



ENVIRONMENTAL CONSULTATION & REMEDIATION

KPRG and Associates, Inc.

**FEDERAL CCR COMPLIANCE
ANNUAL GROUNDWATER MONITORING and
CORRECTIVE ACTION REPORT – 2022
ASH BY-PASS BASIN AND ASH SURGE BASIN**

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

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14665 West Lisbon Road, Suite 1A
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January 31, 2023

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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 2022 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 – calcium (3rd quarter only), chloride and fluoride (1st through 4th quarters)
 - MW-09 – fluoride (4th quarter)
 - MW-11 – boron (2nd through 4th quarters), chloride and TDS (1st and 3rd quarters), and fluoride and sulfate (1st through 4th quarters).
 - MW-12 – chloride, fluoride, sulfate and TDS (1st through 4th quarters).
 - MW-15 – boron (2nd through 4th quarters), calcium, chloride, fluoride, sulfate and TDS (1st through 4th quarters).
 - MW-17 – boron (2nd through 4th quarters), calcium, chloride, fluoride, sulfate and TDS (1st through 4th quarters).
 - MW-18 – chloride, fluoride, pH, sulfate and TDS (1st through 4th quarters).
 - MW-19 – calcium, chloride and TDS (3rd quarter), fluoride (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 2022 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 arsenic at wells MW-11 (1st through 4th quarters) and MW-12 (3rd and 4th quarters) and selenium at well MW-15 (1st quarter). Arsenic and selenium are parameters 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.
- Section 257.90(e)(6)(vi) – The subject units are not under corrective action.

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 2022 calendar year for the ASB and ABB. It does not duplicate information or activities previously reported for 2021. 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. It is noted that 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 were 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 on Figures 2 through 9.

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 was estimated from literature (Freeze and Cherry, 1979). Through 2020 the average hydraulic conductivity of 3.81×10^{-3} ft/sec (sandy unit) used in Table 2 was obtained from the Hydrogeologic Assessment Report dated February 2011 and prepared by Patrick Engineering. As part of Illinois EPA State CCR Rule requirements, some groundwater modeling was completed for the Ash By-pass Basin and Ash Surge Basin. The Patrick Engineering slug test data were re-evaluated as part of the modeling exercise and a modified hydraulic conductivity geometric mean of 1.39×10^{-3} ft/sec was estimated and subsequently used in Table 2 for 2021 and 2022 estimates. 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 2022 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 Appendix A.

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 2022 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 and selenium at well MW-15. Arsenic and selenium are parameters previously addressed under an 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.

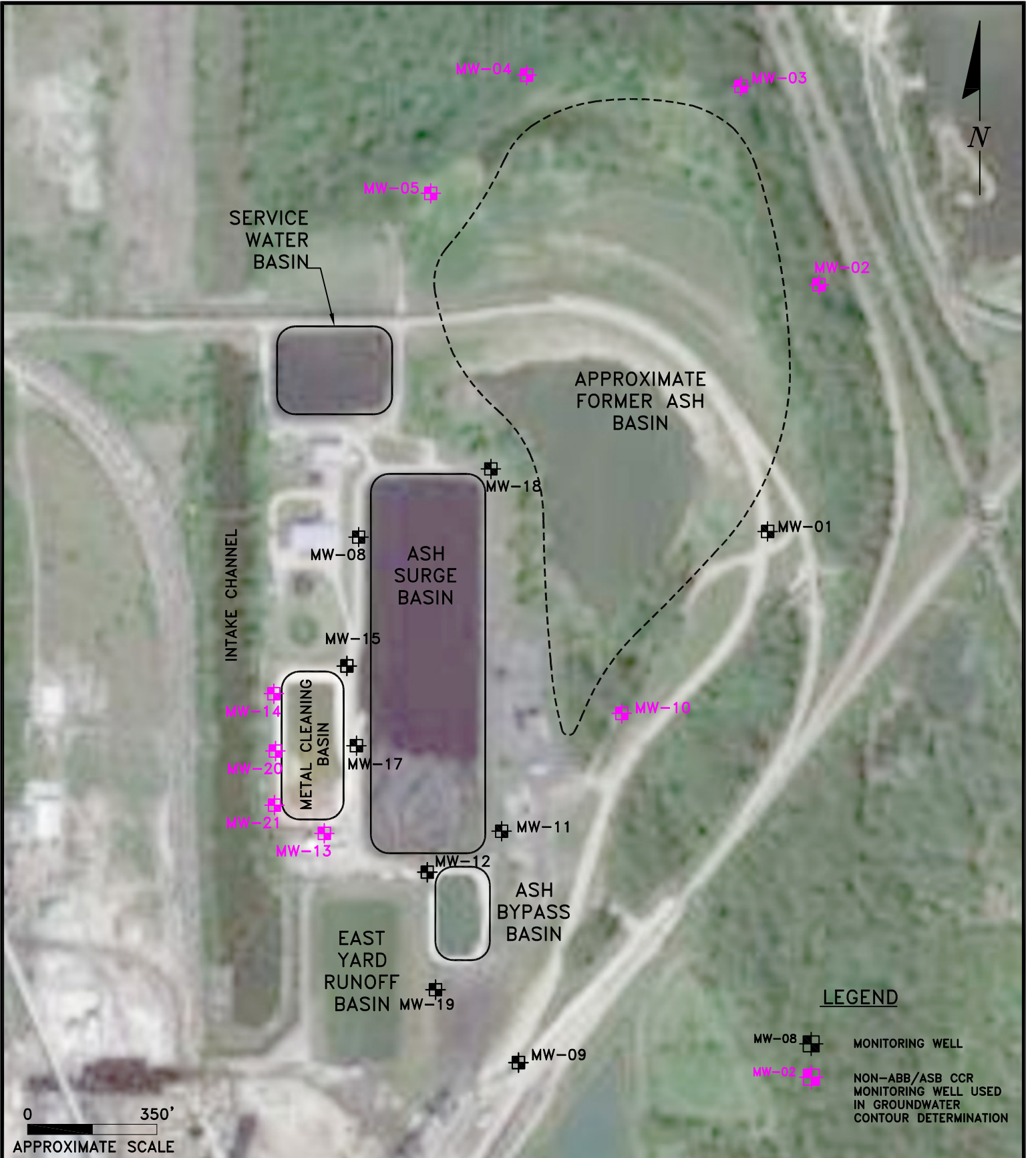
4.0 SUMMARY/CONCLUSIONS AND RECOMMENDATIONS

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 - 2020 Ash By-Pass Basin and Ash-Surge Basin, Midwest Generation, LLC Powerton Generating Station. January 31, 2022.
- 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

FIGURES



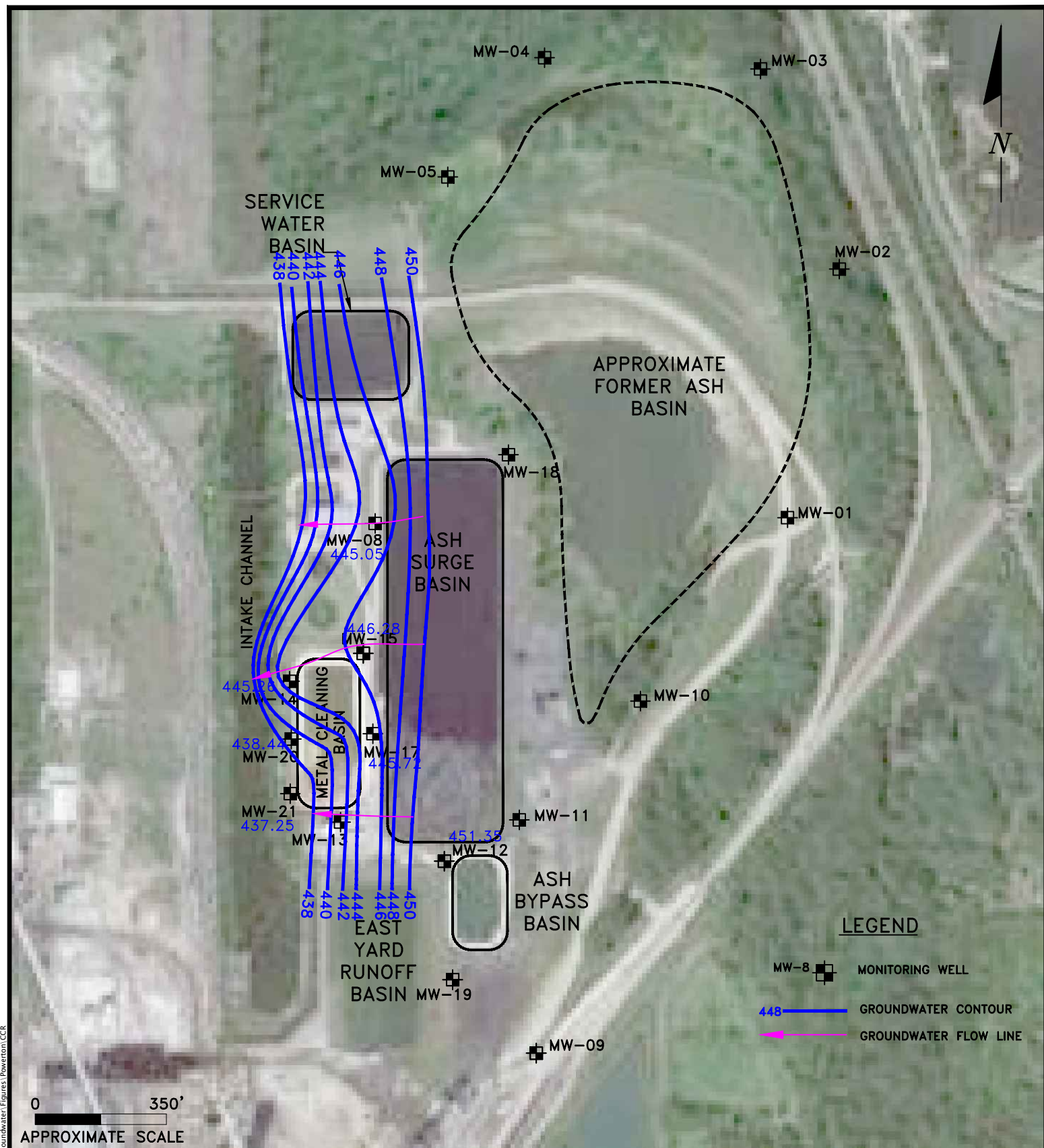
LEGEND

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

0 350'
 APPROXIMATE SCALE

| | | | |
|--|--|--|----------------------------|
| ENVIRONMENTAL CONSULTATION & REMEDIATION | | CCR MONITORING WELL SITE MAP | |
| | | POWERTON STATION PEKIN, ILLINOIS | |
| 414 Plaza Drive, Suite 106 Westmont, Illinois 60559 Telephone 630-325-1300 Facsimile 630-325-1593 | | Scale: 1" = 350' | Date: June 10, 2021 |
| 14665 West Lisbon Road, Suite 1A Brookfield, Wisconsin 53005 Telephone 262-781-0475 Facsimile 262-781-0478 | | KPRG Project No. 12313.1 | FIGURE 1 |

T:\projects\midwest\generation\12313\groundwater\figures\powertron\ccr\powertron_ccr-4r2018_gw_map.dwg



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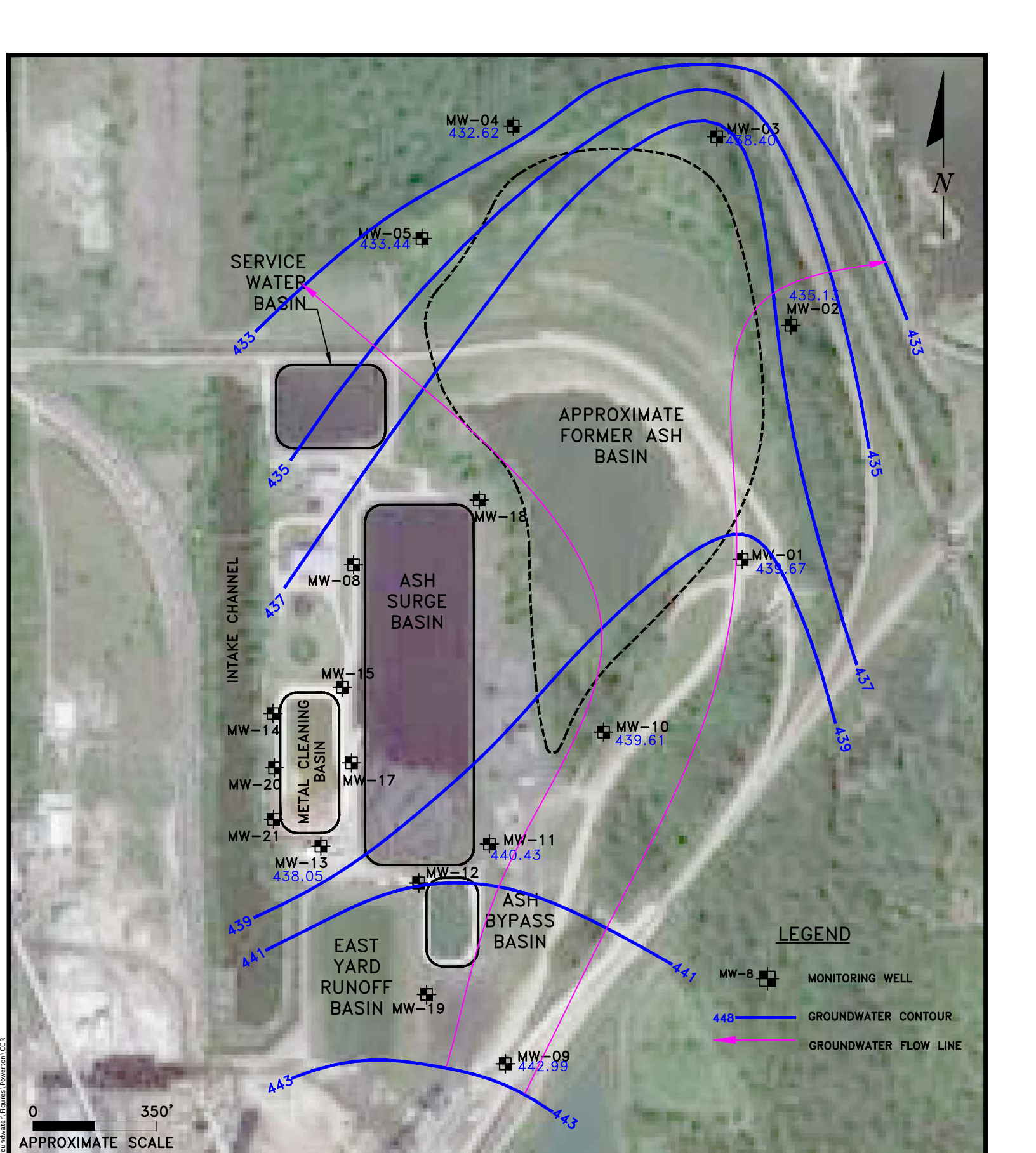


