/17/23	12:36 Central		Water		Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no
MW-08 (500-233887-5)	5/17/23	11:32 Central		Water		Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no
MW-15 (500-233887-6)	5/17/23	13:48 Central		Water		Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no
						19

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2
 Empty Kit Relinquished by: Date: Method of Shipment: Months
 Special Instructions/QC Requirements: Return To Client Disposal By Lab Archive For

Relinquished by: *[Signature]* Date/Time: 5/19/23 16:00 Company: *fedex*
 Relinquished by: *fedex* Date/Time: Date/Time: Company: *ETASTC*
 Relinquished by: Date/Time: Company: *ETASTC*

Custody Seals Intact: Yes No No
 Cooler Temperature(s) °C and Other Remarks:



Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-233887-2

Login Number: 233887

List Number: 1

Creator: James, Jeff A

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.3,0.1,-2.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-233887-2

Login Number: 233887

List Number: 2

Creator: Farrell, Conor P

List Source: Eurofins St. Louis

List Creation: 05/18/23 01:47 PM

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

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-233887-2

Login Number: 233887

List Number: 3

Creator: Sharkey-Gonzalez, Briana L

List Source: Eurofins St. Louis

List Creation: 05/22/23 06:02 PM

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



Lab Chronicle

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR (RAD)

Job ID: 500-233887-2

Client Sample ID: MW-09

Lab Sample ID: 500-233887-1

Date Collected: 05/16/23 15:18

Matrix: Water

Date Received: 05/17/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			613094	KAC	EET SL	05/25/23 10:10
Total/NA	Analysis	903.0		1	616862	FLC	EET SL	06/20/23 08:18
Total/NA	Prep	PrecSep_0			613098	KAC	EET SL	05/25/23 10:14
Total/NA	Analysis	904.0		1	616575	FLC	EET SL	06/19/23 14:37
Total/NA	Analysis	Ra226_Ra228		1	616996	SCB	EET SL	06/21/23 11:14

Client Sample ID: MW-11

Lab Sample ID: 500-233887-2

Date Collected: 05/16/23 14:01

Matrix: Water

Date Received: 05/17/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			613094	KAC	EET SL	05/25/23 10:10
Total/NA	Analysis	903.0		1	616862	FLC	EET SL	06/20/23 08:18
Total/NA	Prep	PrecSep_0			613098	KAC	EET SL	05/25/23 10:14
Total/NA	Analysis	904.0		1	616575	FLC	EET SL	06/19/23 14:38
Total/NA	Analysis	Ra226_Ra228		1	616996	SCB	EET SL	06/21/23 11:14

Client Sample ID: MW-12

Lab Sample ID: 500-233887-3

Date Collected: 05/16/23 12:57

Matrix: Water

Date Received: 05/17/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			613094	KAC	EET SL	05/25/23 10:10
Total/NA	Analysis	903.0		1	616862	FLC	EET SL	06/20/23 08:18
Total/NA	Prep	PrecSep_0			613098	KAC	EET SL	05/25/23 10:14
Total/NA	Analysis	904.0		1	616575	FLC	EET SL	06/19/23 14:38
Total/NA	Analysis	Ra226_Ra228		1	616996	SCB	EET SL	06/21/23 11:14

Client Sample ID: MW-01

Lab Sample ID: 500-233887-4

Date Collected: 05/17/23 12:36

Matrix: Water

Date Received: 05/18/23 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			613260	KAC	EET SL	05/26/23 09:29
Total/NA	Analysis	903.0		1	616862	FLC	EET SL	06/20/23 22:35
Total/NA	Prep	PrecSep_0			613360	KAC	EET SL	05/26/23 13:14
Total/NA	Analysis	904.0		1	616868	FLC	EET SL	06/20/23 11:17
Total/NA	Analysis	Ra226_Ra228		1	617159	EMH	EET SL	06/21/23 15:27

Lab Chronicle

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR (RAD)

Job ID: 500-233887-2

Client Sample ID: MW-08
Date Collected: 05/17/23 11:32
Date Received: 05/18/23 09:40

Lab Sample ID: 500-233887-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			613260	KAC	EET SL	05/26/23 09:29
Total/NA	Analysis	903.0		1	616862	FLC	EET SL	06/20/23 22:35
Total/NA	Prep	PrecSep_0			613360	KAC	EET SL	05/26/23 13:14
Total/NA	Analysis	904.0		1	616863	FLC	EET SL	06/20/23 11:21
Total/NA	Analysis	Ra226_Ra228		1	617159	EMH	EET SL	06/21/23 15:27

Client Sample ID: MW-15
Date Collected: 05/17/23 13:48
Date Received: 05/18/23 09:40

Lab Sample ID: 500-233887-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			613260	KAC	EET SL	05/26/23 09:29
Total/NA	Analysis	903.0		1	616862	FLC	EET SL	06/20/23 22:37
Total/NA	Prep	PrecSep_0			613360	KAC	EET SL	05/26/23 13:14
Total/NA	Analysis	904.0		1	616863	FLC	EET SL	06/20/23 11:21
Total/NA	Analysis	Ra226_Ra228		1	617159	EMH	EET SL	06/21/23 15:27

Laboratory References:

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



Accreditation/Certification Summary

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR (RAD)

Job ID: 500-233887-2

Laboratory: Eurofins St. Louis

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	200023	11-30-23

- 1
- 2
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Tracer/Carrier Summary

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR (RAD)

Job ID: 500-233887-2

Method: 903.0 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

Percent Yield (Acceptance Limits)

Lab Sample ID	Client Sample ID	Ba (30-110)
500-233887-1	MW-09	90.0
500-233887-2	MW-11	87.0
500-233887-3	MW-12	86.4
500-233887-3 DU	MW-12	87.5
500-233887-4	MW-01	91.6
500-233887-4 DU	MW-01	91.3
500-233887-5	MW-08	92.1
500-233887-6	MW-15	94.1
LCS 160-613094/2-A	Lab Control Sample	93.4
LCS 160-613260/2-A	Lab Control Sample	85.4
MB 160-613094/1-A	Method Blank	90.5
MB 160-613260/1-A	Method Blank	87.0

Tracer/Carrier Legend

Ba = Ba Carrier

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

Percent Yield (Acceptance Limits)

Lab Sample ID	Client Sample ID	Ba (30-110)	Y (30-110)
500-233887-1	MW-09	90.0	85.6
500-233887-2	MW-11	87.0	80.4
500-233887-3	MW-12	86.4	83.0
500-233887-3 DU	MW-12	87.5	83.0
500-233887-4	MW-01	91.6	80.4
500-233887-4 DU	MW-01	91.3	80.7
500-233887-5	MW-08	92.1	83.0
500-233887-6	MW-15	94.1	84.9
LCS 160-613098/2-A	Lab Control Sample	93.4	82.2
LCS 160-613360/2-A	Lab Control Sample	85.4	88.2
MB 160-613098/1-A	Method Blank	90.5	84.1
MB 160-613360/1-A	Method Blank	87.0	86.4

Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier

 **ANALYTICAL REPORT****PREPARED FOR**

Attn: Richard Gnat
KPRG and Associates, Inc.
14665 West Lisbon Road,
Suite 1A
Brookfield, Wisconsin 53005

Generated 6/8/2023 3:23:35 PM

JOB DESCRIPTION

Powerton CCR ABB/ASB

JOB NUMBER

500-233887-3

Eurofins Chicago

Job Notes

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

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

Authorization



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Authorized for release by
Diana Mockler, Project Manager I
Diana.Mockler@et.eurofinsus.com
(219)252-7570



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Case Narrative

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR ABB/ASB

Job ID: 500-233887-3

Job ID: 500-233887-3

Laboratory: Eurofins Chicago

Narrative

**Job Narrative
500-233887-3**

Receipt

The samples were received on 5/17/2023 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were -2.0° C, 0.1° C and 5.3° C.

Metals

Methods 6020A, 6020B: The initial low level and continuing calibration verification (ICVL/CCVL) associated with batch 500-715021 recovered above the upper control limit for Beryllium. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported.

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

General Chemistry

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



Method Summary

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR ABB/ASB

Job ID: 500-233887-3

Method	Method Description	Protocol	Laboratory
6020A	Metals (ICP/MS)	SW846	EET CHI
7470A	Mercury (CVAA)	SW846	EET CHI
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET CHI
SM 4500 Cl- E	Chloride, Total	SM	EET CHI
SM 4500 F C	Fluoride	SM	EET CHI
SM 4500 SO4 E	Sulfate, Total	SM	EET CHI
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CHI
7470A	Preparation, Mercury	SW846	EET CHI

Protocol References:

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

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

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR ABB/ASB

Job ID: 500-233887-3

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-233887-7	MW-17	Water	05/18/23 13:37	05/19/23 10:00
500-233887-8	MW-18	Water	05/18/23 12:34	05/19/23 10:00
500-233887-9	MW-19	Water	05/18/23 14:41	05/19/23 10:00
500-233887-10	Duplicate	Water	05/18/23 00:00	05/19/23 10:00

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Client Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Powerton CCR ABB/ASB

Job ID: 500-233887-3

Client Sample ID: MW-17

Lab Sample ID: 500-233887-7

Date Collected: 05/18/23 13:37

Matrix: Water

Date Received: 05/19/23 10:00

Method: SW846 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/22/23 09:02	05/24/23 20:10	1
Arsenic	0.0026		0.0010		mg/L		05/22/23 09:02	05/23/23 23:05	1
Barium	0.023		0.0025		mg/L		05/22/23 09:02	05/23/23 23:05	1
Beryllium	<0.0010	^+ ^1+	0.0010		mg/L		05/22/23 09:02	05/23/23 23:05	1
Boron	0.98		0.050		mg/L		05/22/23 09:02	05/23/23 23:05	1
Cadmium	<0.00050		0.00050		mg/L		05/22/23 09:02	05/23/23 23:05	1
Calcium	150		0.20		mg/L		05/22/23 09:02	05/24/23 20:10	1
Chromium	<0.0050		0.0050		mg/L		05/22/23 09:02	05/23/23 23:05	1
Cobalt	<0.0010		0.0010		mg/L		05/22/23 09:02	05/23/23 23:05	1
Lead	<0.00050		0.00050		mg/L		05/22/23 09:02	05/23/23 23:05	1
Lithium	0.011		0.010		mg/L		05/22/23 09:02	05/25/23 16:43	1
Molybdenum	0.058		0.0050		mg/L		05/22/23 09:02	05/23/23 23:05	1
Selenium	<0.0025		0.0025		mg/L		05/22/23 09:02	05/23/23 23:05	1
Thallium	<0.0020		0.0020		mg/L		05/22/23 09:02	05/23/23 23:05	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/06/23 09:55	06/07/23 08:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1400		10		mg/L			05/22/23 01:10	1
Chloride (SM 4500 Cl- E)	190		20		mg/L			05/24/23 16:32	10
Fluoride (SM 4500 F C)	0.65		0.10		mg/L			05/24/23 08:35	1
Sulfate (SM 4500 SO4 E)	460		250		mg/L			05/26/23 14:10	50

Client Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Powerton CCR ABB/ASB

Job ID: 500-233887-3

Client Sample ID: MW-18

Lab Sample ID: 500-233887-8

Date Collected: 05/18/23 12:34

Matrix: Water

Date Received: 05/19/23 10:00

Method: SW846 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/22/23 09:02	05/24/23 20:14	1
Arsenic	<0.0010		0.0010		mg/L		05/22/23 09:02	05/23/23 23:09	1
Barium	0.12		0.0025		mg/L		05/22/23 09:02	05/23/23 23:09	1
Beryllium	<0.0010	^+ ^1+	0.0010		mg/L		05/22/23 09:02	05/23/23 23:09	1
Boron	0.61		0.050		mg/L		05/22/23 09:02	05/23/23 23:09	1
Cadmium	<0.00050		0.00050		mg/L		05/22/23 09:02	05/23/23 23:09	1
Calcium	130		0.20		mg/L		05/22/23 09:02	05/24/23 20:14	1
Chromium	<0.0050		0.0050		mg/L		05/22/23 09:02	05/23/23 23:09	1
Cobalt	<0.0010		0.0010		mg/L		05/22/23 09:02	05/23/23 23:09	1
Lead	<0.00050		0.00050		mg/L		05/22/23 09:02	05/23/23 23:09	1
Lithium	<0.010		0.010		mg/L		05/22/23 09:02	05/25/23 16:54	1
Molybdenum	0.0060		0.0050		mg/L		05/22/23 09:02	05/23/23 23:09	1
Selenium	<0.0025		0.0025		mg/L		05/22/23 09:02	05/23/23 23:09	1
Thallium	<0.0020		0.0020		mg/L		05/22/23 09:02	05/23/23 23:09	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/06/23 09:55	06/07/23 08:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1000		10		mg/L			05/22/23 01:13	1
Chloride (SM 4500 Cl- E)	140		10		mg/L			05/24/23 16:32	5
Fluoride (SM 4500 F C)	0.52		0.10		mg/L			05/24/23 08:35	1
Sulfate (SM 4500 SO4 E)	120		50		mg/L			05/26/23 14:24	10

Client Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Powerton CCR ABB/ASB

Job ID: 500-233887-3

Client Sample ID: MW-19
Date Collected: 05/18/23 14:41
Date Received: 05/19/23 10:00

Lab Sample ID: 500-233887-9
Matrix: Water

Method: SW846 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/22/23 09:02	05/24/23 20:17	1
Arsenic	<0.0010		0.0010		mg/L		05/22/23 09:02	05/23/23 23:12	1
Barium	0.069		0.0025		mg/L		05/22/23 09:02	05/23/23 23:12	1
Beryllium	<0.0010	^+ ^1+	0.0010		mg/L		05/22/23 09:02	05/23/23 23:12	1
Boron	3.8		0.050		mg/L		05/22/23 09:02	05/23/23 23:12	1
Cadmium	<0.00050		0.00050		mg/L		05/22/23 09:02	05/23/23 23:12	1
Calcium	78		0.20		mg/L		05/22/23 09:02	05/24/23 20:17	1
Chromium	<0.0050		0.0050		mg/L		05/22/23 09:02	05/23/23 23:12	1
Cobalt	<0.0010		0.0010		mg/L		05/22/23 09:02	05/23/23 23:12	1
Lead	<0.00050		0.00050		mg/L		05/22/23 09:02	05/23/23 23:12	1
Lithium	0.010		0.010		mg/L		05/22/23 09:02	05/25/23 16:57	1
Molybdenum	0.030		0.0050		mg/L		05/22/23 09:02	05/23/23 23:12	1
Selenium	0.0035		0.0025		mg/L		05/22/23 09:02	05/23/23 23:12	1
Thallium	<0.0020		0.0020		mg/L		05/22/23 09:02	05/23/23 23:12	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/06/23 09:55	06/07/23 08:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	580		10		mg/L			05/22/23 01:15	1
Chloride (SM 4500 Cl- E)	31		2.0		mg/L			05/24/23 16:33	1
Fluoride (SM 4500 F C)	0.13		0.10		mg/L			05/24/23 08:35	1
Sulfate (SM 4500 SO4 E)	150		50		mg/L			05/26/23 14:24	10

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR ABB/ASB

Job ID: 500-233887-3

Client Sample ID: Duplicate

Lab Sample ID: 500-233887-10

Date Collected: 05/18/23 00:00

Matrix: Water

Date Received: 05/19/23 10:00

Method: SW846 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/22/23 09:02	05/24/23 20:20	1
Arsenic	0.0015		0.0010		mg/L		05/22/23 09:02	05/23/23 23:16	1
Barium	0.11		0.0025		mg/L		05/22/23 09:02	05/23/23 23:16	1
Beryllium	<0.0010	^+ ^1+	0.0010		mg/L		05/22/23 09:02	05/23/23 23:16	1
Boron	0.59		0.050		mg/L		05/22/23 09:02	05/23/23 23:16	1
Cadmium	<0.00050		0.00050		mg/L		05/22/23 09:02	05/23/23 23:16	1
Calcium	130		0.20		mg/L		05/22/23 09:02	05/24/23 20:20	1
Chromium	<0.0050		0.0050		mg/L		05/22/23 09:02	05/23/23 23:16	1
Cobalt	<0.0010		0.0010		mg/L		05/22/23 09:02	05/23/23 23:16	1
Lead	<0.00050		0.00050		mg/L		05/22/23 09:02	05/23/23 23:16	1
Lithium	0.011		0.010		mg/L		05/22/23 09:02	06/08/23 13:11	1
Molybdenum	0.0059		0.0050		mg/L		05/22/23 09:02	05/23/23 23:16	1
Selenium	<0.0025		0.0025		mg/L		05/22/23 09:02	05/23/23 23:16	1
Thallium	<0.0020		0.0020		mg/L		05/22/23 09:02	05/23/23 23:16	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/06/23 09:55	06/07/23 08:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1100		10		mg/L			05/22/23 01:18	1
Chloride (SM 4500 Cl- E)	150		20		mg/L			05/24/23 16:33	10
Fluoride (SM 4500 F C)	0.56		0.10		mg/L			05/24/23 08:35	1
Sulfate (SM 4500 SO4 E)	110		50		mg/L			05/26/23 14:25	10

Definitions/Glossary

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR ABB/ASB

Job ID: 500-233887-3

Qualifiers

Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
^1+	Initial Calibration Verification (ICV) is outside acceptance limits, high biased.

Glossary

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

QC Association Summary

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR ABB/ASB

Job ID: 500-233887-3

Metals

Prep Batch: 714515

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-233887-7	MW-17	Total Recoverable	Water	3005A	
500-233887-8	MW-18	Total Recoverable	Water	3005A	
500-233887-9	MW-19	Total Recoverable	Water	3005A	
500-233887-10	Duplicate	Total Recoverable	Water	3005A	
MB 500-714515/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-714515/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 715021

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-233887-7	MW-17	Total Recoverable	Water	6020A	714515
500-233887-8	MW-18	Total Recoverable	Water	6020A	714515
500-233887-9	MW-19	Total Recoverable	Water	6020A	714515
500-233887-10	Duplicate	Total Recoverable	Water	6020A	714515
MB 500-714515/1-A	Method Blank	Total Recoverable	Water	6020A	714515
LCS 500-714515/2-A	Lab Control Sample	Total Recoverable	Water	6020A	714515

Analysis Batch: 715273

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-233887-7	MW-17	Total Recoverable	Water	6020A	714515
500-233887-8	MW-18	Total Recoverable	Water	6020A	714515
500-233887-9	MW-19	Total Recoverable	Water	6020A	714515
500-233887-10	Duplicate	Total Recoverable	Water	6020A	714515
MB 500-714515/1-A	Method Blank	Total Recoverable	Water	6020A	714515
LCS 500-714515/2-A	Lab Control Sample	Total Recoverable	Water	6020A	714515

Analysis Batch: 715492

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-233887-7	MW-17	Total Recoverable	Water	6020A	714515
500-233887-8	MW-18	Total Recoverable	Water	6020A	714515
500-233887-9	MW-19	Total Recoverable	Water	6020A	714515
MB 500-714515/1-A	Method Blank	Total Recoverable	Water	6020A	714515
LCS 500-714515/2-A	Lab Control Sample	Total Recoverable	Water	6020A	714515

Prep Batch: 716983

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-233887-7	MW-17	Total/NA	Water	7470A	
500-233887-8	MW-18	Total/NA	Water	7470A	
500-233887-9	MW-19	Total/NA	Water	7470A	
500-233887-10	Duplicate	Total/NA	Water	7470A	
MB 500-716983/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-716983/13-A	Lab Control Sample	Total/NA	Water	7470A	
500-233887-9 MS	MW-19	Total/NA	Water	7470A	
500-233887-9 MSD	MW-19	Total/NA	Water	7470A	
500-233887-9 DU	MW-19	Total/NA	Water	7470A	

Analysis Batch: 717281

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-233887-7	MW-17	Total/NA	Water	7470A	716983
500-233887-8	MW-18	Total/NA	Water	7470A	716983
500-233887-9	MW-19	Total/NA	Water	7470A	716983
500-233887-10	Duplicate	Total/NA	Water	7470A	716983

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QC Association Summary

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR ABB/ASB

Job ID: 500-233887-3

Metals (Continued)

Analysis Batch: 717281 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-716983/12-A	Method Blank	Total/NA	Water	7470A	716983
LCS 500-716983/13-A	Lab Control Sample	Total/NA	Water	7470A	716983
500-233887-9 MS	MW-19	Total/NA	Water	7470A	716983
500-233887-9 MSD	MW-19	Total/NA	Water	7470A	716983
500-233887-9 DU	MW-19	Total/NA	Water	7470A	716983

Analysis Batch: 717605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-233887-10	Duplicate	Total Recoverable	Water	6020A	714515

General Chemistry

Analysis Batch: 714420

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-233887-7	MW-17	Total/NA	Water	SM 2540C	
500-233887-8	MW-18	Total/NA	Water	SM 2540C	
500-233887-9	MW-19	Total/NA	Water	SM 2540C	
500-233887-10	Duplicate	Total/NA	Water	SM 2540C	
MB 500-714420/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-714420/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 715052

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-233887-7	MW-17	Total/NA	Water	SM 4500 F C	
500-233887-8	MW-18	Total/NA	Water	SM 4500 F C	
500-233887-9	MW-19	Total/NA	Water	SM 4500 F C	
500-233887-10	Duplicate	Total/NA	Water	SM 4500 F C	
MB 500-715052/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-715052/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	

Analysis Batch: 715089

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-233887-7	MW-17	Total/NA	Water	SM 4500 CI- E	
500-233887-8	MW-18	Total/NA	Water	SM 4500 CI- E	
500-233887-9	MW-19	Total/NA	Water	SM 4500 CI- E	
500-233887-10	Duplicate	Total/NA	Water	SM 4500 CI- E	
MB 500-715089/113	Method Blank	Total/NA	Water	SM 4500 CI- E	
LCS 500-715089/114	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	

Analysis Batch: 715553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-233887-7	MW-17	Total/NA	Water	SM 4500 SO4 E	
500-233887-8	MW-18	Total/NA	Water	SM 4500 SO4 E	
500-233887-9	MW-19	Total/NA	Water	SM 4500 SO4 E	
500-233887-10	Duplicate	Total/NA	Water	SM 4500 SO4 E	
MB 500-715553/16	Method Blank	Total/NA	Water	SM 4500 SO4 E	
MB 500-715553/33	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-715553/17	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
LCS 500-715553/35	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	

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QC Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR ABB/ASB

Job ID: 500-233887-3

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 500-714515/1-A
Matrix: Water
Analysis Batch: 715021

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 714515

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	<0.0010		0.0010		mg/L		05/22/23 09:02	05/23/23 22:21	1
Barium	<0.0025		0.0025		mg/L		05/22/23 09:02	05/23/23 22:21	1
Beryllium	<0.0010	^+ ^1+	0.0010		mg/L		05/22/23 09:02	05/23/23 22:21	1
Boron	<0.050		0.050		mg/L		05/22/23 09:02	05/23/23 22:21	1
Cadmium	<0.00050		0.00050		mg/L		05/22/23 09:02	05/23/23 22:21	1
Chromium	<0.0050		0.0050		mg/L		05/22/23 09:02	05/23/23 22:21	1
Cobalt	<0.0010		0.0010		mg/L		05/22/23 09:02	05/23/23 22:21	1
Lead	<0.00050		0.00050		mg/L		05/22/23 09:02	05/23/23 22:21	1
Molybdenum	<0.0050		0.0050		mg/L		05/22/23 09:02	05/23/23 22:21	1
Selenium	<0.0025		0.0025		mg/L		05/22/23 09:02	05/23/23 22:21	1
Thallium	<0.0020		0.0020		mg/L		05/22/23 09:02	05/23/23 22:21	1

Lab Sample ID: MB 500-714515/1-A
Matrix: Water
Analysis Batch: 715273

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 714515

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0030		0.0030		mg/L		05/22/23 09:02	05/24/23 19:19	1
Calcium	<0.20		0.20		mg/L		05/22/23 09:02	05/24/23 19:19	1

Lab Sample ID: MB 500-714515/1-A
Matrix: Water
Analysis Batch: 715492

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 714515

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Lithium	<0.010		0.010		mg/L		05/22/23 09:02	05/25/23 16:13	1

Lab Sample ID: LCS 500-714515/2-A
Matrix: Water
Analysis Batch: 715021

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 714515

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Arsenic	0.100	0.0987		mg/L		99	80 - 120
Barium	2.00	1.98		mg/L		99	80 - 120
Beryllium	0.0500	0.0541	^+ ^1+	mg/L		108	80 - 120
Boron	1.00	1.00		mg/L		100	80 - 120
Cadmium	0.0500	0.0485		mg/L		97	80 - 120
Chromium	0.200	0.192		mg/L		96	80 - 120
Cobalt	0.500	0.477		mg/L		95	80 - 120
Lead	0.100	0.101		mg/L		101	80 - 120
Molybdenum	1.00	0.885		mg/L		88	80 - 120
Selenium	0.100	0.0992		mg/L		99	80 - 120
Thallium	0.100	0.0978		mg/L		98	80 - 120

QC Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR ABB/ASB

Job ID: 500-233887-3

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

Lab Sample ID: LCS 500-714515/2-A
Matrix: Water
Analysis Batch: 715273

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 714515

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.485		mg/L		97	80 - 120
Calcium	10.0	8.73		mg/L		87	80 - 120

Lab Sample ID: LCS 500-714515/2-A
Matrix: Water
Analysis Batch: 715492

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 714515

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.500	0.486		mg/L		97	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-716983/12-A
Matrix: Water
Analysis Batch: 717281

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 716983

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/06/23 09:55	06/07/23 08:18	1

Lab Sample ID: LCS 500-716983/13-A
Matrix: Water
Analysis Batch: 717281

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 716983

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00198	0.00202		mg/L		102	80 - 120

Lab Sample ID: 500-233887-9 MS
Matrix: Water
Analysis Batch: 717281

Client Sample ID: MW-19
Prep Type: Total/NA
Prep Batch: 716983

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.00020		0.00100	0.00107		mg/L		107	75 - 125

Lab Sample ID: 500-233887-9 MSD
Matrix: Water
Analysis Batch: 717281

Client Sample ID: MW-19
Prep Type: Total/NA
Prep Batch: 716983

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.00020		0.00100	0.00105		mg/L		105	75 - 125	2	20

Lab Sample ID: 500-233887-9 DU
Matrix: Water
Analysis Batch: 717281

Client Sample ID: MW-19
Prep Type: Total/NA
Prep Batch: 716983

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	<0.00020		<0.00020		mg/L		NC	20

QC Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR ABB/ASB

Job ID: 500-233887-3

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

Lab Sample ID: MB 500-714420/1
Matrix: Water
Analysis Batch: 714420

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10		mg/L			05/22/23 00:24	1

Lab Sample ID: LCS 500-714420/2
Matrix: Water
Analysis Batch: 714420

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	242		mg/L		97	80 - 120

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 500-715089/113
Matrix: Water
Analysis Batch: 715089

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<2.0		2.0		mg/L			05/24/23 16:30	1

Lab Sample ID: LCS 500-715089/114
Matrix: Water
Analysis Batch: 715089

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	19.5		mg/L		98	85 - 115

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-715052/3
Matrix: Water
Analysis Batch: 715052

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10		mg/L			05/24/23 08:35	1

Lab Sample ID: LCS 500-715052/4
Matrix: Water
Analysis Batch: 715052

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	10.0	10.0		mg/L		100	90 - 119

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 500-715553/16
Matrix: Water
Analysis Batch: 715553

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<5.0		5.0		mg/L			05/26/23 14:07	1

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QC Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Powerton CCR ABB/ASB

Job ID: 500-233887-3

Method: SM 4500 SO4 E - Sulfate, Total (Continued)

Lab Sample ID: MB 500-715553/33
Matrix: Water
Analysis Batch: 715553

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<5.0		5.0		mg/L			05/26/23 14:15	1

Lab Sample ID: LCS 500-715553/17
Matrix: Water
Analysis Batch: 715553

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	20.0	20.2		mg/L		101	88 - 123

Lab Sample ID: LCS 500-715553/35
Matrix: Water
Analysis Batch: 715553

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	20.0	20.6		mg/L		103	88 - 123

Eurofins Chicago

2417 Bond Street
 University Park, IL 60484
 Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record



Environment Testing

Client Information		Sampler: <u>Kaelyn Sperle</u>		Lab PM: <u>Mockler Diana J</u>		Carrier Tracking No(s):		800-233887 COC 1											
Client Contact: <u>Kaelyn Sperle</u>		Phone: <u>262-278-1621</u>		E-Mail: <u>Diana.Mockler@et.eurofinsus.com</u>		State of Origin: <u>IL</u>		Page 1 of 1											
Company: <u>KPRG and Associates, Inc</u>				PWSID:		Analysis Requested													
Address: <u>14665 West Lisbon Road, Suite 1A</u>				Due Date Requested: <u>Standard</u>		Job #: <u>EW-233887</u> Preservation Codes A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Y - Trizma Z - other (specify) Other:													
City: <u>Brookfield</u>		TAT Requested (days): <u>Standard</u>		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No															
State, Zip: <u>WI, 53005</u>		PO #: <u>4502125100</u>		WO #:															
Phone: <u>262-781-0475(Tel)</u>		Project #: <u>50011612</u>		SSOW#:															
Email: <u>kaelyns@kprginc.com</u>		Project Name: <u>Powerton CCR Event Desc. Quarterly Powerton CCR Sampling</u>		Site: <u>Illinois</u>															
Project Name: <u>Powerton CCR Event Desc. Quarterly Powerton CCR Sampling</u>		Project #: <u>50011612</u>		SSOW#:															
Site: <u>Illinois</u>		SSOW#:																	
SSOW#:																			
Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		Total Number of containers		Special Instructions/Note:			
MW-01								Water											
MW-08								Water											
1 2 3 MW-09		5/16/23		1518		G		Water		M N		X X X X							
MW-11		5/16/23		1401		↓		Water		M N		X X X X							
MW-12		5/16/23		1257		↓		Water		M N		↓ ↓ ↓ ↓							
MW-15								Water											
MW-17								Water											
MW-18								Water											
MW-19								Water											
MW-19								Water											
MW-19								Water											
MW-19								Water											
Possible Hazard Identification										Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)									
<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological										<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months									
Deliverable Requested I, II, III, IV, Other (specify)										Special Instructions/QC Requirements									
Empty Kit Relinquished by:					Date					Time					Method of Shipment:				
Relinquished by: <u>Kaelyn Sperle</u>					Date/Time: <u>5/16/23/1700</u>					Company: <u>KPRG</u>					Received by: <u>FedEx</u>				
Relinquished by:					Date/Time:					Company:					Received by: <u>[Signature]</u>				
Relinquished by:					Date/Time:					Company:					Date/Time: <u>5/17/23 1000</u>				
Custody Seals Intact.					Custody Seal No					Cooler Temperature(s) °C and Other Remarks <u>5.4-5.3</u>									

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 University Park IL 60484
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Chain of Custody Record



Environment Testing

Client Information		Sampler Kaelyn Sperte		Lab PM Mockler, Diana J		Carrier Tracking No(s): 500-233887 COC 31																																						
Client Contact: Kaelyn Sperte		Phone 262-278-1621		E-Mail Diana.Mockler@et.eurofinsus.com		State of Origin: IL																																						
Company: KPRG and Associates, Inc		PWSID:		Analysis Requested																																								
Address: 14665 West Lisbon Road, Suite 1A		Due Date Requested: Standard		<table border="1"> <tr> <td>Field Filtered Sample (Yes or No)</td> <td>Perform M/MS/SD (Yes or No)</td> <td>903.0, 904.0</td> <td>6020A, 7470A</td> <td>2540C, 4500_F_C, SM4500_CLE</td> <td>SM4500_SO4_E - Sulfate</td> <td rowspan="6">Total Number of containers</td> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table>				Field Filtered Sample (Yes or No)	Perform M/MS/SD (Yes or No)	903.0, 904.0	6020A, 7470A	2540C, 4500_F_C, SM4500_CLE	SM4500_SO4_E - Sulfate	Total Number of containers																														
Field Filtered Sample (Yes or No)	Perform M/MS/SD (Yes or No)	903.0, 904.0	6020A, 7470A					2540C, 4500_F_C, SM4500_CLE	SM4500_SO4_E - Sulfate	Total Number of containers																																		
City: Brookfield		TAT Requested (days): standard		Preservation Codes																																								
State, Zip WI, 53005		Compliance Project. <input type="checkbox"/> Yes <input type="checkbox"/> No		<ul style="list-style-type: none"> A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify) 																																								
Phone 262-781-0475(Tel)		PO #: 4502125100		Other:																																								
Email kaelyns@kprginc.com		WO #:		Special Instructions/Note:																																								
Project Name: Powerton CCR Event Desc Quarterly Powerton CCR Sampling		Project #: 50011612																																										
Site: Illinois		SSOW#:																																										
Sample Identification		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)		Field Filtered Sample (Yes or No)		Perform M/MS/SD (Yes or No)		Preservation Code		Total Number of containers																												
MW-01		5/17/23		1236		G		Water		N		X		X		X																												
MW-08		5/17/23		1132		G		Water		N		X		X		X																												
MW-09								Water																																				
MW-11								Water																																				
MW-12								Water																																				
MW-15		5/17/23		1348		G		Water		N		X		X		X																												
MW-17								Water																																				
MW-18								Water																																				
MW-19								Water																																				

Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Deliverable Requested I, II, III, IV, Other (specify)		Special Instructions/QC Requirements	

Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by: Kaelyn Sperte		Date/Time: 5/17/23/1730		Company: KPRG		Received by: FedEx	
Relinquished by:		Date/Time:		Company:		Received by: [Signature]	
Relinquished by:		Date/Time:		Company:		Received by: [Signature]	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No:		Cooler Temperature(s) °C and Other Remarks: 0.4 - 0.1			

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Chain of Custody Record



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Client Information		Sampler <i>Kaelyn Sperle</i>	Lab PM: Mockler, Diana J	Carrier Tracking No(s): 500-233887 COC	COC No: 500-112087-46458 1																						
Client Contact: Kaelyn Sperle		Phone <i>262-278-1621</i>	E-Mail Diana.Mockler@et.eurotinsus.com	State of Origin <i>IL</i>	Page: Page 1 of 1																						
Company KPRG and Associates, Inc		PWSID	Analysis Requested																								
Address: 14665 West Lisbon Road, Suite 1A		Due Date Requested <i>Standard</i>	<table border="1"> <tr> <td rowspan="5">Field Filtered Sample (Yes or No)</td> <td rowspan="5">Perform MS/MSD (Yes or No)</td> <td>903.0, 904.0</td> <td>6020A, 7470A</td> <td>2540C, 4500_F_C, SM4500_C1E</td> <td>SM4500_SO4_E - Sulfate</td> </tr> <tr><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td></tr> </table>			Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0, 904.0	6020A, 7470A	2540C, 4500_F_C, SM4500_C1E	SM4500_SO4_E - Sulfate																
Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0, 904.0						6020A, 7470A	2540C, 4500_F_C, SM4500_C1E	SM4500_SO4_E - Sulfate																	
City: Brookfield		TAT Requested (days) <i>Standard</i>																									
State Zip WI, 53005		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No																									
Phone 262-781-0475(Tel)		PO # 4502125100																									
Email kaelyns@kprginc.com		WO #																									
Project Name: Powerton CCR Event Desc. Quarterly Powerton CCR Sampling		Project #: 50011612	Job #: <i>500-233887</i> Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2SO3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Y - Trizma Z - other (specify)																								
Site: Illinois		SSOW#:																									
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Total Number of Containers	Special Instructions/Note:																		
MW-01					Water																						
MW-02					Water																						
MW-09					Water																						
MW-11					Water																						
MW-12					Water																						
MW-15		<i>X</i>			Water																						
<i>78910</i> MW-17		<i>5/18/23</i>	<i>1337</i>	<i>G</i>	Water	<i>M</i>	<i>N</i>	<i>X</i>	<i>X</i>																		
MW-18		<i>5/18/23</i>	<i>1234</i>		Water	<i>M</i>	<i>N</i>																				
MW-19		<i>5/18/23</i>	<i>1441</i>		Water	<i>N</i>	<i>N</i>																				
<i>10 Duplicate</i>		<i>5/18/23</i>	<i>-</i>		Water	<i>N</i>	<i>N</i>																				
Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)																									
<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months																									
Deliverable Requested I, II, III IV, Other (specify)		Special Instructions/QC Requirements																									
Empty Kit Relinquished by		Date	Time	Method of Shipment:																							
Relinquished by: <i>Kaelyn Sperle</i>		Date/Time: <i>5/18/23/1715</i>	Company: <i>KPRG</i>	Received by: <i>FedEx</i>	Date/Time: <i>5/18/23/1715</i>																						
Relinquished by:		Date/Time:	Company:	Received by:	Date/Time:																						
Relinquished by:		Date/Time:	Company:	Received by: <i>Kaelyn Sperle</i>	Date/Time: <i>5/18/23 1000</i>																						
Custody Seals Intact. <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks: <i>-2.4 - -2.0</i>																							

ORIGIN ID:PIAA (262) 278-1621

KPRG AND ASSOCIATES
414 PLAZA DR STE 106

WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 16MAY23
ACTWGT: 58 00 LB
CAD: 6994779/SSFE2420
DIMS: 24x18x12 IN

BILL THIRD PARTY

Part # 156297-438344388-23735

TO **SAMPLE RECEIVING
EUROFINS CHICAGO
2417 BOND ST**



UNIVERSITY PARK IL 60

(000) 000-0000
INU:
PO

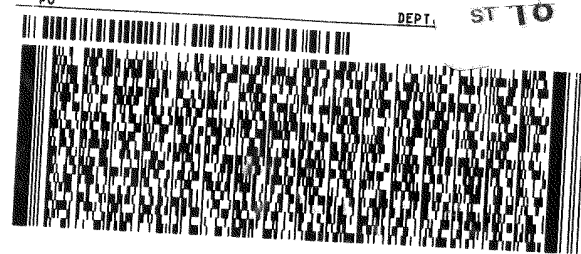
REF

500-233887 Waybl

05 17

DEPT

ST 10



**FedEx
Express**



1 of 4
TRK# 3983 9576 9626
0201
MASTER

**WED - 17 MAY 10:30A
PRIORITY OVERNIGHT**

XN JOTA

**60484
IL-US ORD**





500-233887 Waybi

ORIGIN ID:PIAA (262) 278-1621
KPRG AND ASSOCIATES
414 PLAZA DR STE 106
WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 17MAY23
ACTWGT: 50.00 LB
CAD: 6994778/SSFE2420
DIMS: 24x18x12 IN
BILL THIRD PARTY

Part # 166297-435 RROB2 EXP 09/23
0231/2022/ETES

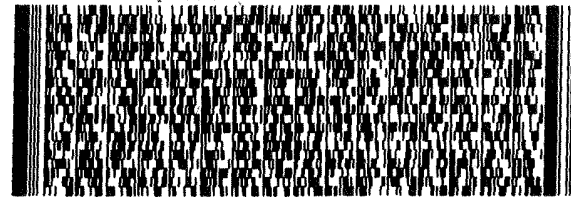
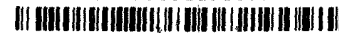
TO **SAMPLE RECEIVING
EUROFINS
2417 BOND ST**

UNIVERSITY PARK IL 60484

(000) 000-0000
INU:
PO:

REF:

DEPT:



**FedEx
Express**



AN LUS0402202222

4 of 5

MPS# 3984 4873 0174
0263

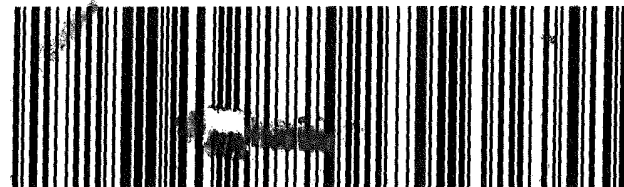
Metr# 3984 4873 0141

0201

**THU - 18 MAY 10:30A
PRIORITY OVERNIGHT**

XN JOTA

**60484
IL-US ORD**



- 1
- 2
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- 11
- 12
- 13

Do Not Lift Using This Tag

RT 519
ST 20
5 10:30
A 7:203
05 19

ORIGIN ID:PIAA (000) 000-0000
KPRG AND ASSOCIATES
414 PLAZA DR STE 106
WESTMONT, IL 60559
UNITED STATES US

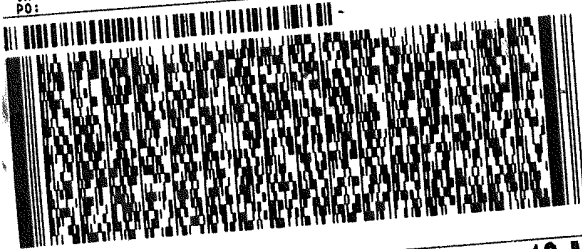
SHIP DATE: 18MAY23
ACTWTG: 43.00 LB
CAD: 6994779/SSFE2420
DIMS: 24x18x12 IN
BILL THIRD PARTY