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| | |
|--|-----------------------------|
| <p>CCR GROUNDWATER CONTOUR MAP FOR ABB/ASB SILTY/CLAY UNIT 1Q2022</p> <p>POWERTON STATION PEKIN, ILLINOIS</p> | |
| <p>Scale: 1" = 350'</p> | <p>Date: April 13, 2022</p> |
| <p>KPRG Project No. 12313.1</p> | <p>Figure 2</p> |



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CCR GROUNDWATER CONTOUR MAP
FOR ABB/ASB GRAVELLY SAND UNIT 1Q2022

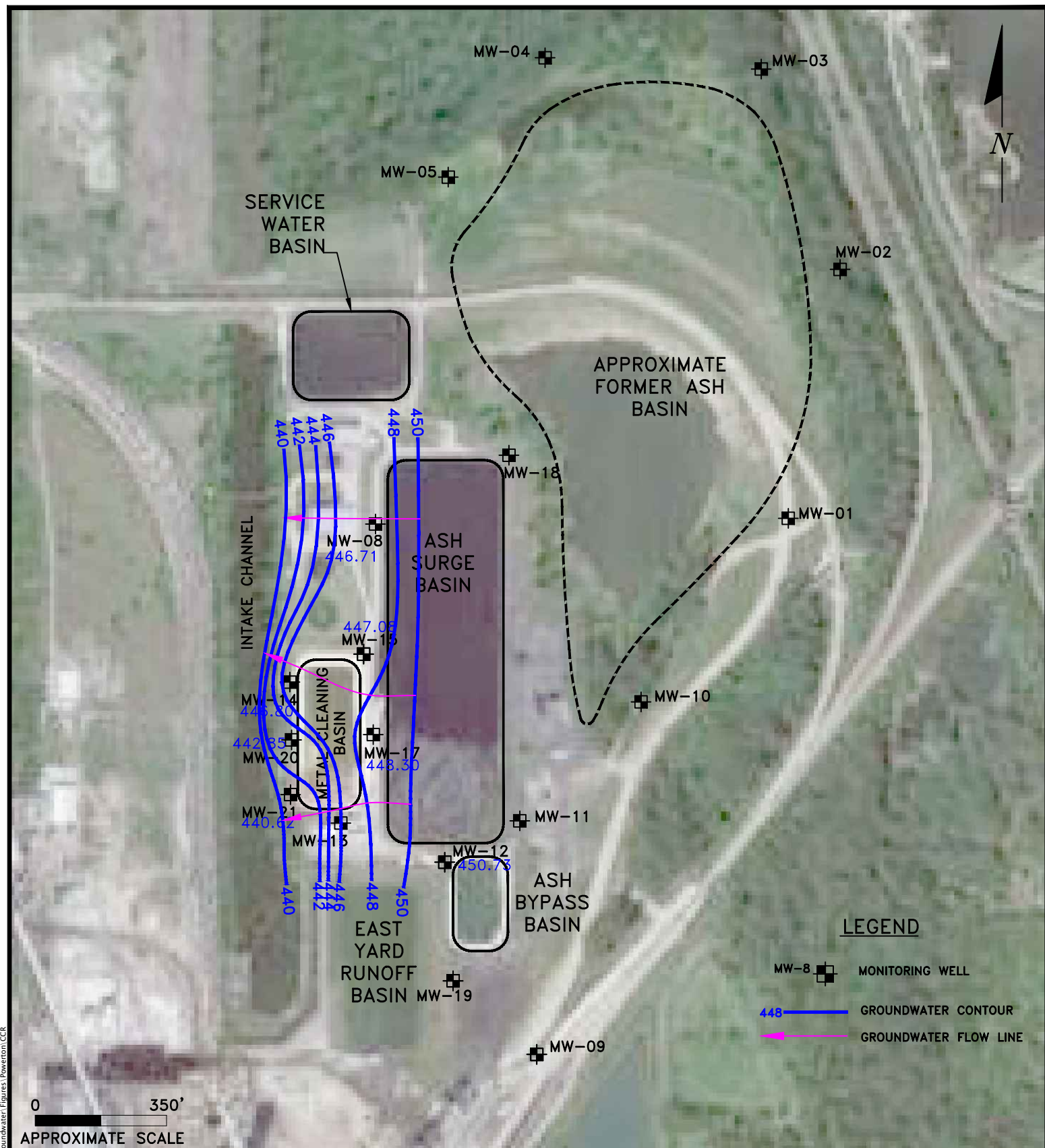
POWERTON STATION
PEKIN, ILLINOIS

Scale: 1" = 350'

Date: January 16, 2023

KPRG Project No. 12313.1

Figure 3



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CCR GROUNDWATER CONTOUR MAP FOR ABB/ASB SILT/CLAY UNIT 2Q2022

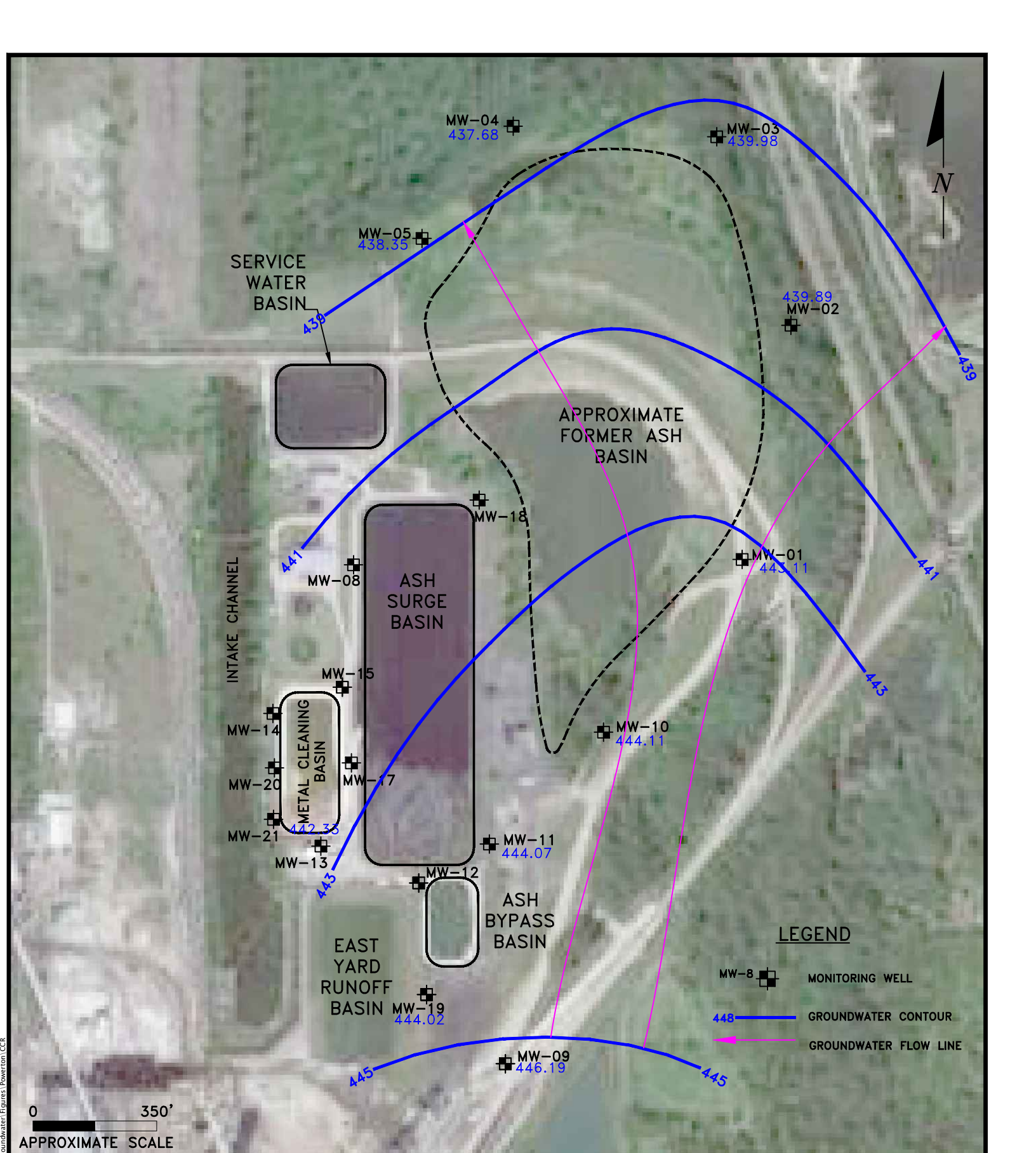
POWERTON STATION
PEKIN, ILLINOIS

Scale: 1" = 350'

Date: January 12, 2023

KPRG Project No. 12313.1

Figure 4



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CCR GROUNDWATER CONTOUR MAP
FOR ABB/ASB GRAVELLY SAND UNIT 2Q2022

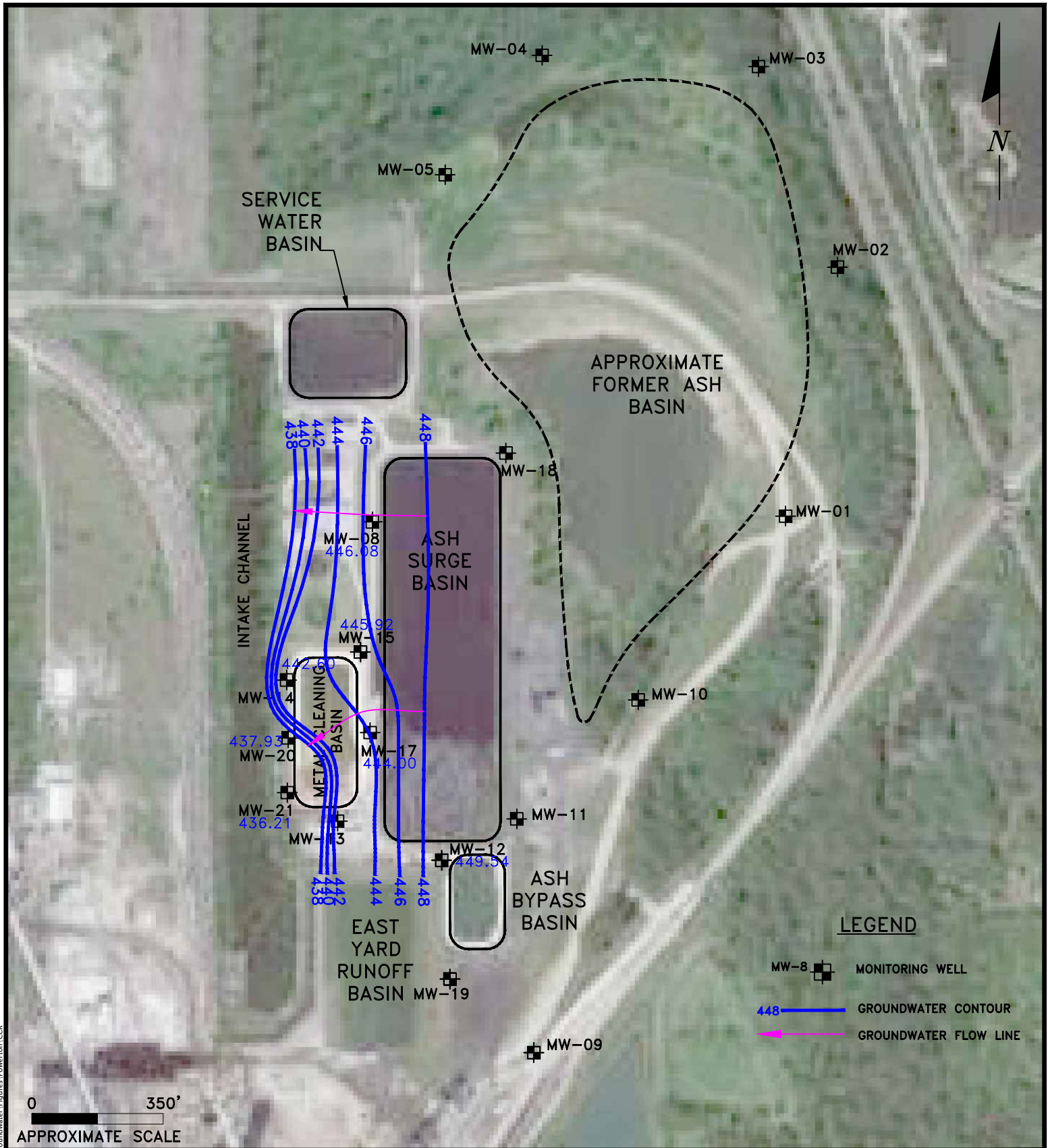
POWERTON STATION
PEKIN, ILLINOIS

Scale: 1" = 350'