Part # 150297-485JPR88-836811/23

SAMPLE RECEIVING
EUROFINS CHICAGO
2417 BOND ST

UNIVERSITY PARK IL 60484

(000) 000-0000 REF: DEPT:



FRI - 19 MAY 10:30A
PRIORITY OVERNIGHT

2 of 3
MPS# 3984 9766 7203
0263
Mstr# 3984 9766 7199
0201

XN JOTA

60484
IL-US ORD



Do Not Lift Using This Tag

ORIGIN ID:PIAA (000) 000-0000
KPRG AND ASSOCIATES
414 PLAZA DR STE 106
WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 18MAY23
ACTWTG: 43.00 LB
CAD: 6994779/SSFE2420
DIMS: 24x18x12 IN
BILL THIRD PARTY

Part # 150297-485JPR88-836811/23

TO SAMPLE RECEIVING
EUROFINS CHICAGO
2417 BOND ST

UNIVERSITY PARK I

RT 519
ST 20
5 10:30
A 7:199
05 19

(000) 000-0000 REF:



1 of 3
TRK# 3984 9766 7199
0201
MASTER

FRI - 19 MAY 10:30A
PRIORITY OVERNIGHT

XN JOTA

60484
IL-US ORD



500-233887 Waybl

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Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-233887-3

Login Number: 233887

List Number: 1

Creator: James, Jeff A

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.3,0.1,-2.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Lab Chronicle

Client: KPRG and Associates, Inc.
 Project/Site: Powerton CCR ABB/ASB

Job ID: 500-233887-3

Client Sample ID: MW-17
Date Collected: 05/18/23 13:37
Date Received: 05/19/23 10:00

Lab Sample ID: 500-233887-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			714515	BDE	EET CHI	05/22/23 09:02 - 05/22/23 09:32 ¹
Total Recoverable	Analysis	6020A		1	715021	FXG	EET CHI	05/23/23 23:05
Total Recoverable	Prep	3005A			714515	BDE	EET CHI	05/22/23 09:02 - 05/22/23 09:32 ¹
Total Recoverable	Analysis	6020A		1	715273	FXG	EET CHI	05/24/23 20:10
Total Recoverable	Prep	3005A			714515	BDE	EET CHI	05/22/23 09:02 - 05/22/23 09:32 ¹
Total Recoverable	Analysis	6020A		1	715492	FXG	EET CHI	05/25/23 16:43
Total/NA	Prep	7470A			716983	MJG	EET CHI	06/06/23 09:55 - 06/06/23 11:55 ¹
Total/NA	Analysis	7470A		1	717281	MJG	EET CHI	06/07/23 08:35
Total/NA	Analysis	SM 2540C		1	714420	CLB	EET CHI	05/22/23 01:10
Total/NA	Analysis	SM 4500 CI- E		10	715089	MM	EET CHI	05/24/23 16:32
Total/NA	Analysis	SM 4500 F C		1	715052	EH	EET CHI	05/24/23 08:35
Total/NA	Analysis	SM 4500 SO4 E		50	715553	MM	EET CHI	05/26/23 14:10

Client Sample ID: MW-18
Date Collected: 05/18/23 12:34
Date Received: 05/19/23 10:00

Lab Sample ID: 500-233887-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			714515	BDE	EET CHI	05/22/23 09:02 - 05/22/23 09:32 ¹
Total Recoverable	Analysis	6020A		1	715021	FXG	EET CHI	05/23/23 23:09
Total Recoverable	Prep	3005A			714515	BDE	EET CHI	05/22/23 09:02 - 05/22/23 09:32 ¹
Total Recoverable	Analysis	6020A		1	715273	FXG	EET CHI	05/24/23 20:14
Total Recoverable	Prep	3005A			714515	BDE	EET CHI	05/22/23 09:02 - 05/22/23 09:32 ¹
Total Recoverable	Analysis	6020A		1	715492	FXG	EET CHI	05/25/23 16:54
Total/NA	Prep	7470A			716983	MJG	EET CHI	06/06/23 09:55 - 06/06/23 11:55 ¹
Total/NA	Analysis	7470A		1	717281	MJG	EET CHI	06/07/23 08:41
Total/NA	Analysis	SM 2540C		1	714420	CLB	EET CHI	05/22/23 01:13
Total/NA	Analysis	SM 4500 CI- E		5	715089	MM	EET CHI	05/24/23 16:32
Total/NA	Analysis	SM 4500 F C		1	715052	EH	EET CHI	05/24/23 08:35
Total/NA	Analysis	SM 4500 SO4 E		10	715553	MM	EET CHI	05/26/23 14:24

Client Sample ID: MW-19
Date Collected: 05/18/23 14:41
Date Received: 05/19/23 10:00

Lab Sample ID: 500-233887-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			714515	BDE	EET CHI	05/22/23 09:02 - 05/22/23 09:32 ¹
Total Recoverable	Analysis	6020A		1	715021	FXG	EET CHI	05/23/23 23:12
Total Recoverable	Prep	3005A			714515	BDE	EET CHI	05/22/23 09:02 - 05/22/23 09:32 ¹
Total Recoverable	Analysis	6020A		1	715273	FXG	EET CHI	05/24/23 20:17
Total Recoverable	Prep	3005A			714515	BDE	EET CHI	05/22/23 09:02 - 05/22/23 09:32 ¹
Total Recoverable	Analysis	6020A		1	715492	FXG	EET CHI	05/25/23 16:57
Total/NA	Prep	7470A			716983	MJG	EET CHI	06/06/23 09:55 - 06/06/23 11:55 ¹
Total/NA	Analysis	7470A		1	717281	MJG	EET CHI	06/07/23 08:43

Eurofins Chicago

Lab Chronicle

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR ABB/ASB

Job ID: 500-233887-3

Client Sample ID: MW-19

Lab Sample ID: 500-233887-9

Date Collected: 05/18/23 14:41

Matrix: Water

Date Received: 05/19/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM 2540C		1	714420	CLB	EET CHI	05/22/23 01:15
Total/NA	Analysis	SM 4500 CI- E		1	715089	MM	EET CHI	05/24/23 16:33
Total/NA	Analysis	SM 4500 F C		1	715052	EH	EET CHI	05/24/23 08:35
Total/NA	Analysis	SM 4500 SO4 E		10	715553	MM	EET CHI	05/26/23 14:24

Client Sample ID: Duplicate

Lab Sample ID: 500-233887-10

Date Collected: 05/18/23 00:00

Matrix: Water

Date Received: 05/19/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			714515	BDE	EET CHI	05/22/23 09:02 - 05/22/23 09:32 ¹
Total Recoverable	Analysis	6020A		1	715021	FXG	EET CHI	05/23/23 23:16
Total Recoverable	Prep	3005A			714515	BDE	EET CHI	05/22/23 09:02 - 05/22/23 09:32 ¹
Total Recoverable	Analysis	6020A		1	715273	FXG	EET CHI	05/24/23 20:20
Total Recoverable	Prep	3005A			714515	BDE	EET CHI	05/22/23 09:02 - 05/22/23 09:32 ¹
Total Recoverable	Analysis	6020A		1	717605	FXG	EET CHI	06/08/23 13:11
Total/NA	Prep	7470A			716983	MJG	EET CHI	06/06/23 09:55 - 06/06/23 11:55 ¹
Total/NA	Analysis	7470A		1	717281	MJG	EET CHI	06/07/23 08:52
Total/NA	Analysis	SM 2540C		1	714420	CLB	EET CHI	05/22/23 01:18
Total/NA	Analysis	SM 4500 CI- E		10	715089	MM	EET CHI	05/24/23 16:33
Total/NA	Analysis	SM 4500 F C		1	715052	EH	EET CHI	05/24/23 08:35
Total/NA	Analysis	SM 4500 SO4 E		10	715553	MM	EET CHI	05/26/23 14:25

¹ This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR ABB/ASB

Job ID: 500-233887-3

Laboratory: Eurofins Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-24

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 **ANALYTICAL REPORT****PREPARED FOR**

Attn: Richard Gnat
KPRG and Associates, Inc.
14665 West Lisbon Road,
Suite 1A
Brookfield, Wisconsin 53005

Generated 6/21/2023 4:24:58 PM

JOB DESCRIPTION

Powerton CCR ABB/ASB (RAD)

JOB NUMBER

500-233887-4

Eurofins Chicago

Job Notes

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Authorization



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Authorized for release by
Diana Mockler, Project Manager I
Diana.Mockler@et.eurofinsus.com
(219)252-7570



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Case Narrative

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR ABB/ASB (RAD)

Job ID: 500-233887-4

Job ID: 500-233887-4

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-233887-4

Receipt

The samples were received on 5/17/2023 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were -2.0° C, 0.1° C and 5.3° C.

RAD

Methods 903.0, 9315: Radium-226 batch 613260

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

MW-17 (500-233887-7), MW-18 (500-233887-8), MW-19 (500-233887-9), Duplicate (500-233887-10), (LCS 160-613260/2-A), (MB 160-613260/1-A), (500-233887-E-4-A) and (500-233887-G-4-B DU)

Methods 904.0, 9320: Radium-228 batch 613360

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

MW-17 (500-233887-7), MW-18 (500-233887-8), MW-19 (500-233887-9), Duplicate (500-233887-10), (LCS 160-613360/2-A), (MB 160-613360/1-A), (500-233887-E-4-B) and (500-233887-G-4-C DU)

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

Method Summary

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR ABB/ASB (RAD)

Job ID: 500-233887-4

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

Protocol References:

EPA = US Environmental Protection Agency

None = None

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

Laboratory References:

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

Sample Summary

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR ABB/ASB (RAD)

Job ID: 500-233887-4

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-233887-7	MW-17	Water	05/18/23 13:37	05/19/23 10:00
500-233887-8	MW-18	Water	05/18/23 12:34	05/19/23 10:00
500-233887-9	MW-19	Water	05/18/23 14:41	05/19/23 10:00
500-233887-10	Duplicate	Water	05/18/23 00:00	05/19/23 10:00

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Client Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Powerton CCR ABB/ASB (RAD)

Job ID: 500-233887-4

Client Sample ID: MW-17

Lab Sample ID: 500-233887-7

Date Collected: 05/18/23 13:37

Matrix: Water

Date Received: 05/19/23 10:00

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0469	U	0.141	0.141	1.00	0.268	pCi/L	05/26/23 09:29	06/20/23 22:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.3		30 - 110					05/26/23 09:29	06/20/23 22:37	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.413	U	0.335	0.337	1.00	0.521	pCi/L	05/26/23 13:14	06/20/23 11:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.3		30 - 110					05/26/23 13:14	06/20/23 11:22	1
Y Carrier	85.6		30 - 110					05/26/23 13:14	06/20/23 11:22	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.460	U	0.363	0.365	5.00	0.521	pCi/L		06/21/23 15:27	1

Client Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Powerton CCR ABB/ASB (RAD)

Job ID: 500-233887-4

Client Sample ID: MW-18
Date Collected: 05/18/23 12:34
Date Received: 05/19/23 10:00

Lab Sample ID: 500-233887-8
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.106	U	0.140	0.141	1.00	0.234	pCi/L	05/26/23 09:29	06/20/23 22:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.1		30 - 110					05/26/23 09:29	06/20/23 22:37	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.241	U	0.266	0.267	1.00	0.433	pCi/L	05/26/23 13:14	06/20/23 11:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.1		30 - 110					05/26/23 13:14	06/20/23 11:22	1
Y Carrier	87.1		30 - 110					05/26/23 13:14	06/20/23 11:22	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.347	U	0.301	0.302	5.00	0.433	pCi/L		06/21/23 15:27	1

Client Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Powerton CCR ABB/ASB (RAD)

Job ID: 500-233887-4

Client Sample ID: MW-19

Lab Sample ID: 500-233887-9

Date Collected: 05/18/23 14:41

Matrix: Water

Date Received: 05/19/23 10:00

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0705	U	0.118	0.118	1.00	0.209	pCi/L	05/26/23 09:29	06/20/23 22:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.9		30 - 110					05/26/23 09:29	06/20/23 22:37	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.533		0.329	0.333	1.00	0.479	pCi/L	05/26/23 13:14	06/20/23 11:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.9		30 - 110					05/26/23 13:14	06/20/23 11:22	1
Y Carrier	82.6		30 - 110					05/26/23 13:14	06/20/23 11:22	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.604		0.350	0.353	5.00	0.479	pCi/L		06/21/23 15:27	1

Client Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Powerton CCR ABB/ASB (RAD)

Job ID: 500-233887-4

Client Sample ID: Duplicate

Lab Sample ID: 500-233887-10

Date Collected: 05/18/23 00:00

Matrix: Water

Date Received: 05/19/23 10:00

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.193	U	0.164	0.165	1.00	0.238	pCi/L	05/26/23 09:29	06/20/23 22:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.9		30 - 110					05/26/23 09:29	06/20/23 22:37	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.133	U	0.295	0.295	1.00	0.514	pCi/L	05/26/23 13:14	06/20/23 11:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.9		30 - 110					05/26/23 13:14	06/20/23 11:22	1
Y Carrier	85.6		30 - 110					05/26/23 13:14	06/20/23 11:22	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.326	U	0.338	0.338	5.00	0.514	pCi/L		06/21/23 15:27	1

Definitions/Glossary

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR ABB/ASB (RAD)

Job ID: 500-233887-4

Qualifiers

Rad

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

Glossary

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

QC Association Summary

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR ABB/ASB (RAD)

Job ID: 500-233887-4

Rad

Prep Batch: 613260

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-233887-7	MW-17	Total/NA	Water	PrecSep-21	
500-233887-8	MW-18	Total/NA	Water	PrecSep-21	
500-233887-9	MW-19	Total/NA	Water	PrecSep-21	
500-233887-10	Duplicate	Total/NA	Water	PrecSep-21	
MB 160-613260/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-613260/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 613360

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-233887-7	MW-17	Total/NA	Water	PrecSep_0	
500-233887-8	MW-18	Total/NA	Water	PrecSep_0	
500-233887-9	MW-19	Total/NA	Water	PrecSep_0	
500-233887-10	Duplicate	Total/NA	Water	PrecSep_0	
MB 160-613360/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-613360/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

QC Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Powerton CCR ABB/ASB (RAD)

Job ID: 500-233887-4

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-613260/1-A
Matrix: Water
Analysis Batch: 616866

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 613260

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	-0.03010	U	0.129	0.129	1.00	0.292	pCi/L	05/26/23 09:29	06/20/23 20:52	1
Carrier	MB %Yield	MB Qualifier	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	87.0		30 - 110					05/26/23 09:29	06/20/23 20:52	1

Lab Sample ID: LCS 160-613260/2-A
Matrix: Water
Analysis Batch: 616866

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 613260

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	9.751		1.28	1.00	0.348	pCi/L	86	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits		Prepared	Analyzed	Dil Fac		
Ba Carrier	85.4		30 - 110					05/26/23 09:29	06/20/23 20:52

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-613360/1-A
Matrix: Water
Analysis Batch: 616868

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 613360

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.1566	U	0.299	0.299	1.00	0.517	pCi/L	05/26/23 13:14	06/20/23 11:15	1
Carrier	MB %Yield	MB Qualifier	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	87.0		30 - 110					05/26/23 13:14	06/20/23 11:15	1
Y Carrier	86.4		30 - 110		05/26/23 13:14	06/20/23 11:15	1			

Lab Sample ID: LCS 160-613360/2-A
Matrix: Water
Analysis Batch: 616868

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 613360

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-228	8.10	8.095		1.15	1.00	0.499	pCi/L	100	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits		Prepared	Analyzed	Dil Fac		
Ba Carrier	85.4		30 - 110					05/26/23 13:14	06/20/23 11:15
Y Carrier	88.2		30 - 110		05/26/23 13:14	06/20/23 11:15	1		

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Chain of Custody Record



Environment Testing

Client Information		Sampler: <u>Kaelyn Sperle</u>		Lab PM: <u>Mockler Diana J</u>		Carrier Tracking No(s):		800-233887 COC 1	
Client Contact: Kaelyn Sperle		Phone: <u>262-278-1621</u>		E-Mail: <u>Diana.Mockler@et.eurofinsus.com</u>		State of Origin: <u>IL</u>		Page 1 of 1	
Company: <u>KPRG and Associates, Inc</u>				PWSID:		Analysis Requested			
Address: <u>14665 West Lisbon Road, Suite 1A</u>		Due Date Requested: <u>Standard</u>		TAT Requested (days): <u>Standard</u>		Job #: <u>20-233887</u>		Preservation Codes	
City: <u>Brookfield</u>		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No		PO #: <u>4502125100</u>		Total Number of containers Perform MS/MSD (Yes or No) 903.0, 904.0 6020A, 7470A 2540C, 4500_F_C, SM4500_CLE SM4500_SO4_E - Sulfate		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA	
State, Zip: <u>WI, 53005</u>		Project #: <u>50011612</u>		WO #:				M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO4 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify)	
Phone: <u>262-781-0475(Tel)</u>		SSOW#:		Project Name: <u>Powerton CCR Event Desc. Quarterly Powerton CCR Sampling</u>				Other:	
Email: <u>kaelyns@kprginc.com</u>		Site: <u>Illinois</u>		Project #: <u>50011612</u>					
Project Name: <u>Powerton CCR Event Desc. Quarterly Powerton CCR Sampling</u>		Sample Identification		Sample Date		Sample Time		Sample Type (C=comp, G=grab)	
Site: <u>Illinois</u>		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)		Field Filtered Sample (Yes or No)		Field Filtered Sample (Yes or No)		Special Instructions/Note:	
		Preservation Code		D		D		N	
MW-01		Water							
MW-08		Water							
1 2 3 MW-09		5/16/23 1518		G		Water		M N X X X X	
MW-11		5/16/23 1401		↓		Water		M N X X X X	
MW-12		5/16/23 1257		↓		Water		M N ↓ ↓ ↓ ↓	
MW-15		Water							
MW-17		Water							
MW-18		Water							
MW-19		Water							
MW-19		Water							
MW-19		Water							
MW-19		Water							
MW-19		Water							
Possible Hazard Identification					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)				
<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological					<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months				
Deliverable Requested I, II, III, IV, Other (specify)					Special Instructions/QC Requirements				
Empty Kit Relinquished by:		Date		Time		Method of Shipment:			
Relinquished by: <u>Kaelyn Sperle</u>		Date/Time: <u>5/16/23/1700</u>		Company: <u>KPRG</u>		Received by: <u>FedEx</u>		Date/Time: <u>5/16/23/1700</u>	
Relinquished by:		Date/Time:		Company:		Received by: <u>[Signature]</u>		Date/Time: <u>5/16/23 1000</u>	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks: <u>5.4-5.3</u>					

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 University Park IL 60484
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Chain of Custody Record



Environment Testing

Client Information		Sampler: <u>Kaelyn Sperte</u>		Lab PM: <u>Mockler, Diana J</u>		Carrier Tracking No(s): <u>500-233887 COC 31</u>																															
Client Contact: <u>Kaelyn Sperte</u>		Phone: <u>262-278-1621</u>		E-Mail: <u>Diana.Mockler@et.eurofinsus.com</u>		State of Origin: <u>IL</u>																															
Company: <u>KPRG and Associates, Inc</u>		PWSID:		Analysis Requested																																	
Address: <u>14665 West Lisbon Road, Suite 1A</u>		Due Date Requested: <u>Standard</u>		<table border="1"> <tr> <td>Field Filtered Sample (Yes or No)</td> <td>Perform M/MS/SD (Yes or No)</td> <td>903.0, 904.0</td> <td>6020A, 7470A</td> <td>2540C, 4500_F_C, SM4500_CLE</td> <td>SM4500_SO4_E - Sulfate</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>				Field Filtered Sample (Yes or No)	Perform M/MS/SD (Yes or No)	903.0, 904.0	6020A, 7470A	2540C, 4500_F_C, SM4500_CLE	SM4500_SO4_E - Sulfate																								
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Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform M/MS/SD (Yes or No)																														
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4 MW-01		5/17/23	1236	G	Water	N	X X X X																														
5 MW-08		5/17/23	1132	G	Water	N	X X X X																														
MW-09					Water																																
MW-11					Water																																
MW-12					Water																																
6 MW-15		5/17/23	1348	G	Water	N	X X X X																														
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MW-18					Water																																
MW-19					Water																																
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Relinquished by:		Date/Time:		Company:		Date/Time: <u>5/17/23 0840</u>																															
Relinquished by:		Date/Time:		Company:		Date/Time:																															
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks: <u>0.4 - 0.1</u>																																	

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Chain of Custody Record



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Client Information		Sampler <i>Kaelyn Sperle</i>	Lab PM: Mockler, Diana J	Carrier Tracking No(s): 500-233887 COC	COE No: 500-112087-46458 1																																																																																	
Client Contact: Kaelyn Sperle		Phone <i>262-278-1621</i>	E-Mail Diana.Mockler@et.eurotinsus.com	State of Origin <i>IL</i>	Page: Page 1 of 1																																																																																	
Company KPRG and Associates, Inc		PWSID	Analysis Requested																																																																																			
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City: Brookfield		TAT Requested (days) <i>Standard</i>	<table border="1"> <tr> <td rowspan="4">Total Number of containers:</td> <td colspan="5">Job #: <i>500-233887</i></td> </tr> <tr> <td colspan="5">Preservation Codes</td> </tr> <tr> <td>A - HCL</td> <td>M - Hexane</td> <td colspan="3"></td> </tr> <tr> <td>B - NaOH</td> <td>N - None</td> <td colspan="3"></td> </tr> <tr> <td>C - Zn Acetate</td> <td>O - AsNaO2</td> <td colspan="3"></td> </tr> <tr> <td>D - Nitric Acid</td> <td>P - Na2O4S</td> <td colspan="3"></td> </tr> <tr> <td>E - NaHSO4</td> <td>Q - Na2SO3</td> <td colspan="3"></td> </tr> <tr> <td>F - MeOH</td> <td>R - Na2SO3</td> <td colspan="3"></td> </tr> <tr> <td>G - Amchlor</td> <td>S - H2SO4</td> <td colspan="3"></td> </tr> <tr> <td>H - Ascorbic Acid</td> <td>T - TSP Dodecahydrate</td> <td colspan="3"></td> </tr> <tr> <td>I - Ice</td> <td>U - Acetone</td> <td colspan="3"></td> </tr> <tr> <td>J - DI Water</td> <td>V - MCAA</td> <td colspan="3"></td> </tr> <tr> <td>K - EDTA</td> <td>W - pH 4-5</td> <td colspan="3"></td> </tr> <tr> <td>L - EDA</td> <td>Y - Trizma</td> <td colspan="3"></td> </tr> <tr> <td colspan="5">Z - other (specify)</td> </tr> <tr> <td colspan="5">Other:</td> </tr> </table>			Total Number of containers:	Job #: <i>500-233887</i>					Preservation Codes					A - HCL	M - Hexane				B - NaOH	N - None				C - Zn Acetate	O - AsNaO2				D - Nitric Acid	P - Na2O4S				E - NaHSO4	Q - Na2SO3				F - MeOH	R - Na2SO3				G - Amchlor	S - H2SO4				H - Ascorbic Acid	T - TSP Dodecahydrate				I - Ice	U - Acetone				J - DI Water	V - MCAA				K - EDTA	W - pH 4-5				L - EDA	Y - Trizma				Z - other (specify)					Other:				
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MW-15		<i>5/18/23</i>			Water																																																																																	
<i>78910</i> MW-17		<i>5/18/23</i>	<i>1337</i>	<i>G</i>	Water																																																																																	
MW-18		<i>5/18/23</i>	<i>1234</i>		Water																																																																																	
MW-19		<i>5/18/23</i>	<i>1441</i>		Water																																																																																	
<i>78910</i> Duplicate		<i>5/18/23</i>	<i>-</i>		Water																																																																																	
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Custody Seals Intact. <input type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks: <i>-2.4 - -2.0</i>																																																																																				

ORIGIN ID:PIAA (262) 278-1621

KPRG AND ASSOCIATES
414 PLAZA DR STE 106

WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 16MAY23
ACTWGT: 58 00 LB
CAD: 6994779/SSFE2420
DIMS: 24x18x12 IN

BILL THIRD PARTY

Part # 156297-438344388-23795/23

TO **SAMPLE RECEIVING
EUROFINS CHICAGO
2417 BOND ST**



UNIVERSITY PARK IL 60

(000) 000-0000

REF

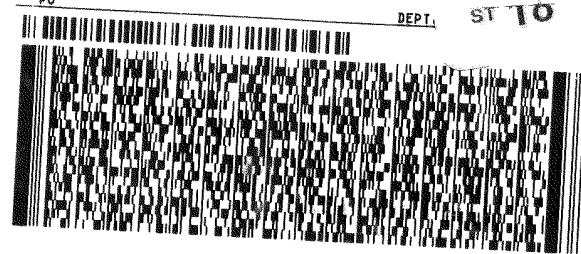
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**FedEx
Express**



1 of 4

TRK# 3983 9576 9626
0201

MASTER

**WED - 17 MAY 10:30A
PRIORITY OVERNIGHT**

XN JOTA

60484

IL-US ORD





500-233887 Waybi

ORIGIN ID:PIAA (262) 278-1621
KPRG AND ASSOCIATES
414 PLAZA DR STE 106
WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 17MAY23
ACTWGT: 50.00 LB
CAD: 6994778/SSFE2420
DIMS: 24x18x12 IN
BILL THIRD PARTY

Part # 166297-435 RROB2 EXP 09/23
0231/2022/ETRES

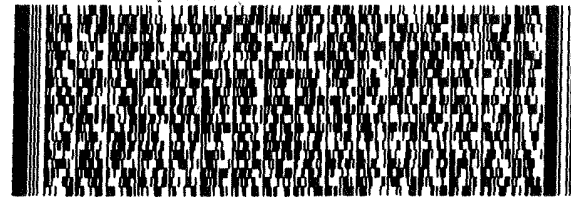
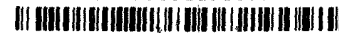
TO **SAMPLE RECEIVING**
EUROFINS
2417 BOND ST

UNIVERSITY PARK IL 60484

(000) 000-0000
INU:
PO:

REF:

DEPT:



FedEx
Express



AN LUS0402202222

4 of 5

MPS# 0263 **3984 4873 0174**

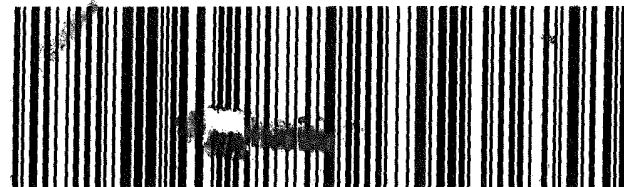
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0201

THU - 18 MAY 10:30A
PRIORITY OVERNIGHT

XN JOTA

60484
IL-US ORD



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Do Not Lift Using This Tag

RT 519
ST 20
5 10:30
A 7:203
05 19

ORIGIN ID:PIAA (000) 000-0000
KPRG AND ASSOCIATES
414 PLAZA DR STE 106
WESTMONT, IL 60559
UNITED STATES US

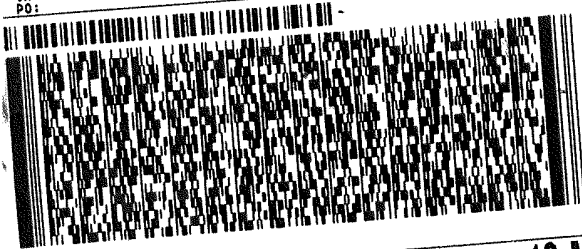
SHIP DATE: 18MAY23
ACTWGT: 43.00 LB
CAD: 6994779/SSFE2420
DIMS: 24x18x12 IN
BILL THIRD PARTY

Part # 150297-485JPR88-83631123

SAMPLE RECEIVING
EUROFINS CHICAGO
2417 BOND ST

UNIVERSITY PARK IL 60484

(000) 000-0000 REF: DEPT:



2 of 3
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0263
Mstr# 3984 9766 7199
0201
FRI - 19 MAY 10:30A
PRIORITY OVERNIGHT

XN JOTA

60484
IL-US ORD



Do Not Lift Using This Tag

ORIGIN ID:PIAA (000) 000-0000
KPRG AND ASSOCIATES
414 PLAZA DR STE 106
WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 18MAY23
ACTWGT: 43.00 LB
CAD: 6994779/SSFE2420
DIMS: 24x18x12 IN
BILL THIRD PARTY

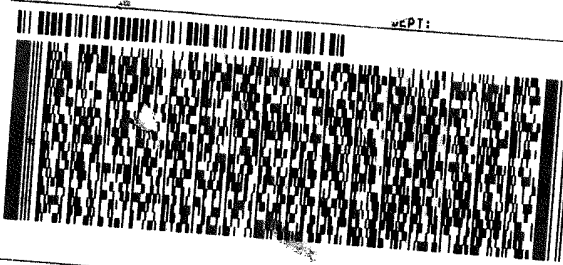
Part # 150297-485JPR88-83631123

TO SAMPLE RECEIVING
EUROFINS CHICAGO
2417 BOND ST

UNIVERSITY PARK I

RT 519
ST 20
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A 7:199
05 19

(000) 000-0000 REF:



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TRK# 3984 9766 7199
0201
MASTER

FRI - 19 MAY 10:30A
PRIORITY OVERNIGHT

XN JOTA

60484
IL-US ORD



500-233887 Waybl

Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler:	Lab PM:	Carrier Tracking No(s):	COC No:	
Client Contact: Shipping/Receiving		Phone:	Mockler, Diana J		500-174049-1	
Company: TestAmerica Laboratories, Inc.		E-Mail: Diana.Mockler@et.eurofins.com		State of Origin: Illinois	Page: Page 1 of 1	
Address: 13715 Rider Trail North,		Accreditations Required (See note): NELAP - Illinois		Job #: 500-233887-2	Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4.5 Y - Trizma Z - other (specify)	
City: Earth City		Due Date Requested: 6/21/2023	Analysis Requested			
State, Zip: MO, 63045		TAT Requested (days):	Total Number of Containers			
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		PO #:	904.0/Precep_0 Standard Target List			
Email: Powertron CCR (RAD)		WO #:	903.0/Precep_21 Standard Target List			
Project Name: MWG - Powertron		Project #: 50011612	Perform MS/MSD (Yes or No)			
Site: MWG - Powertron		SSOW#:	Field Filtered Sample (Yes or No)			
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Water, Sealed, Onwast/oi, BT=tissue, A=Air)	Preservation Code:	Special Instructions/Note:
MW-01 (500-233887-4)	5/17/23	12:36 Central	Water	Water		Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no
MW-08 (500-233887-5)	5/17/23	11:32 Central	Water	Water		Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no
MW-15 (500-233887-6)	5/17/23	13:48 Central	Water	Water		Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no
<p>Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/testis/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.</p>						
<p>Possible Hazard Identification</p> <p>Unconfirmed</p> <p>Deliverable Requested: I, II, III, IV, Other (specify) _____ Primary Deliverable Rank: 2</p> <p>Empty Kit Relinquished by: _____ Date: _____ Method of Shipment: _____</p> <p>Relinquished by: <i>[Signature]</i> Date/Time: 5/19/23 16:00 Company: _____</p> <p>Relinquished by: <i>[Signature]</i> Date/Time: _____ Company: _____</p> <p>Relinquished by: <i>[Signature]</i> Date/Time: _____ Company: _____</p> <p>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months</p> <p>Special Instructions/QC Requirements:</p> <p>Cooler Temperature(s) °C and Other Remarks: _____</p>						



Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler:	Lab PM:	Carrier Tracking No(s):	COC No:																																			
Client Contact: Shipping/Receiving		Phone:	Mockler, Diana J		500-174049,1																																			
Company: TestAmerica Laboratories, Inc.			E-Mail: Diana.Mockler@et.eurofins.com	State of Origin: Illinois	Page: Page 1 of 1																																			
Address: 13715 Rider Trail North,		Due Date Requested: 6/21/2023	Accreditations Required (See note): NELAP - Illinois																																					
City: Earth City	TAT Requested (days):	Job #: 500-233887-4																																						
State, Zip: MO, 63045	FO #:	Preservation Codes: A - HCL M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify)																																						
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	WO #:	Other:																																						
Email:	Project #: 50011612																																							
Project Name: Powerton CCR ABB/ASB (RAD)	SSOW#:																																							
Site: MWG - Powerton																																								
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Water, Solid, Other, etc.)	Preservation Code:																																			
MW-17 (500-233887-7)	5/18/23	13:37 Central	Water	Water																																				
MW-18 (500-233887-8)	5/18/23	12:34 Central	Water	Water																																				
MW-19 (500-233887-9)	5/18/23	14:41 Central	Water	Water																																				
Duplicate (500-233887-10)	5/18/23	Central	Water	Water																																				
<table border="1"> <thead> <tr> <th>Field Filtered Sample (Yes or No)</th> <th>Perform MS/MSD (Yes or No)</th> <th>90.30/PreSep_21 Standard Target List</th> <th>90.40/PreSep_0 Standard Target List</th> <th>Ra226Ra228_GFPc</th> <th>Total Number of Containers</th> <th>Special Instructions/Note:</th> </tr> </thead> <tbody> <tr> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>3</td> <td>Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no</td> </tr> <tr> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>3</td> <td>Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no</td> </tr> <tr> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>3</td> <td>Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no</td> </tr> <tr> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>3</td> <td>Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no</td> </tr> </tbody> </table>						Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	90.30/PreSep_21 Standard Target List	90.40/PreSep_0 Standard Target List	Ra226Ra228_GFPc	Total Number of Containers	Special Instructions/Note:	X	X	X	X	X	3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no	X	X	X	X	X	3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no	X	X	X	X	X	3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no	X	X	X	X	X	3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no
Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	90.30/PreSep_21 Standard Target List	90.40/PreSep_0 Standard Target List	Ra226Ra228_GFPc	Total Number of Containers	Special Instructions/Note:																																		
X	X	X	X	X	3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no																																		
X	X	X	X	X	3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no																																		
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Empty Amp Relinquished by: _____ Date: _____ Time: _____ Method of Shipment: _____ Relinquished by: <i>[Signature]</i> Date/Time: 5/19/23 1600 Company: Fedex Relinquished by: <i>[Signature]</i> Date/Time: _____ Company: _____ Relinquished by: <i>[Signature]</i> Date/Time: _____ Company: _____																																								
Custody Seals Intact: _____ Custody Seal No.: _____ Cooler Temperature(s) °C and Other Remarks:																																								



Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-233887-4

Login Number: 233887

List Number: 1

Creator: James, Jeff A

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.3,0.1,-2.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-233887-4

Login Number: 233887

List Number: 2

Creator: Farrell, Conor P

List Source: Eurofins St. Louis

List Creation: 05/18/23 01:47 PM

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



Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-233887-4

Login Number: 233887

List Number: 3

Creator: Sharkey-Gonzalez, Briana L

List Source: Eurofins St. Louis

List Creation: 05/22/23 06:02 PM

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



Lab Chronicle

Client: KPRG and Associates, Inc.
 Project/Site: Powerton CCR ABB/ASB (RAD)

Job ID: 500-233887-4

Client Sample ID: MW-17
Date Collected: 05/18/23 13:37
Date Received: 05/19/23 10:00

Lab Sample ID: 500-233887-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			613260	KAC	EET SL	05/26/23 09:29
Total/NA	Analysis	903.0		1	616862	FLC	EET SL	06/20/23 22:37
Total/NA	Prep	PrecSep_0			613360	KAC	EET SL	05/26/23 13:14
Total/NA	Analysis	904.0		1	616863	FLC	EET SL	06/20/23 11:22
Total/NA	Analysis	Ra226_Ra228		1	617159	EMH	EET SL	06/21/23 15:27

Client Sample ID: MW-18
Date Collected: 05/18/23 12:34
Date Received: 05/19/23 10:00

Lab Sample ID: 500-233887-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			613260	KAC	EET SL	05/26/23 09:29
Total/NA	Analysis	903.0		1	616862	FLC	EET SL	06/20/23 22:37
Total/NA	Prep	PrecSep_0			613360	KAC	EET SL	05/26/23 13:14
Total/NA	Analysis	904.0		1	616863	FLC	EET SL	06/20/23 11:22
Total/NA	Analysis	Ra226_Ra228		1	617159	EMH	EET SL	06/21/23 15:27

Client Sample ID: MW-19
Date Collected: 05/18/23 14:41
Date Received: 05/19/23 10:00

Lab Sample ID: 500-233887-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			613260	KAC	EET SL	05/26/23 09:29
Total/NA	Analysis	903.0		1	616862	FLC	EET SL	06/20/23 22:37
Total/NA	Prep	PrecSep_0			613360	KAC	EET SL	05/26/23 13:14
Total/NA	Analysis	904.0		1	616863	FLC	EET SL	06/20/23 11:22
Total/NA	Analysis	Ra226_Ra228		1	617159	EMH	EET SL	06/21/23 15:27

Client Sample ID: Duplicate
Date Collected: 05/18/23 00:00
Date Received: 05/19/23 10:00

Lab Sample ID: 500-233887-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			613260	KAC	EET SL	05/26/23 09:29
Total/NA	Analysis	903.0		1	616862	FLC	EET SL	06/20/23 22:37
Total/NA	Prep	PrecSep_0			613360	KAC	EET SL	05/26/23 13:14
Total/NA	Analysis	904.0		1	616863	FLC	EET SL	06/20/23 11:22
Total/NA	Analysis	Ra226_Ra228		1	617159	EMH	EET SL	06/21/23 15:27

Laboratory References:

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

Accreditation/Certification Summary

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR ABB/ASB (RAD)

Job ID: 500-233887-4

Laboratory: Eurofins St. Louis

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	200023	11-30-23

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Tracer/Carrier Summary

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR ABB/ASB (RAD)

Job ID: 500-233887-4

Method: 903.0 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

Percent Yield (Acceptance Limits)

Lab Sample ID	Client Sample ID	Ba (30-110)
500-233887-7	MW-17	92.3
500-233887-8	MW-18	95.1
500-233887-9	MW-19	95.9
500-233887-10	Duplicate	95.9
LCS 160-613260/2-A	Lab Control Sample	85.4
MB 160-613260/1-A	Method Blank	87.0

Tracer/Carrier Legend

Ba = Ba Carrier

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

Percent Yield (Acceptance Limits)

Lab Sample ID	Client Sample ID	Ba (30-110)	Y (30-110)
500-233887-7	MW-17	92.3	85.6
500-233887-8	MW-18	95.1	87.1
500-233887-9	MW-19	95.9	82.6
500-233887-10	Duplicate	95.9	85.6
LCS 160-613360/2-A	Lab Control Sample	85.4	88.2
MB 160-613360/1-A	Method Blank	87.0	86.4

Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier



ANALYTICAL REPORT

PREPARED FOR

Attn: Richard Gnat
KPRG and Associates, Inc.
14665 West Lisbon Road,
Suite 1A
Brookfield, Wisconsin 53005

Generated 7/11/2023 1:50:49 PM

JOB DESCRIPTION

Powerton CCR ABB/ASB (MW-15 - Se Resample)

JOB NUMBER

500-235817-1

Eurofins Chicago

Job Notes

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

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

Authorization



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7/11/2023 1:50:49 PM

Authorized for release by
Diana Mockler, Project Manager I
Diana.Mockler@et.eurofinsus.com
(219)252-7570



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Case Narrative

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR ABB/ASB (MW-15 - Se Resample)

Job ID: 500-235817-1

Job ID: 500-235817-1

Laboratory: Eurofins Chicago

Narrative

**Job Narrative
500-235817-1**

Receipt

The sample was received on 6/27/2023 10:00 AM. Unless otherwise noted below, the sample arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.8° C.

Metals

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

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Method Summary

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR ABB/ASB (MW-15 - Se Resample)

Job ID: 500-235817-1

Method	Method Description	Protocol	Laboratory
6020A	Metals (ICP/MS)	SW846	EET CHI
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CHI

Protocol References:

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

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

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Sample Summary

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR ABB/ASB (MW-15 - Se Resample)

Job ID: 500-235817-1

<u>Lab Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Collected</u>	<u>Received</u>
500-235817-1	MW-15	Water	06/26/23 14:07	06/27/23 10:00

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Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR ABB/ASB (MW-15 - Se Resample)

Job ID: 500-235817-1

Client Sample ID: MW-15
Date Collected: 06/26/23 14:07
Date Received: 06/27/23 10:00

Lab Sample ID: 500-235817-1
Matrix: Water

Method: SW846 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	0.041		0.0025		mg/L		06/30/23 09:01	06/30/23 19:16	1

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Definitions/Glossary

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR ABB/ASB (MW-15 - Se Resample)

Job ID: 500-235817-1

Glossary

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

QC Association Summary

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR ABB/ASB (MW-15 - Se Resample)

Job ID: 500-235817-1

Metals

Prep Batch: 721251

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235817-1	MW-15	Total Recoverable	Water	3005A	
MB 500-721251/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-721251/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 721484

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235817-1	MW-15	Total Recoverable	Water	6020A	721251
MB 500-721251/1-A	Method Blank	Total Recoverable	Water	6020A	721251
LCS 500-721251/2-A	Lab Control Sample	Total Recoverable	Water	6020A	721251



QC Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Powerton CCR ABB/ASB (MW-15 - Se Resample)

Job ID: 500-235817-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 500-721251/1-A
Matrix: Water
Analysis Batch: 721484

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 721251

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	<0.0025		0.0025		mg/L		06/30/23 09:01	06/30/23 18:28	1

Lab Sample ID: LCS 500-721251/2-A
Matrix: Water
Analysis Batch: 721484

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 721251

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Selenium	0.100	0.0982		mg/L		98	80 - 120

ORIGIN ID:PIAA (262) 278-1621

KPRG AND ASSOCIATES
414 PLAZA DR STE 106

WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 26JUN23
ACTWGT: 41.75 LB
CAD: 6994780/SSFE2422
DIMS: 23x14x15 IN

BILL THIRD PARTY

16297-495, 6994780 11/23

TO **EUROFINS**

2417 BOND ST.

UNIVERSITY PARK IL 60484

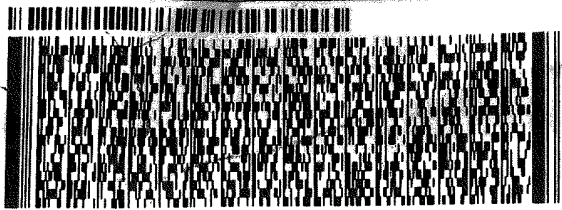
(666) 666-6666

REF:

INV:

DEPT:

500-235817 Waybi



FedEx
Express



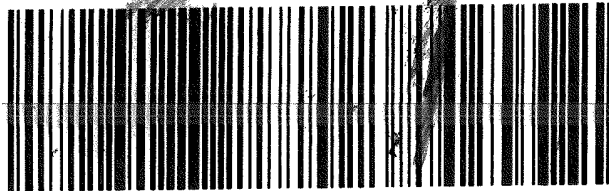
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TUE - 27 JUN 10:30A
PRIORITY OVERNIGHT

XN JOTA

AHS
60484
IL-US ORD



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Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-235817-1

Login Number: 235817

List Number: 1

Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Lab Chronicle

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR ABB/ASB (MW-15 - Se Resample)

Job ID: 500-235817-1

Client Sample ID: MW-15
Date Collected: 06/26/23 14:07
Date Received: 06/27/23 10:00

Lab Sample ID: 500-235817-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			721251	BDE	EET CHI	06/30/23 09:01 - 06/30/23 09:31 ¹
Total Recoverable	Analysis	6020A		1	721484	FXG	EET CHI	06/30/23 19:16

¹ This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200



Accreditation/Certification Summary

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR ABB/ASB (MW-15 - Se Resample)

Job ID: 500-235817-1

Laboratory: Eurofins Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-24

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ANALYTICAL REPORT

PREPARED FOR

Attn: Richard Gnat
KPRG and Associates, Inc.
14665 West Lisbon Road,
Suite 1A
Brookfield, Wisconsin 53005

Generated 9/25/2023 4:34:01 PM

JOB DESCRIPTION

Powerton CCR ABB/ASB

JOB NUMBER

500-238830-1

Eurofins Chicago

Job Notes

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

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

Authorization



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Authorized for release by
Diana Mockler, Project Manager I
Diana.Mockler@et.eurofinsus.com
(219)252-7570



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Case Narrative

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR ABB/ASB

Job ID: 500-238830-1

Job ID: 500-238830-1

Laboratory: Eurofins Chicago

Narrative

**Job Narrative
500-238830-1**

Receipt

The samples were received on 8/30/2023 10:10 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 0.7° C, 1.2° C, 1.6° C and 1.8° C.

Metals

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

General Chemistry

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

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Method Summary

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR ABB/ASB

Job ID: 500-238830-1

Method	Method Description	Protocol	Laboratory
6020B	Metals (ICP/MS)	SW846	EET CF
7470A	Mercury (CVAA)	SW846	EET CF
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET CHI
SM 4500 Cl- E	Chloride, Total	SM	EET CHI
SM 4500 F C	Fluoride	SM	EET CHI
SM 4500 SO4 E	Sulfate, Total	SM	EET CHI
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CF
7470A	Preparation, Mercury	SW846	EET CF

Protocol References:

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

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

Laboratory References:

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

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR ABB/ASB

Job ID: 500-238830-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-238830-1	MW-08	Water	08/29/23 11:21	08/30/23 10:10
500-238830-2	MW-01	Water	08/29/23 12:20	08/30/23 10:10
500-238830-3	MW-19	Water	08/29/23 14:55	08/30/23 10:10
500-238830-4	Duplicate	Water	08/29/23 00:00	08/30/23 10:10
500-238830-5	MW-18	Water	08/29/23 15:47	08/30/23 10:10
500-238830-6	MW-09	Water	08/30/23 13:44	08/31/23 10:05
500-238830-7	MW-17	Water	08/30/23 11:18	08/31/23 10:05
500-238830-8	MW-15	Water	08/30/23 09:32	08/31/23 10:05
500-238830-9	MW-11	Water	08/30/23 14:43	08/31/23 10:05
500-238830-10	MW-12	Water	08/30/23 15:47	08/31/23 10:05

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Client Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Powerton CCR ABB/ASB

Job ID: 500-238830-1

Client Sample ID: MW-08
Date Collected: 08/29/23 11:21
Date Received: 08/30/23 10:10

Lab Sample ID: 500-238830-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0022		0.0020		mg/L		09/01/23 09:00	09/15/23 20:06	1
Boron	0.67		0.10		mg/L		09/01/23 09:00	09/19/23 18:16	1
Barium	0.11		0.0020		mg/L		09/01/23 09:00	09/15/23 20:06	1
Beryllium	<0.0010		0.0010		mg/L		09/01/23 09:00	09/15/23 20:06	1
Calcium	110		0.50		mg/L		09/01/23 09:00	09/15/23 20:06	1
Cadmium	<0.00020		0.00020		mg/L		09/01/23 09:00	09/15/23 20:06	1
Cobalt	<0.00050		0.00050		mg/L		09/01/23 09:00	09/15/23 20:06	1
Chromium	<0.0050		0.0050		mg/L		09/01/23 09:00	09/15/23 20:06	1
Molybdenum	0.0069		0.0020		mg/L		09/01/23 09:00	09/15/23 20:06	1
Lead	<0.00050		0.00050		mg/L		09/01/23 09:00	09/19/23 18:16	1
Antimony	<0.0020		0.0020		mg/L		09/01/23 09:00	09/19/23 18:16	1
Selenium	<0.0050		0.0050		mg/L		09/01/23 09:00	09/15/23 20:06	1
Thallium	<0.0010		0.0010		mg/L		09/01/23 09:00	09/19/23 18:16	1
Lithium	0.020		0.010		mg/L		09/01/23 09:00	09/15/23 20:06	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		09/12/23 11:54	09/13/23 12:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	700		10		mg/L			09/01/23 01:06	1
Chloride (SM 4500 Cl- E)	140		20		mg/L			09/12/23 17:04	10
Fluoride (SM 4500 F C)	0.34		0.10		mg/L			09/10/23 13:19	1
Sulfate (SM 4500 SO4 E)	49		5.0		mg/L			09/21/23 11:15	1

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR ABB/ASB

Job ID: 500-238830-1

Client Sample ID: MW-01
Date Collected: 08/29/23 12:20
Date Received: 08/30/23 10:10

Lab Sample ID: 500-238830-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0020		0.0020		mg/L		09/01/23 09:00	09/15/23 20:09	1
Boron	0.53		0.10		mg/L		09/01/23 09:00	09/19/23 18:18	1
Barium	0.076		0.0020		mg/L		09/01/23 09:00	09/15/23 20:09	1
Beryllium	<0.0010		0.0010		mg/L		09/01/23 09:00	09/15/23 20:09	1
Calcium	100		0.50		mg/L		09/01/23 09:00	09/15/23 20:09	1
Cadmium	<0.00020		0.00020		mg/L		09/01/23 09:00	09/15/23 20:09	1
Cobalt	<0.00050		0.00050		mg/L		09/01/23 09:00	09/15/23 20:09	1
Chromium	<0.0050		0.0050		mg/L		09/01/23 09:00	09/15/23 20:09	1
Molybdenum	<0.0020		0.0020		mg/L		09/01/23 09:00	09/15/23 20:09	1
Lead	<0.00050		0.00050		mg/L		09/01/23 09:00	09/19/23 18:18	1
Antimony	<0.0020		0.0020		mg/L		09/01/23 09:00	09/19/23 18:18	1
Selenium	<0.0050		0.0050		mg/L		09/01/23 09:00	09/15/23 20:09	1
Thallium	<0.0010		0.0010		mg/L		09/01/23 09:00	09/19/23 18:18	1
Lithium	<0.010		0.010		mg/L		09/01/23 09:00	09/15/23 20:09	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		09/12/23 11:54	09/13/23 12:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	520		10		mg/L			09/01/23 01:13	1
Chloride (SM 4500 Cl- E)	50		4.0		mg/L			09/14/23 14:33	2
Fluoride (SM 4500 F C)	<0.10		0.10		mg/L			09/10/23 13:24	1
Sulfate (SM 4500 SO4 E)	43		5.0		mg/L			09/21/23 11:15	1

Client Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Powerton CCR ABB/ASB

Job ID: 500-238830-1

Client Sample ID: MW-19

Lab Sample ID: 500-238830-3

Date Collected: 08/29/23 14:55

Matrix: Water

Date Received: 08/30/23 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0020		0.0020		mg/L		09/01/23 09:00	09/15/23 20:13	1
Boron	3.0		0.10		mg/L		09/01/23 09:00	09/19/23 18:21	1
Barium	0.060		0.0020		mg/L		09/01/23 09:00	09/15/23 20:13	1
Beryllium	<0.0010		0.0010		mg/L		09/01/23 09:00	09/15/23 20:13	1
Calcium	80		0.50		mg/L		09/01/23 09:00	09/15/23 20:13	1
Cadmium	<0.00020		0.00020		mg/L		09/01/23 09:00	09/15/23 20:13	1
Cobalt	<0.00050		0.00050		mg/L		09/01/23 09:00	09/15/23 20:13	1
Chromium	<0.0050		0.0050		mg/L		09/01/23 09:00	09/15/23 20:13	1
Molybdenum	0.026		0.0020		mg/L		09/01/23 09:00	09/15/23 20:13	1
Lead	<0.00050		0.00050		mg/L		09/01/23 09:00	09/19/23 18:21	1
Antimony	<0.0020		0.0020		mg/L		09/01/23 09:00	09/19/23 18:21	1
Selenium	<0.0050		0.0050		mg/L		09/01/23 09:00	09/15/23 20:13	1
Thallium	<0.0010		0.0010		mg/L		09/01/23 09:00	09/19/23 18:21	1
Lithium	<0.010		0.010		mg/L		09/01/23 09:00	09/15/23 20:13	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		09/12/23 11:54	09/13/23 12:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	610		10		mg/L			09/01/23 01:19	1
Chloride (SM 4500 Cl- E)	32		2.0		mg/L			09/14/23 14:09	1
Fluoride (SM 4500 F C)	0.18		0.10		mg/L			09/10/23 13:29	1
Sulfate (SM 4500 SO4 E)	120		25		mg/L			09/21/23 12:02	5

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR ABB/ASB

Job ID: 500-238830-1

Client Sample ID: Duplicate

Lab Sample ID: 500-238830-4

Date Collected: 08/29/23 00:00

Matrix: Water

Date Received: 08/30/23 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0020		0.0020		mg/L		09/01/23 09:00	09/19/23 18:23	1
Boron	3.1		0.10		mg/L		09/01/23 09:00	09/19/23 18:23	1
Barium	0.071		0.0020		mg/L		09/01/23 09:00	09/19/23 18:23	1
Beryllium	<0.0010		0.0010		mg/L		09/01/23 09:00	09/19/23 18:23	1
Calcium	92		0.50		mg/L		09/01/23 09:00	09/19/23 18:23	1
Cadmium	<0.00020		0.00020		mg/L		09/01/23 09:00	09/19/23 18:23	1
Cobalt	<0.00050		0.00050		mg/L		09/01/23 09:00	09/19/23 18:23	1
Chromium	<0.0050		0.0050		mg/L		09/01/23 09:00	09/19/23 18:23	1
Molybdenum	0.032		0.0020		mg/L		09/01/23 09:00	09/19/23 18:23	1
Lead	<0.00050		0.00050		mg/L		09/01/23 09:00	09/19/23 18:23	1
Antimony	<0.0020		0.0020		mg/L		09/01/23 09:00	09/19/23 18:23	1
Selenium	0.0053		0.0050		mg/L		09/01/23 09:00	09/19/23 18:23	1
Thallium	<0.0010		0.0010		mg/L		09/01/23 09:00	09/19/23 18:23	1
Lithium	<0.010		0.010		mg/L		09/01/23 09:00	09/19/23 18:23	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		09/12/23 11:54	09/13/23 12:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	560		10		mg/L			09/01/23 01:21	1
Chloride (SM 4500 Cl- E)	32		2.0		mg/L			09/14/23 14:56	1
Fluoride (SM 4500 F C)	0.18		0.10		mg/L			09/10/23 13:34	1
Sulfate (SM 4500 SO4 E)	120		25		mg/L			09/21/23 11:36	5

Client Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Powerton CCR ABB/ASB

Job ID: 500-238830-1

Client Sample ID: MW-18
Date Collected: 08/29/23 15:47
Date Received: 08/30/23 10:10

Lab Sample ID: 500-238830-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0020		0.0020		mg/L		09/01/23 09:00	09/15/23 20:38	1
Boron	0.75		0.10		mg/L		09/01/23 09:00	09/19/23 18:27	1
Barium	0.13		0.0020		mg/L		09/01/23 09:00	09/15/23 20:38	1
Beryllium	<0.0010		0.0010		mg/L		09/01/23 09:00	09/15/23 20:38	1
Calcium	140		0.50		mg/L		09/01/23 09:00	09/19/23 18:27	1
Cadmium	<0.00020		0.00020		mg/L		09/01/23 09:00	09/15/23 20:38	1
Cobalt	<0.00050		0.00050		mg/L		09/01/23 09:00	09/15/23 20:38	1
Chromium	<0.0050		0.0050		mg/L		09/01/23 09:00	09/15/23 20:38	1
Molybdenum	0.0039		0.0020		mg/L		09/01/23 09:00	09/15/23 20:38	1
Lead	<0.00050		0.00050		mg/L		09/01/23 09:00	09/19/23 18:27	1
Antimony	<0.0020		0.0020		mg/L		09/01/23 09:00	09/19/23 18:27	1
Selenium	<0.0050		0.0050		mg/L		09/01/23 09:00	09/15/23 20:38	1
Thallium	<0.0010		0.0010		mg/L		09/01/23 09:00	09/19/23 18:27	1
Lithium	<0.010		0.010		mg/L		09/01/23 09:00	09/15/23 20:38	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		09/12/23 11:54	09/13/23 12:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	970		10		mg/L			09/01/23 01:24	1
Chloride (SM 4500 Cl- E)	170		20		mg/L			09/14/23 14:09	10
Fluoride (SM 4500 F C)	0.50		0.10		mg/L			09/10/23 13:39	1
Sulfate (SM 4500 SO4 E)	110		25		mg/L			09/21/23 11:37	5

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR ABB/ASB

Job ID: 500-238830-1

Client Sample ID: MW-09

Lab Sample ID: 500-238830-6

Date Collected: 08/30/23 13:44

Matrix: Water

Date Received: 08/31/23 10:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0020		0.0020		mg/L		09/05/23 08:00	09/20/23 23:56	1
Boron	2.8		0.10		mg/L		09/05/23 08:00	09/20/23 23:56	1
Barium	0.032		0.0020		mg/L		09/05/23 08:00	09/20/23 23:56	1
Beryllium	<0.0010		0.0010		mg/L		09/05/23 08:00	09/20/23 23:56	1
Calcium	73		0.50		mg/L		09/05/23 08:00	09/20/23 23:56	1
Cadmium	<0.00020		0.00020		mg/L		09/05/23 08:00	09/20/23 23:56	1
Cobalt	<0.00050		0.00050		mg/L		09/05/23 08:00	09/20/23 23:56	1
Chromium	<0.0050		0.0050		mg/L		09/05/23 08:00	09/20/23 23:56	1
Molybdenum	0.020		0.0020		mg/L		09/05/23 08:00	09/20/23 23:56	1
Lead	<0.00050		0.00050		mg/L		09/05/23 08:00	09/20/23 23:56	1
Antimony	<0.0020		0.0020		mg/L		09/05/23 08:00	09/20/23 23:56	1
Selenium	<0.0050		0.0050		mg/L		09/05/23 08:00	09/20/23 23:56	1
Thallium	<0.0010		0.0010		mg/L		09/05/23 08:00	09/21/23 17:37	1
Lithium	<0.010		0.010		mg/L		09/05/23 08:00	09/20/23 23:56	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		09/12/23 11:54	09/13/23 12:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	500		10		mg/L			09/01/23 01:26	1
Chloride (SM 4500 Cl- E)	30		2.0		mg/L			09/14/23 14:52	1
Fluoride (SM 4500 F C)	0.15		0.10		mg/L			09/10/23 14:21	1
Sulfate (SM 4500 SO4 E)	120		25		mg/L			09/21/23 11:37	5

Client Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Powerton CCR ABB/ASB

Job ID: 500-238830-1

Client Sample ID: MW-17

Lab Sample ID: 500-238830-7

Date Collected: 08/30/23 11:18

Matrix: Water

Date Received: 08/31/23 10:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0025		0.0020		mg/L		09/05/23 08:00	09/21/23 00:00	1
Boron	1.1		0.10		mg/L		09/05/23 08:00	09/21/23 00:00	1
Barium	0.023		0.0020		mg/L		09/05/23 08:00	09/21/23 00:00	1
Beryllium	<0.0010		0.0010		mg/L		09/05/23 08:00	09/21/23 00:00	1
Calcium	130		0.50		mg/L		09/05/23 08:00	09/21/23 00:00	1
Cadmium	0.00026		0.00020		mg/L		09/05/23 08:00	09/21/23 17:39	1
Cobalt	<0.00050		0.00050		mg/L		09/05/23 08:00	09/21/23 00:00	1
Chromium	<0.0050		0.0050		mg/L		09/05/23 08:00	09/21/23 00:00	1
Molybdenum	0.051		0.0020		mg/L		09/05/23 08:00	09/21/23 00:00	1
Lead	<0.00050		0.00050		mg/L		09/05/23 08:00	09/21/23 00:00	1
Antimony	<0.0020		0.0020		mg/L		09/05/23 08:00	09/21/23 00:00	1
Selenium	<0.0050		0.0050		mg/L		09/05/23 08:00	09/21/23 00:00	1
Thallium	0.0015		0.0010		mg/L		09/05/23 08:00	09/21/23 17:39	1
Lithium	0.012		0.010		mg/L		09/05/23 08:00	09/21/23 00:00	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		09/12/23 11:54	09/13/23 12:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1500		10		mg/L			09/01/23 01:29	1
Chloride (SM 4500 Cl- E)	210		20		mg/L			09/14/23 14:57	10
Fluoride (SM 4500 F C)	0.67		0.10		mg/L			09/10/23 14:26	1
Sulfate (SM 4500 SO4 E)	560		100		mg/L			09/21/23 12:03	20

Client Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Powerton CCR ABB/ASB

Job ID: 500-238830-1

Client Sample ID: MW-15

Lab Sample ID: 500-238830-8

Date Collected: 08/30/23 09:32

Matrix: Water

Date Received: 08/31/23 10:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0079		0.0020		mg/L		09/05/23 08:00	09/21/23 00:03	1
Boron	1.2		0.10		mg/L		09/05/23 08:00	09/21/23 00:03	1
Barium	0.050		0.0020		mg/L		09/05/23 08:00	09/21/23 00:03	1
Beryllium	<0.0010		0.0010		mg/L		09/05/23 08:00	09/21/23 00:03	1
Calcium	180		0.50		mg/L		09/05/23 08:00	09/21/23 00:03	1
Cadmium	0.00039		0.00020		mg/L		09/05/23 08:00	09/21/23 17:41	1
Cobalt	0.0018		0.00050		mg/L		09/05/23 08:00	09/21/23 00:03	1
Chromium	<0.0050		0.0050		mg/L		09/05/23 08:00	09/21/23 00:03	1
Molybdenum	0.097		0.0020		mg/L		09/05/23 08:00	09/21/23 00:03	1
Lead	<0.00050		0.00050		mg/L		09/05/23 08:00	09/21/23 00:03	1
Antimony	<0.0020		0.0020		mg/L		09/05/23 08:00	09/21/23 00:03	1
Selenium	0.021		0.0050		mg/L		09/05/23 08:00	09/21/23 00:03	1
Thallium	<0.0010		0.0010		mg/L		09/05/23 08:00	09/21/23 17:41	1
Lithium	0.022		0.010		mg/L		09/05/23 08:00	09/21/23 00:03	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		09/12/23 11:54	09/13/23 12:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1600		10		mg/L			09/01/23 01:32	1
Chloride (SM 4500 Cl- E)	280		40		mg/L			09/14/23 14:57	20
Fluoride (SM 4500 F C)	0.43		0.10		mg/L			09/10/23 14:30	1
Sulfate (SM 4500 SO4 E)	430		50		mg/L			09/21/23 11:38	10

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR ABB/ASB

Job ID: 500-238830-1

Client Sample ID: MW-11

Lab Sample ID: 500-238830-9

Date Collected: 08/30/23 14:43

Matrix: Water

Date Received: 08/31/23 10:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.017		0.0020		mg/L		09/05/23 08:00	09/21/23 00:07	1
Boron	2.1		0.10		mg/L		09/05/23 08:00	09/21/23 00:07	1
Barium	0.17		0.0020		mg/L		09/05/23 08:00	09/21/23 00:07	1
Beryllium	<0.0010		0.0010		mg/L		09/05/23 08:00	09/21/23 00:07	1
Calcium	110		0.50		mg/L		09/05/23 08:00	09/21/23 00:07	1
Cadmium	<0.00020		0.00020		mg/L		09/05/23 08:00	09/21/23 00:07	1
Cobalt	0.0016		0.00050		mg/L		09/05/23 08:00	09/21/23 00:07	1
Chromium	<0.0050		0.0050		mg/L		09/05/23 08:00	09/21/23 00:07	1
Molybdenum	0.013		0.0020		mg/L		09/05/23 08:00	09/21/23 00:07	1
Lead	<0.00050		0.00050		mg/L		09/05/23 08:00	09/21/23 00:07	1
Antimony	<0.0020		0.0020		mg/L		09/05/23 08:00	09/21/23 00:07	1
Selenium	<0.0050		0.0050		mg/L		09/05/23 08:00	09/21/23 00:07	1
Thallium	<0.0010		0.0010		mg/L		09/05/23 08:00	09/21/23 17:44	1
Lithium	<0.010		0.010		mg/L		09/05/23 08:00	09/21/23 00:07	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		09/14/23 10:57	09/15/23 10:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	760		10		mg/L			09/01/23 01:34	1
Chloride (SM 4500 Cl- E)	69		4.0		mg/L			09/14/23 15:16	2
Fluoride (SM 4500 F C)	0.54		0.10		mg/L			09/10/23 14:34	1
Sulfate (SM 4500 SO4 E)	87		10		mg/L			09/21/23 11:38	2

Client Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Powerton CCR ABB/ASB

Job ID: 500-238830-1

Client Sample ID: MW-12
Date Collected: 08/30/23 15:47
Date Received: 08/31/23 10:05

Lab Sample ID: 500-238830-10
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0096		0.0020		mg/L		09/05/23 08:00	09/21/23 00:11	1
Boron	0.50		0.10		mg/L		09/05/23 08:00	09/21/23 00:11	1
Barium	0.054		0.0020		mg/L		09/05/23 08:00	09/21/23 00:11	1
Beryllium	<0.0010		0.0010		mg/L		09/05/23 08:00	09/21/23 00:11	1
Calcium	91		0.50		mg/L		09/05/23 08:00	09/21/23 00:11	1
Cadmium	<0.00020		0.00020		mg/L		09/05/23 08:00	09/21/23 00:11	1
Cobalt	<0.00050		0.00050		mg/L		09/05/23 08:00	09/21/23 00:11	1
Chromium	<0.0050		0.0050		mg/L		09/05/23 08:00	09/21/23 00:11	1
Molybdenum	0.020		0.0020		mg/L		09/05/23 08:00	09/21/23 00:11	1
Lead	<0.00050		0.00050		mg/L		09/05/23 08:00	09/21/23 00:11	1
Antimony	<0.0020		0.0020		mg/L		09/05/23 08:00	09/21/23 00:11	1
Selenium	<0.0050		0.0050		mg/L		09/05/23 08:00	09/21/23 00:11	1
Thallium	<0.0010		0.0010		mg/L		09/05/23 08:00	09/21/23 17:46	1
Lithium	<0.010		0.010		mg/L		09/05/23 08:00	09/21/23 00:11	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		09/14/23 10:57	09/15/23 10:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1000		10		mg/L			09/01/23 01:37	1
Chloride (SM 4500 Cl- E)	170		20		mg/L			09/14/23 14:52	10
Fluoride (SM 4500 F C)	0.38		0.10		mg/L			09/10/23 14:39	1
Sulfate (SM 4500 SO4 E)	280		50		mg/L			09/21/23 12:03	10

Definitions/Glossary

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR ABB/ASB

Job ID: 500-238830-1

Qualifiers

Metals

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
^-	Continuing Calibration Verification (CCV) is outside acceptance limits, low biased.

Glossary

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

QC Association Summary

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR ABB/ASB

Job ID: 500-238830-1

Metals

Prep Batch: 398373

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238830-1	MW-08	Total Recoverable	Water	3005A	
500-238830-2	MW-01	Total Recoverable	Water	3005A	
500-238830-3	MW-19	Total Recoverable	Water	3005A	
500-238830-4	Duplicate	Total Recoverable	Water	3005A	
500-238830-5	MW-18	Total Recoverable	Water	3005A	
MB 310-398373/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 310-398373/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
500-238830-4 DU	Duplicate	Total Recoverable	Water	3005A	

Prep Batch: 398507

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238830-6	MW-09	Total Recoverable	Water	3005A	
500-238830-7	MW-17	Total Recoverable	Water	3005A	
500-238830-8	MW-15	Total Recoverable	Water	3005A	
500-238830-9	MW-11	Total Recoverable	Water	3005A	
500-238830-10	MW-12	Total Recoverable	Water	3005A	
MB 310-398507/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 310-398507/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 399305

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238830-1	MW-08	Total/NA	Water	7470A	
500-238830-2	MW-01	Total/NA	Water	7470A	
500-238830-3	MW-19	Total/NA	Water	7470A	
500-238830-4	Duplicate	Total/NA	Water	7470A	
500-238830-5	MW-18	Total/NA	Water	7470A	
500-238830-6	MW-09	Total/NA	Water	7470A	
500-238830-7	MW-17	Total/NA	Water	7470A	
500-238830-8	MW-15	Total/NA	Water	7470A	
MB 310-399305/1-A	Method Blank	Total/NA	Water	7470A	
LCS 310-399305/2-A	Lab Control Sample	Total/NA	Water	7470A	
500-238830-1 MS	MW-08	Total/NA	Water	7470A	
500-238830-1 MSD	MW-08	Total/NA	Water	7470A	

Analysis Batch: 399463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238830-1	MW-08	Total/NA	Water	7470A	399305
500-238830-2	MW-01	Total/NA	Water	7470A	399305
500-238830-3	MW-19	Total/NA	Water	7470A	399305
500-238830-4	Duplicate	Total/NA	Water	7470A	399305
500-238830-5	MW-18	Total/NA	Water	7470A	399305
500-238830-6	MW-09	Total/NA	Water	7470A	399305
500-238830-7	MW-17	Total/NA	Water	7470A	399305
500-238830-8	MW-15	Total/NA	Water	7470A	399305
MB 310-399305/1-A	Method Blank	Total/NA	Water	7470A	399305
LCS 310-399305/2-A	Lab Control Sample	Total/NA	Water	7470A	399305
500-238830-1 MS	MW-08	Total/NA	Water	7470A	399305
500-238830-1 MSD	MW-08	Total/NA	Water	7470A	399305

QC Association Summary

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR ABB/ASB

Job ID: 500-238830-1

Metals

Prep Batch: 399566

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238830-9	MW-11	Total/NA	Water	7470A	
500-238830-10	MW-12	Total/NA	Water	7470A	
MB 310-399566/1-A	Method Blank	Total/NA	Water	7470A	
LCS 310-399566/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 399704

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238830-9	MW-11	Total/NA	Water	7470A	399566
500-238830-10	MW-12	Total/NA	Water	7470A	399566
MB 310-399566/1-A	Method Blank	Total/NA	Water	7470A	399566
LCS 310-399566/2-A	Lab Control Sample	Total/NA	Water	7470A	399566

Analysis Batch: 399821

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238830-1	MW-08	Total Recoverable	Water	6020B	398373
500-238830-2	MW-01	Total Recoverable	Water	6020B	398373
500-238830-3	MW-19	Total Recoverable	Water	6020B	398373
500-238830-5	MW-18	Total Recoverable	Water	6020B	398373
MB 310-398373/1-A	Method Blank	Total Recoverable	Water	6020B	398373
LCS 310-398373/2-A	Lab Control Sample	Total Recoverable	Water	6020B	398373
500-238830-4 DU	Duplicate	Total Recoverable	Water	6020B	398373

Analysis Batch: 400043

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238830-1	MW-08	Total Recoverable	Water	6020B	398373
500-238830-2	MW-01	Total Recoverable	Water	6020B	398373
500-238830-3	MW-19	Total Recoverable	Water	6020B	398373
500-238830-4	Duplicate	Total Recoverable	Water	6020B	398373
500-238830-5	MW-18	Total Recoverable	Water	6020B	398373
MB 310-398373/1-A	Method Blank	Total Recoverable	Water	6020B	398373
LCS 310-398373/2-A	Lab Control Sample	Total Recoverable	Water	6020B	398373
500-238830-4 DU	Duplicate	Total Recoverable	Water	6020B	398373

Analysis Batch: 400176

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238830-6	MW-09	Total Recoverable	Water	6020B	398507
500-238830-7	MW-17	Total Recoverable	Water	6020B	398507
500-238830-8	MW-15	Total Recoverable	Water	6020B	398507
500-238830-9	MW-11	Total Recoverable	Water	6020B	398507
500-238830-10	MW-12	Total Recoverable	Water	6020B	398507
MB 310-398507/1-A	Method Blank	Total Recoverable	Water	6020B	398507
LCS 310-398507/2-A	Lab Control Sample	Total Recoverable	Water	6020B	398507

Analysis Batch: 400290

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 310-398373/2-A	Lab Control Sample	Total Recoverable	Water	6020B	398373

Analysis Batch: 400337

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238830-6	MW-09	Total Recoverable	Water	6020B	398507
500-238830-7	MW-17	Total Recoverable	Water	6020B	398507

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QC Association Summary

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR ABB/ASB

Job ID: 500-238830-1

Metals (Continued)

Analysis Batch: 400337 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238830-8	MW-15	Total Recoverable	Water	6020B	398507
500-238830-9	MW-11	Total Recoverable	Water	6020B	398507
500-238830-10	MW-12	Total Recoverable	Water	6020B	398507
MB 310-398507/1-A	Method Blank	Total Recoverable	Water	6020B	398507

Analysis Batch: 400466

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 310-398507/2-A	Lab Control Sample	Total Recoverable	Water	6020B	398507

General Chemistry

Analysis Batch: 730464

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238830-1	MW-08	Total/NA	Water	SM 2540C	
500-238830-2	MW-01	Total/NA	Water	SM 2540C	
500-238830-3	MW-19	Total/NA	Water	SM 2540C	
500-238830-4	Duplicate	Total/NA	Water	SM 2540C	
500-238830-5	MW-18	Total/NA	Water	SM 2540C	
500-238830-6	MW-09	Total/NA	Water	SM 2540C	
500-238830-7	MW-17	Total/NA	Water	SM 2540C	
500-238830-8	MW-15	Total/NA	Water	SM 2540C	
500-238830-9	MW-11	Total/NA	Water	SM 2540C	
500-238830-10	MW-12	Total/NA	Water	SM 2540C	
MB 500-730464/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-730464/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-238830-1 MS	MW-08	Total/NA	Water	SM 2540C	
500-238830-1 DU	MW-08	Total/NA	Water	SM 2540C	
500-238830-2 DU	MW-01	Total/NA	Water	SM 2540C	

Analysis Batch: 731562

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238830-1	MW-08	Total/NA	Water	SM 4500 F C	
500-238830-2	MW-01	Total/NA	Water	SM 4500 F C	
500-238830-3	MW-19	Total/NA	Water	SM 4500 F C	
500-238830-4	Duplicate	Total/NA	Water	SM 4500 F C	
500-238830-5	MW-18	Total/NA	Water	SM 4500 F C	
500-238830-6	MW-09	Total/NA	Water	SM 4500 F C	
500-238830-7	MW-17	Total/NA	Water	SM 4500 F C	
500-238830-8	MW-15	Total/NA	Water	SM 4500 F C	
500-238830-9	MW-11	Total/NA	Water	SM 4500 F C	
500-238830-10	MW-12	Total/NA	Water	SM 4500 F C	
MB 500-731562/31	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-731562/32	Lab Control Sample	Total/NA	Water	SM 4500 F C	

Analysis Batch: 731959

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238830-1	MW-08	Total/NA	Water	SM 4500 CI- E	
MB 500-731959/16	Method Blank	Total/NA	Water	SM 4500 CI- E	
LCS 500-731959/17	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	

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QC Association Summary

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR ABB/ASB

Job ID: 500-238830-1

General Chemistry

Analysis Batch: 732370

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238830-2	MW-01	Total/NA	Water	SM 4500 Cl- E	
500-238830-3	MW-19	Total/NA	Water	SM 4500 Cl- E	
500-238830-4	Duplicate	Total/NA	Water	SM 4500 Cl- E	
500-238830-5	MW-18	Total/NA	Water	SM 4500 Cl- E	
500-238830-6	MW-09	Total/NA	Water	SM 4500 Cl- E	
500-238830-7	MW-17	Total/NA	Water	SM 4500 Cl- E	
500-238830-8	MW-15	Total/NA	Water	SM 4500 Cl- E	
500-238830-9	MW-11	Total/NA	Water	SM 4500 Cl- E	
500-238830-10	MW-12	Total/NA	Water	SM 4500 Cl- E	
MB 500-732370/16	Method Blank	Total/NA	Water	SM 4500 Cl- E	
MB 500-732370/58	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 500-732370/17	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
LCS 500-732370/59	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 733424

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238830-1	MW-08	Total/NA	Water	SM 4500 SO4 E	
500-238830-2	MW-01	Total/NA	Water	SM 4500 SO4 E	
500-238830-3	MW-19	Total/NA	Water	SM 4500 SO4 E	
500-238830-4	Duplicate	Total/NA	Water	SM 4500 SO4 E	
500-238830-5	MW-18	Total/NA	Water	SM 4500 SO4 E	
500-238830-6	MW-09	Total/NA	Water	SM 4500 SO4 E	
500-238830-7	MW-17	Total/NA	Water	SM 4500 SO4 E	
500-238830-8	MW-15	Total/NA	Water	SM 4500 SO4 E	
500-238830-9	MW-11	Total/NA	Water	SM 4500 SO4 E	
500-238830-10	MW-12	Total/NA	Water	SM 4500 SO4 E	
MB 500-733424/16	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-733424/17	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	

QC Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR ABB/ASB

Job ID: 500-238830-1

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 310-398373/1-A
Matrix: Water
Analysis Batch: 399821

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 398373

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	<0.0020		0.0020		mg/L		09/01/23 09:00	09/15/23 18:58	1
Barium	<0.0020		0.0020		mg/L		09/01/23 09:00	09/15/23 18:58	1
Beryllium	<0.0010		0.0010		mg/L		09/01/23 09:00	09/15/23 18:58	1
Calcium	<0.50		0.50		mg/L		09/01/23 09:00	09/15/23 18:58	1
Cadmium	<0.00020		0.00020		mg/L		09/01/23 09:00	09/15/23 18:58	1
Cobalt	<0.00050		0.00050		mg/L		09/01/23 09:00	09/15/23 18:58	1
Chromium	<0.0050		0.0050		mg/L		09/01/23 09:00	09/15/23 18:58	1
Molybdenum	<0.0020		0.0020		mg/L		09/01/23 09:00	09/15/23 18:58	1
Selenium	<0.0050		0.0050		mg/L		09/01/23 09:00	09/15/23 18:58	1
Lithium	<0.010		0.010		mg/L		09/01/23 09:00	09/15/23 18:58	1

Lab Sample ID: MB 310-398373/1-A
Matrix: Water
Analysis Batch: 400043

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 398373

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Boron	<0.10		0.10		mg/L		09/01/23 09:00	09/19/23 17:38	1
Lead	<0.00050		0.00050		mg/L		09/01/23 09:00	09/19/23 17:38	1
Antimony	<0.0020		0.0020		mg/L		09/01/23 09:00	09/19/23 17:38	1
Thallium	<0.0010		0.0010		mg/L		09/01/23 09:00	09/19/23 17:38	1

Lab Sample ID: LCS 310-398373/2-A
Matrix: Water
Analysis Batch: 399821

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 398373

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	0.100	0.0971		mg/L		97	80 - 120
Beryllium	0.100	0.0938		mg/L		94	80 - 120
Calcium	2.00	1.86		mg/L		93	80 - 120
Cadmium	0.100	0.0926		mg/L		93	80 - 120
Cobalt	0.100	0.0976		mg/L		98	80 - 120
Chromium	0.100	0.0978		mg/L		98	80 - 120
Molybdenum	0.200	0.197		mg/L		99	80 - 120
Selenium	0.400	0.371		mg/L		93	80 - 120
Lithium	0.200	0.192		mg/L		96	80 - 120

Lab Sample ID: LCS 310-398373/2-A
Matrix: Water
Analysis Batch: 400043

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 398373

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	0.200	0.223		mg/L		111	80 - 120
Antimony	0.200	0.230		mg/L		115	80 - 120

QC Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR ABB/ASB

Job ID: 500-238830-1

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

Lab Sample ID: LCS 310-398373/2-A
Matrix: Water
Analysis Batch: 400290

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 398373

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Thallium	0.200	0.175		mg/L		88	80 - 120

Lab Sample ID: 500-238830-4 DU
Matrix: Water
Analysis Batch: 399821

Client Sample ID: Duplicate
Prep Type: Total Recoverable
Prep Batch: 398373

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Calcium	81		78.5		mg/L		4	20
Thallium	<0.0010	^	<0.0010	^	mg/L		NC	20