Date: January 12, 2023

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Figure 5



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**CCR GROUNDWATER CONTOUR MAP
FOR ABB/ASB SILT/CLAY UNIT 3Q2022**

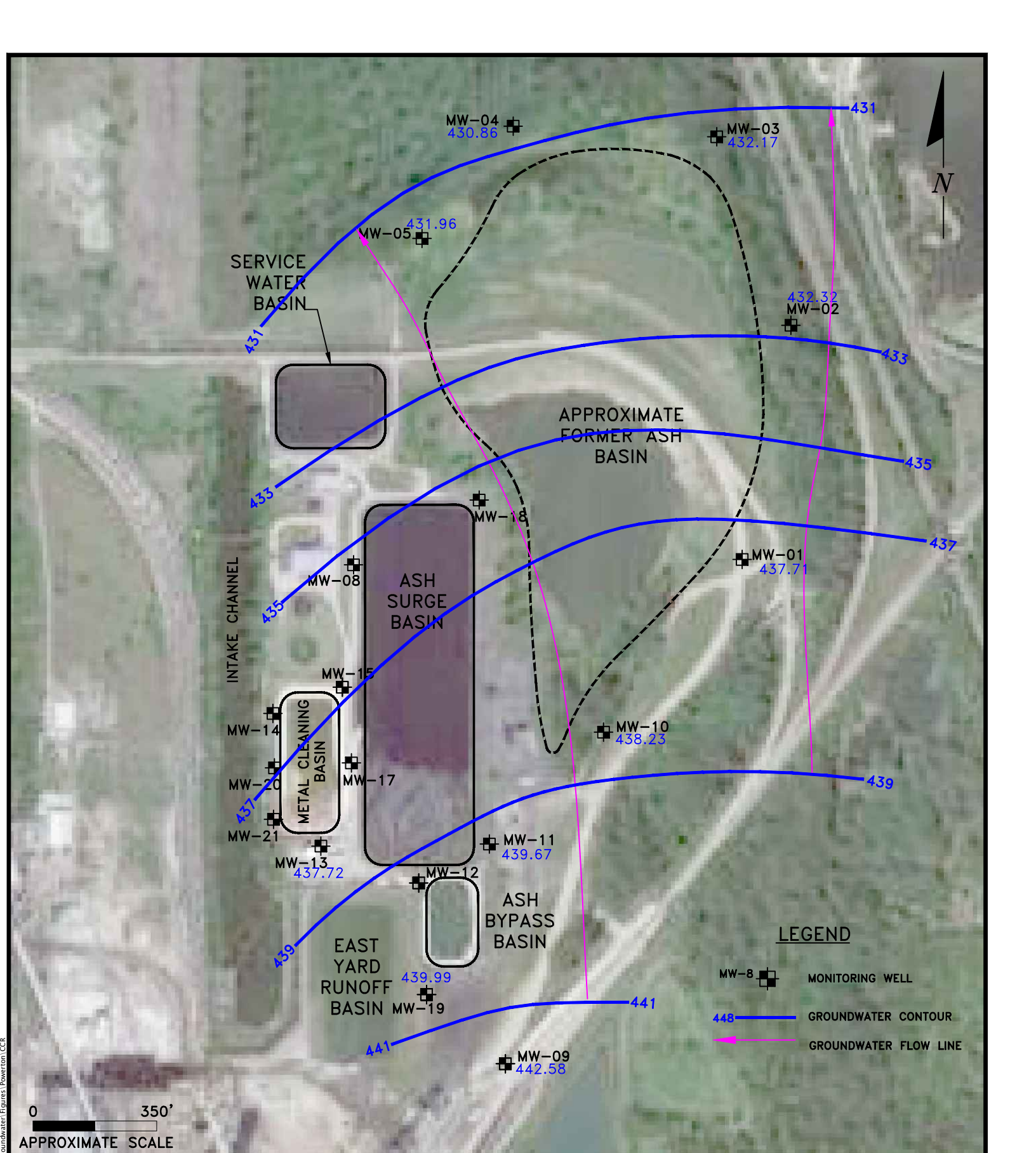
**POWERTON STATION
PEKIN, ILLINOIS**

Scale: 1" = 350'

Date: January 18, 2023

KPRG Project No. 12313.1

Figure 6



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CCR GROUNDWATER CONTOUR MAP
FOR ABB/ASB GRAVELLY SAND UNIT 3Q2022

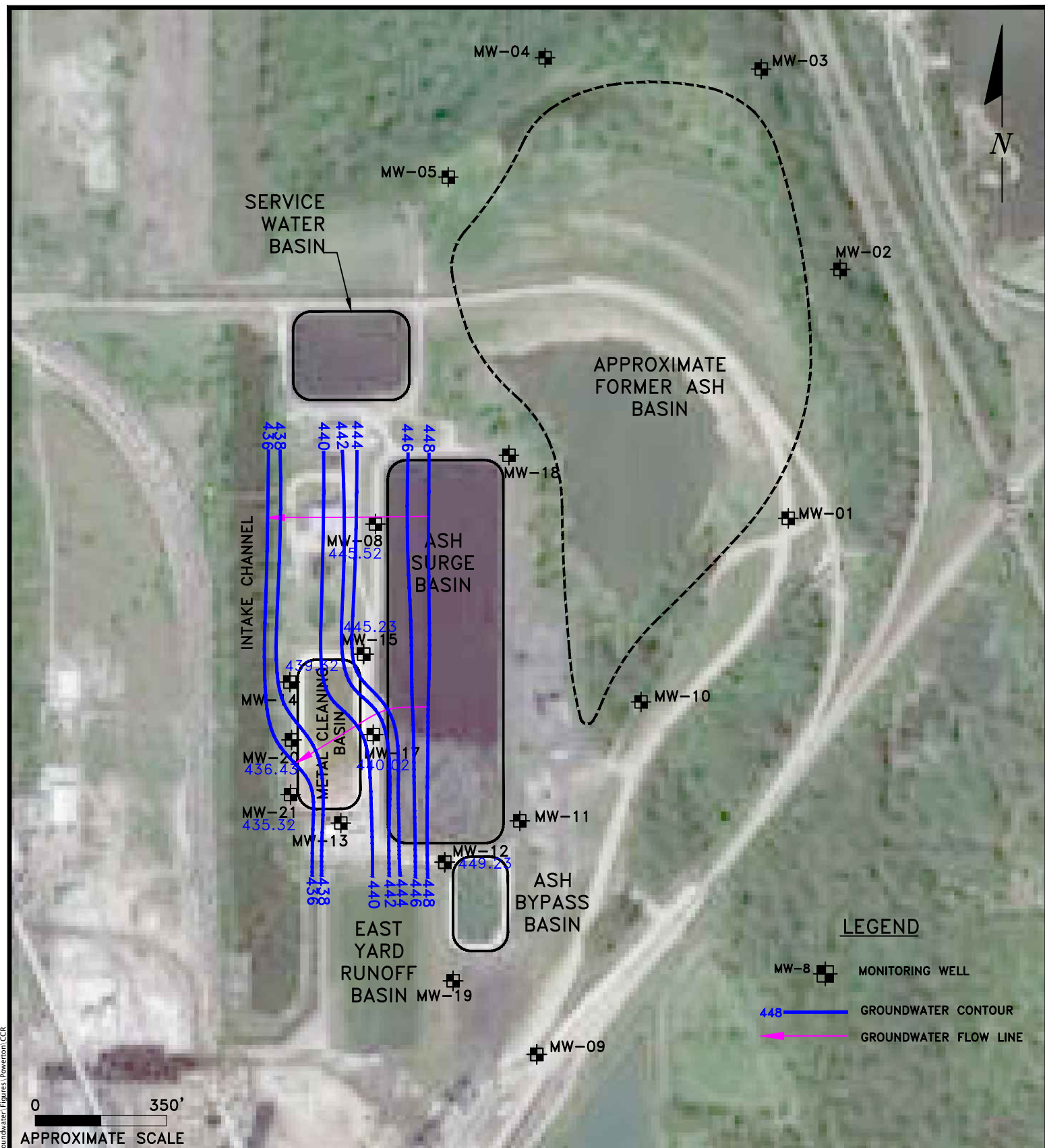
POWERTON STATION
PEKIN, ILLINOIS

Scale: 1" = 350'

Date: January 18, 2023

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Figure 7



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CCR GROUNDWATER CONTOUR MAP
FOR ABB/ASB SILT/CLAY UNIT 4Q2022

POWERTON STATION
PEKIN, ILLINOIS

Scale: 1" = 350'

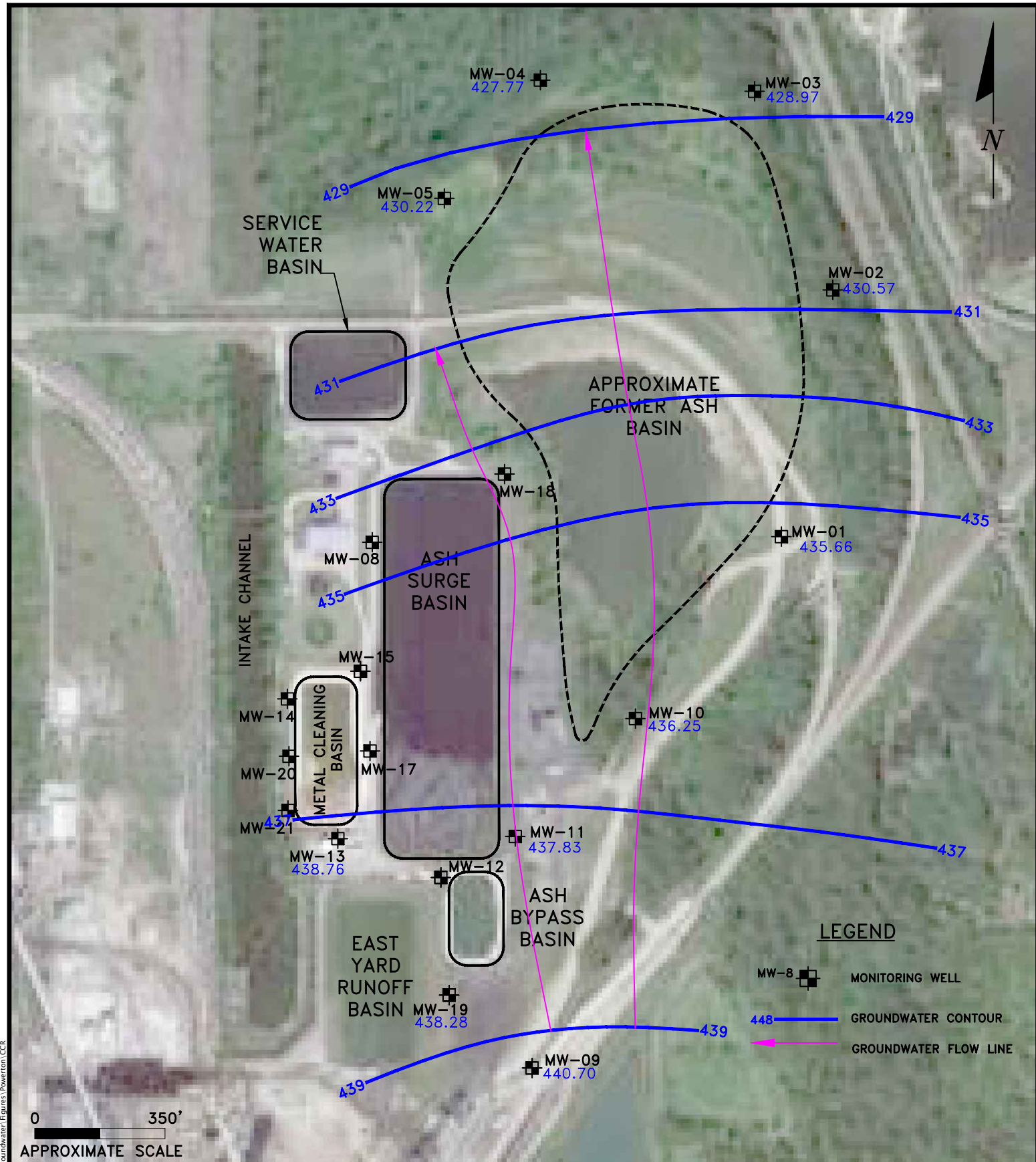
Date: January 18, 2023

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Figure 8



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CCR GROUNDWATER CONTOUR MAP
FOR ABB/ASB GRAVELLY SAND UNIT 4Q2022

POWERTON STATION
PEKIN, ILLINOIS

Scale: 1" = 350'