Lab Sample ID: 500-238830-4 DU
Matrix: Water
Analysis Batch: 400043

Client Sample ID: Duplicate
Prep Type: Total Recoverable
Prep Batch: 398373

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Arsenic	<0.0020		<0.0020	*+	mg/L		NC	20
Boron	3.1		3.11	*+	mg/L		0.2	20
Barium	0.071		0.0715	*+	mg/L		0.3	20
Beryllium	<0.0010		<0.0010	*+	mg/L		NC	20
Calcium	92		93.9		mg/L		2	20
Cadmium	<0.00020		<0.00020	*+	mg/L		NC	20
Cobalt	<0.00050		<0.00050	*+	mg/L		NC	20
Chromium	<0.0050		<0.0050	*+	mg/L		NC	20
Molybdenum	0.032		0.0322	*+	mg/L		0.3	20
Lead	<0.00050		<0.00050	*+	mg/L		NC	20
Antimony	<0.0020		<0.0020	*+	mg/L		NC	20
Selenium	0.0053		0.00533	*+	mg/L		0.09	20
Lithium	<0.010		<0.010	*+	mg/L		NC	20

Lab Sample ID: MB 310-398507/1-A
Matrix: Water
Analysis Batch: 400176

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 398507

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0020		0.0020		mg/L		09/05/23 08:00	09/20/23 23:03	1
Boron	<0.10		0.10		mg/L		09/05/23 08:00	09/20/23 23:03	1
Barium	<0.0020		0.0020		mg/L		09/05/23 08:00	09/20/23 23:03	1
Beryllium	<0.0010		0.0010		mg/L		09/05/23 08:00	09/20/23 23:03	1
Calcium	<0.50		0.50		mg/L		09/05/23 08:00	09/20/23 23:03	1
Cadmium	<0.00020		0.00020		mg/L		09/05/23 08:00	09/20/23 23:03	1
Cobalt	<0.00050		0.00050		mg/L		09/05/23 08:00	09/20/23 23:03	1
Chromium	<0.0050		0.0050		mg/L		09/05/23 08:00	09/20/23 23:03	1
Molybdenum	<0.0020		0.0020		mg/L		09/05/23 08:00	09/20/23 23:03	1
Lead	<0.00050		0.00050		mg/L		09/05/23 08:00	09/20/23 23:03	1
Antimony	<0.0020		0.0020		mg/L		09/05/23 08:00	09/20/23 23:03	1
Selenium	<0.0050		0.0050		mg/L		09/05/23 08:00	09/20/23 23:03	1
Lithium	<0.010		0.010		mg/L		09/05/23 08:00	09/20/23 23:03	1

QC Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR ABB/ASB

Job ID: 500-238830-1

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

Lab Sample ID: MB 310-398507/1-A
Matrix: Water
Analysis Batch: 400337

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 398507

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0010		0.0010		mg/L		09/05/23 08:00	09/21/23 17:02	1

Lab Sample ID: LCS 310-398507/2-A
Matrix: Water
Analysis Batch: 400176

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 398507

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.200	0.201		mg/L		100	80 - 120
Boron	0.200	0.189		mg/L		94	80 - 120
Barium	0.100	0.0923		mg/L		92	80 - 120
Beryllium	0.100	0.0909		mg/L		91	80 - 120
Calcium	2.00	1.85		mg/L		93	80 - 120
Cadmium	0.100	0.0879		mg/L		88	80 - 120
Cobalt	0.100	0.0992		mg/L		99	80 - 120
Chromium	0.100	0.0955		mg/L		96	80 - 120
Molybdenum	0.200	0.179		mg/L		90	80 - 120
Lead	0.200	0.207		mg/L		104	80 - 120
Antimony	0.200	0.195		mg/L		98	80 - 120
Selenium	0.400	0.377		mg/L		94	80 - 120
Lithium	0.200	0.190		mg/L		95	80 - 120

Lab Sample ID: LCS 310-398507/2-A
Matrix: Water
Analysis Batch: 400466

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 398507

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Thallium	0.200	0.162		mg/L		81	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 310-399305/1-A
Matrix: Water
Analysis Batch: 399463

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 399305

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		09/12/23 11:54	09/13/23 11:34	1

Lab Sample ID: LCS 310-399305/2-A
Matrix: Water
Analysis Batch: 399463

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 399305

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00167	0.00184		mg/L		111	80 - 120

Lab Sample ID: 500-238830-1 MS
Matrix: Water
Analysis Batch: 399463

Client Sample ID: MW-08
Prep Type: Total/NA
Prep Batch: 399305

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.00020		0.00167	0.00178		mg/L		107	80 - 120

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QC Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR ABB/ASB

Job ID: 500-238830-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: 500-238830-1 MSD
Matrix: Water
Analysis Batch: 399463

Client Sample ID: MW-08
Prep Type: Total/NA
Prep Batch: 399305

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.00020		0.00167	0.00174		mg/L		104	80 - 120	2	20

Lab Sample ID: MB 310-399566/1-A
Matrix: Water
Analysis Batch: 399704

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 399566

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		09/14/23 10:57	09/15/23 10:35	1

Lab Sample ID: LCS 310-399566/2-A
Matrix: Water
Analysis Batch: 399704

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 399566

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00167	0.00163		mg/L		98	80 - 120

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

Lab Sample ID: MB 500-730464/1
Matrix: Water
Analysis Batch: 730464

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10		mg/L			09/01/23 01:01	1

Lab Sample ID: LCS 500-730464/2
Matrix: Water
Analysis Batch: 730464

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	242		mg/L		97	80 - 120

Lab Sample ID: 500-238830-1 MS
Matrix: Water
Analysis Batch: 730464

Client Sample ID: MW-08
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	700		250	1010		mg/L		123	75 - 125

Lab Sample ID: 500-238830-1 DU
Matrix: Water
Analysis Batch: 730464

Client Sample ID: MW-08
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	700		678		mg/L		4	5

QC Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR ABB/ASB

Job ID: 500-238830-1

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

Lab Sample ID: 500-238830-2 DU
Matrix: Water
Analysis Batch: 730464

Client Sample ID: MW-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	520		540		mg/L		3	5

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 500-731959/16
Matrix: Water
Analysis Batch: 731959

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<2.0		2.0		mg/L			09/12/23 17:03	1

Lab Sample ID: LCS 500-731959/17
Matrix: Water
Analysis Batch: 731959

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	19.8		mg/L		99	85 - 115

Lab Sample ID: MB 500-732370/16
Matrix: Water
Analysis Batch: 732370

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<2.0		2.0		mg/L			09/14/23 14:05	1

Lab Sample ID: MB 500-732370/58
Matrix: Water
Analysis Batch: 732370

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<2.0		2.0		mg/L			09/14/23 14:51	1

Lab Sample ID: LCS 500-732370/17
Matrix: Water
Analysis Batch: 732370

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	21.6		mg/L		108	85 - 115

Lab Sample ID: LCS 500-732370/59
Matrix: Water
Analysis Batch: 732370

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	21.6		mg/L		108	85 - 115

QC Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Powerton CCR ABB/ASB

Job ID: 500-238830-1

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-731562/31
 Matrix: Water
 Analysis Batch: 731562

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10		mg/L			09/10/23 12:29	1

Lab Sample ID: LCS 500-731562/32
 Matrix: Water
 Analysis Batch: 731562

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	10.0	10.2		mg/L		102	90 - 119

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 500-733424/16
 Matrix: Water
 Analysis Batch: 733424

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<5.0		5.0		mg/L			09/21/23 11:15	1

Lab Sample ID: LCS 500-733424/17
 Matrix: Water
 Analysis Batch: 733424

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


Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	20.0	20.6		mg/L		103	88 - 123

Chain of Custody

TAL-8210

Address: _____

Regulatory Program: DW NPDES RCRA Other

Client Contact	Project Manager: Diana Mockler	Site Contact:	Date:														
Company Name: KARG and Associates	Tel/Email: Diana.Mockler@et.eurofinsus	Lab Contact:	Carrier:														
Address: 14165 W. Lisbon Rd	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2" style="text-align: center;">Analysis Turnaround Time</td> </tr> <tr> <td><input type="checkbox"/> CALENDAR DAYS</td> <td><input type="checkbox"/> WORKING DAYS</td> </tr> <tr> <td colspan="2">TAT if different from Below Standard</td> </tr> <tr> <td><input type="checkbox"/></td> <td>2 weeks</td> </tr> <tr> <td><input type="checkbox"/></td> <td>1 week</td> </tr> <tr> <td><input type="checkbox"/></td> <td>2 days</td> </tr> <tr> <td><input type="checkbox"/></td> <td>1 day</td> </tr> </table>			Analysis Turnaround Time		<input type="checkbox"/> CALENDAR DAYS	<input type="checkbox"/> WORKING DAYS	TAT if different from Below Standard		<input type="checkbox"/>	2 weeks	<input type="checkbox"/>	1 week	<input type="checkbox"/>	2 days	<input type="checkbox"/>	1 day
Analysis Turnaround Time																	
<input type="checkbox"/> CALENDAR DAYS	<input type="checkbox"/> WORKING DAYS																
TAT if different from Below Standard																	
<input type="checkbox"/>	2 weeks																
<input type="checkbox"/>	1 week																
<input type="checkbox"/>	2 days																
<input type="checkbox"/>	1 day																
City/State/Zip: Brookfield, WI, 53005	 500-238830 COC																
Phone: 262-781-0475																	
Project Name: PowerGen CCR ABB/ASB	Job / SDG No: 500-238830																
Site:	Sample Specific Notes:																
PO #:																	

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Total Metals	Sulfate	Chloride, fluoride
1 MW-08	8/29/23	1121	G	W	7	N	N	X	X	X
2 MW-01	8/29/23	1220				N	N	X	X	X
3 MW-19	8/29/23	1455				N	N	X	X	X
4 Duplicate	8/29/23	-				N	N	X	X	X
5 MW-18	8/29	1547				N	N	X	X	X

Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4= HNO3, 5= NaOH, 6= Other *none*

Possible Hazard Identification:
 Are any samples from a listed EPA Hazardous Waste? Yes No
 Comments Section if the lab is to dispose of the sample. Please list any EPA Waste Codes for the sample in the Non-Hazard Flammable Skin Corrosive Unknown

Special Instructions/QC Requirements & Comments: _____

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return to Client Disposal by Lab Archive for _____ Months

2.2 → 1.8, 1.0 → 0.7

Custody Seals Intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Seal No	Cooler Temp (°C)	Obs'd	Corr'd:	Therm ID No.
Relinquished by: <i>Karlyn Orule</i>	C				
Relinquished by:	Comp:	Date/Time: 8/29/23/1720	Received by:	Company:	Date/Time:
Relinquished by:		Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:		Date/Time:	Received in Laboratory by: <i>Alan Roth</i>	Company: <i>ERDA</i>	Date/Time: 8/30/23 101

Chain of Custody Record

667593




Environment Testing America

Address: _____

Regulatory Program: DW NPDES RCRA Other

TAL-8210

Client Contact		Project Manager: <u>Diana Mockler</u>			Site Contact:			Date:		COC No	
Company Name <u>KPRG and Associates</u>		Tel/Email: <u>Diana Mockler @ eurofins.com</u>			Lab Contact:			Carrier:		____ of ____ COCs	
Address <u>14165 W Lisbon Rd</u>		Analysis Turnaround Time			Filtered Sample (Y/N) Perform MS / MSD (Y/N) <u>401.0, 903.0 Radionuclides</u> <u>Total Metals</u> <u>TDS</u> <u>Sulfate</u> <u>chloride, fluoride</u>			 500-238830 COC		Sampler:	
City/State/Zip <u>Brookfield, WI 53005</u>		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT If different from Below <u>Standard</u>								For Lab Use Only:	
Phone <u>262-781-0475</u>		<input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day								Walk-in Client:	
Fax										Lab Sampling	
Project Name <u>Powerton CCR-ABB/ASB</u>										Job / SDG No	
Site					<u>500-238830</u>						
P O # <u>Powerton CCR-ABB/ASB</u>											
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Sample Specific Notes				
<u>MW-09</u>		<u>8/30/23</u>	<u>1344</u>	<u>G</u>	<u>W</u>	<u>7</u>					
<u>MW-17</u>		<u>8/30/23</u>	<u>1118</u>	<u>G</u>	<u>W</u>	<u>7</u>					
<u>MW-15</u>		<u>8/30/23</u>	<u>0932</u>	<u>G</u>	<u>W</u>	<u>7</u>					
<u>MW-11</u>		<u>8/30/23</u>	<u>1443</u>	<u>G</u>	<u>W</u>	<u>7</u>					
<u>MW-12</u>		<u>8/30/23</u>	<u>1547</u>	<u>G</u>	<u>W</u>	<u>7</u>					
Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4= HNO3, 5= NaOH, 6= Other <u>None</u>		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)									
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample		<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months									
Special Instructions/QC Requirements & Comments: <u>1.5 -> 1.2 1.9 -> 1.6</u>											
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No			Cooler Temp (°C) Obs'd			Corr'd		Therm ID No	
Relinquished by: <u>Kaelyn Ortle</u>		Company: <u>KPRG</u>			Date/Time: <u>8/30/23/1000</u>			Received by:		Company:	
Relinquished by:		Company:			Date/Time:			Received by:		Company:	
Relinquished by:		Company:			Date/Time:			Received by Laboratory by: <u>[Signature]</u>		Company: <u>EPTA</u>	

ORIGIN ID:PIAA (262) 278-1621
KAELYN SPERLE
KPRG AND ASSOCIATES
414 PLAZA DR STE 106

SHIP DATE: 29AUG23
ACTWGT: 61.75 LB
CAD: 6994780/6SFE2422
DIMS: 24x13x14 IN

WESTMONT, IL 60559
UNITED STATES US

BILL THIRD PARTY

TO EUROFINS CHICAGO

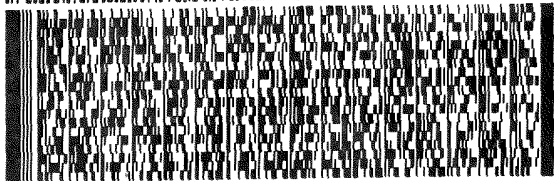
2417 BOND ST.

UNIVERSITY PARK IL 60484

(555) 555-5555

REF:

DEPT:



FedEx Express



AN 1015203215327

1 of 4

TRK# 7830 9817 4786
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MASTER

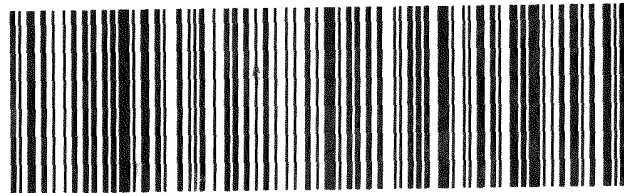
XN JOTA

WED - 30 AUG 10:30A
PRIORITY OVERNIGHT

AHS

60484

IL-US ORD



ORIGIN ID:PIAA (262) 278-1621
KAELYN SPERLE
KPRG AND ASSOCIATES
414 PLAZA DR STE 106

SHIP DATE: 29AUG23
ACTWGT: 61.75 LB
CAD: 6994780/6SFE2422

WESTMONT, IL 60559
UNITED STATES US

TO EUROFINS CHICAGO

RT 519

5 10:30 A

ST 18

2417 BOND ST.

UNIVERSITY PARK IL 60484

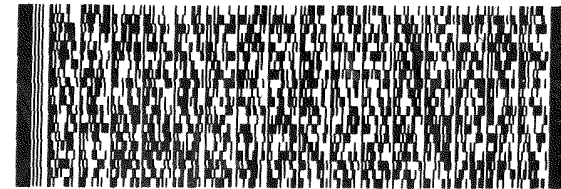
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INU:

PO:



FedEx Express



AN 1015203215327

4 of 4

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0263

Mstr# 7830 9817 4786

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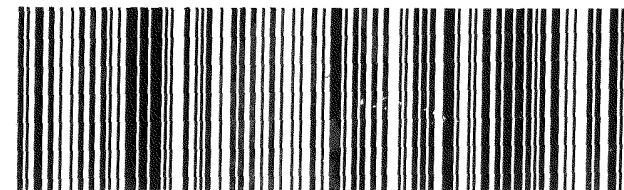
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WED - 30 AUG 10:30A
PRIORITY OVERNIGHT

AHS

60484

IL-US ORD



Part # 156297-436-AM3028T-GRP 04/24

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ORIGIN ID:PIAA (262) 278-1621
KAELYN SPERLE
KPRG AND ASSOCIATES
414 PLAZA DR STE 106

SHIP DATE: 30AUG23
ACTWGT: 45.30 LB
CAD: 6994780/SSFE2422
DIMS: 24x13x15 IN

WESTMONT, IL 60559
UNITED STATES US

BILL THIRD PARTY

TO EUROFINS CHICAGO

2417 BOND ST.

105-762

UNIVERSITY PARK IL 60484

(555) 555-5555

REF:

THU:

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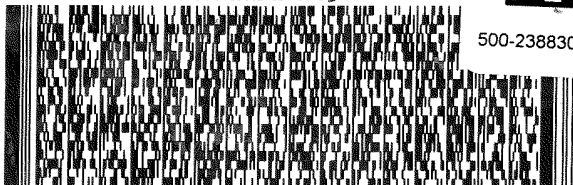
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5 of 5

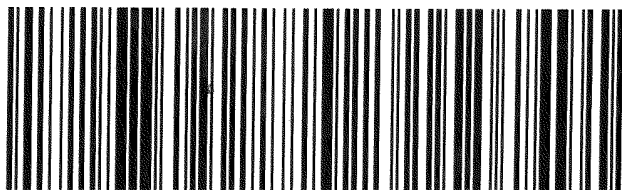
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0263

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0201

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THU - 31 AUG 10:30A
PRIORITY OVERNIGHT
AHS
60484
IL-US ORD



ORIGIN ID:PIAA (262) 278-1621
KAELYN SPERLE
KPRG AND ASSOCIATES
414 PLAZA DR STE 106

SHIP DATE: 30AUG23
ACTWGT: 45.80 LB
CAD: 6994780/SSFE2422
DIMS: 24x13x15 IN

WESTMONT, IL 60559
UNITED STATES US

BILL THIRD PARTY

TO EUROFINS CHICAGO

2417 BOND ST.

109-766

UNIVERSITY PARK IL 60484

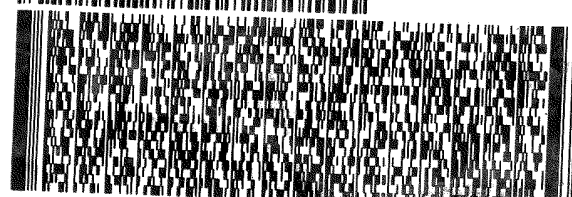
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THU:

DEPT:

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FedEx
Express



AN 1016708218327

3 of 5

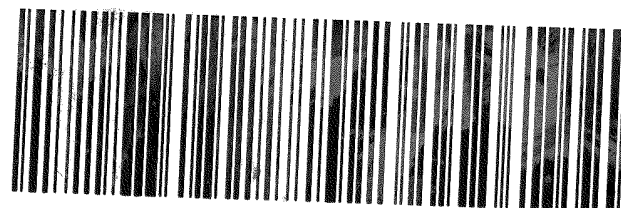
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0263

Mstr# 7831 4952 6448

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PRIORITY OVERNIGHT
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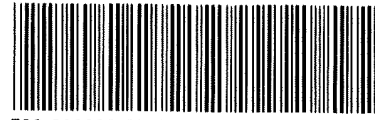
ST 25

RT 519

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Environment Testing
America



500-238830 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: <u>Chicago</u>			
City/State:	CITY	STATE	Project:
		<u>IL</u>	
Receipt Information			
Date/Time Received:	DATE	TIME	Received By:
	<u>8-31-23</u>	<u>1000</u>	<u>mc</u>
Delivery Type: <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes: Cooler ID: _____			
Multiple Coolers? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes: Cooler # _____ of _____			
Cooler Custody Seals Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes: Cooler custody seals intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
Sample Custody Seals Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No			
Trip Blank Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes: Which VOA samples are in cooler? ↓			
Temperature Record			
Coolant: <input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input type="checkbox"/> NONE			
Thermometer ID: <u>R</u>		Correction Factor (°C): <u>0</u>	
• Temp Blank Temperature - If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C): _____		Corrected Temp (°C): _____	
Sample Container Temperature			
Container(s) used:	CONTAINER 1	CONTAINER 2	
	<u>250 ml plastic</u>		
Uncorrected Temp (°C):	<u>0.7</u>		
Corrected Temp (°C):	<u>0.7</u>		
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No			
NOTE. If yes, contact PM before proceeding. If no, proceed with login			
Additional Comments			



Chain of Custody Record

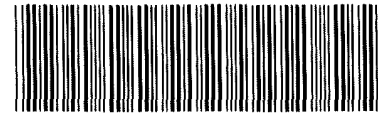


Client Information (Sub Contract Lab)		Lab Piv: Mockler, Diana J	Carrier Tracking No(s): 500-178460 1
Shipping/Receiving		E-Mail: Diana Mockler@et.eurofins.com	Page: Page 1 of 1
Eurofins Environment Testing North Center		Accreditations Required (See note): NELAP - Illinois	Job #: 500-238830-1
Address: 3019 Venture Way.		Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO8 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify) Other	
City: Cedar Falls		Analysis Requested	
State, Zip: IA, 50613		Total Number of containers	
Phone: 319-277-2401(Tel) 319-277-2425(Fax)		Perform MS/MSD (Yes or No) 7470A/7470A Prep Mercury	
Email:		Field Filtered Sample (Yes or No)	
Project Name: Powerton CCR		Special Instructions/Note:	
Site: MWG - Powerton		MW-08 (500-238830-1)	
Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Seawater, Other, BTX, etc.)
8/29/23	11:21 Central	Water	Water
8/29/23	12:20 Central	Water	Water
8/29/23	14:55 Central	Water	Water
8/29/23	15:47 Central	Water	Water
Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately if all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.			
Possible Hazard Identification			
Unconfirmed <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Deliverable Requested I, II, III, IV, Other (specify) Primary Deliverable Rank. 2			
Empty Kit Relinquished by		Method of Shipment:	
Relinquished by <i>Mike Smith</i>		Date/Time: 8-31-23 1000	
Relinquished by		Date/Time:	
Relinquished by		Date/Time:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Cooler Temperature(s) °C and Other Remarks:	





Environment Testing
America



500-238830 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: <u>Chicago</u>			
City/State:	CITY	STATE	Project:
		<u>IL</u>	
Receipt Information			
Date/Time Received:	DATE	TIME	Received By:
	<u>9-1-23</u>	<u>1000</u>	<u>ML</u>
Delivery Type: <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler ID: _____	
Multiple Coolers?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Cooler # _____ of _____	
Cooler Custody Seals Present? No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler custody seals intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Sample Custody Seals Present? No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Trip Blank Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Which VOA samples are in cooler? ↓	
Temperature Record			
Coolant:	<input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input type="checkbox"/> NONE		
Thermometer ID:	<u>R</u>	Correction Factor (°C):	<u>0</u>
Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C):	_____	Corrected Temp (°C):	_____
Sample Container Temperature			
Container(s) used:	CONTAINER 1 <u>250 ml plastic</u>	CONTAINER 2	
Uncorrected Temp (°C):	<u>1.9</u>		
Corrected Temp (°C):	<u>1.9</u>		
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No			
a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No			
NOTE: If yes, contact PM before proceeding. If no, proceed with login			
Additional Comments			



Chain of Custody Record



Client Information (Sub Contract Lab)		Lab PM: Mockler, Diana J	Carrier Tracking No(s): 500-178516 1								
Client Contact: Shipping/Receiving		E-Mail: Diana Mockler@et.eurofins.com	Page: Page 1 of 1								
Company: Eurofins Environment Testing North Centre		Accreditations Required (See note): NELAP - Illinois	Job #: 500-238830-1								
Address: 3019 Venture Way, Cedar Falls, IA, 50613		Due Date Requested: 9/20/2023	Analysis Requested Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify) Other:								
City: Cedar Falls, State, Zip: IA, 50613		TAT Requested (days):									
Phone: 319-277-2401 (Tel) 319-277-2425 (Fax)		PO #:	Total Number of Containers 1 1 1 1 1								
Email:		WO #:									
Project Name: Powertron CCR ABB/ASB		Project #: 50011612	Special Instructions/Note: Perform MS/MSD (Yes or No) X Field Filtered Sample (Yes or No) X 740A/1470A Prep Mercury X 6020B/3005A (MOD) 14 Metals X								
Site: MWG - Powertron		SSOW#:									
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=oil, BT=bitumen, A=air)	Preservation Code:	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	740A/1470A Prep Mercury	6020B/3005A (MOD) 14 Metals	Total Number of Containers	Special Instructions/Note:
MW-09 (500-238830-6)	8/30/23	13:44 Central		Water		X	X	X	X	1	
MW-17 (500-238830-7)	8/30/23	11:18 Central		Water		X	X	X	X	1	
MW-15 (500-238830-8)	8/30/23	09:32 Central		Water		X	X	X	X	1	
MW-11 (500-238830-9)	8/30/23	14:43 Central		Water		X	X	X	X	1	
MW-12 (500-238830-10)	8/30/23	15:47 Central		Water		X	X	X	X	1	
<p>Possible Hazard Identification</p> <p>Unconfirmed <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months</p> <p>Deliverable Requested I, II, III, IV, Other (specify) Primary Deliverable Rank. 2</p> <p>Special Instructions/QC Requirements</p> <p>Method of Shipment:</p>											
<p>Empty Kit Relinquished by</p> <p>Relinquished by: <i>Shirley Smith</i> Date/Time: 8/31/23 14:00 Company: Company</p> <p>Relinquished by: Date/Time: Company: Company</p> <p>Relinquished by: Date/Time: Company: Company</p>											
<p>Custody Seals Intact: Custody Seal No</p> <p>Δ Yes Δ No</p> <p>Cooler Temperature(s) °C and Other Remarks:</p>											



Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-238830-1

Login Number: 238830

List Number: 1

Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.8,0.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-238830-1

Login Number: 238830

List Number: 3

Creator: Costello, Mackenzie K

List Source: Eurofins Cedar Falls

List Creation: 08/31/23 12:15 PM

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

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-238830-1

Login Number: 238830

List Number: 4

Creator: Costello, Mackenzie K

List Source: Eurofins Cedar Falls

List Creation: 09/01/23 10:55 AM

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

Lab Chronicle

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR ABB/ASB

Job ID: 500-238830-1

Client Sample ID: MW-08

Date Collected: 08/29/23 11:21

Date Received: 08/30/23 10:10

Lab Sample ID: 500-238830-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			398373	KCK5	EET CF	09/01/23 09:00
Total Recoverable	Analysis	6020B		1	399821	DHM5	EET CF	09/15/23 20:06
Total Recoverable	Prep	3005A			398373	KCK5	EET CF	09/01/23 09:00
Total Recoverable	Analysis	6020B		1	400043	A6US	EET CF	09/19/23 18:16
Total/NA	Prep	7470A			399305	NFT2	EET CF	09/12/23 11:54
Total/NA	Analysis	7470A		1	399463	NFT2	EET CF	09/13/23 12:13
Total/NA	Analysis	SM 2540C		1	730464	CLB	EET CHI	09/01/23 01:06
Total/NA	Analysis	SM 4500 CI- E		10	731959	MM	EET CHI	09/12/23 17:04
Total/NA	Analysis	SM 4500 F C		1	731562	EH	EET CHI	09/10/23 13:19
Total/NA	Analysis	SM 4500 SO4 E		1	733424	TR	EET CHI	09/21/23 11:15

Client Sample ID: MW-01

Date Collected: 08/29/23 12:20

Date Received: 08/30/23 10:10

Lab Sample ID: 500-238830-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			398373	KCK5	EET CF	09/01/23 09:00
Total Recoverable	Analysis	6020B		1	399821	DHM5	EET CF	09/15/23 20:09
Total Recoverable	Prep	3005A			398373	KCK5	EET CF	09/01/23 09:00
Total Recoverable	Analysis	6020B		1	400043	A6US	EET CF	09/19/23 18:18
Total/NA	Prep	7470A			399305	NFT2	EET CF	09/12/23 11:54
Total/NA	Analysis	7470A		1	399463	NFT2	EET CF	09/13/23 12:19
Total/NA	Analysis	SM 2540C		1	730464	CLB	EET CHI	09/01/23 01:13
Total/NA	Analysis	SM 4500 CI- E		2	732370	TR	EET CHI	09/14/23 14:33
Total/NA	Analysis	SM 4500 F C		1	731562	EH	EET CHI	09/10/23 13:24
Total/NA	Analysis	SM 4500 SO4 E		1	733424	TR	EET CHI	09/21/23 11:15

Client Sample ID: MW-19

Date Collected: 08/29/23 14:55

Date Received: 08/30/23 10:10

Lab Sample ID: 500-238830-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			398373	KCK5	EET CF	09/01/23 09:00
Total Recoverable	Analysis	6020B		1	399821	DHM5	EET CF	09/15/23 20:13
Total Recoverable	Prep	3005A			398373	KCK5	EET CF	09/01/23 09:00
Total Recoverable	Analysis	6020B		1	400043	A6US	EET CF	09/19/23 18:21
Total/NA	Prep	7470A			399305	NFT2	EET CF	09/12/23 11:54
Total/NA	Analysis	7470A		1	399463	NFT2	EET CF	09/13/23 12:21
Total/NA	Analysis	SM 2540C		1	730464	CLB	EET CHI	09/01/23 01:19
Total/NA	Analysis	SM 4500 CI- E		1	732370	TR	EET CHI	09/14/23 14:09
Total/NA	Analysis	SM 4500 F C		1	731562	EH	EET CHI	09/10/23 13:29
Total/NA	Analysis	SM 4500 SO4 E		5	733424	TR	EET CHI	09/21/23 12:02

Lab Chronicle

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR ABB/ASB

Job ID: 500-238830-1

Client Sample ID: Duplicate
Date Collected: 08/29/23 00:00
Date Received: 08/30/23 10:10

Lab Sample ID: 500-238830-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			398373	KCK5	EET CF	09/01/23 09:00
Total Recoverable	Analysis	6020B		1	400043	A6US	EET CF	09/19/23 18:23
Total/NA	Prep	7470A			399305	NFT2	EET CF	09/12/23 11:54
Total/NA	Analysis	7470A		1	399463	NFT2	EET CF	09/13/23 12:23
Total/NA	Analysis	SM 2540C		1	730464	CLB	EET CHI	09/01/23 01:21
Total/NA	Analysis	SM 4500 CI- E		1	732370	TR	EET CHI	09/14/23 14:56
Total/NA	Analysis	SM 4500 F C		1	731562	EH	EET CHI	09/10/23 13:34
Total/NA	Analysis	SM 4500 SO4 E		5	733424	TR	EET CHI	09/21/23 11:36

Client Sample ID: MW-18
Date Collected: 08/29/23 15:47
Date Received: 08/30/23 10:10

Lab Sample ID: 500-238830-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			398373	KCK5	EET CF	09/01/23 09:00
Total Recoverable	Analysis	6020B		1	399821	DHM5	EET CF	09/15/23 20:38
Total Recoverable	Prep	3005A			398373	KCK5	EET CF	09/01/23 09:00
Total Recoverable	Analysis	6020B		1	400043	A6US	EET CF	09/19/23 18:27
Total/NA	Prep	7470A			399305	NFT2	EET CF	09/12/23 11:54
Total/NA	Analysis	7470A		1	399463	NFT2	EET CF	09/13/23 12:26
Total/NA	Analysis	SM 2540C		1	730464	CLB	EET CHI	09/01/23 01:24
Total/NA	Analysis	SM 4500 CI- E		10	732370	TR	EET CHI	09/14/23 14:09
Total/NA	Analysis	SM 4500 F C		1	731562	EH	EET CHI	09/10/23 13:39
Total/NA	Analysis	SM 4500 SO4 E		5	733424	TR	EET CHI	09/21/23 11:37

Client Sample ID: MW-09
Date Collected: 08/30/23 13:44
Date Received: 08/31/23 10:05

Lab Sample ID: 500-238830-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			398507	QTZ5	EET CF	09/05/23 08:00
Total Recoverable	Analysis	6020B		1	400176	DHM5	EET CF	09/20/23 23:56
Total Recoverable	Prep	3005A			398507	QTZ5	EET CF	09/05/23 08:00
Total Recoverable	Analysis	6020B		1	400337	DHM5	EET CF	09/21/23 17:37
Total/NA	Prep	7470A			399305	NFT2	EET CF	09/12/23 11:54
Total/NA	Analysis	7470A		1	399463	NFT2	EET CF	09/13/23 12:28
Total/NA	Analysis	SM 2540C		1	730464	CLB	EET CHI	09/01/23 01:26
Total/NA	Analysis	SM 4500 CI- E		1	732370	TR	EET CHI	09/14/23 14:52
Total/NA	Analysis	SM 4500 F C		1	731562	EH	EET CHI	09/10/23 14:21
Total/NA	Analysis	SM 4500 SO4 E		5	733424	TR	EET CHI	09/21/23 11:37

Lab Chronicle

Client: KPRG and Associates, Inc.
 Project/Site: Powerton CCR ABB/ASB

Job ID: 500-238830-1

Client Sample ID: MW-17

Date Collected: 08/30/23 11:18

Date Received: 08/31/23 10:05

Lab Sample ID: 500-238830-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			398507	QTZ5	EET CF	09/05/23 08:00
Total Recoverable	Analysis	6020B		1	400176	DHM5	EET CF	09/21/23 00:00
Total Recoverable	Prep	3005A			398507	QTZ5	EET CF	09/05/23 08:00
Total Recoverable	Analysis	6020B		1	400337	DHM5	EET CF	09/21/23 17:39
Total/NA	Prep	7470A			399305	NFT2	EET CF	09/12/23 11:54
Total/NA	Analysis	7470A		1	399463	NFT2	EET CF	09/13/23 12:30
Total/NA	Analysis	SM 2540C		1	730464	CLB	EET CHI	09/01/23 01:29
Total/NA	Analysis	SM 4500 CI- E		10	732370	TR	EET CHI	09/14/23 14:57
Total/NA	Analysis	SM 4500 F C		1	731562	EH	EET CHI	09/10/23 14:26
Total/NA	Analysis	SM 4500 SO4 E		20	733424	TR	EET CHI	09/21/23 12:03

Client Sample ID: MW-15

Date Collected: 08/30/23 09:32

Date Received: 08/31/23 10:05

Lab Sample ID: 500-238830-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			398507	QTZ5	EET CF	09/05/23 08:00
Total Recoverable	Analysis	6020B		1	400176	DHM5	EET CF	09/21/23 00:03
Total Recoverable	Prep	3005A			398507	QTZ5	EET CF	09/05/23 08:00
Total Recoverable	Analysis	6020B		1	400337	DHM5	EET CF	09/21/23 17:41
Total/NA	Prep	7470A			399305	NFT2	EET CF	09/12/23 11:54
Total/NA	Analysis	7470A		1	399463	NFT2	EET CF	09/13/23 12:32
Total/NA	Analysis	SM 2540C		1	730464	CLB	EET CHI	09/01/23 01:32
Total/NA	Analysis	SM 4500 CI- E		20	732370	TR	EET CHI	09/14/23 14:57
Total/NA	Analysis	SM 4500 F C		1	731562	EH	EET CHI	09/10/23 14:30
Total/NA	Analysis	SM 4500 SO4 E		10	733424	TR	EET CHI	09/21/23 11:38

Client Sample ID: MW-11

Date Collected: 08/30/23 14:43

Date Received: 08/31/23 10:05

Lab Sample ID: 500-238830-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			398507	QTZ5	EET CF	09/05/23 08:00
Total Recoverable	Analysis	6020B		1	400176	DHM5	EET CF	09/21/23 00:07
Total Recoverable	Prep	3005A			398507	QTZ5	EET CF	09/05/23 08:00
Total Recoverable	Analysis	6020B		1	400337	DHM5	EET CF	09/21/23 17:44
Total/NA	Prep	7470A			399566	NFT2	EET CF	09/14/23 10:57
Total/NA	Analysis	7470A		1	399704	NFT2	EET CF	09/15/23 10:42
Total/NA	Analysis	SM 2540C		1	730464	CLB	EET CHI	09/01/23 01:34
Total/NA	Analysis	SM 4500 CI- E		2	732370	TR	EET CHI	09/14/23 15:16
Total/NA	Analysis	SM 4500 F C		1	731562	EH	EET CHI	09/10/23 14:34
Total/NA	Analysis	SM 4500 SO4 E		2	733424	TR	EET CHI	09/21/23 11:38

Lab Chronicle

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR ABB/ASB

Job ID: 500-238830-1

Client Sample ID: MW-12

Lab Sample ID: 500-238830-10

Date Collected: 08/30/23 15:47

Matrix: Water

Date Received: 08/31/23 10:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			398507	QTZ5	EET CF	09/05/23 08:00
Total Recoverable	Analysis	6020B		1	400176	DHM5	EET CF	09/21/23 00:11
Total Recoverable	Prep	3005A			398507	QTZ5	EET CF	09/05/23 08:00
Total Recoverable	Analysis	6020B		1	400337	DHM5	EET CF	09/21/23 17:46
Total/NA	Prep	7470A			399566	NFT2	EET CF	09/14/23 10:57
Total/NA	Analysis	7470A		1	399704	NFT2	EET CF	09/15/23 10:48
Total/NA	Analysis	SM 2540C		1	730464	CLB	EET CHI	09/01/23 01:37
Total/NA	Analysis	SM 4500 Cl- E		10	732370	TR	EET CHI	09/14/23 14:52
Total/NA	Analysis	SM 4500 F C		1	731562	EH	EET CHI	09/10/23 14:39
Total/NA	Analysis	SM 4500 SO4 E		10	733424	TR	EET CHI	09/21/23 12:03

Laboratory References:

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

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200



Accreditation/Certification Summary

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR ABB/ASB

Job ID: 500-238830-1

Laboratory: Eurofins Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-24

Laboratory: Eurofins Cedar Falls

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Colorado	Petroleum Storage Tank Program	IA100001 (OR)	09-29-23
Georgia	State	IA100001 (OR)	09-29-23
Illinois	NELAP	200024	11-29-23
Iowa	State	007	12-01-23
Kansas	NELAP	E-10341	01-31-24
Minnesota	NELAP	019-999-319	12-31-23
Minnesota (Petrofund)	State	3349	01-18-24
North Dakota	State	R-186	09-29-23
Oregon	NELAP	IA100001	09-29-23



ANALYTICAL REPORT

PREPARED FOR

Attn: Richard Gnat
KPRG and Associates, Inc.
14665 West Lisbon Road,
Suite 1A
Brookfield, Wisconsin 53005

Generated 10/3/2023 11:54:55 AM

JOB DESCRIPTION

Powerton CCR ABB/ASB (RAD)

JOB NUMBER

500-238830-2

Eurofins Chicago

Job Notes

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

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

Authorization



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10/3/2023 11:54:55 AM

Authorized for release by
Diana Mockler, Project Manager I
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(219)252-7570



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Case Narrative

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR ABB/ASB (RAD)

Job ID: 500-238830-2

Job ID: 500-238830-2

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-238830-2

Receipt

The samples were received on 8/30/2023 10:10 AM and 8/31/2023 10:05 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 0.7°C, 1.2°C, 1.6°C and 1.8°C

Gas Flow Proportional Counter

Method 903.0: Radium-226 batch 626333 Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. MW-08 (500-238830-1), MW-01 (500-238830-2), MW-19 (500-238830-3), Duplicate (500-238830-4), MW-18 (500-238830-5), (LCS 160-626333/2-A), (MB 160-626333/1-A) and (500-238830-F-4-A DU)

Method 903.0: Radium-226 batch 626536 Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. MW-09 (500-238830-6), MW-17 (500-238830-7), MW-15 (500-238830-8), MW-11 (500-238830-9), MW-12 (500-238830-10), (LCS 160-626536/2-A), (MB 160-626536/1-A) and (500-238830-E-6-A DU)

Method 904.0: Radium-228 Prep Batch 160-626334 Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. MW-08 (500-238830-1), MW-01 (500-238830-2), MW-19 (500-238830-3), Duplicate (500-238830-4), MW-18 (500-238830-5) and (500-238830-F-4-B DU)

Method 904.0: Radium-228 batch 626539 Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. MW-09 (500-238830-6), MW-17 (500-238830-7), MW-15 (500-238830-8), MW-11 (500-238830-9), MW-12 (500-238830-10), (LCS 160-626539/2-A), (MB 160-626539/1-A) and (500-238830-E-6-B DU)

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

Rad

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

Method Summary

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR ABB/ASB (RAD)

Job ID: 500-238830-2

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

Protocol References:

EPA = US Environmental Protection Agency

None = None

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

Laboratory References:

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

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Sample Summary

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR ABB/ASB (RAD)