Date: January 18, 2023

KPRG Project No. 12313.1

Figure 9

TABLES

Table 1. Groundwater Elevations - 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) |
|------------|------------|---|--|---|
| MW-01 | 11/16/2015 | 465.24 | 26.04 | 439.20 |
| | 2/22/2016 | 465.24 | 21.90 | 443.34 |
| | 5/16/2016 | 465.24 | 21.83 | 443.41 |
| | 8/15/2016 | 465.24 | 23.89 | 441.35 |
| | 11/14/2016 | 465.24 | 23.38 | 441.86 |
| | 2/13/2017 | 465.24 | 21.71 | 443.53 |
| | 5/1/2017 | 465.24 | 18.87 | 446.37 |
| | 6/20/2017 | 465.24 | 21.54 | 443.70 |
| | 8/25/2017 | 465.24 | 24.70 | 440.54 |
| | 11/8/2017 | 465.24 | 24.92 | 440.32 |
| | 5/17/2018 | 465.24 | 22.66 | 442.58 |
| | 8/8/2018 | 465.24 | 26.05 | 439.19 |
| | 10/30/2018 | 465.24 | 24.69 | 440.55 |
| | 4/29/2019 | 465.24 | 20.15 | 445.09 |
| | 11/11/2019 | 465.24 | 19.49 | 445.75 |
| | 4/27/2020 | 465.24 | 20.90 | 444.34 |
| | 12/7/2020 | 465.24 | 25.69 | 439.55 |
| | 2/22/2021 | 465.24 | 25.18 | 440.06 |
| | 4/7/2021 | 465.24 | 22.20 | 443.04 |
| | 5/10/2021 | 465.24 | 23.41 | 441.83 |
| | 6/2/2021 | 465.24 | 22.00 | 443.24 |
| | 6/28/2021 | 465.24 | 23.18 | 442.06 |
| | 7/19/2021 | 465.24 | 20.43 | 444.81 |
| | 8/23/2021 | 465.24 | 24.42 | 440.82 |
| | 9/30/2021 | 465.24 | 26.89 | 438.35 |
| | 10/27/2021 | 465.24 | 24.53 | 440.71 |
| | 11/29/2021 | 465.24 | 23.31 | 441.93 |
| | 12/30/2021 | 465.24 | 24.31 | 440.93 |
| | 1/6/2022 | 465.24 | 24.86 | 440.38 |
| | 2/7/2022 | 465.24 | 25.57 | 439.67 |
| | 3/1/2022 | 465.24 | 21.96 | 443.28 |
| | 4/22/2022 | 465.24 | 20.03 | 445.21 |
| 5/24/2022 | 465.24 | 21.37 | 443.87 | |
| 6/6/2022 | 465.24 | 22.13 | 443.11 | |
| 7/25/2022 | 465.24 | 25.48 | 439.76 | |
| 8/29/2022 | 465.24 | 27.53 | 437.71 | |
| 9/28/2022 | 465.24 | 28.58 | 436.66 | |
| 10/26/2022 | 465.24 | 29.75 | 435.49 | |
| 11/14/2022 | 465.24 | 29.58 | 435.66 | |
| 12/28/2022 | 465.24 | 26.63 | 438.61 | |
| MW-08 | 11/16/2015 | 471.75 | 26.06 | 445.69 |
| | 2/22/2016 | 471.75 | 23.99 | 447.76 |
| | 5/16/2016 | 471.75 | 25.48 | 446.27 |
| | 8/15/2016 | 471.75 | 23.61 | 448.14 |
| | 11/14/2016 | 471.75 | 24.31 | 447.44 |
| | 2/13/2017 | 471.75 | 23.97 | 447.78 |
| | 5/1/2017 | 471.75 | 23.28 | 448.47 |
| | 6/20/2017 | 471.75 | 23.31 | 448.44 |
| | 8/29/2017 | 471.75 | 24.52 | 447.23 |
| | 11/8/2017 | 471.75 | 25.27 | 446.48 |
| | 5/17/2018 | 471.75 | 24.36 | 447.39 |
| | 8/8/2018 | 471.75 | 24.04 | 447.71 |
| | 10/31/2018 | 471.75 | 24.92 | 446.83 |
| | 4/29/2019 | 471.75 | 24.28 | 447.47 |
| | 11/11/2019 | 471.75 | 24.24 | 447.51 |
| | 4/27/2020 | 471.75 | 24.50 | 447.25 |
| | 12/7/2020 | 471.75 | 25.35 | 446.40 |
| | 2/22/2021 | 471.75 | 24.70 | 447.05 |
| | 4/7/2021 | 471.75 | 24.88 | 446.87 |
| | 5/10/2021 | 471.75 | 24.75 | 447.00 |
| | 6/2/2021 | 471.75 | 24.25 | 447.50 |
| | 6/28/2021 | 471.75 | 24.79 | 446.96 |
| | 7/19/2021 | 471.75 | 24.33 | 447.42 |
| | 8/23/2021 | 471.75 | 24.85 | 446.90 |
| | 9/30/2021 | 471.75 | 25.28 | 446.47 |
| | 10/25/2021 | 471.75 | 25.30 | 446.45 |
| | 11/29/2021 | 471.75 | 25.10 | 446.65 |
| | 12/30/2021 | 471.75 | 25.52 | 446.23 |
| | 1/6/2022 | 471.75 | 25.59 | 446.16 |
| | 2/7/2022 | 471.75 | 26.70 | 445.05 |
| | 3/1/2022 | 471.75 | 25.51 | 446.24 |
| | 4/22/2022 | 471.75 | 24.74 | 447.01 |
| 5/24/2022 | 471.75 | 24.97 | 446.78 | |
| 6/6/2022 | 471.75 | 25.04 | 446.71 | |
| 7/25/2022 | 471.75 | 25.56 | 446.19 | |
| 8/29/2022 | 471.75 | 25.67 | 446.08 | |
| 9/28/2022 | 471.75 | 25.81 | 445.94 | |
| 10/26/2022 | 471.75 | 26.17 | 445.58 | |
| 11/14/2022 | 471.75 | 26.23 | 445.52 | |
| 12/28/2022 | 471.75 | 26.06 | 445.69 | |

Table 1. Groundwater Elevations - 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) |
|------------|------------|---|--|---|
| MW-09 | 11/16/2015 | 469.14 | 26.07 | 443.07 |
| | 2/22/2016 | 469.14 | 22.83 | 446.31 |
| | 5/16/2016 | 469.14 | 23.06 | 446.08 |
| | 8/15/2016 | 469.14 | 24.50 | 444.64 |
| | 11/14/2016 | 469.14 | 24.33 | 444.81 |
| | 2/13/2017 | 469.14 | 23.43 | 445.71 |
| | 5/1/2017 | 469.14 | 20.77 | 448.37 |
| | 6/20/2017 | 469.14 | 22.15 | 446.99 |
| | 8/25/2017 | 469.14 | 24.79 | 444.35 |
| | 11/8/2017 | 469.14 | 25.74 | 443.40 |
| | 5/16/2018 | 469.14 | 23.89 | 445.25 |
| | 8/8/2018 | 469.14 | 25.49 | 443.65 |
| | 11/1/2018 | 469.14 | 26.02 | 443.12 |
| | 4/29/2019 | 469.14 | 21.30 | 447.84 |
| | 11/11/2019 | 469.14 | 21.31 | 447.83 |
| | 4/27/2020 | 469.14 | 21.80 | 447.34 |
| | 12/7/2020 | 469.14 | 26.19 | 442.95 |
| | 2/22/2021 | 469.14 | 26.08 | 443.06 |
| | 4/7/2021 | 469.14 | 23.75 | 445.39 |
| | 5/10/2021 | 469.14 | 24.55 | 444.59 |
| | 6/2/2021 | 469.14 | 23.31 | 445.83 |
| | 6/28/2021 | 469.14 | 24.18 | 444.96 |
| | 7/19/2021 | 469.14 | 22.20 | 446.94 |
| | 8/23/2021 | 469.14 | 24.75 | 444.39 |
| | 9/30/2021 | 469.14 | 26.28 | 442.86 |
| | 10/25/2021 | 469.14 | 25.42 | 443.72 |
| | 11/29/2021 | 469.14 | 24.50 | 444.64 |
| | 12/30/2021 | 469.14 | 25.35 | 443.79 |
| | 1/6/2022 | 469.14 | 28.11 | 441.03 |
| | 2/7/2022 | 469.14 | 26.15 | 442.99 |
| | 3/1/2022 | 469.14 | 23.88 | 445.26 |
| 4/22/2022 | 469.14 | 21.75 | 447.39 | |
| 5/24/2022 | 469.14 | 22.40 | 446.74 | |
| 6/6/2022 | 469.14 | 22.95 | 446.19 | |
| 7/25/2022 | 469.14 | 25.51 | 443.63 | |
| 8/29/2022 | 469.14 | 26.56 | 442.58 | |
| 9/28/2022 | 469.14 | 27.52 | 441.62 | |
| 10/26/2022 | 469.14 | 28.38 | 440.76 | |
| 11/14/2022 | 469.14 | 28.44 | 440.70 | |
| 12/28/2022 | 469.14 | 27.96 | 441.18 | |
| MW-11 | 11/16/2015 | 471.62 | 31.67 | 439.95 |
| | 2/22/2016 | 471.62 | 28.34 | 443.28 |
| | 5/16/2016 | 471.62 | 27.11 | 444.51 |
| | 8/15/2016 | 471.62 | 29.64 | 441.98 |
| | 11/14/2016 | 471.62 | 29.19 | 442.43 |
| | 2/13/2017 | 471.62 | 27.49 | 444.13 |
| | 5/1/2017 | 471.62 | 24.34 | 447.28 |
| | 6/20/2017 | 471.62 | 26.94 | 444.68 |
| | 8/29/2017 | 471.62 | 30.42 | 441.20 |
| | 11/9/2017 | 471.62 | 30.27 | 441.35 |
| | 5/16/2018 | 471.62 | 28.58 | 443.04 |
| | 8/9/2018 | 471.62 | 31.04 | 440.58 |
| | 11/1/2018 | 471.62 | 30.82 | 440.80 |
| | 4/29/2019 | 471.62 | 25.38 | 446.24 |
| | 11/11/2019 | 471.62 | 24.88 | 446.74 |
| | 4/27/2020 | 471.62 | 26.35 | 445.27 |
| | 12/7/2020 | 471.62 | 31.35 | 440.27 |
| | 2/22/2021 | 471.62 | 30.78 | 440.84 |
| | 4/7/2021 | 471.62 | 27.85 | 443.77 |
| | 5/10/2021 | 471.62 | 29.19 | 442.43 |
| | 6/2/2021 | 471.62 | 27.57 | 444.05 |
| | 6/28/2021 | 471.62 | 28.84 | 442.78 |
| | 7/19/2021 | 471.62 | 25.82 | 445.80 |
| | 8/23/2021 | 471.62 | 30.10 | 441.52 |
| | 9/30/2021 | 471.62 | 31.78 | 439.84 |
| | 10/25/2021 | 471.62 | 30.12 | 441.50 |
| | 11/29/2021 | 471.62 | 29.40 | 442.22 |
| | 12/30/2021 | 471.62 | 30.22 | 441.40 |
| | 1/6/2022 | 471.62 | 30.09 | 441.53 |
| | 2/7/2022 | 471.62 | 31.19 | 440.43 |
| | 3/1/2022 | 471.62 | 26.92 | 444.70 |
| 4/22/2022 | 471.62 | 25.43 | 446.19 | |
| 5/24/2022 | 471.62 | 26.69 | 444.93 | |
| 6/6/2022 | 471.62 | 27.55 | 444.07 | |
| 7/25/2022 | 471.62 | 30.77 | 440.85 | |
| 8/29/2022 | 471.62 | 31.95 | 439.67 | |
| 9/28/2022 | 471.62 | 32.99 | 438.63 | |
| 10/26/2022 | 471.62 | 33.86 | 437.76 | |
| 11/14/2022 | 471.62 | 33.79 | 437.83 | |
| 12/28/2022 | 471.62 | 32.41 | 439.21 | |

Table 1. Groundwater Elevations - 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) |
|------------|------------|---|--|---|
| MW-12 | 11/16/2015 | 473.38 | 24.48 | 448.90 |
| | 2/22/2016 | 473.38 | 21.41 | 451.97 |
| | 5/16/2016 | 473.38 | 22.94 | 450.44 |
| | 8/15/2016 | 473.38 | 23.85 | 449.53 |
| | 11/14/2016 | 473.38 | 23.89 | 449.49 |
| | 2/13/2017 | 473.38 | 21.93 | 451.45 |
| | 5/1/2017 | 473.38 | 22.26 | 451.12 |
| | 6/20/2017 | 473.38 | 22.76 | 450.62 |
| | 8/26/2017 | 473.38 | 23.92 | 449.46 |
| | 11/10/2017 | 473.38 | 24.29 | 449.09 |
| | 5/16/2018 | 473.38 | 22.46 | 450.92 |
| | 8/9/2018 | 473.38 | 23.78 | 449.60 |
| | 11/1/2018 | 473.38 | 23.74 | 449.64 |
| | 4/29/2019 | 473.38 | 22.05 | 451.33 |
| | 11/11/2019 | 473.38 | 22.85 | 450.53 |
| | 4/27/2020 | 473.38 | 21.44 | 451.94 |
| | 12/7/2020 | 473.38 | 22.70 | 450.68 |
| | 2/22/2021 | 473.38 | 21.00 | 452.38 |
| | 4/7/2021 | 473.38 | 21.91 | 451.47 |
| | 5/10/2021 | 473.38 | 22.50 | 450.88 |
| | 6/2/2021 | 473.38 | 22.60 | 450.78 |
| | 6/28/2021 | 473.38 | 22.95 | 450.43 |
| | 7/19/2021 | 473.38 | 22.99 | 450.39 |
| | 8/23/2021 | 473.38 | 23.48 | 449.90 |
| | 9/30/2021 | 473.38 | 23.87 | 449.51 |
| | 10/27/2021 | 473.38 | 23.90 | 449.48 |
| | 11/29/2021 | 473.38 | 23.33 | 450.05 |
| | 12/30/2021 | 473.38 | 22.95 | 450.43 |
| | 1/6/2022 | 473.38 | 22.77 | 450.61 |
| | 2/7/2022 | 473.38 | 22.03 | 451.35 |
| 3/1/2022 | 473.38 | 21.74 | 451.64 | |
| 4/22/2022 | 473.38 | 22.03 | 451.35 | |
| 5/24/2022 | 473.38 | 22.36 | 451.02 | |
| 6/6/2022 | 473.38 | 22.65 | 450.73 | |
| 7/25/2022 | 473.38 | 23.29 | 450.09 | |
| 8/29/2022 | 473.38 | 23.84 | 449.54 | |
| 9/28/2022 | 473.38 | 24.13 | 449.25 | |
| 10/26/2022 | 473.38 | 24.28 | 449.10 | |
| 11/14/2022 | 473.38 | 24.15 | 449.23 | |
| 12/28/2022 | 473.38 | 22.41 | 450.97 | |
| MW-15 | 11/16/2015 | 471.37 | 25.33 | 446.04 |
| | 2/22/2016 | 471.37 | 22.91 | 448.46 |
| | 5/16/2016 | 471.37 | 24.71 | 446.66 |
| | 8/15/2016 | 471.37 | 23.45 | 447.92 |
| | 11/14/2016 | 471.37 | 23.94 | 447.43 |
| | 2/13/2017 | 471.37 | 23.73 | 447.64 |
| | 5/1/2017 | 471.37 | 23.27 | 448.10 |
| | 6/20/2017 | 471.37 | 22.86 | 448.51 |
| | 8/29/2017 | 471.37 | 23.13 | 448.24 |
| | 11/10/2017 | 471.37 | 25.13 | 446.24 |
| | 5/17/2018 | 471.37 | 23.85 | 447.52 |
| | 8/9/2018 | 471.37 | 23.96 | 447.41 |
| | 10/31/2018 | 471.37 | 24.55 | 446.82 |
| | 4/29/2019 | 471.37 | 23.57 | 447.80 |
| | 11/11/2019 | 471.37 | 23.79 | 447.58 |
| | 4/27/2020 | 471.37 | 23.95 | 447.42 |
| | 12/7/2020 | 471.37 | 25.01 | 446.36 |
| | 2/22/2021 | 471.37 | 27.74 | 443.63 |
| | 4/7/2021 | 471.37 | 24.44 | 446.93 |
| | 5/10/2021 | 471.37 | 24.62 | 446.75 |
| | 6/2/2021 | 471.37 | 24.12 | 447.25 |
| | 6/28/2021 | 471.37 | 24.19 | 447.18 |
| | 7/19/2021 | 471.37 | 24.01 | 447.36 |
| | 8/23/2021 | 471.37 | 24.38 | 446.99 |
| | 9/30/2021 | 471.37 | 24.91 | 446.46 |
| | 10/25/2021 | 471.37 | 24.92 | 446.45 |
| | 11/29/2021 | 471.37 | 24.60 | 446.77 |
| | 12/30/2021 | 471.37 | 24.90 | 446.47 |
| | 1/6/2022 | 471.37 | 25.04 | 446.33 |
| | 2/7/2022 | 471.37 | 25.09 | 446.28 |
| 3/1/2022 | 471.37 | 25.11 | 446.26 | |
| 4/22/2022 | 471.37 | 24.18 | 447.19 | |
| 5/24/2022 | 471.37 | 24.27 | 447.10 | |
| 6/6/2022 | 471.37 | 24.29 | 447.08 | |
| 7/25/2022 | 471.37 | 25.05 | 446.32 | |
| 8/29/2022 | 471.37 | 25.45 | 445.92 | |
| 9/28/2022 | 471.37 | 25.54 | 445.83 | |
| 10/26/2022 | 471.37 | 26.00 | 445.37 | |
| 11/14/2022 | 471.37 | 26.14 | 445.23 | |
| 12/28/2022 | 471.37 | 27.84 | 443.53 | |

Table 1. Groundwater Elevations - 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) |
|------------|------------|---|--|---|
| MW-17 | 11/16/2015 | 467.75 | 26.92 | 440.83 |
| | 2/22/2016 | 467.75 | 19.86 | 447.89 |
| | 5/16/2016 | 467.75 | 20.42 | 447.33 |
| | 8/15/2016 | 467.75 | 21.61 | 446.14 |
| | 11/14/2016 | 467.75 | 21.39 | 446.36 |
| | 2/13/2017 | 467.75 | 19.66 | 448.09 |
| | 5/1/2017 | 467.75 | 18.78 | 448.97 |
| | 6/20/2017 | 467.75 | 19.42 | 448.33 |
| | 8/29/2017 | 467.75 | 22.68 | 445.07 |
| | 11/6/2017 | 467.75 | 24.66 | 443.09 |
| | 5/14/2018 | 467.75 | 19.79 | 447.96 |
| | 8/6/2018 | 467.75 | 21.03 | 446.72 |
| | 10/29/2018 | 467.75 | 21.98 | 445.77 |
| | 4/29/2019 | 467.75 | 18.75 | 449.00 |
| | 11/11/2019 | 467.75 | 19.60 | 448.15 |
| | 4/27/2020 | 467.75 | 19.15 | 448.60 |
| | 12/7/2020 | 467.75 | 24.12 | 443.63 |
| | 2/22/2021 | 467.75 | 20.22 | 447.53 |
| | 4/7/2021 | 467.75 | 19.69 | 448.06 |
| | 5/10/2021 | 467.75 | 20.00 | 447.75 |
| | 6/2/2021 | 467.75 | 19.65 | 448.10 |
| | 6/28/2021 | 467.75 | 19.98 | 447.77 |
| | 7/19/2021 | 467.75 | 19.57 | 448.18 |
| | 8/23/2021 | 467.75 | 20.15 | 447.60 |
| | 9/30/2021 | 467.75 | 23.25 | 444.50 |
| | 10/28/2021 | 467.75 | 23.35 | 444.40 |
| | 11/29/2021 | 467.75 | 20.64 | 447.11 |
| | 12/30/2021 | 467.75 | 22.61 | 445.14 |
| | 1/6/2022 | 467.75 | 23.19 | 444.56 |
| | 2/7/2022 | 467.75 | 22.03 | 445.72 |
| | 3/1/2022 | 467.75 | 19.97 | 447.78 |
| 4/22/2022 | 467.75 | 19.36 | 448.39 | |
| 5/24/2022 | 467.75 | 19.38 | 448.37 | |
| 6/6/2022 | 467.75 | 19.45 | 448.30 | |
| 7/25/2022 | 467.75 | 20.39 | 447.36 | |
| 8/29/2022 | 467.75 | 23.75 | 444.00 | |
| 9/28/2022 | 467.75 | 25.38 | 442.37 | |
| 10/26/2022 | 467.75 | 27.49 | 440.26 | |
| 11/14/2022 | 467.75 | 27.73 | 440.02 | |
| 12/28/2022 | 467.75 | 27.47 | 440.28 | |
| MW-18 | 11/16/2015 | 469.28 | 28.42 | 440.86 |
| | 2/22/2016 | 469.28 | 27.96 | 441.32 |
| | 5/16/2016 | 469.28 | 25.57 | 443.71 |
| | 8/15/2016 | 469.28 | 27.86 | 441.42 |
| | 11/14/2016 | 469.28 | 27.39 | 441.89 |
| | 2/13/2017 | 469.28 | 25.06 | 444.22 |
| | 5/1/2017 | 469.28 | 22.49 | 446.79 |
| | 6/20/2017 | 469.28 | 24.97 | 444.31 |
| | 8/28/2017 | 469.28 | 27.30 | 441.98 |
| | 11/6/2017 | 469.28 | 26.33 | 442.95 |
| | 5/14/2018 | 469.28 | 24.65 | 444.63 |
| | 8/6/2018 | 469.28 | 25.67 | 443.61 |
| | 10/29/2018 | 469.28 | 25.79 | 443.49 |
| | 4/29/2019 | 469.28 | 23.00 | 446.28 |
| | 11/11/2019 | 469.28 | 23.94 | 445.34 |
| | 4/27/2020 | 469.28 | 23.97 | 445.31 |
| | 12/7/2020 | 469.28 | 27.82 | 441.46 |
| | 2/22/2021 | 469.28 | 26.69 | 442.59 |
| | 4/7/2021 | 469.28 | 24.94 | 444.34 |
| | 5/10/2021 | 469.28 | 25.96 | 443.32 |
| | 6/2/2021 | 469.28 | 24.70 | 444.58 |
| | 6/28/2021 | 469.28 | 25.60 | 443.68 |
| | 7/19/2021 | 469.28 | 23.50 | 445.78 |
| | 8/23/2021 | 469.28 | 27.35 | 441.93 |
| | 9/30/2021 | 469.28 | 29.70 | 439.58 |
| | 10/25/2021 | 469.28 | 27.35 | 441.93 |
| | 11/29/2021 | 469.28 | 26.81 | 442.47 |
| | 12/30/2021 | 469.28 | 27.14 | 442.14 |
| | 1/6/2022 | 469.28 | 26.57 | 442.71 |
| | 2/7/2022 | 469.28 | 27.83 | 441.45 |
| | 3/1/2022 | 469.28 | 24.45 | 444.83 |
| 4/22/2022 | 469.28 | 23.77 | 445.51 | |
| 5/24/2022 | 469.28 | 25.04 | 444.24 | |
| 6/6/2022 | 469.28 | 25.71 | 443.57 | |
| 7/25/2022 | 469.28 | 28.62 | 440.66 | |
| 8/29/2022 | 469.28 | 28.66 | 440.62 | |
| 9/28/2022 | 469.28 | 32.19 | 437.09 | |
| 10/26/2022 | 469.28 | 33.26 | 436.02 | |
| 11/14/2022 | 469.28 | 32.95 | 436.33 | |
| 12/28/2022 | 469.28 | 28.44 | 440.84 | |

Table 1. Groundwater Elevations - 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) |
|------------|------------|---|--|---|
| MW-19 | 11/14/2016 | 465.07 | 22.65 | 442.42 |
| | 2/13/2017 | 465.07 | 21.27 | 443.80 |
| | 5/1/2017 | 465.07 | 18.39 | 446.68 |
| | 6/20/2017 | 465.07 | 20.44 | 444.63 |
| | 8/28/2017 | 465.07 | 23.60 | 441.47 |
| | 11/9/2017 | 465.07 | 23.80 | 441.27 |
| | 5/14/2018 | 465.07 | 22.08 | 442.99 |
| | 8/6/2018 | 465.07 | 24.14 | 440.93 |
| | 10/29/2018 | 465.07 | 24.31 | 440.76 |
| | 4/29/2019 | 465.07 | 19.12 | 445.95 |
| | 11/11/2019 | 465.07 | 18.80 | 446.27 |
| | 4/27/2020 | 465.07 | 19.94 | 445.13 |
| | 12/7/2020 | 465.07 | 24.63 | 440.44 |
| | 2/22/2021 | 465.07 | 24.23 | 440.84 |
| | 4/7/2021 | 465.07 | 21.60 | 443.47 |
| | 5/10/2021 | 465.07 | 22.75 | 442.32 |
| | 6/2/2021 | 465.07 | 21.24 | 443.83 |
| | 6/28/2021 | 465.07 | 22.41 | 442.66 |
| | 7/19/2021 | 465.07 | 19.75 | 445.32 |
| | 8/23/2021 | 465.07 | 23.31 | 441.76 |
| | 9/30/2021 | 465.07 | 24.85 | 440.22 |
| | 10/27/2021 | 465.07 | 23.36 | 441.71 |
| | 11/29/2021 | 465.07 | 22.75 | 442.32 |
| | 12/30/2021 | 465.07 | 23.65 | 441.42 |
| | 1/6/2022 | 465.07 | 24.04 | 441.03 |
| | 2/7/2022 | 465.07 | 24.46 | 440.61 |
| | 3/1/2022 | 465.07 | 21.05 | 444.02 |
| | 4/22/2022 | 465.07 | 19.34 | 445.73 |
| | 5/24/2022 | 465.07 | 20.34 | 444.73 |
| | 6/6/2022 | 465.07 | 21.05 | 444.02 |
| 7/25/2022 | 465.07 | 23.98 | 441.09 | |
| 8/29/2022 | 465.07 | 25.08 | 439.99 | |
| 9/28/2022 | 465.07 | 25.97 | 439.10 | |
| 10/26/2022 | 465.07 | 26.81 | 438.26 | |
| 11/14/2022 | 465.07 | 26.79 | 438.28 | |
| 12/28/2022 | 465.07 | 25.95 | 439.12 | |