Job ID: 500-238830-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-238830-1	MW-08	Water	08/29/23 11:21	08/30/23 10:10
500-238830-2	MW-01	Water	08/29/23 12:20	08/30/23 10:10
500-238830-3	MW-19	Water	08/29/23 14:55	08/30/23 10:10
500-238830-4	Duplicate	Water	08/29/23 00:00	08/30/23 10:10
500-238830-5	MW-18	Water	08/29/23 15:47	08/30/23 10:10
500-238830-6	MW-09	Water	08/30/23 13:44	08/31/23 10:05
500-238830-7	MW-17	Water	08/30/23 11:18	08/31/23 10:05
500-238830-8	MW-15	Water	08/30/23 09:32	08/31/23 10:05
500-238830-9	MW-11	Water	08/30/23 14:43	08/31/23 10:05
500-238830-10	MW-12	Water	08/30/23 15:47	08/31/23 10:05

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Client Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Powerton CCR ABB/ASB (RAD)

Job ID: 500-238830-2

Client Sample ID: MW-08

Lab Sample ID: 500-238830-1

Date Collected: 08/29/23 11:21

Matrix: Water

Date Received: 08/30/23 10:10

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.164		0.0986	0.0997	1.00	0.127	pCi/L	09/01/23 09:04	09/26/23 09:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.8		30 - 110					09/01/23 09:04	09/26/23 09:08	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.671		0.383	0.388	1.00	0.550	pCi/L	09/01/23 09:09	09/21/23 12:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.8		30 - 110					09/01/23 09:09	09/21/23 12:00	1
Y Carrier	84.1		30 - 110					09/01/23 09:09	09/21/23 12:00	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.835		0.395	0.401	5.00	0.550	pCi/L		09/27/23 17:03	1

Client Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Powerton CCR ABB/ASB (RAD)

Job ID: 500-238830-2

Client Sample ID: MW-01

Lab Sample ID: 500-238830-2

Date Collected: 08/29/23 12:20

Matrix: Water

Date Received: 08/30/23 10:10

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0748	U	0.0941	0.0943	1.00	0.156	pCi/L	09/01/23 09:04	09/26/23 09:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.6		30 - 110					09/01/23 09:04	09/26/23 09:09	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.637		0.373	0.377	1.00	0.532	pCi/L	09/01/23 09:09	09/21/23 12:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.6		30 - 110					09/01/23 09:09	09/21/23 12:00	1
Y Carrier	87.1		30 - 110					09/01/23 09:09	09/21/23 12:00	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.712		0.385	0.389	5.00	0.532	pCi/L		09/27/23 17:03	1

Client Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Powerton CCR ABB/ASB (RAD)

Job ID: 500-238830-2

Client Sample ID: MW-19

Lab Sample ID: 500-238830-3

Date Collected: 08/29/23 14:55

Matrix: Water

Date Received: 08/30/23 10:10

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.118	U	0.107	0.107	1.00	0.165	pCi/L	09/01/23 09:04	09/26/23 09:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.3		30 - 110					09/01/23 09:04	09/26/23 09:09	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.638		0.350	0.355	1.00	0.487	pCi/L	09/01/23 09:09	09/21/23 12:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.3		30 - 110					09/01/23 09:09	09/21/23 12:00	1
Y Carrier	87.1		30 - 110					09/01/23 09:09	09/21/23 12:00	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.756		0.366	0.371	5.00	0.487	pCi/L		09/27/23 17:03	1

Client Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Powerton CCR ABB/ASB (RAD)

Job ID: 500-238830-2

Client Sample ID: Duplicate

Lab Sample ID: 500-238830-4

Date Collected: 08/29/23 00:00

Matrix: Water

Date Received: 08/30/23 10:10

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.116	U	0.101	0.101	1.00	0.153	pCi/L	09/01/23 09:04	09/26/23 09:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.6		30 - 110					09/01/23 09:04	09/26/23 09:09	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.355	U	0.303	0.305	1.00	0.472	pCi/L	09/01/23 09:09	09/21/23 12:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.6		30 - 110					09/01/23 09:09	09/21/23 12:00	1
Y Carrier	89.3		30 - 110					09/01/23 09:09	09/21/23 12:00	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.471	U	0.319	0.321	5.00	0.472	pCi/L		09/27/23 17:03	1

Client Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Powerton CCR ABB/ASB (RAD)

Job ID: 500-238830-2

Client Sample ID: MW-18
Date Collected: 08/29/23 15:47
Date Received: 08/30/23 10:10

Lab Sample ID: 500-238830-5
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.191	U	0.157	0.157	1.00	0.237	pCi/L	09/01/23 09:04	09/26/23 09:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.1		30 - 110					09/01/23 09:04	09/26/23 09:09	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.452	U	0.351	0.353	1.00	0.796	pCi/L	09/01/23 09:09	09/21/23 12:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.1		30 - 110					09/01/23 09:09	09/21/23 12:05	1
Y Carrier	86.0		30 - 110					09/01/23 09:09	09/21/23 12:05	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.261	U	0.385	0.386	5.00	0.796	pCi/L		09/27/23 17:03	1

Client Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Powerton CCR ABB/ASB (RAD)

Job ID: 500-238830-2

Client Sample ID: MW-09
Date Collected: 08/30/23 13:44
Date Received: 08/31/23 10:05

Lab Sample ID: 500-238830-6
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.135	U	0.158	0.158	1.00	0.258	pCi/L	09/05/23 10:42	09/29/23 18:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	70.7		30 - 110					09/05/23 10:42	09/29/23 18:25	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.295	U	0.442	0.443	1.00	0.747	pCi/L	09/05/23 10:45	09/26/23 16:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	70.7		30 - 110					09/05/23 10:45	09/26/23 16:17	1
Y Carrier	83.4		30 - 110					09/05/23 10:45	09/26/23 16:17	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.429	U	0.469	0.470	5.00	0.747	pCi/L		10/03/23 11:26	1

Client Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Powerton CCR ABB/ASB (RAD)

Job ID: 500-238830-2

Client Sample ID: MW-17
Date Collected: 08/30/23 11:18
Date Received: 08/31/23 10:05

Lab Sample ID: 500-238830-7
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.112	U	0.125	0.126	1.00	0.203	pCi/L	09/05/23 10:42	09/29/23 18:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.4		30 - 110					09/05/23 10:42	09/29/23 18:25	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0396	U	0.344	0.344	1.00	0.630	pCi/L	09/05/23 10:45	09/26/23 16:16	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.4		30 - 110					09/05/23 10:45	09/26/23 16:16	1
Y Carrier	85.2		30 - 110					09/05/23 10:45	09/26/23 16:16	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.151	U	0.366	0.366	5.00	0.630	pCi/L		10/03/23 11:26	1

Client Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Powerton CCR ABB/ASB (RAD)

Job ID: 500-238830-2

Client Sample ID: MW-15

Lab Sample ID: 500-238830-8

Date Collected: 08/30/23 09:32

Matrix: Water

Date Received: 08/31/23 10:05

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.155		0.111	0.112	1.00	0.154	pCi/L	09/05/23 10:42	09/29/23 18:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.8		30 - 110					09/05/23 10:42	09/29/23 18:25	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.993		0.441	0.450	1.00	0.588	pCi/L	09/05/23 10:45	09/26/23 16:16	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.8		30 - 110					09/05/23 10:45	09/26/23 16:16	1
Y Carrier	82.6		30 - 110					09/05/23 10:45	09/26/23 16:16	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.15		0.455	0.464	5.00	0.588	pCi/L		10/03/23 11:26	1

Client Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Powerton CCR ABB/ASB (RAD)

Job ID: 500-238830-2

Client Sample ID: MW-11

Lab Sample ID: 500-238830-9

Date Collected: 08/30/23 14:43

Matrix: Water

Date Received: 08/31/23 10:05

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.410		0.196	0.199	1.00	0.234	pCi/L	09/05/23 10:42	09/29/23 18:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.1		30 - 110					09/05/23 10:42	09/29/23 18:25	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.414	U	0.453	0.454	1.00	0.737	pCi/L	09/05/23 10:45	09/26/23 16:16	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.1		30 - 110					09/05/23 10:45	09/26/23 16:16	1
Y Carrier	83.0		30 - 110					09/05/23 10:45	09/26/23 16:16	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.824		0.494	0.496	5.00	0.737	pCi/L		10/03/23 11:26	1

Client Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Powerton CCR ABB/ASB (RAD)

Job ID: 500-238830-2

Client Sample ID: MW-12

Lab Sample ID: 500-238830-10

Date Collected: 08/30/23 15:47

Matrix: Water

Date Received: 08/31/23 10:05

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.257		0.158	0.160	1.00	0.218	pCi/L	09/05/23 10:42	09/29/23 18:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.6		30 - 110					09/05/23 10:42	09/29/23 18:25	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.504	U	0.389	0.391	1.00	0.597	pCi/L	09/05/23 10:45	09/26/23 16:16	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.6		30 - 110					09/05/23 10:45	09/26/23 16:16	1
Y Carrier	83.0		30 - 110					09/05/23 10:45	09/26/23 16:16	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.760		0.420	0.422	5.00	0.597	pCi/L		10/03/23 11:26	1

Definitions/Glossary

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR ABB/ASB (RAD)

Job ID: 500-238830-2

Qualifiers

Rad

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

Glossary

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

QC Association Summary

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR ABB/ASB (RAD)

Job ID: 500-238830-2

Rad

Prep Batch: 626333

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238830-1	MW-08	Total/NA	Water	PrecSep-21	
500-238830-2	MW-01	Total/NA	Water	PrecSep-21	
500-238830-3	MW-19	Total/NA	Water	PrecSep-21	
500-238830-4	Duplicate	Total/NA	Water	PrecSep-21	
500-238830-5	MW-18	Total/NA	Water	PrecSep-21	
MB 160-626333/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-626333/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-238830-4 DU	Duplicate	Total/NA	Water	PrecSep-21	

Prep Batch: 626334

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238830-1	MW-08	Total/NA	Water	PrecSep_0	
500-238830-2	MW-01	Total/NA	Water	PrecSep_0	
500-238830-3	MW-19	Total/NA	Water	PrecSep_0	
500-238830-4	Duplicate	Total/NA	Water	PrecSep_0	
500-238830-5	MW-18	Total/NA	Water	PrecSep_0	
MB 160-626334/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-626334/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-238830-4 DU	Duplicate	Total/NA	Water	PrecSep_0	

Prep Batch: 626536

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238830-6	MW-09	Total/NA	Water	PrecSep-21	
500-238830-7	MW-17	Total/NA	Water	PrecSep-21	
500-238830-8	MW-15	Total/NA	Water	PrecSep-21	
500-238830-9	MW-11	Total/NA	Water	PrecSep-21	
500-238830-10	MW-12	Total/NA	Water	PrecSep-21	
MB 160-626536/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-626536/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-238830-6 DU	MW-09	Total/NA	Water	PrecSep-21	

Prep Batch: 626539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238830-6	MW-09	Total/NA	Water	PrecSep_0	
500-238830-7	MW-17	Total/NA	Water	PrecSep_0	
500-238830-8	MW-15	Total/NA	Water	PrecSep_0	
500-238830-9	MW-11	Total/NA	Water	PrecSep_0	
500-238830-10	MW-12	Total/NA	Water	PrecSep_0	
MB 160-626539/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-626539/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-238830-6 DU	MW-09	Total/NA	Water	PrecSep_0	

QC Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Powerton CCR ABB/ASB (RAD)

Job ID: 500-238830-2

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-626333/1-A
Matrix: Water
Analysis Batch: 629618

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 626333

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.04398	U	0.0696	0.0697	1.00	0.121	pCi/L	09/01/23 09:04	09/26/23 08:59	1
Carrier	MB MB		Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	%Yield	Qualifier	30 - 110					09/01/23 09:04	09/26/23 08:59	1
	89.1									

Lab Sample ID: LCS 160-626333/2-A
Matrix: Water
Analysis Batch: 629620

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 626333

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits		
				Uncert. (2σ+/-)							
Radium-226	11.3	10.26		1.10	1.00	0.144	pCi/L	91	75 - 125		
Carrier	LCS	LCS									
Ba Carrier	%Yield	Qualifier	Limits								
	93.8		30 - 110								

Lab Sample ID: 500-238830-4 DU
Matrix: Water
Analysis Batch: 629621

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 626333

Analyte	Sample Sample		DU	DU	Total	RL	MDC	Unit	RER	RER Limit	
	Result	Qual	Result	Qual	Uncert. (2σ+/-)						
Radium-226	0.116	U	0.09150	U	0.0944	1.00	0.149	pCi/L	0.13	1	
Carrier	DU	DU									
Ba Carrier	%Yield	Qualifier	Limits								
	89.3		30 - 110								

Lab Sample ID: MB 160-626536/1-A
Matrix: Water
Analysis Batch: 630165

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 626536

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.04150	U	0.0989	0.0990	1.00	0.180	pCi/L	09/05/23 10:42	09/29/23 09:48	1
Carrier	MB MB		Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	%Yield	Qualifier	30 - 110					09/05/23 10:42	09/29/23 09:48	1
	97.0									

Lab Sample ID: LCS 160-626536/2-A
Matrix: Water
Analysis Batch: 630162

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 626536

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	10.54		1.19	1.00	0.153	pCi/L	93	75 - 125

Euromins Chicago

QC Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR ABB/ASB (RAD)

Job ID: 500-238830-2

Method: 903.0 - Radium-226 (GFPC) (Continued)

Lab Sample ID: LCS 160-626536/2-A
Matrix: Water
Analysis Batch: 630162

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 626536

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	88.1		30 - 110

Lab Sample ID: 500-238830-6 DU
Matrix: Water
Analysis Batch: 630165

Client Sample ID: MW-09
Prep Type: Total/NA
Prep Batch: 626536

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER
										Limit
Radium-226	0.135	U	0.1556		0.111	1.00	0.154	pCi/L	0.08	1

	DU	DU	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	91.8		30 - 110

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-626334/1-A
Matrix: Water
Analysis Batch: 629177

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 626334

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac

	MB	MB	Limits	Prepared	Analyzed	Dil Fac
Carrier	%Yield	Qualifier				
Ba Carrier	89.1		30 - 110	09/01/23 09:09	09/21/23 11:55	1
Y Carrier	90.1		30 - 110	09/01/23 09:09	09/21/23 11:55	1

Lab Sample ID: LCS 160-626334/2-A
Matrix: Water
Analysis Batch: 629177

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 626334

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec
									Limits
Radium-228	7.86	9.255		1.26	1.00	0.503	pCi/L	118	75 - 125

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	93.8		30 - 110
Y Carrier	88.6		30 - 110

Lab Sample ID: 500-238830-4 DU
Matrix: Water
Analysis Batch: 629177

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 626334

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER
										Limit
Radium-228	0.355	U	0.1230	U	0.295	1.00	0.520	pCi/L	0.39	1

Euromins Chicago

QC Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Powerton CCR ABB/ASB (RAD)

Job ID: 500-238830-2

Method: 904.0 - Radium-228 (GFPC) (Continued)

Lab Sample ID: 500-238830-4 DU
Matrix: Water
Analysis Batch: 629177

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 626334

	DU	DU	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	89.3		30 - 110
Y Carrier	90.5		30 - 110

Lab Sample ID: MB 160-626539/1-A
Matrix: Water
Analysis Batch: 629618

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 626539

Analyte	MB MB		Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier								
Radium-228	0.4103	U	0.350	0.352	1.00	0.545	pCi/L	09/05/23 10:45	09/26/23 16:10	1

	MB	MB		Prepared	Analyzed	Dil Fac
Carrier	%Yield	Qualifier	Limits			
Ba Carrier	97.0		30 - 110	09/05/23 10:45	09/26/23 16:10	1
Y Carrier	70.7		30 - 110	09/05/23 10:45	09/26/23 16:10	1

Lab Sample ID: LCS 160-626539/2-A
Matrix: Water
Analysis Batch: 629618

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 626539

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	88.1		30 - 110
Y Carrier	83.4		30 - 110

Lab Sample ID: 500-238830-6 DU
Matrix: Water
Analysis Batch: 629621

Client Sample ID: MW-09
Prep Type: Total/NA
Prep Batch: 626539

Analyte	Sample Sample		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
	Result	Qual								
Radium-228	0.295	U	0.3699	U	0.323	1.00	0.503	pCi/L	0.1	1


	DU	DU	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	91.8		30 - 110
Y Carrier	86.4		30 - 110

Chain of Custody

TAL-8210

Address: _____

Regulatory Program: DW NPDES RCRA Other

Client Contact	Project Manager: <u>Diana Mockler</u>	Site Contact:	Date:
Company Name: <u>KARG and Associates</u>	Tel/Email: <u>Diana.Mockler@et.eurofinsus</u>	Lab Contact:	Carrier:
Address: <u>14165 W. Lisbon Rd</u>	Analysis Turnaround Time <input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below <u>Standard</u> <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		
City/State/Zip: <u>Brookfield, WI, 53005</u>			
Phone: <u>262-781-0475</u>	 500-238830 COC		
Project Name: <u>PowerGen CCR ABB/ASB</u>			
Site:	Job / SDG No: <u>500-238830</u>		
PO #:	Sample Specific Notes		

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Total Metals	Sulfate	Chloride, fluoride	Sample Specific Notes	
1 MW-08	8/29/23	1121	G	W	7	N	N	X	X	X	X	
2 MW-01	8/29/23	1220				N	N					
3 MW-19	8/29/23	1455				N	N					
4 Duplicate	8/29/23	-				N	N					
5 MW-18	8/29	1547				N	N					

Preservation Used: 1= Ice, 2= HCl, 3= HNO₃, 4= H₂O₂, 5= NaOH, 6= Other None

Possible Hazard Identification:
 Are any samples from a listed EPA Hazardous Waste? Yes No
 Comments Section if the lab is to dispose of the sample. Please list any EPA Waste Codes for the sample in the box below.

Special Instructions/QC Requirements & Comments: _____

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month):
 Return to Client Disposal by Lab Archive for _____ Months

Custody Seals Intact: Yes No

Relinquished by: Karlyn Orule

Seal No	Date/Time	Received by	Company	Date/Time
C	8/29/23/1720			
Com:				

Relinquished by: _____

Received in Laboratory by: Alan Roth Company: ERDA Date/Time: 8/30/23 101

Chain of Custody Record

667593



Environment Testing
America

Address: _____

Regulatory Program: DW NPDES RCRA Other

TAL-8210

Client Contact		Project Manager: <u>Diana Mackler</u>			Site Contact:			Date:				
Company Name <u>KPRG and Associates</u>		Tel/Email: <u>Diana Mackler @ eurofins.com</u>			Lab Contact:			Carrier:				
Address <u>14165 W Lisbon Rd</u>		Analysis Turnaround Time			Filtered Sample (Y/N) _____ Perform MS / MSD (Y/N) _____ <u>401.0, 9030 Radionuclides</u> <u>Total Metals</u> <u>TDS</u> <u>Sulfate</u> <u>chloride, fluoride</u>			COC No _____ of _____ COCs Sampler _____ For Lab Use Only: Walk-in Client: _____ Lab Sampling: _____ Job / SDG No _____ <u>500-238830</u>				
City/State/Zip <u>Brookfield, WI 53005</u>		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below <u>Standard</u>						500-238830 COC 				
Phone <u>262-781-0475</u>		<input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day										
Fax _____												
Project Name <u>Powerton CCR-ABB/ASB</u>												
Site _____												
P O # <u>Powerton CCR-ABB/ASB</u>												
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Total Metals	TDS	Sulfate	chloride, fluoride	Sample Specific Notes
<u>MW-09</u>	<u>8/30/23</u>	<u>1344</u>	<u>G</u>	<u>W</u>	<u>7</u>	<u>N</u>	<u>N</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	
<u>MW-17</u>	<u>8/30/23</u>	<u>1118</u>	<u>G</u>	<u>W</u>	<u>7</u>	<u>N</u>	<u>N</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	
<u>MW-15</u>	<u>8/30/23</u>	<u>0932</u>	<u>G</u>	<u>W</u>	<u>7</u>	<u>N</u>	<u>N</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	
<u>MW-11</u>	<u>8/30/23</u>	<u>1443</u>	<u>G</u>	<u>W</u>	<u>7</u>	<u>N</u>	<u>N</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	
<u>MW-12</u>	<u>8/30/23</u>	<u>1547</u>	<u>G</u>	<u>W</u>	<u>7</u>	<u>N</u>	<u>N</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	
Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4= HNO3, 5= NaOH, 6= Other <u>None</u>												
Possible Hazard Identification:						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)						
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample						<input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months						
<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown												
Special Instructions/QC Requirements & Comments:												
<u>1.5 -> 1.2 1.9 -> 1.6</u>												
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No			Custody Seal No _____			Cooler Temp (°C) Obs'd _____ Cor'd _____			Therm ID No _____			
Relinquished by: <u>Kaelyn Ortle</u>			Company: <u>KPRG</u>			Date/Time: <u>8/30/23/1000</u>			Received by: _____			
Relinquished by: _____			Company: _____			Date/Time: _____			Received by: _____			
Relinquished by: _____			Company: _____			Date/Time: _____			Received by: <u>Laboratory by [Signature]</u>			
									Company: <u>EPTA</u>			
									Date/Time: <u>8/30/23 1005</u>			

ORIGIN ID:PIAA (262) 278-1621
KAELYN SPERLE
KPRG AND ASSOCIATES
414 PLAZA DR STE 106

SHIP DATE: 29AUG23
ACTWGT: 61.75 LB
CAD: 6994780/6SFE2422
DIMS: 24x13x14 IN

WESTMONT, IL 60559
UNITED STATES US

BILL THIRD PARTY

TO EUROFINS CHICAGO

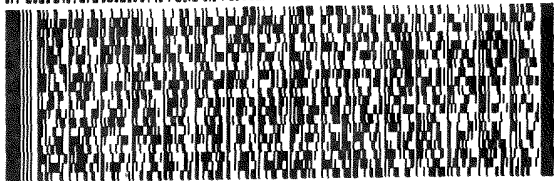
2417 BOND ST.

UNIVERSITY PARK IL 60484

(555) 555-5555

REF:

DEPT:



FedEx Express



AN 1015203215327

1 of 4

TRK# 7830 9817 4786
0201

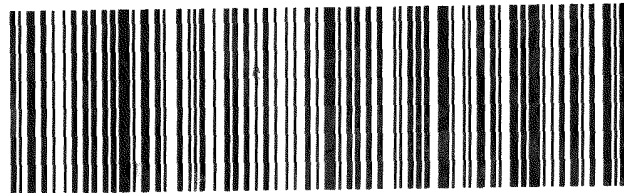
MASTER

XN JOTA

WED - 30 AUG 10:30A
PRIORITY OVERNIGHT

AHS
60484

IL-US ORD



ORIGIN ID:PIAA (262) 278-1621
KAELYN SPERLE
KPRG AND ASSOCIATES
414 PLAZA DR STE 106

SHIP DATE: 29AUG23
ACTWGT: 61.75 LB
CAD: 6994780/6SFE2422

WESTMONT, IL 60559
UNITED STATES US

TO EUROFINS CHICAGO

RT 519
ST 18

5
10:30
A
4812
08 30

2417 BOND ST.

UNIVERSITY PARK IL 60484

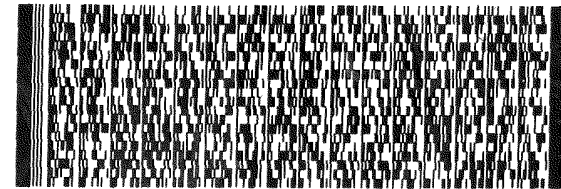
(555) 555-5555

REF:

DEPT:

INU:

PO:



FedEx Express



AN 1015203215327

4 of 4

MPS# 7830 9817 4812
0263

Mstr# 7830 9817 4786

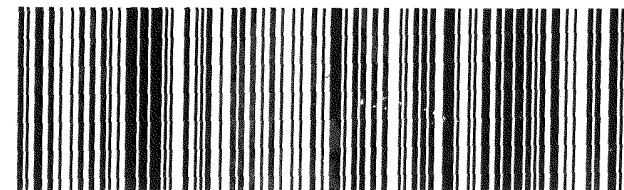
0201

XN JOTA

WED - 30 AUG 10:30A
PRIORITY OVERNIGHT

AHS
60484

IL-US ORD



Part # 156297-436-AM3028T-GRP 04/24

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13
14



Client Information (Sub Contract Lab)
 Client Contact: Mockler, Diana J
 Shipping/Receiving: Diana.Mockler@et.eurofins.com
 Company: TestAmerica Laboratories, Inc.
 Address: 13715 Rider Trail North, Earth City, MO, 63045
 Phone: 314-298-8566(Tel) 314-298-8757(Fax)
 Project Name: Powerton CCR
 Site: MWG - Powerton

Sampler: Mockler, Diana J
Lab PM: Diana.Mockler@et.eurofins.com
Phone: NELAP - Illinois
Carrier Tracking No(s): 500-178472.1
State of Origin: Illinois
Page: Page 1 of 1
Job #: 500-238830-2
Preservation Codes:
 A - HCL
 B - NaOH
 C - Zn Acetate
 D - Nitric Acid
 E - NaHSO4
 F - MeOH
 G - Amchlor
 H - Ascorbic Acid
 I - Ice
 J - DI Water
 K - EDTA
 L - EDA
 Other:
 M - Hexane
 N - None
 O - AsNaO2
 P - Na2O4S
 Q - Na2SO3
 R - Na2S2O3
 S - H2SO4
 T - TSP Dodecahydrate
 U - Acetone
 V - MCAA
 W - pH 4-5
 Y - Trizma
 Z - other (specify)

Analysis Requested

Sample ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=tissue, A=air)	Preservation Code	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PreSep, 21 Standard Target List	904.0/PreSep, 0 Standard Target List	R226Ra228_GFPc	Total Number of Containers	Special Instructions/Note:
MW-08 (500-238830-1)	8/29/23	11:21 Central		Water		X	X	X	X		3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no
MW-01 (500-238830-2)	8/29/23	12:20 Central		Water		X	X	X	X		3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no
MW-19 (500-238830-3)	8/29/23	14:55 Central		Water		X	X	X	X		3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no
Duplicate (500-238830-4)	8/29/23	15:47 Central		Water		X	X	X	X		3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no
MW-18 (500-238830-5)	8/29/23	15:47 Central		Water		X	X	X	X		3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no

Sample Identification - Client ID (Lab ID)

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all required accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify)
 Primary Deliverable Rank: 2

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Special Instructions/QC Requirements:

Empty Kit Relinquished by: [Signature]
 Relinquished by: [Signature] Date: 8/30/23 15:10
 Relinquished by: [Signature] Date: 8/30/23 15:10
 Relinquished by: [Signature] Date: 8/30/23 15:10

Custody Seals Intact: Custody Seal No.:
 Yes No

Method of Shipment: [Signature] Date: 8/30/23 15:10
 Received by: [Signature] Date: 8/30/23 15:10
 Received by: [Signature] Date: 8/30/23 15:10
 Received by: [Signature] Date: 8/30/23 15:10

Cooler Temperature(s) °C and Other Remarks:



Chain of Custody Record



Client Information (Sub Contract Lab)		Lab PM: Mockler, Diana J	Sampler:	Lab Tracking No(s): 500-178537.1
Client Contact: Shipping/Receiving		E-Mail: Diana.Mockler@et.eurofins.com	State of Origin: Illinois	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		
Address: 13715 Rider Trail North,		Job #: 500-238830-2		
City: Earth City		Analysis Requested		
State, Zip: MO, 63045		Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4.5 Y - Trizma Z - other (specify)		
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		Other: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA		
Email:		Total Number of Containers		
Project Name: Powerton CCR ABB/ASB (RAD)		Special Instructions/Note:		
Site: MWG - Powerton		Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no		
Dues Date Requested: 9/21/2023		Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no		
TAT Requested (days):		Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no		
PO #:		Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no		
WO #:		Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no		
Project #: 50011612		Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no		
SSOW#:		Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no		
Sample Identification - Client ID (Lab ID)		Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no		
Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Preservation Code:	Field Filtered Sample (Yes or No)
8/30/23	13:44 Central	Water	Water	X
8/30/23	11:18 Central	Water	Water	X
8/30/23	09:32 Central	Water	Water	X
8/30/23	14:43 Central	Water	Water	X
8/30/23	15:47 Central	Water	Water	X
Perform MS/MSD (Yes or No)		903.0/PreSep_21 Standard Target List		X
Perform MS/MSD (Yes or No)		904.0/PreSep_0 Standard Target List		X
Raz26Ra228_GFPc		Raz26Ra228_GFPc		

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification
 Unconfirmed

Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Special Instructions/QC Requirements:

Received by: *[Signature]* Date: 8/31/23 Company: FED EX
 Received by: *[Signature]* Date: 9/1/23 Company: ETASTL
 Received by: *[Signature]* Date: _____ Company: _____

Cooler Temperature(s) °C and Other Remarks:



Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-238830-2

Login Number: 238830

List Number: 1

Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.8,0.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-238830-2

Login Number: 238830

List Number: 2

Creator: Pinette, Meadow L

List Source: Eurofins St. Louis

List Creation: 08/31/23 12:07 PM

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

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-238830-2

Login Number: 238830

List Number: 5

Creator: Sharkey-Gonzalez, Briana L

List Source: Eurofins St. Louis

List Creation: 09/01/23 02:02 PM

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

Lab Chronicle

Client: KPRG and Associates, Inc.
 Project/Site: Powerton CCR ABB/ASB (RAD)

Job ID: 500-238830-2

Client Sample ID: MW-08
Date Collected: 08/29/23 11:21
Date Received: 08/30/23 10:10

Lab Sample ID: 500-238830-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			626333	KAC	EET SL	09/01/23 09:04
Total/NA	Analysis	903.0		1	629621	FLC	EET SL	09/26/23 09:08
Total/NA	Prep	PrecSep_0			626334	KAC	EET SL	09/01/23 09:09
Total/NA	Analysis	904.0		1	629177	FLC	EET SL	09/21/23 12:00
Total/NA	Analysis	Ra226_Ra228		1	629878	SCB	EET SL	09/27/23 17:03

Client Sample ID: MW-01
Date Collected: 08/29/23 12:20
Date Received: 08/30/23 10:10

Lab Sample ID: 500-238830-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			626333	KAC	EET SL	09/01/23 09:04
Total/NA	Analysis	903.0		1	629621	FLC	EET SL	09/26/23 09:09
Total/NA	Prep	PrecSep_0			626334	KAC	EET SL	09/01/23 09:09
Total/NA	Analysis	904.0		1	629177	FLC	EET SL	09/21/23 12:00
Total/NA	Analysis	Ra226_Ra228		1	629878	SCB	EET SL	09/27/23 17:03

Client Sample ID: MW-19
Date Collected: 08/29/23 14:55
Date Received: 08/30/23 10:10

Lab Sample ID: 500-238830-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			626333	KAC	EET SL	09/01/23 09:04
Total/NA	Analysis	903.0		1	629621	FLC	EET SL	09/26/23 09:09
Total/NA	Prep	PrecSep_0			626334	KAC	EET SL	09/01/23 09:09
Total/NA	Analysis	904.0		1	629177	FLC	EET SL	09/21/23 12:00
Total/NA	Analysis	Ra226_Ra228		1	629878	SCB	EET SL	09/27/23 17:03

Client Sample ID: Duplicate
Date Collected: 08/29/23 00:00
Date Received: 08/30/23 10:10

Lab Sample ID: 500-238830-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			626333	KAC	EET SL	09/01/23 09:04
Total/NA	Analysis	903.0		1	629621	FLC	EET SL	09/26/23 09:09
Total/NA	Prep	PrecSep_0			626334	KAC	EET SL	09/01/23 09:09
Total/NA	Analysis	904.0		1	629177	FLC	EET SL	09/21/23 12:00
Total/NA	Analysis	Ra226_Ra228		1	629878	SCB	EET SL	09/27/23 17:03

Lab Chronicle

Client: KPRG and Associates, Inc.
 Project/Site: Powerton CCR ABB/ASB (RAD)

Job ID: 500-238830-2

Client Sample ID: MW-18
Date Collected: 08/29/23 15:47
Date Received: 08/30/23 10:10

Lab Sample ID: 500-238830-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			626333	KAC	EET SL	09/01/23 09:04
Total/NA	Analysis	903.0		1	629621	FLC	EET SL	09/26/23 09:09
Total/NA	Prep	PrecSep_0			626334	KAC	EET SL	09/01/23 09:09
Total/NA	Analysis	904.0		1	629183	FLC	EET SL	09/21/23 12:05
Total/NA	Analysis	Ra226_Ra228		1	629878	SCB	EET SL	09/27/23 17:03

Client Sample ID: MW-09
Date Collected: 08/30/23 13:44
Date Received: 08/31/23 10:05

Lab Sample ID: 500-238830-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			626536	KAC	EET SL	09/05/23 10:42
Total/NA	Analysis	903.0		1	630165	FLC	EET SL	09/29/23 18:25
Total/NA	Prep	PrecSep_0			626539	KAC	EET SL	09/05/23 10:45
Total/NA	Analysis	904.0		1	629621	FLC	EET SL	09/26/23 16:17
Total/NA	Analysis	Ra226_Ra228		1	630529	SCB	EET SL	10/03/23 11:26

Client Sample ID: MW-17
Date Collected: 08/30/23 11:18
Date Received: 08/31/23 10:05

Lab Sample ID: 500-238830-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			626536	KAC	EET SL	09/05/23 10:42
Total/NA	Analysis	903.0		1	630165	FLC	EET SL	09/29/23 18:25
Total/NA	Prep	PrecSep_0			626539	KAC	EET SL	09/05/23 10:45
Total/NA	Analysis	904.0		1	629621	FLC	EET SL	09/26/23 16:16
Total/NA	Analysis	Ra226_Ra228		1	630529	SCB	EET SL	10/03/23 11:26

Client Sample ID: MW-15
Date Collected: 08/30/23 09:32
Date Received: 08/31/23 10:05

Lab Sample ID: 500-238830-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			626536	KAC	EET SL	09/05/23 10:42
Total/NA	Analysis	903.0		1	630165	FLC	EET SL	09/29/23 18:25
Total/NA	Prep	PrecSep_0			626539	KAC	EET SL	09/05/23 10:45
Total/NA	Analysis	904.0		1	629621	FLC	EET SL	09/26/23 16:16
Total/NA	Analysis	Ra226_Ra228		1	630529	SCB	EET SL	10/03/23 11:26

Lab Chronicle

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR ABB/ASB (RAD)

Job ID: 500-238830-2

Client Sample ID: MW-11

Date Collected: 08/30/23 14:43

Date Received: 08/31/23 10:05

Lab Sample ID: 500-238830-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			626536	KAC	EET SL	09/05/23 10:42
Total/NA	Analysis	903.0		1	630165	FLC	EET SL	09/29/23 18:25
Total/NA	Prep	PrecSep_0			626539	KAC	EET SL	09/05/23 10:45
Total/NA	Analysis	904.0		1	629621	FLC	EET SL	09/26/23 16:16
Total/NA	Analysis	Ra226_Ra228		1	630529	SCB	EET SL	10/03/23 11:26

Client Sample ID: MW-12

Date Collected: 08/30/23 15:47

Date Received: 08/31/23 10:05

Lab Sample ID: 500-238830-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			626536	KAC	EET SL	09/05/23 10:42
Total/NA	Analysis	903.0		1	630165	FLC	EET SL	09/29/23 18:25
Total/NA	Prep	PrecSep_0			626539	KAC	EET SL	09/05/23 10:45
Total/NA	Analysis	904.0		1	629621	FLC	EET SL	09/26/23 16:16
Total/NA	Analysis	Ra226_Ra228		1	630529	SCB	EET SL	10/03/23 11:26

Laboratory References:

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

Accreditation/Certification Summary

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR ABB/ASB (RAD)

Job ID: 500-238830-2

Laboratory: Eurofins St. Louis

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	200023	11-30-23

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Tracer/Carrier Summary

Client: KPRG and Associates, Inc.
 Project/Site: Powerton CCR ABB/ASB (RAD)

Job ID: 500-238830-2

Method: 903.0 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (30-110)	
500-238830-1	MW-08	91.8	
500-238830-2	MW-01	86.6	
500-238830-3	MW-19	90.3	
500-238830-4	Duplicate	90.6	
500-238830-4 DU	Duplicate	89.3	
500-238830-5	MW-18	86.1	
500-238830-6	MW-09	70.7	
500-238830-6 DU	MW-09	91.8	
500-238830-7	MW-17	81.4	
500-238830-8	MW-15	88.8	
500-238830-9	MW-11	87.1	
500-238830-10	MW-12	85.6	
LCS 160-626333/2-A	Lab Control Sample	93.8	
LCS 160-626536/2-A	Lab Control Sample	88.1	
MB 160-626333/1-A	Method Blank	89.1	
MB 160-626536/1-A	Method Blank	97.0	

Tracer/Carrier Legend

Ba = Ba Carrier

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (30-110)	Y (30-110)
500-238830-1	MW-08	91.8	84.1
500-238830-2	MW-01	86.6	87.1
500-238830-3	MW-19	90.3	87.1
500-238830-4	Duplicate	90.6	89.3
500-238830-4 DU	Duplicate	89.3	90.5
500-238830-5	MW-18	86.1	86.0
500-238830-6	MW-09	70.7	83.4
500-238830-6 DU	MW-09	91.8	86.4
500-238830-7	MW-17	81.4	85.2
500-238830-8	MW-15	88.8	82.6
500-238830-9	MW-11	87.1	83.0
500-238830-10	MW-12	85.6	83.0
LCS 160-626334/2-A	Lab Control Sample	93.8	88.6
LCS 160-626539/2-A	Lab Control Sample	88.1	83.4
MB 160-626334/1-A	Method Blank	89.1	90.1
MB 160-626539/1-A	Method Blank	97.0	70.7

Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier

 **ANALYTICAL REPORT****PREPARED FOR**

Attn: Richard Gnat
KPRG and Associates, Inc.
14665 West Lisbon Road,
Suite 1A
Brookfield, Wisconsin 53005

Generated 12/8/2023 1:46:15 PM

JOB DESCRIPTION

Powerton CCR ABB/ASB

JOB NUMBER

500-242244-1

Eurofins Chicago

Job Notes

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

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

Authorization



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Case Narrative

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR ABB/ASB

Job ID: 500-242244-1

Job ID: 500-242244-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-242244-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

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

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

Receipt

The samples were received on 11/8/2023 9:55 AM and 11/9/2023 9:45 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 1.0°C, 1.2°C and 1.5°C

Receipt Exceptions

The collection time for sample #4 on the chain of custody (COC) is 1005. The container labe has 1022. Logged in per COC.

Metals

Method 6020B: The initial low level calibration verification (ICVL) result for batch 744671 was above the upper control limit for Be and Pb. Sample results were non-detects, and have been reported as qualified data.