MSL - Mean Sea Level
 TOC - Top of Casing

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) |
|------------|---------------|----------------------------------|----------------|------------------------------------|-----------------------|-------------------------------------|
| 5/10/2021 | Silt/clay | Westerly | 3.280E-07 | 0.0276 | 0.4 | 0.0020 |
| 5/10/2021 | Sandy | Northeasterly - Northwesterly | 1.390E-03 | 0.0036 | 0.35 | 1.24 |
| 8/23/2021 | Silt/clay | Westerly | 3.280E-07 | 0.0350 | 0.4 | 0.0025 |
| 8/23/2021 | Sandy | Northeasterly - Northwesterly | 1.390E-03 | 0.0117 | 0.35 | 4.01 |
| 11/29/2021 | Silt/clay | Westerly | 3.280E-07 | 0.0230 | 0.4 | 0.0016 |
| 11/29/2021 | Sandy | Northeasterly - Northwesterly | 1.390E-03 | 0.0033 | 0.35 | 1.13 |
| 2/7/2022 | Silt/clay | Westerly | 3.280E-07 | 0.0359 | 0.4 | 0.0025 |
| 2/7/2022 | Sandy | Northeasterly - Northwesterly | 1.390E-03 | 0.0039 | 0.35 | 1.34 |
| 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 |

* Kavg - Pre-2021 K Values from Hydrologic Assessment Report, Patrick Engineering, February 2011. 2021 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 2022 - 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 | 2/9/2022 | A |
| | | 6/7/2022 | A |
| | | 8/30/2022 | A |
| | | 11/15/2022 | A |
| MW-09 (Upgradient) | 4 | 2/10/2022 | A |
| | | 6/8/2022 | A |
| | | 8/31/2022 | A |
| | | 11/15/2022 | A |
| MW-19 (Upgradient) | 4 | 2/7/2022 | A |
| | | 6/6/2022 | A |
| | | 8/30/2022 | A |
| | | 11/16/2022 | A |
| MW-08 (Downgradient) | 4 | 2/10/2022 | A |
| | | 6/8/2022 | A |
| | | 8/30/2022 | A |
| | | 11/15/2022 | A |
| MW-11 (Downgradient) | 4 | 2/10/2022 | A |
| | | 6/8/2022 | A |
| | | 8/31/2022 | A |
| | | 11/15/2022 | A |
| MW-12 (Downgradient) | 4 | 2/10/2022 | A |
| | | 6/8/2022 | A |
| | | 8/31/2022 | A |
| | | 11/15/2022 | A |
| MW-15 (Downgradient) | 4 | 2/9/2022 | A |
| | | 6/8/2022 | A |
| | | 8/31/2022 | A |
| | | 11/16/2022 | A |
| MW-17 (Downgradient) | 4 | 2/7/2022 | A |
| | | 6/8/2022 | A |
| | | 8/31/2022 | A |
| | | 11/16/2022 | A |
| MW-18 (Downgradient) | 4 | 2/8/2022 | A |
| | | 6/6/2022 | A |
| | | 8/30/2022 | A |
| | | 11/16/2022 | 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) up-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 | 530 | | |
| | 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 | | |
| | 5/3/2017 | 0.19 | 86 | 66 | 0.16 | 7.41 | 45 | 460 | | |
| | 6/21/2017 | 0.18 | 85 | 58 | 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 | | |
| | 11/8/2017 | 0.57 | 130 | 38 | 0.12 | 6.69 | 61 | 640 | | |
| | 5/17/2018 | 0.15 | 88 | 50 | 0.12 | 6.7 | 48 | 540 | | |
| | 8/8/2018 | 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 | | |
| | 5/11/2021 | 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 | 0.23 | 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 | | | |
| MW-09 (S) up-gradient | 11/18/2015 | 2.0 | 63 | H | 31 | H | 0.19 | 7.15 | H | 440 |
| | 2/25/2016 | 2.3 | 77 | 36 | 0.19 | 7.34 | 120 | 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 | 740 | | |
| | 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 | | |
| | 5/3/2017 | 3.5 | 85 | 38 | 0.17 | 7.48 | 170 | 680 | | |
| | 6/21/2017 | 3.3 | 82 | 38 | 0.14 | 7.63 | 180 | 760 | | |
| | Pred. Limit* | 6.19 | 103 | 39 | 0.24 | 7.99-6.64 | 236 | 1000 | | |
| | 8/25/2017 | 3.8 | 85 | 36 | 0.14 | 7.30 | 150 | 630 | | |
| | 11/8/2017 | 4 | 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 | | |
| | 5/1/2019 | 4.6 | 79 | 37 | 0.17 | 7.11 | 170 | 640 | | |
| | 11/14/2019 | 2.5 | 85 | 36 | 0.18 | 7.49 | 82 | 500 | | |
| | 4/29/2020 | 2 | 71 | 34 | 0.2 | 7.19 | 140 | 510 | | |
| | 1/28/2020 | 3.6 | 65 | 34 | 0.22 | 7.29 | 63 | 400 | | |
| | 5/13/2021 | 2 | 74 | 33 | 0.2 | 7.33 | 120 | 410 | | |
| | 8/25/2021 | 2.2 | 80 | 32 | 0.17 | 7.11 | 130 | 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 | | | |
| 6/8/2022 | 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 | | | |
| MW-19 ^A (S) up-gradient | 11/18/2016 | 3.8 | 89 | 38 | 0.13 | 7.34 | 120 | 670 | | |
| | 2/15/2017 | 4.7 | 88 | 37 | 0.13 | 7.50 | 180 | 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 | | |
| | 5/2/2019 | 3.7 | 100 | 39 | 0.13 | 6.86 | 160 | 700 | | |
| | 11/15/2019 | 2.5 | 130 | 53 | 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 | F1 | 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 | | |
| | 2/7/2022 | 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 | | |
| MW-08 (CL) down-gradient | 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 | 230 | 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 | 788** | | |
| | 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 | | |
| | 5/17/2018 | 1.2 | 130 | 200 | 0.37 | 6.79 | 170 | 1000 | | |
| | 8/8/2018 | 1.1 | 140 | 270 | 0.32 | 6.93 | 190 | 1200 | | |
| | 5/1/2019 | 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 | | |
| | 5/11/2021 | 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 | 130 | 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 | | | |

Notes: All units are in mg/l except pH is in standard units.
Pred. Limit - Prediction Limit
(S) - Sandy Unit
(CL) - Silty Clay Unit
** - Intrawell 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 up-gradient well. Insufficient rounds of sampling for statistical evaluation at this time.
Italics Date - First round of Detection Monitoring and resample after statistical background establishment.
Bold - Potential statistically significant increase.
F1 - MS and/or MSD Recovery outside of limits.
H - Sample was prepped or analyzed beyond the specified holding time.
V - Serial dilution exceeds control limits.