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

General Chemistry

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

Method Summary

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR ABB/ASB

Job ID: 500-242244-1

Method	Method Description	Protocol	Laboratory
6020B	Metals (ICP/MS)	SW846	EET CHI
7470A	Mercury (CVAA)	SW846	EET CHI
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET CHI
SM 4500 Cl- E	Chloride, Total	SM	EET CHI
SM 4500 F C	Fluoride	SM	EET CHI
SM 4500 SO4 E	Sulfate, Total	SM	EET CHI
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CHI
7470A	Preparation, Mercury	SW846	EET CHI

Protocol References:

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

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

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR ABB/ASB

Job ID: 500-242244-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-242244-1	MW-01	Water	11/07/23 15:54	11/08/23 09:55
500-242244-2	MW-08	Water	11/07/23 13:58	11/08/23 09:55
500-242244-3	MW-17	Water	11/06/23 15:33	11/08/23 09:55
500-242244-4	MW-09	Water	11/08/23 10:05	11/09/23 09:45
500-242244-5	MW-11	Water	11/08/23 12:22	11/09/23 09:45
500-242244-6	MW-12	Water	11/08/23 13:29	11/09/23 09:45
500-242244-7	MW-15	Water	11/06/23 14:21	11/09/23 09:45
500-242244-8	MW-18	Water	11/08/23 14:25	11/09/23 09:45
500-242244-9	MW-19	Water	11/08/23 11:20	11/09/23 09:45
500-242244-10	Duplicate	Water	11/08/23 00:00	11/09/23 09:45

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Client Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Powerton CCR ABB/ASB

Job ID: 500-242244-1

Client Sample ID: MW-01
Date Collected: 11/07/23 15:54
Date Received: 11/08/23 09:55

Lab Sample ID: 500-242244-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		11/17/23 09:16	11/30/23 23:03	1
Arsenic	<0.0010		0.0010		mg/L		11/17/23 09:16	11/30/23 23:03	1
Barium	0.10		0.0025		mg/L		11/17/23 09:16	11/30/23 23:03	1
Beryllium	<0.0010	^1+	0.0010		mg/L		11/17/23 09:16	11/30/23 23:03	1
Boron	0.48		0.050		mg/L		11/17/23 09:16	12/06/23 17:27	1
Cadmium	<0.00050		0.00050		mg/L		11/17/23 09:16	11/30/23 23:03	1
Calcium	110		0.20		mg/L		11/17/23 09:16	12/01/23 14:32	1
Chromium	<0.0050		0.0050		mg/L		11/17/23 09:16	12/04/23 16:11	1
Cobalt	<0.0010		0.0010		mg/L		11/17/23 09:16	12/01/23 14:32	1
Lead	<0.00050	^1+	0.00050		mg/L		11/17/23 09:16	11/30/23 23:03	1
Lithium	<0.010		0.010		mg/L		11/17/23 09:16	12/01/23 14:32	1
Molybdenum	<0.0050		0.0050		mg/L		11/17/23 09:16	11/30/23 23:03	1
Selenium	<0.0025		0.0025		mg/L		11/17/23 09:16	12/01/23 14:32	1
Thallium	<0.0020		0.0020		mg/L		11/17/23 09:16	11/30/23 23:03	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		11/28/23 09:25	11/29/23 08:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	550		10		mg/L			11/09/23 01:59	1
Chloride (SM 4500 Cl- E)	45		4.0		mg/L			11/15/23 15:41	2
Fluoride (SM 4500 F C)	<0.10		0.10		mg/L			11/20/23 16:03	1
Sulfate (SM 4500 SO4 E)	63		10		mg/L			11/28/23 16:39	2

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR ABB/ASB

Job ID: 500-242244-1

Client Sample ID: MW-08

Lab Sample ID: 500-242244-2

Date Collected: 11/07/23 13:58

Matrix: Water

Date Received: 11/08/23 09:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		11/17/23 09:16	11/30/23 23:14	1
Arsenic	0.0025		0.0010		mg/L		11/17/23 09:16	11/30/23 23:14	1
Barium	0.14		0.0025		mg/L		11/17/23 09:16	11/30/23 23:14	1
Beryllium	<0.0010	^1+	0.0010		mg/L		11/17/23 09:16	11/30/23 23:14	1
Boron	0.72		0.050		mg/L		11/17/23 09:16	12/06/23 17:31	1
Cadmium	<0.00050		0.00050		mg/L		11/17/23 09:16	11/30/23 23:14	1
Calcium	120		0.20		mg/L		11/17/23 09:16	12/01/23 14:35	1
Chromium	<0.0050		0.0050		mg/L		11/17/23 09:16	12/04/23 16:15	1
Cobalt	<0.0010		0.0010		mg/L		11/17/23 09:16	12/01/23 14:35	1
Lead	<0.00050	^1+	0.00050		mg/L		11/17/23 09:16	11/30/23 23:14	1
Lithium	0.021		0.010		mg/L		11/17/23 09:16	12/01/23 14:35	1
Molybdenum	0.0071		0.0050		mg/L		11/17/23 09:16	11/30/23 23:14	1
Selenium	<0.0025		0.0025		mg/L		11/17/23 09:16	12/01/23 14:35	1
Thallium	<0.0020		0.0020		mg/L		11/17/23 09:16	11/30/23 23:14	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		11/28/23 09:25	11/29/23 08:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	790		10		mg/L			11/09/23 02:01	1
Chloride (SM 4500 Cl- E)	130		20		mg/L			11/15/23 15:40	10
Fluoride (SM 4500 F C)	0.32		0.10		mg/L			11/20/23 16:08	1
Sulfate (SM 4500 SO4 E)	86		10		mg/L			11/28/23 11:29	2

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR ABB/ASB

Job ID: 500-242244-1

Client Sample ID: MW-17

Lab Sample ID: 500-242244-3

Date Collected: 11/06/23 15:33

Matrix: Water

Date Received: 11/08/23 09:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		11/17/23 09:16	11/30/23 23:18	1
Arsenic	0.0024		0.0010		mg/L		11/17/23 09:16	11/30/23 23:18	1
Barium	0.030		0.0025		mg/L		11/17/23 09:16	11/30/23 23:18	1
Beryllium	<0.0010	^1+	0.0010		mg/L		11/17/23 09:16	11/30/23 23:18	1
Boron	1.0		0.050		mg/L		11/17/23 09:16	12/06/23 17:34	1
Cadmium	<0.00050		0.00050		mg/L		11/17/23 09:16	11/30/23 23:18	1
Calcium	130		0.20		mg/L		11/17/23 09:16	12/01/23 14:39	1
Chromium	<0.0050		0.0050		mg/L		11/17/23 09:16	12/04/23 16:18	1
Cobalt	<0.0010		0.0010		mg/L		11/17/23 09:16	12/01/23 14:39	1
Lead	<0.00050	^1+	0.00050		mg/L		11/17/23 09:16	11/30/23 23:18	1
Lithium	0.014		0.010		mg/L		11/17/23 09:16	12/01/23 14:39	1
Molybdenum	0.036		0.0050		mg/L		11/17/23 09:16	11/30/23 23:18	1
Selenium	<0.0025		0.0025		mg/L		11/17/23 09:16	12/01/23 14:39	1
Thallium	<0.0020		0.0020		mg/L		11/17/23 09:16	11/30/23 23:18	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		11/28/23 09:25	11/29/23 08:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1400		10		mg/L			11/09/23 02:04	1
Chloride (SM 4500 Cl- E)	190		20		mg/L			11/15/23 15:41	10
Fluoride (SM 4500 F C)	0.61		0.10		mg/L			11/20/23 16:13	1
Sulfate (SM 4500 SO4 E)	480		50		mg/L			11/28/23 11:30	10

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR ABB/ASB

Job ID: 500-242244-1

Client Sample ID: MW-09

Lab Sample ID: 500-242244-4

Date Collected: 11/08/23 10:05

Matrix: Water

Date Received: 11/09/23 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		11/17/23 09:16	11/30/23 23:21	1
Arsenic	<0.0010		0.0010		mg/L		11/17/23 09:16	11/30/23 23:21	1
Barium	0.049		0.0025		mg/L		11/17/23 09:16	11/30/23 23:21	1
Beryllium	<0.0010	^1+	0.0010		mg/L		11/17/23 09:16	11/30/23 23:21	1
Boron	3.2		0.50		mg/L		11/17/23 09:16	12/06/23 17:38	10
Cadmium	<0.00050		0.00050		mg/L		11/17/23 09:16	11/30/23 23:21	1
Calcium	87		0.20		mg/L		11/17/23 09:16	12/01/23 14:42	1
Chromium	<0.0050		0.0050		mg/L		11/17/23 09:16	12/04/23 16:22	1
Cobalt	<0.0010		0.0010		mg/L		11/17/23 09:16	12/01/23 14:42	1
Lead	<0.00050	^1+	0.00050		mg/L		11/17/23 09:16	11/30/23 23:21	1
Lithium	<0.010		0.010		mg/L		11/17/23 09:16	12/01/23 14:42	1
Molybdenum	0.024		0.0050		mg/L		11/17/23 09:16	11/30/23 23:21	1
Selenium	0.0062		0.0025		mg/L		11/17/23 09:16	12/01/23 14:42	1
Thallium	<0.0020		0.0020		mg/L		11/17/23 09:16	11/30/23 23:21	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		11/28/23 09:25	11/29/23 08:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	570		10		mg/L			11/12/23 23:15	1
Chloride (SM 4500 Cl- E)	25		2.0		mg/L			11/15/23 15:19	1
Fluoride (SM 4500 F C)	0.14		0.10		mg/L			11/20/23 16:18	1
Sulfate (SM 4500 SO4 E)	130		50		mg/L			11/28/23 11:31	10

Client Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Powerton CCR ABB/ASB

Job ID: 500-242244-1

Client Sample ID: MW-11
Date Collected: 11/08/23 12:22
Date Received: 11/09/23 09:45

Lab Sample ID: 500-242244-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		11/17/23 09:16	11/30/23 23:25	1
Arsenic	0.015		0.0010		mg/L		11/17/23 09:16	11/30/23 23:25	1
Barium	0.26		0.0025		mg/L		11/17/23 09:16	11/30/23 23:25	1
Beryllium	<0.0010	^1+	0.0010		mg/L		11/17/23 09:16	11/30/23 23:25	1
Boron	2.2		0.50		mg/L		11/17/23 09:16	12/06/23 17:41	10
Cadmium	<0.00050		0.00050		mg/L		11/17/23 09:16	11/30/23 23:25	1
Calcium	110		0.20		mg/L		11/17/23 09:16	12/01/23 14:46	1
Chromium	<0.0050		0.0050		mg/L		11/17/23 09:16	12/04/23 16:26	1
Cobalt	0.0018		0.0010		mg/L		11/17/23 09:16	12/01/23 14:46	1
Lead	<0.00050	^1+	0.00050		mg/L		11/17/23 09:16	11/30/23 23:25	1
Lithium	<0.010		0.010		mg/L		11/17/23 09:16	12/01/23 14:46	1
Molybdenum	0.013		0.0050		mg/L		11/17/23 09:16	11/30/23 23:25	1
Selenium	<0.0025		0.0025		mg/L		11/17/23 09:16	12/01/23 14:46	1
Thallium	<0.0020		0.0020		mg/L		11/17/23 09:16	11/30/23 23:25	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		11/28/23 09:25	11/29/23 08:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	710		10		mg/L			11/12/23 23:18	1
Chloride (SM 4500 Cl- E)	63		4.0		mg/L			11/15/23 15:40	2
Fluoride (SM 4500 F C)	0.50		0.10		mg/L			11/20/23 16:44	1
Sulfate (SM 4500 SO4 E)	160		50		mg/L			11/28/23 11:30	10

Client Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Powerton CCR ABB/ASB

Job ID: 500-242244-1

Client Sample ID: MW-12
 Date Collected: 11/08/23 13:29
 Date Received: 11/09/23 09:45

Lab Sample ID: 500-242244-6
 Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		11/17/23 09:16	11/30/23 23:29	1
Arsenic	0.026		0.0010		mg/L		11/17/23 09:16	11/30/23 23:29	1
Barium	0.074		0.0025		mg/L		11/17/23 09:16	11/30/23 23:29	1
Beryllium	<0.0010	^1+	0.0010		mg/L		11/17/23 09:16	11/30/23 23:29	1
Boron	0.52		0.050		mg/L		11/17/23 09:16	12/07/23 11:12	1
Cadmium	<0.00050		0.00050		mg/L		11/17/23 09:16	11/30/23 23:29	1
Calcium	90		0.20		mg/L		11/17/23 09:16	12/01/23 14:49	1
Chromium	<0.0050		0.0050		mg/L		11/17/23 09:16	12/04/23 16:42	1
Cobalt	<0.0010		0.0010		mg/L		11/17/23 09:16	12/01/23 14:49	1
Lead	<0.00050	^1+	0.00050		mg/L		11/17/23 09:16	11/30/23 23:29	1
Lithium	0.011		0.010		mg/L		11/17/23 09:16	12/01/23 14:49	1
Molybdenum	0.020		0.0050		mg/L		11/17/23 09:16	11/30/23 23:29	1
Selenium	<0.0025		0.0025		mg/L		11/17/23 09:16	12/01/23 14:49	1
Thallium	<0.0020		0.0020		mg/L		11/17/23 09:16	11/30/23 23:29	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		11/28/23 09:25	11/29/23 08:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	770		10		mg/L			11/12/23 23:20	1
Chloride (SM 4500 Cl- E)	140		20		mg/L			11/15/23 15:39	10
Fluoride (SM 4500 F C)	0.49		0.10		mg/L			11/20/23 16:49	1
Sulfate (SM 4500 SO4 E)	230		50		mg/L			11/28/23 16:39	10

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR ABB/ASB

Job ID: 500-242244-1

Client Sample ID: MW-15

Lab Sample ID: 500-242244-7

Date Collected: 11/06/23 14:21

Matrix: Water

Date Received: 11/09/23 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		11/17/23 09:16	11/30/23 23:33	1
Arsenic	0.0033		0.0010		mg/L		11/17/23 09:16	11/30/23 23:33	1
Barium	0.060		0.0025		mg/L		11/17/23 09:16	11/30/23 23:33	1
Beryllium	<0.0010	^1+	0.0010		mg/L		11/17/23 09:16	11/30/23 23:33	1
Boron	1.0		0.050		mg/L		11/17/23 09:16	12/07/23 11:16	1
Cadmium	<0.00050		0.00050		mg/L		11/17/23 09:16	11/30/23 23:33	1
Calcium	190		0.20		mg/L		11/17/23 09:16	12/01/23 14:53	1
Chromium	<0.0050		0.0050		mg/L		11/17/23 09:16	12/04/23 16:46	1
Cobalt	0.0019		0.0010		mg/L		11/17/23 09:16	12/01/23 14:53	1
Lead	<0.00050	^1+	0.00050		mg/L		11/17/23 09:16	11/30/23 23:33	1
Lithium	0.024		0.010		mg/L		11/17/23 09:16	12/01/23 14:53	1
Molybdenum	0.047		0.0050		mg/L		11/17/23 09:16	11/30/23 23:33	1
Selenium	0.0033		0.0025		mg/L		11/17/23 09:16	12/01/23 14:53	1
Thallium	<0.0020		0.0020		mg/L		11/17/23 09:16	11/30/23 23:33	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		11/28/23 09:25	11/29/23 08:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1500		10		mg/L			11/12/23 23:23	1
Chloride (SM 4500 Cl- E)	220		20		mg/L			11/15/23 15:39	10
Fluoride (SM 4500 F C)	0.44		0.10		mg/L			11/20/23 16:53	1
Sulfate (SM 4500 SO4 E)	440		50		mg/L			11/28/23 11:29	10

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR ABB/ASB

Job ID: 500-242244-1

Client Sample ID: MW-18

Lab Sample ID: 500-242244-8

Date Collected: 11/08/23 14:25

Matrix: Water

Date Received: 11/09/23 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		11/17/23 09:16	11/30/23 23:37	1
Arsenic	0.0015		0.0010		mg/L		11/17/23 09:16	11/30/23 23:37	1
Barium	0.16		0.0025		mg/L		11/17/23 09:16	11/30/23 23:37	1
Beryllium	<0.0010	^1+	0.0010		mg/L		11/17/23 09:16	11/30/23 23:37	1
Boron	0.68		0.050		mg/L		11/17/23 09:16	12/07/23 11:20	1
Cadmium	<0.00050		0.00050		mg/L		11/17/23 09:16	11/30/23 23:37	1
Calcium	120		0.20		mg/L		11/17/23 09:16	12/01/23 14:56	1
Chromium	<0.0050		0.0050		mg/L		11/17/23 09:16	12/04/23 16:50	1
Cobalt	<0.0010		0.0010		mg/L		11/17/23 09:16	12/01/23 14:56	1
Lead	<0.00050	^1+	0.00050		mg/L		11/17/23 09:16	11/30/23 23:37	1
Lithium	0.011		0.010		mg/L		11/17/23 09:16	12/01/23 14:56	1
Molybdenum	<0.0050		0.0050		mg/L		11/17/23 09:16	11/30/23 23:37	1
Selenium	<0.0025		0.0025		mg/L		11/17/23 09:16	12/01/23 14:56	1
Thallium	<0.0020		0.0020		mg/L		11/17/23 09:16	11/30/23 23:37	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		11/28/23 09:25	11/29/23 09:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1100		10		mg/L			11/12/23 23:26	1
Chloride (SM 4500 Cl- E)	160		20		mg/L			11/15/23 15:39	10
Fluoride (SM 4500 F C)	0.46		0.10		mg/L			11/20/23 16:58	1
Sulfate (SM 4500 SO4 E)	110		50		mg/L			11/28/23 11:51	10

Client Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Powerton CCR ABB/ASB

Job ID: 500-242244-1

Client Sample ID: MW-19

Lab Sample ID: 500-242244-9

Date Collected: 11/08/23 11:20

Matrix: Water

Date Received: 11/09/23 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		11/17/23 09:16	11/30/23 23:40	1
Arsenic	<0.0010		0.0010		mg/L		11/17/23 09:16	11/30/23 23:40	1
Barium	0.072		0.0025		mg/L		11/17/23 09:16	11/30/23 23:40	1
Beryllium	<0.0010	^1+	0.0010		mg/L		11/17/23 09:16	11/30/23 23:40	1
Boron	3.7		0.50		mg/L		11/17/23 09:16	12/07/23 11:23	10
Cadmium	<0.00050		0.00050		mg/L		11/17/23 09:16	11/30/23 23:40	1
Calcium	80		0.20		mg/L		11/17/23 09:16	12/01/23 15:10	1
Chromium	<0.0050		0.0050		mg/L		11/17/23 09:16	12/04/23 16:54	1
Cobalt	<0.0010		0.0010		mg/L		11/17/23 09:16	12/01/23 15:10	1
Lead	<0.00050	^1+	0.00050		mg/L		11/17/23 09:16	11/30/23 23:40	1
Lithium	<0.010		0.010		mg/L		11/17/23 09:16	12/01/23 15:10	1
Molybdenum	0.033		0.0050		mg/L		11/17/23 09:16	11/30/23 23:40	1
Selenium	0.0061		0.0025		mg/L		11/17/23 09:16	12/01/23 15:10	1
Thallium	<0.0020		0.0020		mg/L		11/17/23 09:16	11/30/23 23:40	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		11/28/23 09:25	11/29/23 09:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	610		10		mg/L			11/12/23 23:28	1
Chloride (SM 4500 Cl- E)	32		2.0		mg/L			11/15/23 15:20	1
Fluoride (SM 4500 F C)	0.16		0.10		mg/L			11/20/23 17:12	1
Sulfate (SM 4500 SO4 E)	180		50		mg/L			11/28/23 17:11	10

Client Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Powerton CCR ABB/ASB

Job ID: 500-242244-1

Client Sample ID: Duplicate

Lab Sample ID: 500-242244-10

Date Collected: 11/08/23 00:00

Matrix: Water

Date Received: 11/09/23 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		11/17/23 09:16	11/30/23 23:44	1
Arsenic	<0.0010		0.0010		mg/L		11/17/23 09:16	11/30/23 23:44	1
Barium	0.073		0.0025		mg/L		11/17/23 09:16	11/30/23 23:44	1
Beryllium	<0.0010	^1+	0.0010		mg/L		11/17/23 09:16	11/30/23 23:44	1
Boron	3.7		0.50		mg/L		11/17/23 09:16	12/07/23 11:27	10
Cadmium	<0.00050		0.00050		mg/L		11/17/23 09:16	11/30/23 23:44	1
Calcium	81		0.20		mg/L		11/17/23 09:16	12/01/23 15:13	1
Chromium	<0.0050		0.0050		mg/L		11/17/23 09:16	12/04/23 16:57	1
Cobalt	<0.0010		0.0010		mg/L		11/17/23 09:16	12/01/23 15:13	1
Lead	<0.00050	^1+	0.00050		mg/L		11/17/23 09:16	11/30/23 23:44	1
Lithium	<0.010		0.010		mg/L		11/17/23 09:16	12/01/23 15:13	1
Molybdenum	0.034		0.0050		mg/L		11/17/23 09:16	11/30/23 23:44	1
Selenium	0.0068		0.0025		mg/L		11/17/23 09:16	12/01/23 15:13	1
Thallium	<0.0020		0.0020		mg/L		11/17/23 09:16	11/30/23 23:44	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		11/28/23 09:25	11/29/23 09:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	610		10		mg/L			11/12/23 23:31	1
Chloride (SM 4500 Cl- E)	33		2.0		mg/L			11/15/23 15:21	1
Fluoride (SM 4500 F C)	0.16		0.10		mg/L			11/20/23 17:17	1
Sulfate (SM 4500 SO4 E)	170		50		mg/L			11/28/23 17:11	10

Definitions/Glossary

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR ABB/ASB

Job ID: 500-242244-1

Qualifiers

Metals

Qualifier	Qualifier Description
^1+	Initial Calibration Verification (ICV) is outside acceptance limits, high biased.

General Chemistry

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

Glossary

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

QC Association Summary

Client: KPRG and Associates, Inc.
 Project/Site: Powerton CCR ABB/ASB

Job ID: 500-242244-1

Metals

Prep Batch: 742776

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-242244-1	MW-01	Total Recoverable	Water	3005A	
500-242244-2	MW-08	Total Recoverable	Water	3005A	
500-242244-3	MW-17	Total Recoverable	Water	3005A	
500-242244-4	MW-09	Total Recoverable	Water	3005A	
500-242244-5	MW-11	Total Recoverable	Water	3005A	
500-242244-6	MW-12	Total Recoverable	Water	3005A	
500-242244-7	MW-15	Total Recoverable	Water	3005A	
500-242244-8	MW-18	Total Recoverable	Water	3005A	
500-242244-9	MW-19	Total Recoverable	Water	3005A	
500-242244-10	Duplicate	Total Recoverable	Water	3005A	
MB 500-742776/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-742776/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 743999

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-242244-1	MW-01	Total/NA	Water	7470A	
500-242244-2	MW-08	Total/NA	Water	7470A	
500-242244-3	MW-17	Total/NA	Water	7470A	
500-242244-4	MW-09	Total/NA	Water	7470A	
500-242244-5	MW-11	Total/NA	Water	7470A	
500-242244-6	MW-12	Total/NA	Water	7470A	
500-242244-7	MW-15	Total/NA	Water	7470A	
500-242244-8	MW-18	Total/NA	Water	7470A	
500-242244-9	MW-19	Total/NA	Water	7470A	
500-242244-10	Duplicate	Total/NA	Water	7470A	
MB 500-743999/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-743999/13-A	Lab Control Sample	Total/NA	Water	7470A	
500-242244-10 MS	Duplicate	Total/NA	Water	7470A	
500-242244-10 MSD	Duplicate	Total/NA	Water	7470A	
500-242244-10 DU	Duplicate	Total/NA	Water	7470A	

Analysis Batch: 744222

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-242244-1	MW-01	Total/NA	Water	7470A	743999
500-242244-2	MW-08	Total/NA	Water	7470A	743999
500-242244-3	MW-17	Total/NA	Water	7470A	743999
500-242244-4	MW-09	Total/NA	Water	7470A	743999
500-242244-5	MW-11	Total/NA	Water	7470A	743999
500-242244-6	MW-12	Total/NA	Water	7470A	743999
500-242244-7	MW-15	Total/NA	Water	7470A	743999
500-242244-8	MW-18	Total/NA	Water	7470A	743999
500-242244-9	MW-19	Total/NA	Water	7470A	743999
500-242244-10	Duplicate	Total/NA	Water	7470A	743999
MB 500-743999/12-A	Method Blank	Total/NA	Water	7470A	743999
LCS 500-743999/13-A	Lab Control Sample	Total/NA	Water	7470A	743999
500-242244-10 MS	Duplicate	Total/NA	Water	7470A	743999
500-242244-10 MSD	Duplicate	Total/NA	Water	7470A	743999
500-242244-10 DU	Duplicate	Total/NA	Water	7470A	743999

QC Association Summary

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR ABB/ASB

Job ID: 500-242244-1

Metals

Analysis Batch: 744671

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-242244-1	MW-01	Total Recoverable	Water	6020B	742776
500-242244-2	MW-08	Total Recoverable	Water	6020B	742776
500-242244-3	MW-17	Total Recoverable	Water	6020B	742776
500-242244-4	MW-09	Total Recoverable	Water	6020B	742776
500-242244-5	MW-11	Total Recoverable	Water	6020B	742776
500-242244-6	MW-12	Total Recoverable	Water	6020B	742776
500-242244-7	MW-15	Total Recoverable	Water	6020B	742776
500-242244-8	MW-18	Total Recoverable	Water	6020B	742776
500-242244-9	MW-19	Total Recoverable	Water	6020B	742776
500-242244-10	Duplicate	Total Recoverable	Water	6020B	742776
MB 500-742776/1-A	Method Blank	Total Recoverable	Water	6020B	742776
LCS 500-742776/2-A	Lab Control Sample	Total Recoverable	Water	6020B	742776

Analysis Batch: 744923

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-242244-1	MW-01	Total Recoverable	Water	6020B	742776
500-242244-2	MW-08	Total Recoverable	Water	6020B	742776
500-242244-3	MW-17	Total Recoverable	Water	6020B	742776
500-242244-4	MW-09	Total Recoverable	Water	6020B	742776
500-242244-5	MW-11	Total Recoverable	Water	6020B	742776
500-242244-6	MW-12	Total Recoverable	Water	6020B	742776
500-242244-7	MW-15	Total Recoverable	Water	6020B	742776
500-242244-8	MW-18	Total Recoverable	Water	6020B	742776
500-242244-9	MW-19	Total Recoverable	Water	6020B	742776
500-242244-10	Duplicate	Total Recoverable	Water	6020B	742776
MB 500-742776/1-A	Method Blank	Total Recoverable	Water	6020B	742776
LCS 500-742776/2-A	Lab Control Sample	Total Recoverable	Water	6020B	742776

Analysis Batch: 745140

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-242244-1	MW-01	Total Recoverable	Water	6020B	742776
500-242244-2	MW-08	Total Recoverable	Water	6020B	742776
500-242244-3	MW-17	Total Recoverable	Water	6020B	742776
500-242244-4	MW-09	Total Recoverable	Water	6020B	742776
500-242244-5	MW-11	Total Recoverable	Water	6020B	742776
500-242244-6	MW-12	Total Recoverable	Water	6020B	742776
500-242244-7	MW-15	Total Recoverable	Water	6020B	742776
500-242244-8	MW-18	Total Recoverable	Water	6020B	742776
500-242244-9	MW-19	Total Recoverable	Water	6020B	742776
500-242244-10	Duplicate	Total Recoverable	Water	6020B	742776
MB 500-742776/1-A	Method Blank	Total Recoverable	Water	6020B	742776
LCS 500-742776/2-A	Lab Control Sample	Total Recoverable	Water	6020B	742776

Analysis Batch: 745611

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-242244-1	MW-01	Total Recoverable	Water	6020B	742776
500-242244-2	MW-08	Total Recoverable	Water	6020B	742776
500-242244-3	MW-17	Total Recoverable	Water	6020B	742776
500-242244-4	MW-09	Total Recoverable	Water	6020B	742776
500-242244-5	MW-11	Total Recoverable	Water	6020B	742776

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QC Association Summary

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR ABB/ASB

Job ID: 500-242244-1

Metals

Analysis Batch: 745793

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-242244-6	MW-12	Total Recoverable	Water	6020B	742776
500-242244-7	MW-15	Total Recoverable	Water	6020B	742776
500-242244-8	MW-18	Total Recoverable	Water	6020B	742776
500-242244-9	MW-19	Total Recoverable	Water	6020B	742776
500-242244-10	Duplicate	Total Recoverable	Water	6020B	742776

General Chemistry

Analysis Batch: 741309

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-242244-1	MW-01	Total/NA	Water	SM 2540C	
500-242244-2	MW-08	Total/NA	Water	SM 2540C	
500-242244-3	MW-17	Total/NA	Water	SM 2540C	
MB 500-741309/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-741309/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 741768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-242244-4	MW-09	Total/NA	Water	SM 2540C	
500-242244-5	MW-11	Total/NA	Water	SM 2540C	
500-242244-6	MW-12	Total/NA	Water	SM 2540C	
500-242244-7	MW-15	Total/NA	Water	SM 2540C	
500-242244-8	MW-18	Total/NA	Water	SM 2540C	
500-242244-9	MW-19	Total/NA	Water	SM 2540C	
500-242244-10	Duplicate	Total/NA	Water	SM 2540C	
MB 500-741768/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-741768/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 742389

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-242244-1	MW-01	Total/NA	Water	SM 4500 CI- E	
500-242244-2	MW-08	Total/NA	Water	SM 4500 CI- E	
500-242244-3	MW-17	Total/NA	Water	SM 4500 CI- E	
500-242244-4	MW-09	Total/NA	Water	SM 4500 CI- E	
500-242244-5	MW-11	Total/NA	Water	SM 4500 CI- E	
500-242244-6	MW-12	Total/NA	Water	SM 4500 CI- E	
500-242244-7	MW-15	Total/NA	Water	SM 4500 CI- E	
500-242244-8	MW-18	Total/NA	Water	SM 4500 CI- E	
500-242244-9	MW-19	Total/NA	Water	SM 4500 CI- E	
500-242244-10	Duplicate	Total/NA	Water	SM 4500 CI- E	
MB 500-742389/102	Method Blank	Total/NA	Water	SM 4500 CI- E	
LCS 500-742389/103	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	
500-242244-10 MS	Duplicate	Total/NA	Water	SM 4500 CI- E	
500-242244-10 MSD	Duplicate	Total/NA	Water	SM 4500 CI- E	

Analysis Batch: 743238

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-242244-1	MW-01	Total/NA	Water	SM 4500 F C	
500-242244-2	MW-08	Total/NA	Water	SM 4500 F C	
500-242244-3	MW-17	Total/NA	Water	SM 4500 F C	
500-242244-4	MW-09	Total/NA	Water	SM 4500 F C	

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QC Association Summary

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR ABB/ASB

Job ID: 500-242244-1

General Chemistry (Continued)

Analysis Batch: 743238 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-242244-5	MW-11	Total/NA	Water	SM 4500 F C	
500-242244-6	MW-12	Total/NA	Water	SM 4500 F C	
500-242244-7	MW-15	Total/NA	Water	SM 4500 F C	
500-242244-8	MW-18	Total/NA	Water	SM 4500 F C	
500-242244-9	MW-19	Total/NA	Water	SM 4500 F C	
500-242244-10	Duplicate	Total/NA	Water	SM 4500 F C	
MB 500-743238/31	Method Blank	Total/NA	Water	SM 4500 F C	
MB 500-743238/59	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-743238/32	Lab Control Sample	Total/NA	Water	SM 4500 F C	
LCS 500-743238/60	Lab Control Sample	Total/NA	Water	SM 4500 F C	
500-242244-8 MS	MW-18	Total/NA	Water	SM 4500 F C	
500-242244-8 MSD	MW-18	Total/NA	Water	SM 4500 F C	

Analysis Batch: 744036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-242244-2	MW-08	Total/NA	Water	SM 4500 SO4 E	
500-242244-3	MW-17	Total/NA	Water	SM 4500 SO4 E	
500-242244-4	MW-09	Total/NA	Water	SM 4500 SO4 E	
500-242244-5	MW-11	Total/NA	Water	SM 4500 SO4 E	
500-242244-7	MW-15	Total/NA	Water	SM 4500 SO4 E	
500-242244-8	MW-18	Total/NA	Water	SM 4500 SO4 E	
MB 500-744036/16	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-744036/17	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
500-242244-4 MS	MW-09	Total/NA	Water	SM 4500 SO4 E	
500-242244-4 MSD	MW-09	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 744183

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-242244-1	MW-01	Total/NA	Water	SM 4500 SO4 E	
500-242244-6	MW-12	Total/NA	Water	SM 4500 SO4 E	
500-242244-9	MW-19	Total/NA	Water	SM 4500 SO4 E	
500-242244-10	Duplicate	Total/NA	Water	SM 4500 SO4 E	
MB 500-744183/73	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-744183/74	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
500-242244-6 MS	MW-12	Total/NA	Water	SM 4500 SO4 E	
500-242244-6 MSD	MW-12	Total/NA	Water	SM 4500 SO4 E	

QC Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR ABB/ASB

Job ID: 500-242244-1

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 500-742776/1-A
Matrix: Water
Analysis Batch: 744671

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 742776

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0030		0.0030		mg/L		11/17/23 09:16	11/30/23 21:58	1
Arsenic	<0.0010		0.0010		mg/L		11/17/23 09:16	11/30/23 21:58	1
Barium	<0.0025		0.0025		mg/L		11/17/23 09:16	11/30/23 21:58	1
Beryllium	<0.0010	^1+	0.0010		mg/L		11/17/23 09:16	11/30/23 21:58	1
Cadmium	<0.00050		0.00050		mg/L		11/17/23 09:16	11/30/23 21:58	1
Lead	<0.00050	^1+	0.00050		mg/L		11/17/23 09:16	11/30/23 21:58	1
Molybdenum	<0.0050		0.0050		mg/L		11/17/23 09:16	11/30/23 21:58	1
Thallium	<0.0020		0.0020		mg/L		11/17/23 09:16	11/30/23 21:58	1

Lab Sample ID: MB 500-742776/1-A
Matrix: Water
Analysis Batch: 744923

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 742776

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Calcium	<0.20		0.20		mg/L		11/17/23 09:16	12/01/23 13:27	1
Cobalt	<0.0010		0.0010		mg/L		11/17/23 09:16	12/01/23 13:27	1
Selenium	<0.0025		0.0025		mg/L		11/17/23 09:16	12/01/23 13:27	1

Lab Sample ID: MB 500-742776/1-A
Matrix: Water
Analysis Batch: 745140

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 742776

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Boron	<0.050		0.050		mg/L		11/17/23 09:16	12/04/23 15:03	1
Chromium	<0.0050		0.0050		mg/L		11/17/23 09:16	12/04/23 15:03	1

Lab Sample ID: LCS 500-742776/2-A
Matrix: Water
Analysis Batch: 744671

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 742776

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.106		mg/L		106	80 - 120
Barium	0.500	0.559		mg/L		112	80 - 120
Beryllium	0.0500	0.0504	^1+	mg/L		101	80 - 120
Cadmium	0.0500	0.0488		mg/L		98	80 - 120
Lead	0.100	0.103	^1+	mg/L		103	80 - 120
Molybdenum	1.00	0.938		mg/L		94	80 - 120
Thallium	0.100	0.102		mg/L		102	80 - 120

Lab Sample ID: LCS 500-742776/2-A
Matrix: Water
Analysis Batch: 744923

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 742776

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cobalt	0.500	0.513		mg/L		103	80 - 120
Selenium	0.100	0.0978		mg/L		98	80 - 120

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QC Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Powerton CCR ABB/ASB

Job ID: 500-242244-1

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

Lab Sample ID: LCS 500-742776/2-A
 Matrix: Water
 Analysis Batch: 745140

Client Sample ID: Lab Control Sample
 Prep Type: Total Recoverable
 Prep Batch: 742776

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.00	1.09		mg/L		109	80 - 120
Chromium	0.200	0.209		mg/L		105	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-743999/12-A
 Matrix: Water
 Analysis Batch: 744222

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 743999

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		11/28/23 09:25	11/29/23 08:37	1

Lab Sample ID: LCS 500-743999/13-A
 Matrix: Water
 Analysis Batch: 744222

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 743999

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00201	0.00205		mg/L		102	80 - 120

Lab Sample ID: 500-242244-10 MS
 Matrix: Water
 Analysis Batch: 744222

Client Sample ID: Duplicate
 Prep Type: Total/NA
 Prep Batch: 743999

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.00020		0.00100	0.00105		mg/L		105	75 - 125

Lab Sample ID: 500-242244-10 MSD
 Matrix: Water
 Analysis Batch: 744222

Client Sample ID: Duplicate
 Prep Type: Total/NA
 Prep Batch: 743999

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.00020		0.00100	0.00100		mg/L		100	75 - 125	5	20

Lab Sample ID: 500-242244-10 DU
 Matrix: Water
 Analysis Batch: 744222

Client Sample ID: Duplicate
 Prep Type: Total/NA
 Prep Batch: 743999

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	<0.00020		<0.00020		mg/L		NC	20

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

Lab Sample ID: MB 500-741309/1
 Matrix: Water
 Analysis Batch: 741309

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10		mg/L			11/09/23 01:28	1

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QC Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR ABB/ASB

Job ID: 500-242244-1

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

Lab Sample ID: LCS 500-741309/2
Matrix: Water
Analysis Batch: 741309

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	246		mg/L		98	80 - 120

Lab Sample ID: MB 500-741768/1
Matrix: Water
Analysis Batch: 741768

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10		mg/L			11/12/23 22:37	1

Lab Sample ID: LCS 500-741768/2
Matrix: Water
Analysis Batch: 741768

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	264		mg/L		106	80 - 120

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 500-742389/102
Matrix: Water
Analysis Batch: 742389

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<2.0		2.0		mg/L			11/15/23 15:17	1

Lab Sample ID: LCS 500-742389/103
Matrix: Water
Analysis Batch: 742389

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	20.9		mg/L		105	85 - 115

Lab Sample ID: 500-242244-10 MS
Matrix: Water
Analysis Batch: 742389

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	33		20.0	55.7		mg/L		113	75 - 125

Lab Sample ID: 500-242244-10 MSD
Matrix: Water
Analysis Batch: 742389

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	33		20.0	55.6		mg/L		113	75 - 125	0	20

QC Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR ABB/ASB

Job ID: 500-242244-1

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-743238/31
Matrix: Water
Analysis Batch: 743238

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10		mg/L			11/20/23 14:11	1

Lab Sample ID: MB 500-743238/59
Matrix: Water
Analysis Batch: 743238

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10		mg/L			11/20/23 16:22	1

Lab Sample ID: LCS 500-743238/32
Matrix: Water
Analysis Batch: 743238

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	10.0	9.54		mg/L		95	90 - 119

Lab Sample ID: LCS 500-743238/60
Matrix: Water
Analysis Batch: 743238

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	10.0	9.74		mg/L		97	90 - 119

Lab Sample ID: 500-242244-8 MS
Matrix: Water
Analysis Batch: 743238

Client Sample ID: MW-18
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.46		5.00	5.32		mg/L		97	75 - 125

Lab Sample ID: 500-242244-8 MSD
Matrix: Water
Analysis Batch: 743238

Client Sample ID: MW-18
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	0.46		5.00	5.21		mg/L		95	75 - 125	2	20

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 500-744036/16
Matrix: Water
Analysis Batch: 744036

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<5.0		5.0		mg/L			11/28/23 11:23	1

QC Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR ABB/ASB

Job ID: 500-242244-1

Method: SM 4500 SO4 E - Sulfate, Total (Continued)

Lab Sample ID: LCS 500-744036/17
Matrix: Water
Analysis Batch: 744036

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	20.0	19.9		mg/L		99	88 - 123

Lab Sample ID: 500-242244-4 MS
Matrix: Water
Analysis Batch: 744036

Client Sample ID: MW-09
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	130		20.0	148	4	mg/L		96	75 - 125

Lab Sample ID: 500-242244-4 MSD
Matrix: Water
Analysis Batch: 744036

Client Sample ID: MW-09
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	130		20.0	149	4	mg/L		101	75 - 125	1	20

Lab Sample ID: MB 500-744183/73
Matrix: Water
Analysis Batch: 744183

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<5.0		5.0		mg/L			11/28/23 16:00	1

Lab Sample ID: LCS 500-744183/74
Matrix: Water
Analysis Batch: 744183

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	20.0	20.2		mg/L		101	88 - 123

Lab Sample ID: 500-242244-6 MS
Matrix: Water
Analysis Batch: 744183

Client Sample ID: MW-12
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	230		20.0	254	4	mg/L		101	75 - 125

Lab Sample ID: 500-242244-6 MSD
Matrix: Water
Analysis Batch: 744183

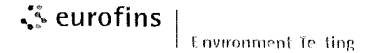
Client Sample ID: MW-12
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	230		20.0	246	4	mg/L		59	75 - 125	3	20

Eurofins Chicago

2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record



Client Information		Sampler: <i>Jack Micner</i>		Lab PM: Mockler, Diana J		Carrier Tracking No(s)		COC No: 500-114457-46458 1		
Client Contact: Kaelyn Sperle		Phone: <i>262-622-1143</i>		E Mail: Diana Mockler@et eurofinsus.com		State of Origin: <i>IL</i>		Page: Page 1 of 1		
Company: KPRG and Associates, Inc				PWSID:		Analysis Requested				
Address: 14665 West Lisbon Road, Suite 1A		Due Date Requested		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		Job #: <i>500-242244</i>		
City: Brookfield		TAT Requested (days): <i>standard</i>		903.0, 904.0		6020A, 7470A		Preservation Codes		
State Zip: WI, 53005		Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		2540C, 4500, F.C, SM4500, CL_E		SM4500, SO4, E - Sulfate		M Hexane N - None O AsNaO2 P - Na2O4S Q Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V MCAA W pH 4-5 Y Trizma Z other (specify)		
Phone: 262-781-0475(Tel) 500-242244 COC		PO #: 4502125100		Total Number of containers				Other:		
Email: kaelyns@kprginc.com		WO #:								
Project Name: Powerton CCR Event Desc: Quarterly Powerton CCR Sampling		Project #: 50011612								
Site: Illinois <i>ABB/ASB</i>		SSOW#:								
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)			Special Instructions/Note:
						X	X	D	D	
<i>1</i> MW-01		<i>11/7/23</i>	<i>1554</i>	<i>G</i>	Water	<i>NN</i>	<i>XX</i>	<i>XX</i>	<i>XX</i>	
<i>2</i> MW-08		<i>11/7/23</i>	<i>1358</i>	<i>G</i>	Water	<i>NN</i>	<i>XX</i>	<i>XX</i>	<i>XX</i>	
MW-09					Water					
MW-11					Water					
MW-12					Water					
MW-15					Water					
<i>3</i> MW-17		<i>11/6/23</i>	<i>1533</i>	<i>G</i>	Water	<i>NN</i>	<i>XX</i>	<i>XX</i>	<i>XX</i>	
MW-18					Water					
MW-19					Water					
					Water					
					Water					
Possible Hazard Identification					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)					
<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological					<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months					
Deliverable Requested I, II, III, IV, Other (specify)					Special Instructions/QC Requirements					
Empty Kit Relinquished by			Date		Time		Method of Shipment			
Relinquished by: <i>Jon Trivedi</i>			Date/Time: <i>11/7/23 1800</i>		Company: <i>KPRG</i>		Received by: <i>Ali Scott</i>		Date/Time: <i>11/8/23 0955</i>	Company: <i>ETA</i>
Relinquished by:			Date/Time:		Company:		Received by:		Date/Time:	Company:
Relinquished by:			Date/Time:		Company:		Received by:		Date/Time:	Company:
Custody Seals Intact. <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Custody Seal No			Cooler Temperature(s) °C and Other Remarks: <i>1.6+1.5</i>					



Eurofins Chicago

2417 Bond Street
 University Park IL 60484
 Phone 708-534-5200 Fax 708-534-5211

Chain of Custody Record

MKE 232

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Client Information		Sampler: Jack Misner		Lab PM: Mockler, Diana J		Carrier Tracking No(s):		COC No: 500-114460-47169 1											
Client Contact: Kaelyn Sperle		Phone: 262-622-1143		E-Mail: Diana Mockler@et.eurofins.com		State of Origin:		Page: Page 1 of 1											
Company: KPRG and Associates, Inc.		PWSID:		Analysis Request		500-242244 COC		Job #: 500-242244											
Address: 14665 West Lisbon Road, Suite 1A		Due Date Requested:		Field Filtered Sample (Yes or No)		503.0, 904.0		Preservation Codes											
City: Brookfield		TAT Requested (days): Standard		Perform MS/MSD (Yes or No)		903.0, 904.0		A HCL M Hexane											
State/Zip: WI, 53005		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No		9010C, 6020A, 7470A		5010C, 6020A, 7470A		B NaOH N None											
Phone: 262-781-0475(Tel)		PO #: 4502125100		2540C, 4500_F_C, SMA500_CL_E, SMA500_SO4_E		2540C, 4500_F_C, SMA500_CL_E, SMA500_SO4_E		C Zn Acetate O AsNaO2											
Email: kaelyns@kprginc.com		WO #:		SMA500_SO4_E - Sulfate		SMA500_SO4_E - Sulfate		D Nitric Acid P Na2O4S											
Project Name: ABB/ASB Event Desc: Quarterly Powerton CCR Sampling		Project #: 50011612		Total Number of Containers		Total Number of Containers		E NaHSO4 Q Na2SO3											
Site: Illinois		SSOW#:		Other:		Other:		F - MeOH R Na2S2O3											
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/soil, BT=tissue, A=Air)	Special Instructions/Note:		G Archlor S H2SO4											
								H Ascorbic Acid T TSP Dodecahydrate											
								I Ice U Acetone											
								J DI Water V - MCAA											
								K - EDTA W pH 4-5											
								L - EDTA Y Trizma											
								Z other (specify)											
MW-04					Water														
MW-06					Water														
4	MW-09	11/8/23	1005	G	Water	N	N	X	X	X									
5	MW-11	11/8/23	1222		Water	N	N	X	X	X									
6	MW-12	11/8/23	1329		Water	N	N	X	X	X									
7	MW-15	11/6/23	1421		Water	N	N	X	X	X									
	MW-17				Water														
8	MW-18	11/8/23	1425		Water	N	N	X	X	X									
9	MW-19	11/8/23	1120		Water	N	N	X	X	X									
10	Duplicate	11/8/23	-	G	Water	N	N	X	X	X									
Possible Hazard Identification					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)														
<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological					<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months														
Deliverable Requested I, II, III, IV Other (specify)					Special Instructions/QC Requirements.														
Empty Kit Relinquished by		Date		Time		Method of Shipment:													
Relinquished by: <i>Jack Misner</i>		Date/Time: 11/8/23 1715		Company: KPRG		Received by: <i>Stephanie Hammond</i>		Date/Time: 11/9/23 1945		Company: <i>EIA</i>									
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:									
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:									
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks: 1.3+1.2, 1.1+1.0															

ORIGIN ID:PIAA (262) 622-1143
KAELYN SPERLE
KPRG AND ASSOCIATES
414 PLAZA DR STE 106

SHIP DATE: 07NOV23
ACTWGT: 52.50 LB
CAD: 6994780/SSFE2460
DIMS: 27x14x14 IN

WESTMONT, IL 60559
UNITED STATES US

BILL THIRD PARTY

Part # 156287-4836-4408-5E8505/24

TO EUROFINS

2417 BOND ST.



UNIVERSITY PARK IL 60484

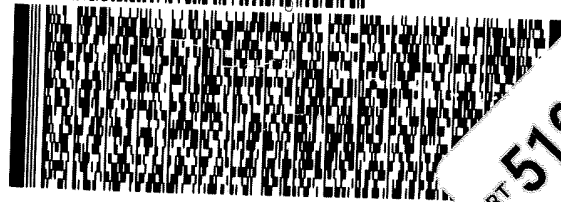
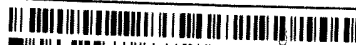
500-242244 Waybi

(555) 555-5555

REF:

INV:

DEPT:



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1015202310

5 of 6

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Mstr# 7860 7723 0037

WED - NOV 10:30A
PRIORITY OVERNIGHT

0201

XP JOTA

AHS
60484
IL-US ORD



... using this tag.

ORIGIN ID:PIAA (262) 622-1143
JACK MISNER
KPRG AND ASSOCIATES
414 PLAZA DR STE 106

SHIP DATE: 08NOV23
ACTWGT: 72.50 LB
CAD: 6994780/SSFE2460
DIMS: 25x14x14 IN

WESTMONT, IL 60559
UNITED STATES US

BILL THIRD PARTY

TO EUROFINS

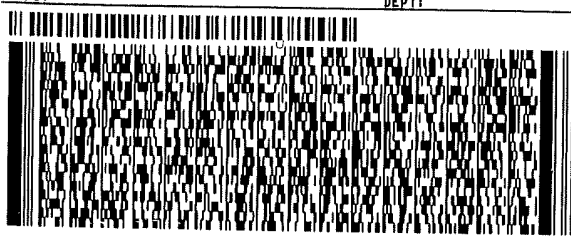
2417 BOND ST.

UNIVERSITY PARK IL 60484

(555) 555-5555
INVT
PO1

REF:

DEPT:



Part # 156297 4895-7812351599 05/24

2 of 4
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Mstr# 7861 2528 2958

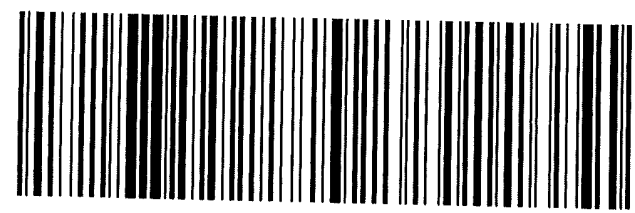
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PRIORITY OVERNIGHT

XP JOTA

0201

480+
1371.2

AHS
60484
IL-US ORD



ORIGIN ID:PIAA (262) 622-1143
JACK MISNER
KPRG AND ASSOCIATES
414 PLAZA DR STE 106

SHIP DATE: 08NOV23
ACTWGT: 72.50 LB
CAD: 6994780/SSFE2460
DIMS: 25x14x14 IN

WESTMONT, IL 60559
UNITED STATES US

BILL THIRD PARTY

TO EUROFINS

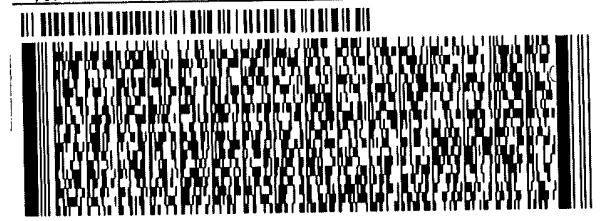
2417 BOND ST.

UNIVERSITY PARK IL 60484

(555) 555-5555
INVT
PO1

REF:

DEPT:



Part # 156297 4895-7812351599 05/24

1 of 4

TRK# 7861 2528 2956
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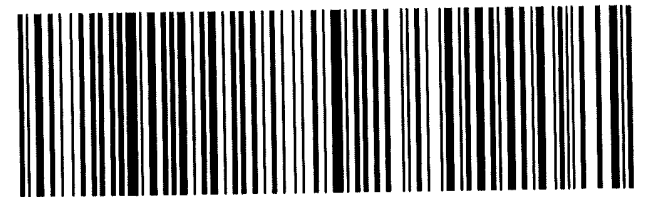
MASTER

XP JOTA

480+
1371.2

THU - 09 NOV 10:30A
PRIORITY OVERNIGHT

AHS
60484
IL-US ORD



Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-242244-1

Login Number: 242244

List Number: 1

Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.5,1.2,1.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Lab Chronicle

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR ABB/ASB

Job ID: 500-242244-1

Client Sample ID: MW-01
Date Collected: 11/07/23 15:54
Date Received: 11/08/23 09:55

Lab Sample ID: 500-242244-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			742776	BDE	EET CHI	11/17/23 09:16 - 11/17/23 09:46 ¹
Total Recoverable	Analysis	6020B		1	744671	RN	EET CHI	11/30/23 23:03
Total Recoverable	Prep	3005A			742776	BDE	EET CHI	11/17/23 09:16 - 11/17/23 09:46 ¹
Total Recoverable	Analysis	6020B		1	744923	RN	EET CHI	12/01/23 14:32
Total Recoverable	Prep	3005A			742776	BDE	EET CHI	11/17/23 09:16 - 11/17/23 09:46 ¹
Total Recoverable	Analysis	6020B		1	745140	RN	EET CHI	12/04/23 16:11
Total Recoverable	Prep	3005A			742776	BDE	EET CHI	11/17/23 09:16 - 11/17/23 09:46 ¹
Total Recoverable	Analysis	6020B		1	745611	BJH	EET CHI	12/06/23 17:27
Total/NA	Prep	7470A			743999	MJG	EET CHI	11/28/23 09:25 - 11/28/23 11:25 ¹
Total/NA	Analysis	7470A		1	744222	MJG	EET CHI	11/29/23 08:41
Total/NA	Analysis	SM 2540C		1	741309	CLB	EET CHI	11/09/23 01:59
Total/NA	Analysis	SM 4500 CI- E		2	742389	TR	EET CHI	11/15/23 15:41
Total/NA	Analysis	SM 4500 F C		1	743238	SO	EET CHI	11/20/23 16:03
Total/NA	Analysis	SM 4500 SO4 E		2	744183	TR	EET CHI	11/28/23 16:39

Client Sample ID: MW-08
Date Collected: 11/07/23 13:58
Date Received: 11/08/23 09:55

Lab Sample ID: 500-242244-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			742776	BDE	EET CHI	11/17/23 09:16 - 11/17/23 09:46 ¹
Total Recoverable	Analysis	6020B		1	744671	RN	EET CHI	11/30/23 23:14
Total Recoverable	Prep	3005A			742776	BDE	EET CHI	11/17/23 09:16 - 11/17/23 09:46 ¹
Total Recoverable	Analysis	6020B		1	744923	RN	EET CHI	12/01/23 14:35
Total Recoverable	Prep	3005A			742776	BDE	EET CHI	11/17/23 09:16 - 11/17/23 09:46 ¹
Total Recoverable	Analysis	6020B		1	745140	RN	EET CHI	12/04/23 16:15
Total Recoverable	Prep	3005A			742776	BDE	EET CHI	11/17/23 09:16 - 11/17/23 09:46 ¹
Total Recoverable	Analysis	6020B		1	745611	BJH	EET CHI	12/06/23 17:31
Total/NA	Prep	7470A			743999	MJG	EET CHI	11/28/23 09:25 - 11/28/23 11:25 ¹
Total/NA	Analysis	7470A		1	744222	MJG	EET CHI	11/29/23 08:43
Total/NA	Analysis	SM 2540C		1	741309	CLB	EET CHI	11/09/23 02:01
Total/NA	Analysis	SM 4500 CI- E		10	742389	TR	EET CHI	11/15/23 15:40
Total/NA	Analysis	SM 4500 F C		1	743238	SO	EET CHI	11/20/23 16:08
Total/NA	Analysis	SM 4500 SO4 E		2	744036	TR	EET CHI	11/28/23 11:29

Client Sample ID: MW-17
Date Collected: 11/06/23 15:33
Date Received: 11/08/23 09:55

Lab Sample ID: 500-242244-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			742776	BDE	EET CHI	11/17/23 09:16 - 11/17/23 09:46 ¹
Total Recoverable	Analysis	6020B		1	744671	RN	EET CHI	11/30/23 23:18
Total Recoverable	Prep	3005A			742776	BDE	EET CHI	11/17/23 09:16 - 11/17/23 09:46 ¹
Total Recoverable	Analysis	6020B		1	744923	RN	EET CHI	12/01/23 14:39

Eurofins Chicago

Lab Chronicle

Client: KPRG and Associates, Inc.
 Project/Site: Powerton CCR ABB/ASB

Job ID: 500-242244-1

Client Sample ID: MW-17
Date Collected: 11/06/23 15:33
Date Received: 11/08/23 09:55

Lab Sample ID: 500-242244-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			742776	BDE	EET CHI	11/17/23 09:16 - 11/17/23 09:46 ¹
Total Recoverable	Analysis	6020B		1	745140	RN	EET CHI	12/04/23 16:18
Total Recoverable	Prep	3005A			742776	BDE	EET CHI	11/17/23 09:16 - 11/17/23 09:46 ¹
Total Recoverable	Analysis	6020B		1	745611	BJH	EET CHI	12/06/23 17:34
Total/NA	Prep	7470A			743999	MJG	EET CHI	11/28/23 09:25 - 11/28/23 11:25 ¹
Total/NA	Analysis	7470A		1	744222	MJG	EET CHI	11/29/23 08:45
Total/NA	Analysis	SM 2540C		1	741309	CLB	EET CHI	11/09/23 02:04
Total/NA	Analysis	SM 4500 Cl- E		10	742389	TR	EET CHI	11/15/23 15:41
Total/NA	Analysis	SM 4500 F C		1	743238	SO	EET CHI	11/20/23 16:13
Total/NA	Analysis	SM 4500 SO4 E		10	744036	TR	EET CHI	11/28/23 11:30

Client Sample ID: MW-09
Date Collected: 11/08/23 10:05
Date Received: 11/09/23 09:45

Lab Sample ID: 500-242244-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			742776	BDE	EET CHI	11/17/23 09:16 - 11/17/23 09:46 ¹
Total Recoverable	Analysis	6020B		1	744671	RN	EET CHI	11/30/23 23:21
Total Recoverable	Prep	3005A			742776	BDE	EET CHI	11/17/23 09:16 - 11/17/23 09:46 ¹
Total Recoverable	Analysis	6020B		1	744923	RN	EET CHI	12/01/23 14:42
Total Recoverable	Prep	3005A			742776	BDE	EET CHI	11/17/23 09:16 - 11/17/23 09:46 ¹
Total Recoverable	Analysis	6020B		1	745140	RN	EET CHI	12/04/23 16:22
Total Recoverable	Prep	3005A			742776	BDE	EET CHI	11/17/23 09:16 - 11/17/23 09:46 ¹
Total Recoverable	Analysis	6020B		10	745611	BJH	EET CHI	12/06/23 17:38
Total/NA	Prep	7470A			743999	MJG	EET CHI	11/28/23 09:25 - 11/28/23 11:25 ¹
Total/NA	Analysis	7470A		1	744222	MJG	EET CHI	11/29/23 08:51
Total/NA	Analysis	SM 2540C		1	741768	CLB	EET CHI	11/12/23 23:15
Total/NA	Analysis	SM 4500 Cl- E		1	742389	TR	EET CHI	11/15/23 15:19
Total/NA	Analysis	SM 4500 F C		1	743238	SO	EET CHI	11/20/23 16:18
Total/NA	Analysis	SM 4500 SO4 E		10	744036	TR	EET CHI	11/28/23 11:31

Client Sample ID: MW-11
Date Collected: 11/08/23 12:22
Date Received: 11/09/23 09:45

Lab Sample ID: 500-242244-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			742776	BDE	EET CHI	11/17/23 09:16 - 11/17/23 09:46 ¹
Total Recoverable	Analysis	6020B		1	744671	RN	EET CHI	11/30/23 23:25
Total Recoverable	Prep	3005A			742776	BDE	EET CHI	11/17/23 09:16 - 11/17/23 09:46 ¹
Total Recoverable	Analysis	6020B		1	744923	RN	EET CHI	12/01/23 14:46
Total Recoverable	Prep	3005A			742776	BDE	EET CHI	11/17/23 09:16 - 11/17/23 09:46 ¹
Total Recoverable	Analysis	6020B		1	745140	RN	EET CHI	12/04/23 16:26
Total Recoverable	Prep	3005A			742776	BDE	EET CHI	11/17/23 09:16 - 11/17/23 09:46 ¹
Total Recoverable	Analysis	6020B		10	745611	BJH	EET CHI	12/06/23 17:41

Eurofins Chicago

Lab Chronicle

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR ABB/ASB

Job ID: 500-242244-1

Client Sample ID: MW-11
Date Collected: 11/08/23 12:22
Date Received: 11/09/23 09:45

Lab Sample ID: 500-242244-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			743999	MJG	EET CHI	11/28/23 09:25 - 11/28/23 11:25 ¹
Total/NA	Analysis	7470A		1	744222	MJG	EET CHI	11/29/23 08:54
Total/NA	Analysis	SM 2540C		1	741768	CLB	EET CHI	11/12/23 23:18
Total/NA	Analysis	SM 4500 CI- E		2	742389	TR	EET CHI	11/15/23 15:40
Total/NA	Analysis	SM 4500 F C		1	743238	SO	EET CHI	11/20/23 16:44
Total/NA	Analysis	SM 4500 SO4 E		10	744036	TR	EET CHI	11/28/23 11:30

Client Sample ID: MW-12
Date Collected: 11/08/23 13:29
Date Received: 11/09/23 09:45

Lab Sample ID: 500-242244-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			742776	BDE	EET CHI	11/17/23 09:16 - 11/17/23 09:46 ¹
Total Recoverable	Analysis	6020B		1	744671	RN	EET CHI	11/30/23 23:29
Total Recoverable	Prep	3005A			742776	BDE	EET CHI	11/17/23 09:16 - 11/17/23 09:46 ¹
Total Recoverable	Analysis	6020B		1	744923	RN	EET CHI	12/01/23 14:49
Total Recoverable	Prep	3005A			742776	BDE	EET CHI	11/17/23 09:16 - 11/17/23 09:46 ¹
Total Recoverable	Analysis	6020B		1	745140	RN	EET CHI	12/04/23 16:42
Total Recoverable	Prep	3005A			742776	BDE	EET CHI	11/17/23 09:16 - 11/17/23 09:46 ¹
Total Recoverable	Analysis	6020B		1	745793	BJH	EET CHI	12/07/23 11:12
Total/NA	Prep	7470A			743999	MJG	EET CHI	11/28/23 09:25 - 11/28/23 11:25 ¹
Total/NA	Analysis	7470A		1	744222	MJG	EET CHI	11/29/23 08:56
Total/NA	Analysis	SM 2540C		1	741768	CLB	EET CHI	11/12/23 23:20
Total/NA	Analysis	SM 4500 CI- E		10	742389	TR	EET CHI	11/15/23 15:39
Total/NA	Analysis	SM 4500 F C		1	743238	SO	EET CHI	11/20/23 16:49
Total/NA	Analysis	SM 4500 SO4 E		10	744183	TR	EET CHI	11/28/23 16:39

Client Sample ID: MW-15
Date Collected: 11/06/23 14:21
Date Received: 11/09/23 09:45

Lab Sample ID: 500-242244-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			742776	BDE	EET CHI	11/17/23 09:16 - 11/17/23 09:46 ¹
Total Recoverable	Analysis	6020B		1	744671	RN	EET CHI	11/30/23 23:33
Total Recoverable	Prep	3005A			742776	BDE	EET CHI	11/17/23 09:16 - 11/17/23 09:46 ¹
Total Recoverable	Analysis	6020B		1	744923	RN	EET CHI	12/01/23 14:53
Total Recoverable	Prep	3005A			742776	BDE	EET CHI	11/17/23 09:16 - 11/17/23 09:46 ¹
Total Recoverable	Analysis	6020B		1	745140	RN	EET CHI	12/04/23 16:46
Total Recoverable	Prep	3005A			742776	BDE	EET CHI	11/17/23 09:16 - 11/17/23 09:46 ¹
Total Recoverable	Analysis	6020B		1	745793	BJH	EET CHI	12/07/23 11:16
Total/NA	Prep	7470A			743999	MJG	EET CHI	11/28/23 09:25 - 11/28/23 11:25 ¹
Total/NA	Analysis	7470A		1	744222	MJG	EET CHI	11/29/23 08:58
Total/NA	Analysis	SM 2540C		1	741768	CLB	EET CHI	11/12/23 23:23
Total/NA	Analysis	SM 4500 CI- E		10	742389	TR	EET CHI	11/15/23 15:39

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Lab Chronicle

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR ABB/ASB

Job ID: 500-242244-1

Client Sample ID: MW-15

Date Collected: 11/06/23 14:21

Date Received: 11/09/23 09:45

Lab Sample ID: 500-242244-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM 4500 F C		1	743238	SO	EET CHI	11/20/23 16:53
Total/NA	Analysis	SM 4500 SO4 E		10	744036	TR	EET CHI	11/28/23 11:29

Client Sample ID: MW-18

Date Collected: 11/08/23 14:25

Date Received: 11/09/23 09:45

Lab Sample ID: 500-242244-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			742776	BDE	EET CHI	11/17/23 09:16 - 11/17/23 09:46 ¹
Total Recoverable	Analysis	6020B		1	744671	RN	EET CHI	11/30/23 23:37
Total Recoverable	Prep	3005A			742776	BDE	EET CHI	11/17/23 09:16 - 11/17/23 09:46 ¹
Total Recoverable	Analysis	6020B		1	744923	RN	EET CHI	12/01/23 14:56
Total Recoverable	Prep	3005A			742776	BDE	EET CHI	11/17/23 09:16 - 11/17/23 09:46 ¹
Total Recoverable	Analysis	6020B		1	745140	RN	EET CHI	12/04/23 16:50
Total Recoverable	Prep	3005A			742776	BDE	EET CHI	11/17/23 09:16 - 11/17/23 09:46 ¹
Total Recoverable	Analysis	6020B		1	745793	BJH	EET CHI	12/07/23 11:20
Total/NA	Prep	7470A			743999	MJG	EET CHI	11/28/23 09:25 - 11/28/23 11:25 ¹
Total/NA	Analysis	7470A		1	744222	MJG	EET CHI	11/29/23 09:00
Total/NA	Analysis	SM 2540C		1	741768	CLB	EET CHI	11/12/23 23:26
Total/NA	Analysis	SM 4500 Cl- E		10	742389	TR	EET CHI	11/15/23 15:39
Total/NA	Analysis	SM 4500 F C		1	743238	SO	EET CHI	11/20/23 16:58
Total/NA	Analysis	SM 4500 SO4 E		10	744036	TR	EET CHI	11/28/23 11:51

Client Sample ID: MW-19

Date Collected: 11/08/23 11:20

Date Received: 11/09/23 09:45

Lab Sample ID: 500-242244-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			742776	BDE	EET CHI	11/17/23 09:16 - 11/17/23 09:46 ¹
Total Recoverable	Analysis	6020B		1	744671	RN	EET CHI	11/30/23 23:40
Total Recoverable	Prep	3005A			742776	BDE	EET CHI	11/17/23 09:16 - 11/17/23 09:46 ¹
Total Recoverable	Analysis	6020B		1	744923	RN	EET CHI	12/01/23 15:10
Total Recoverable	Prep	3005A			742776	BDE	EET CHI	11/17/23 09:16 - 11/17/23 09:46 ¹
Total Recoverable	Analysis	6020B		1	745140	RN	EET CHI	12/04/23 16:54
Total Recoverable	Prep	3005A			742776	BDE	EET CHI	11/17/23 09:16 - 11/17/23 09:46 ¹
Total Recoverable	Analysis	6020B		10	745793	BJH	EET CHI	12/07/23 11:23
Total/NA	Prep	7470A			743999	MJG	EET CHI	11/28/23 09:25 - 11/28/23 11:25 ¹
Total/NA	Analysis	7470A		1	744222	MJG	EET CHI	11/29/23 09:02
Total/NA	Analysis	SM 2540C		1	741768	CLB	EET CHI	11/12/23 23:28
Total/NA	Analysis	SM 4500 Cl- E		1	742389	TR	EET CHI	11/15/23 15:20
Total/NA	Analysis	SM 4500 F C		1	743238	SO	EET CHI	11/20/23 17:12
Total/NA	Analysis	SM 4500 SO4 E		10	744183	TR	EET CHI	11/28/23 17:11

Lab Chronicle

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR ABB/ASB

Job ID: 500-242244-1

Client Sample ID: Duplicate

Lab Sample ID: 500-242244-10

Date Collected: 11/08/23 00:00

Matrix: Water

Date Received: 11/09/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			742776	BDE	EET CHI	11/17/23 09:16 - 11/17/23 09:46 ¹
Total Recoverable	Analysis	6020B		1	744671	RN	EET CHI	11/30/23 23:44
Total Recoverable	Prep	3005A			742776	BDE	EET CHI	11/17/23 09:16 - 11/17/23 09:46 ¹
Total Recoverable	Analysis	6020B		1	744923	RN	EET CHI	12/01/23 15:13
Total Recoverable	Prep	3005A			742776	BDE	EET CHI	11/17/23 09:16 - 11/17/23 09:46 ¹
Total Recoverable	Analysis	6020B		1	745140	RN	EET CHI	12/04/23 16:57
Total Recoverable	Prep	3005A			742776	BDE	EET CHI	11/17/23 09:16 - 11/17/23 09:46 ¹
Total Recoverable	Analysis	6020B		10	745793	BJH	EET CHI	12/07/23 11:27
Total/NA	Prep	7470A			743999	MJG	EET CHI	11/28/23 09:25 - 11/28/23 11:25 ¹
Total/NA	Analysis	7470A		1	744222	MJG	EET CHI	11/29/23 09:04
Total/NA	Analysis	SM 2540C		1	741768	CLB	EET CHI	11/12/23 23:31
Total/NA	Analysis	SM 4500 Cl- E		1	742389	TR	EET CHI	11/15/23 15:21
Total/NA	Analysis	SM 4500 F C		1	743238	SO	EET CHI	11/20/23 17:17
Total/NA	Analysis	SM 4500 SO4 E		10	744183	TR	EET CHI	11/28/23 17:11

¹ This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR ABB/ASB

Job ID: 500-242244-1

Laboratory: Eurofins Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-24

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ANALYTICAL REPORT

PREPARED FOR

Attn: Richard Gnat
KPRG and Associates, Inc.
14665 West Lisbon Road,
Suite 1A
Brookfield, Wisconsin 53005

Generated 12/14/2023 4:33:38 PM

JOB DESCRIPTION

Powerton CCR ABB/ASB (RAD)

JOB NUMBER

500-242244-2

Eurofins Chicago

Job Notes

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

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

Authorization



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Authorized for release by
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Case Narrative

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR ABB/ASB (RAD)

Job ID: 500-242244-2

Job ID: 500-242244-2

Laboratory: Eurofins Chicago

Narrative

**Job Narrative
500-242244-2**

Receipt

The samples were received on 11/8/2023 9:55 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 1.0° C, 1.2° C and 1.5° C.

Receipt Exceptions

The container label for the following sample(s) did not match the information listed on the Chain-of-Custody (COC): Sample #4 COC list sample time as 1005 however all sample container labels list 1022. Logged per COC.

RAD

Method PrecSep_0: Radium-228 Prep Batch 160-636611

The following sample(s) were prepared at a reduced aliquot due to matrix. The sample 500-242244-8 was slightly cloudy. The rest of the selected samples were slightly yellow and slightly cloudy.

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

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Method Summary

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR ABB/ASB (RAD)

Job ID: 500-242244-2

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

Protocol References:

EPA = US Environmental Protection Agency

None = None

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

Laboratory References:

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

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Sample Summary

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR ABB/ASB (RAD)

Job ID: 500-242244-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-242244-1	MW-01	Water	11/07/23 15:54	11/08/23 09:55
500-242244-2	MW-08	Water	11/07/23 13:58	11/08/23 09:55
500-242244-3	MW-17	Water	11/06/23 15:33	11/08/23 09:55
500-242244-4	MW-09	Water	11/08/23 10:05	11/09/23 09:45
500-242244-5	MW-11	Water	11/08/23 12:22	11/09/23 09:45
500-242244-6	MW-12	Water	11/08/23 13:29	11/09/23 09:45
500-242244-7	MW-15	Water	11/06/23 14:21	11/09/23 09:45
500-242244-8	MW-18	Water	11/08/23 14:25	11/09/23 09:45
500-242244-9	MW-19	Water	11/08/23 11:20	11/09/23 09:45
500-242244-10	Duplicate	Water	11/08/23 00:00	11/09/23 09:45

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Client Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Powerton CCR ABB/ASB (RAD)

Job ID: 500-242244-2

Client Sample ID: MW-01

Lab Sample ID: 500-242244-1

Date Collected: 11/07/23 15:54

Matrix: Water

Date Received: 11/08/23 09:55

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.140	U	0.172	0.173	1.00	0.284	pCi/L	11/10/23 11:12	12/13/23 07:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.9		30 - 110					11/10/23 11:12	12/13/23 07:19	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.411	U	0.302	0.305	1.00	0.453	pCi/L	11/10/23 11:17	12/12/23 15:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.9		30 - 110					11/10/23 11:17	12/12/23 15:57	1
Y Carrier	83.4		30 - 110					11/10/23 11:17	12/12/23 15:57	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.552		0.348	0.351	5.00	0.453	pCi/L		12/13/23 17:13	1

Client Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Powerton CCR ABB/ASB (RAD)

Job ID: 500-242244-2

Client Sample ID: MW-08
Date Collected: 11/07/23 13:58
Date Received: 11/08/23 09:55

Lab Sample ID: 500-242244-2
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.326		0.205	0.207	1.00	0.274	pCi/L	11/10/23 11:12	12/13/23 07:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.5		30 - 110					11/10/23 11:12	12/13/23 07:19	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0599	U	0.264	0.264	1.00	0.485	pCi/L	11/10/23 11:17	12/12/23 15:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.5		30 - 110					11/10/23 11:17	12/12/23 15:57	1
Y Carrier	79.6		30 - 110					11/10/23 11:17	12/12/23 15:57	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.386	U	0.334	0.335	5.00	0.485	pCi/L		12/13/23 17:13	1

Client Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Powerton CCR ABB/ASB (RAD)

Job ID: 500-242244-2

Client Sample ID: MW-17

Lab Sample ID: 500-242244-3

Date Collected: 11/06/23 15:33

Matrix: Water

Date Received: 11/08/23 09:55

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.105	U	0.152	0.152	1.00	0.259	pCi/L	11/10/23 11:12	12/13/23 07:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.6		30 - 110					11/10/23 11:12	12/13/23 07:19	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0588	U	0.260	0.260	1.00	0.508	pCi/L	11/10/23 11:17	12/12/23 15:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.6		30 - 110					11/10/23 11:17	12/12/23 15:57	1
Y Carrier	83.0		30 - 110					11/10/23 11:17	12/12/23 15:57	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.0459	U	0.301	0.301	5.00	0.508	pCi/L		12/13/23 17:13	1

Client Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Powerton CCR ABB/ASB (RAD)

Job ID: 500-242244-2

Client Sample ID: MW-09

Lab Sample ID: 500-242244-4

Date Collected: 11/08/23 10:05

Matrix: Water

Date Received: 11/09/23 09:45

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0107	U	0.150	0.150	1.00	0.296	pCi/L	11/13/23 11:45	12/13/23 14:07	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.4		30 - 110					11/13/23 11:45	12/13/23 14:07	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0923	U	0.308	0.308	1.00	0.552	pCi/L	11/13/23 11:48	12/12/23 16:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.4		30 - 110					11/13/23 11:48	12/12/23 16:09	1
Y Carrier	78.1		30 - 110					11/13/23 11:48	12/12/23 16:09	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.103	U	0.343	0.343	5.00	0.552	pCi/L		12/13/23 17:13	1

Client Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Powerton CCR ABB/ASB (RAD)

Job ID: 500-242244-2

Client Sample ID: MW-11

Lab Sample ID: 500-242244-5

Date Collected: 11/08/23 12:22

Matrix: Water

Date Received: 11/09/23 09:45

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.303		0.173	0.175	1.00	0.218	pCi/L	11/13/23 11:45	12/13/23 14:07	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	102		30 - 110					11/13/23 11:45	12/13/23 14:07	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.531	U	0.389	0.392	1.00	0.596	pCi/L	11/13/23 11:48	12/12/23 16:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	102		30 - 110					11/13/23 11:48	12/12/23 16:10	1
Y Carrier	74.4		30 - 110					11/13/23 11:48	12/12/23 16:10	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.834		0.426	0.429	5.00	0.596	pCi/L		12/13/23 17:13	1

Client Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Powerton CCR ABB/ASB (RAD)

Job ID: 500-242244-2

Client Sample ID: MW-12
Date Collected: 11/08/23 13:29
Date Received: 11/09/23 09:45

Lab Sample ID: 500-242244-6
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.142	U	0.166	0.167	1.00	0.272	pCi/L	11/13/23 11:45	12/13/23 14:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.5		30 - 110					11/13/23 11:45	12/13/23 14:06	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.335	U	0.316	0.317	1.00	0.504	pCi/L	11/13/23 11:48	12/12/23 16:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.5		30 - 110					11/13/23 11:48	12/12/23 16:10	1
Y Carrier	85.6		30 - 110					11/13/23 11:48	12/12/23 16:10	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.477	U	0.357	0.358	5.00	0.504	pCi/L		12/13/23 17:13	1

Client Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Powerton CCR ABB/ASB (RAD)

Job ID: 500-242244-2

Client Sample ID: MW-15

Lab Sample ID: 500-242244-7

Date Collected: 11/06/23 14:21

Matrix: Water

Date Received: 11/09/23 09:45

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.193	U	0.204	0.204	1.00	0.328	pCi/L	11/13/23 11:45	12/13/23 14:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.3		30 - 110					11/13/23 11:45	12/13/23 14:06	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.537		0.325	0.329	1.00	0.471	pCi/L	11/13/23 11:48	12/12/23 16:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.3		30 - 110					11/13/23 11:48	12/12/23 16:10	1
Y Carrier	89.3		30 - 110					11/13/23 11:48	12/12/23 16:10	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.729		0.384	0.387	5.00	0.471	pCi/L		12/13/23 17:13	1

Client Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Powerton CCR ABB/ASB (RAD)

Job ID: 500-242244-2

Client Sample ID: MW-18
Date Collected: 11/08/23 14:25
Date Received: 11/09/23 09:45

Lab Sample ID: 500-242244-8
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0592	U	0.264	0.264	1.00	0.491	pCi/L	11/13/23 11:45	12/13/23 14:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.8		30 - 110					11/13/23 11:45	12/13/23 14:06	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.801	U	0.585	0.589	1.00	0.896	pCi/L	11/13/23 11:48	12/12/23 16:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.8		30 - 110					11/13/23 11:48	12/12/23 16:10	1
Y Carrier	78.5		30 - 110					11/13/23 11:48	12/12/23 16:10	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.861	U	0.642	0.645	5.00	0.896	pCi/L		12/13/23 17:13	1

Client Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Powerton CCR ABB/ASB (RAD)

Job ID: 500-242244-2

Client Sample ID: MW-19

Lab Sample ID: 500-242244-9

Date Collected: 11/08/23 11:20

Matrix: Water

Date Received: 11/09/23 09:45

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.166	U	0.161	0.162	1.00	0.253	pCi/L	11/13/23 11:45	12/13/23 14:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	103		30 - 110					11/13/23 11:45	12/13/23 14:11	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0663	U	0.261	0.261	1.00	0.477	pCi/L	11/13/23 11:48	12/12/23 16:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	103		30 - 110					11/13/23 11:48	12/12/23 16:10	1
Y Carrier	79.6		30 - 110					11/13/23 11:48	12/12/23 16:10	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.232	U	0.307	0.307	5.00	0.477	pCi/L		12/13/23 17:13	1

Client Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Powerton CCR ABB/ASB (RAD)

Job ID: 500-242244-2

Client Sample ID: Duplicate

Lab Sample ID: 500-242244-10

Date Collected: 11/08/23 00:00

Matrix: Water

Date Received: 11/09/23 09:45

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0874	U	0.146	0.146	1.00	0.254	pCi/L	11/13/23 11:45	12/13/23 14:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.1		30 - 110					11/13/23 11:45	12/13/23 14:12	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.239	U	0.348	0.348	1.00	0.587	pCi/L	11/13/23 11:48	12/12/23 16:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.1		30 - 110					11/13/23 11:48	12/12/23 16:10	1
Y Carrier	74.8		30 - 110					11/13/23 11:48	12/12/23 16:10	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.326	U	0.377	0.377	5.00	0.587	pCi/L		12/13/23 17:13	1

Definitions/Glossary

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR ABB/ASB (RAD)

Job ID: 500-242244-2

Qualifiers

Rad

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

Glossary

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

QC Association Summary

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR ABB/ASB (RAD)

Job ID: 500-242244-2

Rad

Prep Batch: 636342

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-242244-1	MW-01	Total/NA	Water	PrecSep-21	
500-242244-2	MW-08	Total/NA	Water	PrecSep-21	
500-242244-3	MW-17	Total/NA	Water	PrecSep-21	
MB 160-636342/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-636342/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 636343

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-242244-1	MW-01	Total/NA	Water	PrecSep_0	
500-242244-2	MW-08	Total/NA	Water	PrecSep_0	
500-242244-3	MW-17	Total/NA	Water	PrecSep_0	
MB 160-636343/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-636343/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Prep Batch: 636610

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-242244-4	MW-09	Total/NA	Water	PrecSep-21	
500-242244-5	MW-11	Total/NA	Water	PrecSep-21	
500-242244-6	MW-12	Total/NA	Water	PrecSep-21	
500-242244-7	MW-15	Total/NA	Water	PrecSep-21	
500-242244-8	MW-18	Total/NA	Water	PrecSep-21	
500-242244-9	MW-19	Total/NA	Water	PrecSep-21	
500-242244-10	Duplicate	Total/NA	Water	PrecSep-21	
MB 160-636610/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-636610/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-242244-10 DU	Duplicate	Total/NA	Water	PrecSep-21	

Prep Batch: 636611

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-242244-4	MW-09	Total/NA	Water	PrecSep_0	
500-242244-5	MW-11	Total/NA	Water	PrecSep_0	
500-242244-6	MW-12	Total/NA	Water	PrecSep_0	
500-242244-7	MW-15	Total/NA	Water	PrecSep_0	
500-242244-8	MW-18	Total/NA	Water	PrecSep_0	
500-242244-9	MW-19	Total/NA	Water	PrecSep_0	
500-242244-10	Duplicate	Total/NA	Water	PrecSep_0	
MB 160-636611/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-636611/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-242244-10 DU	Duplicate	Total/NA	Water	PrecSep_0	