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-11 (S) down gradient | 11/18/2015 | 1.7 | 110 | H 54 | H 0.55 | 7.06 | H 160 | H 670 |
| | 2/26/2016 | 1.5 | 140 | 120 | 0.55 | 7.25 | 220 | 850 |
| | 5/20/2016 | 1.26 | 140 | 120 | 0.56 | 7.10 | 210 | 920 |
| | 8/17/2016 | 1.0 | 130 | 93 | 0.67 | 7.08 | 180 | 910 |
| | 11/17/2016 | 1.2 | 140 | 130 | 0.44 | 7.21 | 240 | 1100 |
| | 2/16/2017 | 1.6 | 140 | 110 | 0.40 | 6.62 | 260 | 910 |
| | 5/3/2017 | 1.3 | 160 | 160 | 0.42 | 7.36 | 440 | 1300 |
| | 6/22/2017 | 1.2 | 140 | 120 | 0.60 | 7.21 | 260 | 1000 |
| | Pred. Limit | 1.0 | 136 | 77 | 0.24** | 7.73-6.83** | 107 | 788** |
| | 8/29/2017 | 2.2 | 130 | 83 | 0.52 | 7.23 | 310 | 1100 |
| | 11/9/2017 | 1.5 | 140 | 100 | 0.59 | 6.96 | 230 | 970 |
| | 5/16/2018 | 2.0 | 140 | 88 | 0.61 | 7.89 | 270 | 1000 |
| | 8/9/2018 | 1.4 | 160 | 120 | 0.65 | 7.24 | 220 | 1000 |
| | 5/1/2019 | 2.3 | 110 | 60 | 0.62 | 7.08 | 200 | 730 |
| | 1/14/2019 | 1.8 | 120 | 83 | 0.55 | 7.43 | 150 | 890 |
| | 4/29/2020 | 1.2 | 100 | 110 | 0.62 | 7.08 | 320 | 950 |
| | 12/8/2020 | 0.7 | 86 | 94 | 0.67 | 7.26 | 200 | 650 |
| | 5/11/2021 | 1.0 | 99 | 130 | 0.72 | 7.26 | 230 | 820 |
| | 8/25/2021 | 0.9 | 100 | 100 | 0.65 | 7.03 | 210 | 800 |
| | 12/1/2021 | 1.2 | 100 | 85 | 0.67 | 7.17 | 160 | 850 |
| | 2/10/2022 | 0.9 | 110 | 110 | 0.68 | 7.11 | 220 | 920 |
| | 6/8/2022 | 1.7 | 110 | 75 | 0.64 | 7.50 | 150 | 710 |
| | 8/31/2022 | 1.2 | 120 | 100 | 0.61 | 6.97 | 190 | 830 |
| 11/15/2022 | 2.2 | 110 | 61 | 0.84 | 7.21 | 110 | 690 | |
| MW-12 (CL) down gradient | 11/19/2015 | 0.94 | 160 | H 220 | H 0.57 | 7.12 | H 650 | H 1400 |
| | 2/26/2016 | 0.42 | 130 | 200 | 0.40 | 7.96 | 530 | 1200 |
| | 5/20/2016 | 0.65 | 150 | 200 | 0.49 | 7.28 | 550 | 1400 |
| | 8/18/2016 | 0.69 | 170 | 200 | 0.46 | 7.06 | 620 | 1600 |
| | 11/18/2016 | 0.83 | 140 | 180 | 0.46 | 7.34 | 340 | 1300 |
| | 2/16/2017 | 0.48 | 140 | 190 | 0.37 | 7.54 | 630 | 1300 |
| | 5/3/2017 | 0.49 | 120 | 190 | 0.37 | 7.47 | 500 | 1200 |
| | 6/22/2017 | 0.50 | 130 | 190 | 0.48 | 7.36 | 580 | 1400 |
| | Pred. Limit | 1.0 | 136 | 77 | 0.24** | 7.73-6.83** | 107 | 788** |
| | 8/29/2017 | 0.78 | 140 | 180 | 0.52 | 7.34 | 520 | 1400 |
| | 1/10/2017 | 0.94 | 130 | 170 | 0.48 | 7.38 | 370 | 1200 |
| | 5/16/2018 | 0.46 | 100 | 180 | 0.47 | 8.12 | 720 | 1500 |
| | 8/9/2018 | 0.61 | 120 | 190 | 0.44 | 7.42 | 480 | 1300 |
| | 5/1/2019 | 0.4 | 100 | 170 | 0.38 | 7.68 | 330 | 1000 |
| | 1/14/2019 | 0.74 | 120 | 160 | 0.45 | 7.61 | 280 | 1100 |
| | 4/29/2020 | 0.34 | 71 | 150 | 0.34 | 7.96 | 360 | 980 |
| | 12/8/2020 | 0.61 | 92 | 160 | 0.56 | 7.56 | 320 | 920 |
| | 5/13/2021 | 0.4 | 89 | 140 | 0.23 | 7.39 | 350 | 990 |
| | 8/25/2021 | 0.5 | 82 | 130 | 0.46 | 7.43 | 220 | 740 |
| | 12/1/2021 | 0.53 | 72 | 130 | 0.52 | 7.38 | 170 | 730 |
| | 2/10/2022 | 0.35 | 96 | 140 | 0.27 | 7.28 | 320 | 980 |
| | 6/8/2022 | 0.49 | 98 | 140 | 0.41 | 7.65 | 320 | 950 |
| | 8/31/2022 | 0.62 | 100 | 150 | 0.49 | 7.33 | 260 | 870 |
| 11/15/2022 | 0.58 | 90 | 150 | 0.74 | 7.68 | 220 | 810 | |
| MW-15 (CL) down gradient | 11/18/2015 | 1.5 | 270 | H 210 | H 0.53 | 6.55 | H 1400 | H 2400 |
| | 2/25/2016 | 2.0 | 110 | 240 | 0.61 | 6.84 | 640 | 1700 |
| | 5/19/2016 | 2.7 | 320 | 240 | 0.53 | 6.83 | 1200 | 2800 |
| | 8/18/2016 | 1.5 | 200 | FI 170 | 0.54 | 6.96 | 660 | 1900 |
| | 11/17/2016 | 1.3 | 120 | 180 | 0.47 | 6.91 | 360 | 1900 |
| | 2/1/2017 | 1.9 | 200 | 190 | 0.43 | 7.24 | 670 | 1700 |
| | 5/4/2017 | 1.5 | 180 | 190 | 0.57 | 7.35 | 670 | 1700 |
| | 6/21/2017 | 1.6 | 180 | 200 | 0.56 | 7.30 | 530 | 1600 |
| | Pred. Limit | 1.0 | 136 | 77 | 0.24** | 7.73-6.83** | 107 | 788** |
| | 8/29/2017 | 2.2 | 190 | 200 | 0.53 | 6.87 | 540 | 1800 |
| | 1/10/2017 | 1.6 | 170 | 180 | 0.63 | 7.09 | 530 | 1500 |
| | 5/17/2018 | 2.3 | 200 | 160 | 0.5 | 6.75 | 680 | 1800 |
| | 8/9/2018 | 2.3 | 200 | 200 | 0.48 | 7.06 | 520 | 1700 |
| | 5/2/2019 | 1.5 | 180 | 200 | 0.52 | 6.89 | 420 | 1500 |
| | 1/14/2019 | 1.8 | 170 | 170 | 0.5 | 7.24 | 260 | 1300 |
| | 4/29/2020 | 1.2 | 160 | 200 | 0.58 | 6.90 | 370 | 1300 |
| | 12/8/2020 | 1.5 | 170 | 200 | 0.55 | 7.04 | 540 | 1400 |
| | 5/13/2021 | 1.3 | 180 | 180 | 0.54 | 6.97 | 520 | 1500 |
| | 8/25/2021 | 1.5 | 200 | 180 | 0.52 | 6.76 | 470 | 1500 |
| | 11/29/2021 | 1.9 | 220 | 250 | 0.48 | 6.71 | 480 | 1700 |
| | 2/9/2022 | 0.93 | 140 | 160 | 0.59 | 6.91 | 320 | 1200 |
| | 6/8/2022 | 2 | 330 | 240 | 0.43 | 6.87 | 980 | 2700 |
| | 8/31/2022 | 1.5 | 210 | 270 | 0.48 | 6.80 | 530 | 1800 |
| 11/16/2022 | 1.3 | 190 | 230 | 0.41 | 7.06 | 450 | 1600 | |
| MW-17 (CL) down gradient | 11/19/2015 | 1.6 | 210 | H 230 | H 0.43 | 7.11 | H 850 | H 1800 |
| | 2/22/2016 | 1.8 | 290 | 280 | 0.55 | 7.19 | 960 | 2100 |
| | 5/18/2016 | 1.4 | 200 | 230 | 0.64 | 7.02 | 700 | 1800 |
| | 8/15/2016 | 1.1 | 220 | 220 | 0.60 | 7.08 | 860 | 2100 |
| | 11/14/2016 | 1.5 | 200 | 210 | 0.56 | 7.26 | 560 | 2000 |
| | 2/13/2017 | 1.6 | 190 | 230 | 0.56 | 6.84 | 770 | 1600 |
| | 5/8/2017 | 1.2 | 130 | 210 | 0.61 | 7.29 | 720 | 1500 |
| | 6/22/2017 | 0.95 | 150 | 230 | 0.72 | 7.38 | 580 | 1600 |
| | Pred. Limit | 1.0 | 136 | 77 | 0.24** | 7.73-6.83** | 107 | 788** |
| | 8/29/2017 | 1.4 | 190 | 230 | 0.64 | 7.19 | 640 | 1900 |
| | 1/16/2017 | 1.7 | 190 | 240 | 0.62 | 7.27 | 840 | 1800 |
| | 5/14/2018 | 1.6 | 170 | 220 | 0.6 | 7.79 | 800 | 1700 |
| | 8/6/2018 | 1.3 | 170 | 230 | 0.6 | 7.13 | 620 | 1600 |
| | 4/29/2019 | 0.98 | 150 | 190 | 0.66 | 7.25 | 660 | 1500 |
| | 1/13/2019 | 1.9 | 230 | 600 | 0.55 | 7.16 | 730 | 2300 |
| | 4/27/2020 | 1.2 | 150 | 170 | 0.79 | 7.27 | 520 | 1300 |
| | 12/7/2020 | 1.3 | 140 | 160 | 0.8 | 7.22 | 430 | 1100 |
| | 5/12/2021 | 0.99 | 130 | 160 | 0.77 | 7.52 | 480 | 1200 |
| | 8/23/2021 | 0.92 | 140 | 150 | 0.67 | 7.37 | 500 | 1400 |
| | 1/29/2022 | 1 | 140 | 150 | 0.76 | 7.30 | 430 | 1200 |
| | 2/7/2022 | 0.9 | 140 | 160 | 0.82 | 7.27 | 430 | 1300 |
| | 6/8/2022 | 1.3 | 200 | 190 | 0.69 | 7.51 | 810 | 1900 |
| | 8/31/2022 | 1.1 | 150 | 170 | 0.73 | 7.12 | 430 | 1200 |
| 11/16/2022 | 1.1 | 150 | 170 | 0.98 | 7.56 | 530 | 1400 | |
| MW-18 (S) down gradient | 11/19/2015 | 0.80 | 140 | H 220 | H 0.66 | 7.62 | H 310 | H 1200 |
| | 2/22/2016 | 0.76 | 150 | 220 | 0.68 | 7.06 | 310 | 1200 |
| | 5/18/2016 | 0.72 | 120 | 230 | 0.71 | 7.68 | 230 | 1200 |
| | 8/15/2016 | 0.67 | 130 | 210 | 0.64 | 7.52 | 330 | 1300 |
| | 11/18/2016 | 0.94 | 130 | 200 | 0.58 | 7.69 | 250 | 1300 |
| | 2/15/2017 | 0.56 | 140 | 190 | 0.50 | 7.81 | 340 | 1200 |
| | 5/5/2017 | 0.46 | 130 | 180 | 0.52 | 8.12 | 360 | 1100 |
| | 6/21/2017 | 0.53 | 120 | 190 | 0.51 | 8.10 | 320 | 1200 |
| | Pred. Limit | 1.00 | 136 | 77 | 0.24** | 7.73-6.83** | 107 | 788** |
| | 8/28/2017 | 0.65 | 120 | 200 | 0.53 | 7.81 | 310 | 1200 |
| | 1/16/2017 | 0.67 | 120 | 190 | 0.57 | 7.74 | 400 | 1200 |
| | 5/14/2018 | 0.57 | 130 | 180 | 0.59 | 8.27 | 440 | 1200 |
| | 8/6/2018 | 0.58 | 120 | 230 | 0.57 | 7.88 | 270 | 1100 |
| | 2/29/2019 | 0.64 | 120 | 180 | 0.61 | 7.77 | 170 | 1000 |
| | 1/13/2019 | 0.79 | 130 | 180 | 0.56 | 8.26 | 210 | 1100 |
| | 4/27/2020 | 0.60 | 120 | 170 | 0.69 | 7.90 | 180 | 1000 |
| | 12/7/2020 | 0.75 | 110 | FI 150 | 0.70 | 7.70 | 160 | 910 |
| | 5/10/2021 | 0.66 | 130 | 140 | 0.66 | 8.02 | 350 | 880 |
| | 8/26/2021 | 0.52 | 140 | 140 | 0.56 | 7.97 | 340 | 1000 |
| | 12/1/2021 | 0.61 | 140 | 150 | 0.59 | 7.93 | 310 | 1200 |
| | 3/9/2022 | 0.55 | 150 | 150 | 0.60 | 7.81 | 270 | 1200 |
| | 6/6/2022 | 0.65 | 120 | 150 | 0.55 | 8.01 | 230 | 1000 |
| | 8/30/2022 | 0.66 | 130 | 160 | 0.55 | 7.82 | 240 | 1400 |
| 11/16/2022 | 0.54 | 110 | 160 | 0.63 | 7.90 | 220 | 1100 | |

Notes: All units are in mg/l except pH is in standard units. **Bold** - Potential statistically significant increase.
 Pred. Limit - Prediction Limit. FI - MS and/or MSD Recovery outside of limits.
 (S) - Sandy Unit. H - Sample was prepped or analyzed beyond the specified holding time.
 (CL) - Silty Clay Unit. V - Serial dilution exceeds control limits.
 ** - Intra-well 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. Insufficient rounds of sampling for statistical evaluation at this time.
 Italics Date - First round of Detection Monitoring and re-sample after statistical background establishment.

Table 5. Appendix IV Groundwater Analytical Results - Midwest Generation, LLC, Powerton Station, Pekin, IL. Ash By-Pass Basin Ash Surge Basin.