QC Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR ABB/ASB (RAD)

Job ID: 500-242244-2

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-636342/1-A
Matrix: Water
Analysis Batch: 640457

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 636342

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.03171	U	0.125	0.125	1.00	0.242	pCi/L	11/10/23 11:12	12/13/23 07:10	1
Carrier	MB %Yield	MB Qualifier	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	105		30 - 110		11/10/23 11:12	12/13/23 07:10	1			

Lab Sample ID: LCS 160-636342/2-A
Matrix: Water
Analysis Batch: 640457

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 636342

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec
				Uncert. (2σ+/-)					Limits
Radium-226	11.3	9.362		1.18	1.00	0.253	pCi/L	83	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	95.9		30 - 110						

Lab Sample ID: MB 160-636610/1-A
Matrix: Water
Analysis Batch: 640620

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 636610

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.07692	U	0.109	0.109	1.00	0.184	pCi/L	11/13/23 11:45	12/13/23 09:22	1
Carrier	MB %Yield	MB Qualifier	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	100		30 - 110		11/13/23 11:45	12/13/23 09:22	1			

Lab Sample ID: LCS 160-636610/2-A
Matrix: Water
Analysis Batch: 640620

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 636610

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec
				Uncert. (2σ+/-)					Limits
Radium-226	11.3	9.798		1.21	1.00	0.270	pCi/L	86	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	96.1		30 - 110						

Lab Sample ID: 500-242244-10 DU
Matrix: Water
Analysis Batch: 640620

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 636610

Analyte	Sample	Sample	DU	DU	Total	RL	MDC	Unit	RER	RER
	Result	Qual	Result	Qual	Uncert. (2σ+/-)					Limit
Radium-226	0.0874	U	0.08783	U	0.125	1.00	0.212	pCi/L	0	1

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QC Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR ABB/ASB (RAD)

Job ID: 500-242244-2

Method: 903.0 - Radium-226 (GFPC) (Continued)

Lab Sample ID: 500-242244-10 DU
Matrix: Water
Analysis Batch: 640620

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 636610

	DU	DU	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	102		30 - 110

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-636343/1-A
Matrix: Water
Analysis Batch: 640274

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 636343

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.2391	U	0.287	0.288	1.00	0.475	pCi/L	11/10/23 11:17	12/12/23 15:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	105		30 - 110					11/10/23 11:17	12/12/23 15:54	1
Y Carrier	82.2		30 - 110					11/10/23 11:17	12/12/23 15:54	1

Lab Sample ID: LCS 160-636343/2-A
Matrix: Water
Analysis Batch: 640274

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 636343

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec
				Uncert. (2σ+/-)					Limits
Radium-228	7.65	7.151		1.05	1.00	0.474	pCi/L	93	75 - 125
Carrier	%Yield	Qualifier	Limits						
Ba Carrier	95.9		30 - 110						
Y Carrier	83.0		30 - 110						

Lab Sample ID: MB 160-636611/1-A
Matrix: Water
Analysis Batch: 640405

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 636611

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.4194	U	0.293	0.295	1.00	0.434	pCi/L	11/13/23 11:48	12/12/23 16:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	100		30 - 110					11/13/23 11:48	12/12/23 16:10	1
Y Carrier	83.7		30 - 110					11/13/23 11:48	12/12/23 16:10	1

Lab Sample ID: LCS 160-636611/2-A
Matrix: Water
Analysis Batch: 640405

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 636611

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec
				Uncert. (2σ+/-)					Limits
Radium-228	7.65	7.325		1.09	1.00	0.470	pCi/L	96	75 - 125

Eurofins Chicago

QC Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Powerton CCR ABB/ASB (RAD)

Job ID: 500-242244-2

Method: 904.0 - Radium-228 (GFPC) (Continued)

Lab Sample ID: LCS 160-636611/2-A
Matrix: Water
Analysis Batch: 640405

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 636611

Carrier	LCS	LCS	Limits
	%Yield	Qualifier	
Ba Carrier	96.1		30 - 110
Y Carrier	78.9		30 - 110

Lab Sample ID: 500-242244-10 DU
Matrix: Water
Analysis Batch: 640404

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 636611

Analyte	Sample		DU		Total	RL	MDC	Unit	RER	Limit
	Result	Qual	Result	Qual	Uncert. (2σ+/-)					
Radium-228	0.239	U	0.2284	U	0.336	1.00	0.565	pCi/L	0.02	1

Carrier	DU	DU	Limits
	%Yield	Qualifier	
Ba Carrier	102		30 - 110
Y Carrier	80.0		30 - 110

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Eurofins Chicago

2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

Client Information		Sampler: <u>Jack Micner</u>		Lab PM: Mockler, Diana J		Carrier Tracking No(s)		COC No: 500-114457-46458 1			
Client Contact: Kaelyn Sperle		Phone: <u>262-622-1143</u>		E Mail: Diana Mockler@et eurofinsus.com		State of Origin: <u>IL</u>		Page: Page 1 of 1			
Company: KPRG and Associates, Inc				PWSID:				Analysis Requested: <u>500-242244</u>			
Address: 14665 West Lisbon Road, Suite 1A		Due Date Requested:		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		Preservation Codes			
City: Brookfield		TAT Requested (days): <u>standard</u>		903.0, 904.0		6020A, 7470A		M - Hexane N - None O - AsNaO2 C - Zn Acetate P - Na2O4S Q - Na2SO3 D - Nitric Acid R - Na2S2O3 E - NaHSO4 S - H2SO4 F - MeOH G - Amchlor T - TSP Dodecahydrate H - Ascorbic Acid U - Acetone I - Ice V - MCAA J - DI Water W - pH 4-5 K - EDTA Y - Trizma L - EDA Z - other (specify)			
State Zip: WI, 53005		Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		2540C, 4500_F_C, SM4500_CL_E		SM4500_SO4_E - Sulfate		Other:			
Phone: 262-781-0475(Tel) 500-242244 COC		PO #: 4502125100		Total Number of containers							
Email: kaelyns@kprginc.com		WO #:									
Project Name: Powerton CCR Event Desc: Quarterly Powerton CCR Sampling		Project #: 50011612									
Site: Illinois <u>ABB/ASB</u>		SSOW#:									
Sample Identification		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue A=Air)			
								Special Instructions/Note:			
1 MW-01		11/7/23		1554		G		Water			
2 MW-08		11/7/23		1358		G		Water			
MW-09								Water			
MW-11								Water			
MW-12								Water			
MW-15								Water			
3 MW-17		11/6/23		1533		G		Water			
MW-18								Water			
MW-19								Water			
								Water			
								Water			
Possible Hazard Identification					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)						
<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological					<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months						
Deliverable Requested I, II, III, IV, Other (specify)					Special Instructions/QC Requirements						
Empty Kit Relinquished by			Date		Time		Method of Shipment				
Relinquished by: <u>John Zinner</u>			Date/Time: <u>11/7/23 1800</u>		Company: <u>KPRG</u>		Received by: <u>[Signature]</u>				
Relinquished by:			Date/Time:		Company:		Received by:				
Relinquished by:			Date/Time:		Company:		Received by:				
Custody Seals Intact. <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks: <u>1.671.5</u>							


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Chain of Custody Record

MKE 232

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Client Information		Sampler: Jack Misner		Lab PM: Mockler, Diana J		Carrier Tracking No(s):		COC No: 500-114460-47169 1				
Client Contact: Kaelyn Sperle		Phone: 262-622-1143		E-Mail: Diana Mockler@et eurofinsus.com		State of Origin:		Page: Page 1 of 1				
Company: KPRG and Associates, Inc.		PWSID:		Analysis Request				Job #: 500-242244				
Address: 14665 West Lisbon Road, Suite 1A		Due Date Requested:		 500-242244 COC				Preservation Codes: A HCL M Hexane B NaOH N None C Zn Acetate O AsNaO2 D Nitric Acid P Na2O4S E NaHSO4 Q Na2SO3 F - MeOH R Na2S2O3 G Amchlor S H2SO4 H Ascorbic Acid T TSP Dodecahydrate I Ice U Acetone J DI Water V - MCAA K - EDTA W pH 4-5 L - EDA Y Trizma Z other (specify)				
City: Brookfield		TAT Requested (days): Standard										
State Zip: WI, 53005		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No										
Phone: 262-781-0475(Tel)		PO #: 4502125100										
Email: kaelyns@kprginc.com		WO #:										
Project Name: ABB/ASB Event Desc: Quarterly Powerton CCR Sampling		Project #: 50011612		Field Filtered Sample (Yes or No):		Perform MS/MSD (Yes or No):		Total Number of Containers:				
Site: Illinois		SSOW#:		903.0, 904.0		9010C, 6020A, 7470A		2540C, 4500_F_C, SMA500_CL_E, SMA500_SO4_E				
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/soil, BT=tissue, A=Air)					Special Instructions/Note:		
				Preservation Code:		D D N N						
MW-04				Water								
MW-06				Water								
4 MW-09		11/8/23	1005	G	Water	N	N	X	X	X	X	7
5 MW-11		11/8/23	1222		Water	N	N	X	X	X	X	7
6 MW-12		11/8/23	1329		Water	N	N	X	X	X	X	7
7 MW-15		11/6/23	1421		Water	N	N	X	X	X	X	7
MW-17				Water								
8 MW-18		11/8/23	1425		Water	N	N	X	X	X	X	7
9 MW-19		11/8/23	1120		Water	N	N	X	X	X	X	7
10 Duplicate		11/8/23	-	G	Water	N	N	X	X	X	X	7
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)						
<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological						<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months						
Deliverable Requested I, II, III, IV Other (specify)						Special Instructions/QC Requirements.						
Empty Kit Relinquished by			Date		Time		Method of Shipment:					
Relinquished by: <i>Jack Misner</i>			Date/Time: 11/8/23 1715		Company: KPRG		Received by: <i>Stephanie Hammond</i>		Date/Time: 11/9/23 1945		Company: <i>EIA</i>	
Relinquished by:			Date/Time:		Company:		Received by:		Date/Time:		Company:	
Relinquished by:			Date/Time:		Company:		Received by:		Date/Time:		Company:	
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks: 1.3+1.2, 1.1+1.0								

ORIGIN ID:PIAA (262) 622-1143
KAELYN SPERLE
KPRG AND ASSOCIATES
414 PLAZA DR STE 106

SHIP DATE: 07NOV23
ACTWGT: 52.50 LB
CAD: 6994780/SSFE2460
DIMS: 27x14x14 IN

WESTMONT, IL 60559
UNITED STATES US

BILL THIRD PARTY

Part # 156287-4386-44083-5E86505/24

TO EUROFINS

2417 BOND ST.



UNIVERSITY PARK IL 60484

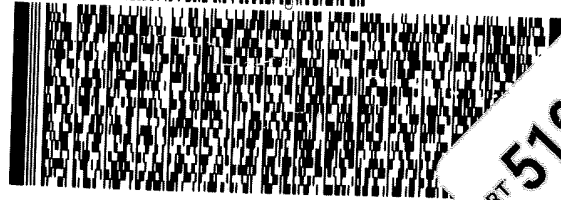
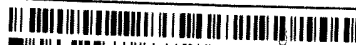
500-242244 Waybi

(555) 555-5555

REF:

INV:

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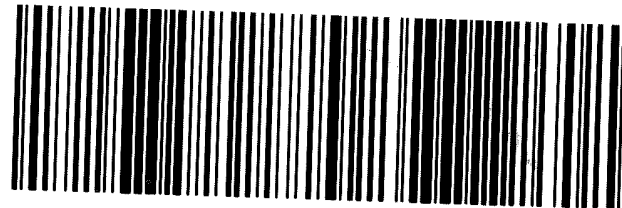
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WED - NOV 10:30A
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ORIGIN ID:PIAA (262) 622-1143
JACK MISNER
KPRG AND ASSOCIATES
414 PLAZA DR STE 106

SHIP DATE: 08NOV23
ACTWGT: 72.50 LB
CAD: 6994780/SSFE2460
DIMS: 25x14x14 IN

WESTMONT, IL 60559
UNITED STATES US

BILL THIRD PARTY

TO EUROFINS

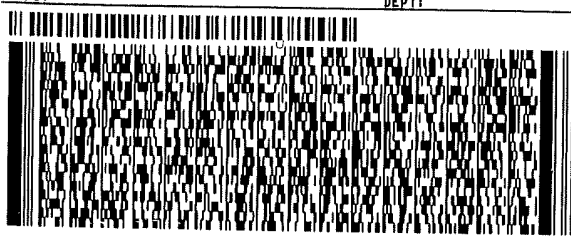
2417 BOND ST.

UNIVERSITY PARK IL 60484

(555) 555-5555
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2 of 4
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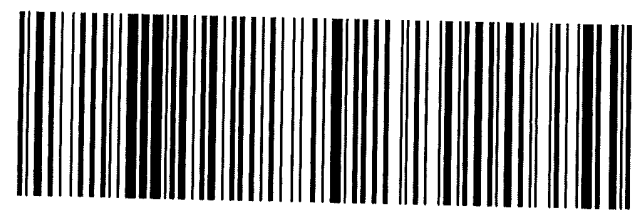
THU - 09 NOV 10:30A
PRIORITY OVERNIGHT

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IL-US ORD



Part # 156297 4895-78025-8389 05/24

ORIGIN ID:PIAA (262) 622-1143
JACK MISNER
KPRG AND ASSOCIATES
414 PLAZA DR STE 106

SHIP DATE: 08NOV23
ACTWGT: 72.50 LB
CAD: 6994780/SSFE2460
DIMS: 25x14x14 IN

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UNITED STATES US

BILL THIRD PARTY

TO EUROFINS

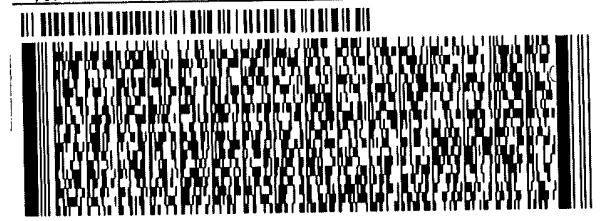
2417 BOND ST.

UNIVERSITY PARK IL 60484

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DEPT:



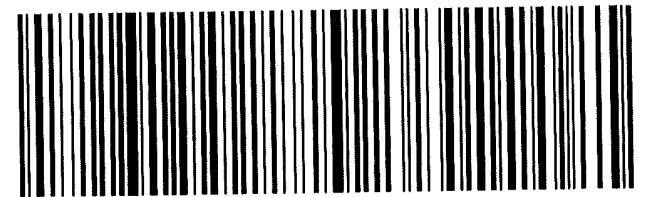
1 of 4
TRK# 7861 2528 2956
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PRIORITY OVERNIGHT

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Part # 156297 4895-78025-8389 05/24

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Eurofins Chicago
 2417 Bond Street
 University Park, IL 60484
 Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record



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Environment Testing

Client Information (Sub Contract Lab)		Sampler: Lab PM: Mockler, Diana J		Carrier Tracking No(s): COC No: 500-181266-1	
Client Contact: Shipping/Receiving		E-Mail: Diana.Mockler@eurofins.com		Page: Page 1 of 1	
Company: TestAmerica Laboratories, Inc.		Address: 13715 Rider Trail North, Earth City, MO, 63045		Job #: 500-242244-2	
Address: 13715 Rider Trail North, Earth City, MO, 63045		Phone: 314-298-8566 (Tel) 314-298-8757 (Fax)		Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - PH 4-5 X - Trizma L - EDA Z - other (specify) Other:	
Project Name: Powerlon CCR		Project #: 50011612			
Site: MWG - Powerlon		SSOW#:		Analysis Requested	
Due Date Requested: 12/11/2023		TAT Requested (days):		Total Number of Containers	
PO #:		WO #:			
Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)			
903.0/PreSep_21 Standard Target List		904.0/PreSep_0 Standard Target List			
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastewater, BT=tissue, ALU)	Special Instructions/Note: 3 Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMs 3 Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMs 3 Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMs
MW-01 (500-242244-1)	11/7/23	15:54 Central	Water	Water	
MW-08 (500-242244-2)	11/7/23	13:58 Central	Water	Water	
MW-17 (500-242244-3)	11/7/23	15:33 Central	Water	Water	
<p>Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/testing/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.</p>					
Possible Hazard Identification					
<input type="checkbox"/> Unconfirmed <input type="checkbox"/> Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2 <input type="checkbox"/> Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Special Instructions/QC Requirements:					
Empty Kit Relinquished by: _____ Date: _____ Time: _____ Method of Shipment: _____					
Relinquished by: <i>[Signature]</i>		Received by: FED EX Company: _____ Date/Time: NOV 09 2023 09:00			
Relinquished by: <i>[Signature]</i>		Received by: FED EX Company: _____ Date/Time: _____			
Relinquished by: _____		Received by: _____ Company: _____ Date/Time: _____			
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No Cooler Temperature(s) °C and Other Remarks: _____					

Chain of Custody Record



Client Information (Sub Contract Lab)		Lab PW:	Carrier Tracking No(s):	COC No:						
Client Contact: Shipping/Receiving		Mockler, Diana J		500-181331.1						
Company: TestAmerica Laboratories, Inc.		E-Mail: Diana.Mockler@et.eurofins.com	State of Origin: Illinois	Page: Page 1 of 1						
Address: 13715 Rider Trail North, Earth City, MO, 63045		Accreditations Required (See note): NELAP - Illinois								
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		Job #: 500-242244-2								
Email:		Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma L - EDA Z - other (specify) Other:								
Due Date Requested: 12/14/2023		Analysis Requested								
TAT Requested (days):		Total Number of Containers								
PO #		Field Filtered Sample (Yes or No)								
WO #		Perform MS/MSD (Yes or No)								
Project #		903.0/PrecSep_21 Standard Target List								
SSOW#		904.0/PrecSep_0 Standard Target List								
		Ra226Ra228_GFPc								
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, Sw=Soil, O=water/Oil, BT=Tissue, A=Air)	Preservation Code:	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PrecSep_21 Standard Target List	904.0/PrecSep_0 Standard Target List	Special Instructions/Note:
MW-09 (500-242244-4)	11/8/23	10:05 Central		Water		X	X	X	X	Full QC needed (dups. etc) Batch QC must be performed (dup. spikes, etc) - no NCMs
MW-11 (500-242244-5)	11/8/23	12:22 Central		Water		X	X	X	X	Full QC needed (dups. etc) Batch QC must be performed (dup. spikes, etc) - no NCMs
MW-12 (500-242244-6)	11/8/23	13:29 Central		Water		X	X	X	X	Full QC needed (dups. etc) Batch QC must be performed (dup. spikes, etc) - no NCMs
MW-15 (500-242244-7)	11/6/23	14:21 Central		Water		X	X	X	X	Full QC needed (dups. etc) Batch QC must be performed (dup. spikes, etc) - no NCMs
MW-18 (500-242244-8)	11/8/23	14:25 Central		Water		X	X	X	X	Full QC needed (dups. etc) Batch QC must be performed (dup. spikes, etc) - no NCMs
MW-19 (500-242244-9)	11/8/23	11:20 Central		Water		X	X	X	X	Full QC needed (dups. etc) Batch QC must be performed (dup. spikes, etc) - no NCMs
Duplicate (500-242244-10)	11/8/23	Central		Water		X	X	X	X	Full QC needed (dups. etc) Batch QC must be performed (dup. spikes, etc) - no NCMs

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyze & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification
 Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2
 Return To Client Disposal By Lab Archive For Months

Empty Kit Relinquished by: *[Signature]* Date: 11-9-23 1600
 Relinquished by: *[Signature]* Date: 11-9-23 1600
 Relinquished by: *[Signature]* Date: 11-9-23 1600
 Relinquished by: *[Signature]* Date: 11-9-23 1600
 Custody Seals Intact: Yes No
 Cooler Temperature(s) °C and Other Remarks:

Received by: *[Signature]* Company: *[Signature]*
 Received by: *[Signature]* Company: *[Signature]*
 Received by: *[Signature]* Company: *[Signature]*
 Date/Time: NOV 10 2023 08:40
 Date/Time: *[Signature]*
 Date/Time: *[Signature]*
 Date/Time: *[Signature]*
 Method of Shipment: *[Signature]*
 Date/Time: *[Signature]*
 Date/Time: *[Signature]*
 Date/Time: *[Signature]*

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-242244-2

Login Number: 242244

List Number: 1

Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.5,1.2,1.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-242244-2

Login Number: 242244

List Number: 2

Creator: Pinette, Meadow L

List Source: Eurofins St. Louis

List Creation: 11/09/23 03:38 PM

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

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-242244-2

Login Number: 242244

List Number: 3

Creator: Pinette, Meadow L

List Source: Eurofins St. Louis

List Creation: 11/10/23 02:28 PM

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

Lab Chronicle

Client: KPRG and Associates, Inc.
 Project/Site: Powerton CCR ABB/ASB (RAD)

Job ID: 500-242244-2

Client Sample ID: MW-01
Date Collected: 11/07/23 15:54
Date Received: 11/08/23 09:55

Lab Sample ID: 500-242244-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			636342	KAC	EET SL	11/10/23 11:12
Total/NA	Analysis	903.0		1	640618	FLC	EET SL	12/13/23 07:19
Total/NA	Prep	PrecSep_0			636343	KAC	EET SL	11/10/23 11:17
Total/NA	Analysis	904.0		1	640274	FLC	EET SL	12/12/23 15:57
Total/NA	Analysis	Ra226_Ra228		1	640269	SCB	EET SL	12/13/23 17:13

Client Sample ID: MW-08
Date Collected: 11/07/23 13:58
Date Received: 11/08/23 09:55

Lab Sample ID: 500-242244-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			636342	KAC	EET SL	11/10/23 11:12
Total/NA	Analysis	903.0		1	640618	FLC	EET SL	12/13/23 07:19
Total/NA	Prep	PrecSep_0			636343	KAC	EET SL	11/10/23 11:17
Total/NA	Analysis	904.0		1	640274	FLC	EET SL	12/12/23 15:57
Total/NA	Analysis	Ra226_Ra228		1	640269	SCB	EET SL	12/13/23 17:13

Client Sample ID: MW-17
Date Collected: 11/06/23 15:33
Date Received: 11/08/23 09:55

Lab Sample ID: 500-242244-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			636342	KAC	EET SL	11/10/23 11:12
Total/NA	Analysis	903.0		1	640618	FLC	EET SL	12/13/23 07:19
Total/NA	Prep	PrecSep_0			636343	KAC	EET SL	11/10/23 11:17
Total/NA	Analysis	904.0		1	640274	FLC	EET SL	12/12/23 15:57
Total/NA	Analysis	Ra226_Ra228		1	640269	SCB	EET SL	12/13/23 17:13

Client Sample ID: MW-09
Date Collected: 11/08/23 10:05
Date Received: 11/09/23 09:45

Lab Sample ID: 500-242244-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			636610	KAC	EET SL	11/13/23 11:45
Total/NA	Analysis	903.0		1	640618	FLC	EET SL	12/13/23 14:07
Total/NA	Prep	PrecSep_0			636611	KAC	EET SL	11/13/23 11:48
Total/NA	Analysis	904.0		1	640404	FLC	EET SL	12/12/23 16:09
Total/NA	Analysis	Ra226_Ra228		1	640269	SCB	EET SL	12/13/23 17:13

Lab Chronicle

Client: KPRG and Associates, Inc.
 Project/Site: Powerton CCR ABB/ASB (RAD)

Job ID: 500-242244-2

Client Sample ID: MW-11
Date Collected: 11/08/23 12:22
Date Received: 11/09/23 09:45

Lab Sample ID: 500-242244-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			636610	KAC	EET SL	11/13/23 11:45
Total/NA	Analysis	903.0		1	640618	FLC	EET SL	12/13/23 14:07
Total/NA	Prep	PrecSep_0			636611	KAC	EET SL	11/13/23 11:48
Total/NA	Analysis	904.0		1	640404	FLC	EET SL	12/12/23 16:10
Total/NA	Analysis	Ra226_Ra228		1	640269	SCB	EET SL	12/13/23 17:13

Client Sample ID: MW-12
Date Collected: 11/08/23 13:29
Date Received: 11/09/23 09:45

Lab Sample ID: 500-242244-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			636610	KAC	EET SL	11/13/23 11:45
Total/NA	Analysis	903.0		1	640618	FLC	EET SL	12/13/23 14:06
Total/NA	Prep	PrecSep_0			636611	KAC	EET SL	11/13/23 11:48
Total/NA	Analysis	904.0		1	640404	FLC	EET SL	12/12/23 16:10
Total/NA	Analysis	Ra226_Ra228		1	640269	SCB	EET SL	12/13/23 17:13

Client Sample ID: MW-15
Date Collected: 11/06/23 14:21
Date Received: 11/09/23 09:45

Lab Sample ID: 500-242244-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			636610	KAC	EET SL	11/13/23 11:45
Total/NA	Analysis	903.0		1	640618	FLC	EET SL	12/13/23 14:06
Total/NA	Prep	PrecSep_0			636611	KAC	EET SL	11/13/23 11:48
Total/NA	Analysis	904.0		1	640404	FLC	EET SL	12/12/23 16:10
Total/NA	Analysis	Ra226_Ra228		1	640269	SCB	EET SL	12/13/23 17:13

Client Sample ID: MW-18
Date Collected: 11/08/23 14:25
Date Received: 11/09/23 09:45

Lab Sample ID: 500-242244-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			636610	KAC	EET SL	11/13/23 11:45
Total/NA	Analysis	903.0		1	640618	FLC	EET SL	12/13/23 14:06
Total/NA	Prep	PrecSep_0			636611	KAC	EET SL	11/13/23 11:48
Total/NA	Analysis	904.0		1	640404	FLC	EET SL	12/12/23 16:10
Total/NA	Analysis	Ra226_Ra228		1	640269	SCB	EET SL	12/13/23 17:13

Lab Chronicle

Client: KPRG and Associates, Inc.
 Project/Site: Powerton CCR ABB/ASB (RAD)

Job ID: 500-242244-2

Client Sample ID: MW-19

Lab Sample ID: 500-242244-9

Date Collected: 11/08/23 11:20

Matrix: Water

Date Received: 11/09/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			636610	KAC	EET SL	11/13/23 11:45
Total/NA	Analysis	903.0		1	640620	FLC	EET SL	12/13/23 14:11
Total/NA	Prep	PrecSep_0			636611	KAC	EET SL	11/13/23 11:48
Total/NA	Analysis	904.0		1	640404	FLC	EET SL	12/12/23 16:10
Total/NA	Analysis	Ra226_Ra228		1	640269	SCB	EET SL	12/13/23 17:13

Client Sample ID: Duplicate

Lab Sample ID: 500-242244-10

Date Collected: 11/08/23 00:00

Matrix: Water

Date Received: 11/09/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			636610	KAC	EET SL	11/13/23 11:45
Total/NA	Analysis	903.0		1	640620	FLC	EET SL	12/13/23 14:12
Total/NA	Prep	PrecSep_0			636611	KAC	EET SL	11/13/23 11:48
Total/NA	Analysis	904.0		1	640404	FLC	EET SL	12/12/23 16:10
Total/NA	Analysis	Ra226_Ra228		1	640269	SCB	EET SL	12/13/23 17:13

Laboratory References:

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

Accreditation/Certification Summary

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR ABB/ASB (RAD)

Job ID: 500-242244-2

Laboratory: Eurofins St. Louis

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	200023	11-30-24

- 1
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Tracer/Carrier Summary

Client: KPRG and Associates, Inc.
 Project/Site: Powerton CCR ABB/ASB (RAD)

Job ID: 500-242244-2

Method: 903.0 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (30-110)	
500-242244-1	MW-01	94.9	
500-242244-2	MW-08	92.5	
500-242244-3	MW-17	95.6	
500-242244-4	MW-09	96.4	
500-242244-5	MW-11	102	
500-242244-6	MW-12	99.5	
500-242244-7	MW-15	94.3	
500-242244-8	MW-18	84.8	
500-242244-9	MW-19	103	
500-242244-10	Duplicate	96.1	
500-242244-10 DU	Duplicate	102	
LCS 160-636342/2-A	Lab Control Sample	95.9	
LCS 160-636610/2-A	Lab Control Sample	96.1	
MB 160-636342/1-A	Method Blank	105	
MB 160-636610/1-A	Method Blank	100	

Tracer/Carrier Legend
 Ba = Ba Carrier

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (30-110)	Y (30-110)
500-242244-1	MW-01	94.9	83.4
500-242244-2	MW-08	92.5	79.6
500-242244-3	MW-17	95.6	83.0
500-242244-4	MW-09	96.4	78.1
500-242244-5	MW-11	102	74.4
500-242244-6	MW-12	99.5	85.6
500-242244-7	MW-15	94.3	89.3
500-242244-8	MW-18	84.8	78.5
500-242244-9	MW-19	103	79.6
500-242244-10	Duplicate	96.1	74.8
500-242244-10 DU	Duplicate	102	80.0
LCS 160-636343/2-A	Lab Control Sample	95.9	83.0
LCS 160-636611/2-A	Lab Control Sample	96.1	78.9
MB 160-636343/1-A	Method Blank	105	82.2
MB 160-636611/1-A	Method Blank	100	83.7

Tracer/Carrier Legend
 Ba = Ba Carrier
 Y = Y Carrier



ANALYTICAL REPORT

PREPARED FOR

Attn: Richard Gnat
KPRG and Associates, Inc.
14665 West Lisbon Road,
Suite 1A
Brookfield, Wisconsin 53005

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JOB DESCRIPTION

Powerton CCR ABB/ASB Re-samples

JOB NUMBER

500-244356-1

Eurofins Chicago

Job Notes

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Authorization



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Case Narrative

Client: KPRG and Associates, Inc.
Project: Powerton CCR ABB/ASB Re-samples

Job ID: 500-244356-1

Job ID: 500-244356-1

Eurofins Chicago

Job Narrative 500-244356-1

Receipt

The samples were received on 12/22/2023 3:08 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.2° C.

Metals

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

General Chemistry

Method SM 4500 SO4 E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 500-749144 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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



Method Summary

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR ABB/ASB Re-samples

Job ID: 500-244356-1

Method	Method Description	Protocol	Laboratory
6020B	Metals (ICP/MS)	SW846	EET CHI
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET CHI
SM 4500 F C	Fluoride	SM	EET CHI
SM 4500 SO4 E	Sulfate, Total	SM	EET CHI
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CHI

Protocol References:

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

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

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200



Sample Summary

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR ABB/ASB Re-samples

Job ID: 500-244356-1

<u>Lab Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Collected</u>	<u>Received</u>
500-244356-1	MW-08	Water	12/22/23 11:25	12/22/23 15:08
500-244356-2	MW-12	Water	12/22/23 11:00	12/22/23 15:08
500-244356-3	MW-10	Water	12/22/23 10:19	12/22/23 15:08

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Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR ABB/ASB Re-samples

Job ID: 500-244356-1

Client Sample ID: MW-08
Date Collected: 12/22/23 11:25
Date Received: 12/22/23 15:08

Lab Sample ID: 500-244356-1
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	710		10		mg/L			12/27/23 01:28	1

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

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR ABB/ASB Re-samples

Job ID: 500-244356-1

Client Sample ID: MW-12
Date Collected: 12/22/23 11:00
Date Received: 12/22/23 15:08

Lab Sample ID: 500-244356-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.023		0.0010		mg/L		01/05/24 09:05	01/05/24 19:44	1

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

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR ABB/ASB Re-samples

Job ID: 500-244356-1

Client Sample ID: MW-10
Date Collected: 12/22/23 10:19
Date Received: 12/22/23 15:08

Lab Sample ID: 500-244356-3
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	610		10		mg/L			12/27/23 01:31	1
Fluoride (SM 4500 F C)	0.30		0.10		mg/L			01/03/24 12:20	1
Sulfate (SM 4500 SO4 E)	120		50		mg/L			01/04/24 13:01	10

Definitions/Glossary

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR ABB/ASB Re-samples

Job ID: 500-244356-1

Qualifiers

General Chemistry

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

Glossary

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

QC Association Summary

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR ABB/ASB Re-samples

Job ID: 500-244356-1

Metals

Prep Batch: 749242

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-244356-2	MW-12	Total Recoverable	Water	3005A	
MB 500-749242/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-749242/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
500-244356-2 MS	MW-12	Total Recoverable	Water	3005A	
500-244356-2 MSD	MW-12	Total Recoverable	Water	3005A	
500-244356-2 DU	MW-12	Total Recoverable	Water	3005A	

Analysis Batch: 749452

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-244356-2	MW-12	Total Recoverable	Water	6020B	749242
MB 500-749242/1-A	Method Blank	Total Recoverable	Water	6020B	749242
LCS 500-749242/2-A	Lab Control Sample	Total Recoverable	Water	6020B	749242
500-244356-2 MS	MW-12	Total Recoverable	Water	6020B	749242
500-244356-2 MSD	MW-12	Total Recoverable	Water	6020B	749242
500-244356-2 DU	MW-12	Total Recoverable	Water	6020B	749242

General Chemistry

Analysis Batch: 748124

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-244356-1	MW-08	Total/NA	Water	SM 2540C	
500-244356-3	MW-10	Total/NA	Water	SM 2540C	
MB 500-748124/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-748124/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 749028

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-244356-3	MW-10	Total/NA	Water	SM 4500 F C	
MB 500-749028/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-749028/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	

Analysis Batch: 749144

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-244356-3	MW-10	Total/NA	Water	SM 4500 SO4 E	
MB 500-749144/55	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-749144/56	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
500-244356-3 MS	MW-10	Total/NA	Water	SM 4500 SO4 E	
500-244356-3 MSD	MW-10	Total/NA	Water	SM 4500 SO4 E	

QC Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Powerton CCR ABB/ASB Re-samples

Job ID: 500-244356-1

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 500-749242/1-A
Matrix: Water
Analysis Batch: 749452

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 749242

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0010		0.0010		mg/L		01/05/24 09:05	01/05/24 19:37	1

Lab Sample ID: LCS 500-749242/2-A
Matrix: Water
Analysis Batch: 749452

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 749242

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.0980		mg/L		98	80 - 120

Lab Sample ID: 500-244356-2 MS
Matrix: Water
Analysis Batch: 749452

Client Sample ID: MW-12
Prep Type: Total Recoverable
Prep Batch: 749242

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.023		0.100	0.124		mg/L		101	75 - 125

Lab Sample ID: 500-244356-2 MSD
Matrix: Water
Analysis Batch: 749452

Client Sample ID: MW-12
Prep Type: Total Recoverable
Prep Batch: 749242

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	0.023		0.100	0.126		mg/L		103	75 - 125	1	20

Lab Sample ID: 500-244356-2 DU
Matrix: Water
Analysis Batch: 749452

Client Sample ID: MW-12
Prep Type: Total Recoverable
Prep Batch: 749242

Analyte	Sample Result	Sample Qualifier	Spike Added	DU Result	DU Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	0.023			0.0230		mg/L				1	20

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

Lab Sample ID: MB 500-748124/1
Matrix: Water
Analysis Batch: 748124

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10		mg/L			12/27/23 01:03	1

Lab Sample ID: LCS 500-748124/2
Matrix: Water
Analysis Batch: 748124

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	242		mg/L		97	80 - 120

QC Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Powerton CCR ABB/ASB Re-samples

Job ID: 500-244356-1

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-749028/3
 Matrix: Water
 Analysis Batch: 749028

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10		mg/L			01/03/24 10:24	1

Lab Sample ID: LCS 500-749028/4
 Matrix: Water
 Analysis Batch: 749028

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	10.0	10.0		mg/L		100	90 - 119

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 500-749144/55
 Matrix: Water
 Analysis Batch: 749144

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<5.0		5.0		mg/L			01/04/24 12:29	1

Lab Sample ID: LCS 500-749144/56
 Matrix: Water
 Analysis Batch: 749144

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	10.0	10.4		mg/L		104	88 - 123

Lab Sample ID: 500-244356-3 MS
 Matrix: Water
 Analysis Batch: 749144

Client Sample ID: MW-10
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	120		10.0	137	4	mg/L		155	75 - 125

Lab Sample ID: 500-244356-3 MSD
 Matrix: Water
 Analysis Batch: 749144

Client Sample ID: MW-10
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	120		10.0	138	4	mg/L		162	75 - 125	0	20

Chain of Custody Record 641655




Environment Testing
America

Address _____

Regulatory Program: DW NPDES RCRA Other

TAL-8210

Client Contact		Project Manager: <u>Diana Mockler</u>		Site Contact:		Date:		COC No						
Company Name <u>KPRG & Associates</u>		Tel/Email:		Lab Contact		Carrier:		____ of ____ COCs						
Address <u>14665 W Lisbon Rd, Ste 1A</u>		Analysis Turnaround Time <input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below <u>Standard</u> <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Filtered Sample (Y/N) Perform MS / MSD (Y/N) Fluoride Sulfate TDS Arsenic		 500-244356 COC		Sampler						
City/State/Zip <u>Brookfield WI 53005</u>								For Lab Use Only:						
Phone <u>262-781-0475</u>								Walk-in Client <input type="checkbox"/>						
Fax _____								Lab Sampling <input type="checkbox"/>						
Project Name: <u>Midwest Generation</u>								Job / SDG No						
Site <u>Powerton CCR</u>								<u>500-244356</u>						
P O # <u>ABSA3B</u>								Extra Bottles in Cooler Sample Specific Notes						
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont	Filtered	MS	MSD	Fluoride	Sulfate	TDS	Arsenic	Notes
<u>MW-08</u>		<u>12/22/23</u>	<u>1125</u>	<u>G</u>	<u>Water</u>	<u>1</u>	<u>N</u>	<u>N</u>				<u>X</u>		<u>#</u>
<u>MW-12</u>		<u>12/22/23</u>	<u>1100</u>	<u>G</u>	<u>Water</u>	<u>1</u>	<u>N</u>	<u>N</u>					<u>X</u>	
<u>MW-10</u>		<u>12/22/23</u>	<u>1019</u>	<u>G</u>	<u>Water</u>	<u>1</u>	<u>N</u>	<u>N</u>	<u>X</u>	<u>X</u>	<u>X</u>			
Preservation Used: 1=Ice, 2=HCl; 3=H2SO4; 4=HNO3; 5=NaOH; 6=Other <u>NONE</u>														
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown										Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months				
Special Instructions/QC Requirements & Comments:														
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temp (°C) Obs'd <u>3.4</u> Corr'd <u>3.2</u>		Therm ID No								
Relinquished by <u>[Signature]</u>		Company <u>KPRG</u>		Date/Time <u>12/22/23</u>		Received by		Company		Date/Time				
Relinquished by		Company		Date/Time		Received by		Company		Date/Time				
Relinquished by		Company		Date/Time		Received in Laboratory by <u>[Signature]</u>		Company <u>EETA</u>		Date/Time <u>12/22/23 1508</u>				



Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-244356-1

Login Number: 244356

List Number: 1

Creator: Scott, Sherri L

List Source: Eurofins Chicago

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



Lab Chronicle

Client: KPRG and Associates, Inc.
 Project/Site: Powerton CCR ABB/ASB Re-samples

Job ID: 500-244356-1

Client Sample ID: MW-08
Date Collected: 12/22/23 11:25
Date Received: 12/22/23 15:08

Lab Sample ID: 500-244356-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM 2540C		1	748124	CLB	EET CHI	12/27/23 01:28

Client Sample ID: MW-12
Date Collected: 12/22/23 11:00
Date Received: 12/22/23 15:08

Lab Sample ID: 500-244356-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			749242	BDE	EET CHI	01/05/24 09:05 - 01/05/24 15:05 ¹
Total Recoverable	Analysis	6020B		1	749452	RN	EET CHI	01/05/24 19:44

Client Sample ID: MW-10
Date Collected: 12/22/23 10:19
Date Received: 12/22/23 15:08

Lab Sample ID: 500-244356-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM 2540C		1	748124	CLB	EET CHI	12/27/23 01:31
Total/NA	Analysis	SM 4500 F C		1	749028	SO	EET CHI	01/03/24 12:20
Total/NA	Analysis	SM 4500 SO4 E		10	749144	TR	EET CHI	01/04/24 13:01

¹ This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200



Accreditation/Certification Summary

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR ABB/ASB Re-samples

Job ID: 500-244356-1

Laboratory: Eurofins Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-24

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