| Well | Date | Antimony | Arsenic | Barium | Beryllium | Cadmium | Chromium | Cobalt | Fluoride | Lead | Lithium | Mercury | Molybdenum | Radium 226 + 228 Combined | Selenium | Thallium |
|----------------------|----------------|-----------|--------------|------------|-----------|--------------|-----------|--------------|------------|--------------|-------------|--------------|-------------|---------------------------|-------------|--------------|
| MW-01 up-gradient | 11/16/2015 | < 0.003 | < 0.001 | 0.057 | ^ < 0.001 | < 0.0005 | < 0.005 | < 0.001 | 0.17 | * < 0.0005 | < 0.01 | < 0.0002 | < 0.0050 | 0.744 | < 0.0025 | * < 0.002 |
| | 2/25/2016 | < 0.003 | 0.0025 | 0.053 | < 0.001 | < 0.0005 | < 0.005 | 0.0014 | 0.16 | 0.0019 | < 0.01 | < 0.0002 | < 0.005 | < 0.722 | 0.0029 | < 0.002 |
| | 5/20/2016 | < 0.003 | 0.0081 | 0.062 | < 0.001 | < 0.0005 | 0.007 | 0.0053 | 0.17 | 0.011 | < 0.01 | < 0.0002 | < 0.005 | < 0.953 | < 0.0025 | < 0.002 |
| | 8/17/2016 | < 0.003 | 0.0014 | 0.048 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | 0.25 | 0.0014 | < 0.010 | < 0.0002 | 0.0057 | < 0.491 | < 0.0025 | < 0.002 |
| | 11/16/2016 | < 0.003 | 0.0051 | 0.056 | < 0.001 | < 0.0005 | < 0.005 | 0.0044 | 0.21 | 0.0082 | < 0.01 | < 0.0002 | 0.0059 | < 0.618 | < 0.0025 | < 0.002 |
| | 2/14/2017 | < 0.003 | 0.0041 | 0.056 | < 0.001 | < 0.0005 | < 0.005 | 0.0045 | 0.17 | 0.0076 | < 0.01 | < 0.0002 | 0.0056 | < 0.837 | < 0.0025 | < 0.002 |
| | 5/3/2017 | < 0.003 | 0.0015 | 0.045 | < 0.001 | < 0.0005 | < 0.005 | 0.0033 | 0.16 | 0.0067 | < 0.01 | < 0.0002 | < 0.005 | < 0.574 | < 0.0025 | < 0.002 |
| | 6/21/2017 | < 0.003 | < 0.001 | 0.04 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | 0.18 | < 0.0005 | < 0.01 | < 0.0002 | 0.0061 | < 0.418 | < 0.0025 | < 0.002 |
| | 8/25/2017 | < 0.003 | < 0.001 | 0.049 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | 0.18 | < 0.0005 | < 0.01 | < 0.0002 | 0.0059 | < 0.775 | < 0.0025 | < 0.002 |
| | 11/8/2017 | < 0.003 | < 0.001 | 0.083 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | 0.12 | < 0.0005 | < 0.01 | < 0.0002 | < 0.005 | 0.343 | < 0.0025 | < 0.002 |
| | GWPS | NS | 0.011 | 2.0 | NS | 0.005 | NS | 0.009 | 4.0 | 0.018 | 0.04 | 0.002 | 0.10 | 5.0 | 0.05 | 0.002 |
| | 5/17/2018 | < 0.003 | < 0.001 | 0.045 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | 0.12 | 0.00068 | < 0.01 | < 0.0002 | < 0.005 | < 0.396 | < 0.0025 | < 0.002 |
| | 8/8/2018 | < 0.003 | < 0.001 | 0.051 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | 0.13 | < 0.0005 | < 0.01 | < 0.0002 | < 0.005 | < 0.579 | < 0.0025 | < 0.002 |
| | 4/30/2019 | < 0.003 | 0.0014 | 0.039 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | 0.17 | 0.0017 | < 0.01 | < 0.0002 | < 0.005 | < 0.656 | < 0.0025 | < 0.002 |
| | 11/13/2019 | NA | 0.029 | 0.091 | NA | 0.00085 | NA | 0.016 | 0.18 | 0.034 | 0.012 | < 0.0002 | 0.0079 | 0.884 | < 0.0025 | < 0.002 |
| | 12/26/2019 (R) | NA | NA | NA | NA | NA | NA | 0.0021 | NA | 0.0041 | NA | NA | NA | NA | NA | NA |
| | 4/28/2020 | NA | < 0.001 | 0.051 | NA | < 0.0005 | NA | < 0.001 | 0.19 | < 0.0005 | < 0.01 | < 0.0002 | < 0.005 | 0.628 | < 0.0025 | < 0.002 |
| | 12/7/2020 | NA | < 0.001 | 0.058 | NA | < 0.0005 | NA | < 0.001 | 0.25 | 0.00055 | < 0.01 | < 0.0002 | 0.0051 | 0.724 | < 0.0025 | < 0.002 |
| | 5/11/2021 | < 0.003 | < 0.001 | 0.043 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | 0.2 | < 0.0005 | < 0.01 | < 0.0002 | 0.01 | < 0.523 | < 0.0025 | < 0.002 |
| | 8/24/2021 | < 0.003 | < 0.001 | 0.06 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | 0.18 | < 0.0005 | < 0.01 | < 0.0002 | 0.0069 | 1.08 | < 0.0025 | < 0.002 |
| 11/30/2021 | < 0.003 | < 0.001 | 0.06 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | 0.2 | < 0.0005 | 0.005 | < 0.0002 | 0.0072 | 1.1 | 0.0026 | < 0.002 | |
| 2/9/2022 | < 0.003 | 0.0013 | 0.051 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | 0.17 | 0.00089 | 0.0026 | < 0.0002 | 0.0075 | < 0.628 | < 0.0025 | < 0.002 | |
| 6/7/2022 | < 0.003 | < 0.001 | 0.041 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | 0.15 | < 0.0005 | < 0.01 | < 0.0002 | 0.0057 | 0.386 | < 0.0025 | < 0.002 | |
| 8/30/2022 | < 0.003 | < 0.001 | 0.076 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | 0.13 | < 0.0005 | < 0.01 | < 0.0002 | < 0.005 | 0.628 | < 0.0025 | < 0.002 | |
| 11/15/2022 | < 0.003 | < 0.001 | 0.088 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | 0.1 | < 0.0005 | < 0.01 | < 0.0002 | < 0.005 | < 0.446 | < 0.0025 | < 0.002 | |
| MW-09 up-gradient | 11/18/2015 | < 0.003 | < 0.001 | 0.027 | ^ < 0.001 | < 0.0005 | < 0.005 | < 0.001 | H 0.19 | < 0.0005 | < 0.01 | H < 0.0002 | 0.043 | < 0.655 | < 0.0025 | < 0.002 |
| | 2/25/2016 | < 0.003 | 0.0042 | 0.036 | < 0.001 | < 0.0005 | < 0.005 | 0.0011 | 0.19 | < 0.0005 | < 0.01 | < 0.0002 | 0.053 | < 0.361 | < 0.0025 | < 0.002 |
| | 5/19/2016 | < 0.003 | < 0.001 | 0.029 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | 0.17 | < 0.0005 | < 0.01 | < 0.0002 | 0.042 | < 0.394 | < 0.0025 | < 0.002 |
| | 8/17/2016 | < 0.003 | < 0.001 | 0.031 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | 0.15 | < 0.0005 | < 0.01 | < 0.0002 | 0.036 | < 0.498 | < 0.0025 | < 0.002 |
| | 11/17/2016 | < 0.003 | 0.0038 | 0.039 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | 0.13 | < 0.0005 | < 0.010 | < 0.0002 | 0.036 | < 0.646 | < 0.0025 | < 0.002 |
| | 2/15/2017 | < 0.003 | 0.0032 | 0.043 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | 0.13 | < 0.0005 | < 0.010 | < 0.0002 | 0.035 | < 0.377 | 0.0062 | < 0.002 |
| | 5/3/2017 | < 0.003 | 0.0012 | 0.034 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | 0.17 | < 0.0005 | < 0.010 | < 0.0002 | 0.034 | < 0.445 | 0.011 | < 0.002 |
| | 6/21/2017 | < 0.003 | < 0.001 | 0.037 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | 0.14 | < 0.0005 | < 0.010 | < 0.0002 | 0.033 | < 0.380 | 0.0072 | < 0.002 |
| | 8/25/2017 | < 0.003 | < 0.001 | 0.044 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | 0.14 | < 0.0005 | < 0.010 | < 0.0002 | 0.028 | < 0.160 | 0.0043 | < 0.002 |
| | 11/8/2017 | < 0.003 | 0.0012 | 0.048 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | 0.13 | < 0.0005 | < 0.010 | < 0.0002 | 0.026 | < 0.344 | < 0.0025 | < 0.002 |
| | GWPS | NS | 0.011 | 2.0 | NS | 0.005 | NS | 0.009 | 4.0 | 0.018 | 0.04 | 0.002 | 0.10 | 5.0 | 0.05 | 0.002 |
| | 5/16/2018 | < 0.003 | < 0.001 | 0.038 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | 0.15 | < 0.0005 | < 0.010 | 0.00029 | 0.031 | < 0.424 | 0.006 | < 0.002 |
| | 8/8/2018 | < 0.003 | < 0.001 | 0.037 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | 0.14 | < 0.0005 | < 0.010 | < 0.0002 | 0.032 | 0.44 | 0.0078 | < 0.002 |
| | 5/1/2019 | < 0.003 | < 0.001 | 0.038 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | 0.17 | < 0.0005 | < 0.010 | < 0.0002 | 0.031 | < 0.66 | 0.0036 | < 0.002 |
| | 11/14/2019 | NA | 0.0056 | 0.057 | NA | < 0.0005 | NA | 0.0032 | 0.18 | 0.00076 | < 0.010 | < 0.0002 | 0.026 | < 0.457 | < 0.0025 | < 0.002 |
| | 4/29/2020 | NA | 0.0012 | 0.031 | NA | < 0.0005 | NA | < 0.001 | 0.2 | < 0.0005 | < 0.010 | < 0.0002 | 0.028 | 0.698 | < 0.0025 | < 0.002 |
| | 12/8/2020 | NA | 0.0013 | 0.042 | NA | < 0.0005 | NA | < 0.001 | 0.22 | < 0.0005 | < 0.010 | < 0.0002 | 0.025 | < 0.479 | < 0.0025 | < 0.002 |
| | 5/13/2021 | < 0.003 | < 0.001 | 0.035 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | 0.2 | < 0.0005 | < 0.010 | < 0.0002 | 0.025 | < 0.612 | < 0.0025 | < 0.002 |
| | 8/25/2021 | < 0.003 | < 0.001 | 0.035 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | 0.17 | < 0.0005 | < 0.010 | < 0.0002 | 0.022 | < 0.579 | < 0.0025 | < 0.002 |
| | 12/1/2021 | < 0.003 | < 0.001 | 0.036 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | 0.2 | < 0.0005 | 0.002 | < 0.0002 | 0.028 | < 0.365 | < 0.0025 | < 0.002 |
| 2/10/2022 | < 0.003 | 0.0019 | 0.043 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | 0.23 | < 0.0005 | 0.003 | < 0.0002 | 0.03 | < 0.393 | < 0.0025 | < 0.002 | |
| 6/8/2022 | < 0.003 | 0.002 | 0.042 | < 0.001 | < 0.0005 | < 0.005 | 0.0011 | 0.21 | < 0.0005 | < 0.010 | < 0.0002 | 0.028 | < 0.548 | < 0.0025 | < 0.002 | |
| 8/31/2022 | < 0.003 | < 0.001 | 0.036 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | 0.18 | < 0.0005 | < 0.010 | < 0.0002 | 0.024 | < 0.458 | < 0.0025 | < 0.002 | |
| 11/15/2022 | < 0.003 | < 0.001 | 0.039 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | 0.25 | < 0.0005 | < 0.01 | < 0.0002 | 0.031 | < 0.448 | < 0.0025 | < 0.002 | |
| MW-19 up-gradient | 11/18/2016 | < 0.003 | < 0.001 | 0.084 | < 0.001 | < 0.0005 | < 0.005 | 0.001 | 0.13 | 0.00068 | < 0.01 | < 0.0002 | 0.035 | < 0.476 | 0.0043 | < 0.002 |
| | 2/15/2017 | < 0.003 | < 0.001 | 0.088 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | 0.13 | 0.00061 | < 0.01 | < 0.0002 | 0.046 | < 0.482 | 0.0063 | < 0.002 |
| | 5/5/2017 | < 0.003 | < 0.001 | 0.076 | < 0.001 | < 0.0005 | < 0.005 | 0.0013 | 0.14 | 0.0012 | < 0.01 | < 0.0002 | 0.035 | 0.923 | 0.0068 | < 0.002 |
| | 6/21/2017 | < 0.003 | < 0.001 | 0.089 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | 0.12 | < 0.0005 | < 0.01 | < 0.0002 | 0.024 | < 0.334 | 0.0028 | < 0.002 |
| | 8/28/2017 | < 0.003 | < 0.001 | 0.073 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | 0.16 | < 0.0005 | < 0.01 | < 0.0002 | 0.041 | 0.370 | 0.0035 | < 0.002 |
| | 11/6/2017 | < 0.003 | < 0.001 | 0.071 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | 0.17 | < 0.0005 | < 0.01 | < 0.0002 | 0.042 | 0.360 | < 0.0025 | < 0.002 |
| | 5/14/2018 | < 0.003 | < 0.001 | 0.079 | | | | | | | | | | | | |

Table 5. Appendix IV Groundwater Analytical Results - Midwest Generation, LLC, Powerton Station, Pekin, IL. Ash By-Pass Basin Ash Surge Basin.

| Well | Date | Antimony | Arsenic | Barium | Beryllium | Cadmium | Chromium | Cobalt | Fluoride | Lead | Lithium | Mercury | Molybdenum | Radium 226 + 228 Combined | Selenium | Thallium |
|------------------------|------------|---------------|--------------|------------|------------|--------------|----------|--------------|------------|--------------|-------------|--------------|-------------|---------------------------|-------------|--------------|
| MW-11 down-gradient | 11/18/2015 | < 0.003 | 0.017 | 0.18 | ^ < 0.001 | < 0.0005 | < 0.005 | 0.002 | H 0.55 | < 0.0005 | < 0.01 | H < 0.0002 | 0.0120 | 0.788 | < 0.0025 | < 0.002 |
| | 2/26/2016 | < 0.003 | 0.023 | 0.23 | < 0.001 | < 0.0005 | < 0.005 | 0.0023 | 0.55 | < 0.0005 | < 0.01 | < 0.0002 | 0.013 | 0.562 | < 0.0025 | < 0.002 |
| | 5/20/2016 | < 0.003 | 0.027 | 0.26 | < 0.001 | < 0.0005 | < 0.005 | 0.0024 | 0.56 | 0.00076 | < 0.01 | < 0.0002 | 0.014 | 0.524 | < 0.0025 | < 0.002 |
| | 8/17/2016 | < 0.003 | F1 0.29 | 1.4 | < 0.001 | < 0.0005 | < 0.005 | 0.0034 | 0.67 | 0.001 | < 0.010 | < 0.0002 | 0.011 | 1.130 | < 0.0025 | < 0.002 |
| | 11/17/2016 | < 0.003 | 0.071 | 0.44 | < 0.001 | < 0.0005 | < 0.005 | 0.0037 | 0.44 | 0.0013 | < 0.01 | < 0.0002 | 0.0088 | 0.734 | < 0.0025 | < 0.002 |
| | 2/16/2017 | < 0.003 | 0.04 | 0.3 | < 0.001 | < 0.0005 | < 0.005 | 0.003 | 0.40 | 0.00094 | < 0.01 | < 0.0002 | 0.013 | 0.341 | < 0.0025 | < 0.002 |
| | 5/3/2017 | < 0.003 | 0.039 | 0.26 | < 0.001 | < 0.0005 | < 0.005 | 0.0035 | 0.42 | 0.00093 | < 0.01 | < 0.0002 | 0.015 | 0.662 | < 0.0025 | < 0.002 |
| | 6/22/2017 | < 0.003 | 0.07 | 0.36 | < 0.001 | < 0.0005 | < 0.005 | 0.0025 | 0.60 | < 0.0005 | < 0.01 | < 0.0002 | 0.014 | < 0.418 | < 0.0025 | < 0.002 |
| | 8/29/2017 | < 0.003 | 0.017 | 0.21 | < 0.001 | < 0.0005 | < 0.005 | 0.0026 | 0.52 | < 0.0005 | < 0.01 | < 0.0002 | 0.016 | < 0.313 | < 0.0025 | < 0.002 |
| | 11/9/2017 | < 0.003 | 0.092 | 0.54 | < 0.001 | < 0.0005 | < 0.005 | 0.0034 | 0.59 | < 0.0005 | < 0.01 | < 0.0002 | 0.014 | 1.24 | < 0.0025 | < 0.002 |
| | GWPS | NS | 0.011 | 2.0 | NS | 0.005 | NS | 0.009 | 4.0 | 0.018 | 0.04 | 0.002 | 0.10 | 5.0 | 0.05 | 0.002 |
| | 5/16/2018 | < 0.003 | 0.089 | 0.47 | < 0.001 | < 0.0005 | < 0.005 | 0.0041 | 0.61 | < 0.0005 | < 0.01 | < 0.0002 | 0.014 | 1.12 | < 0.0025 | < 0.002 |
| | 8/9/2018 | < 0.003 | 0.68 | 3.0 | < 0.001 | < 0.0005 | < 0.005 | 0.0053 | 0.65 | 0.0012 | < 0.01 | < 0.0002 | 0.013 | 1.48 | < 0.0025 | < 0.002 |
| | 5/1/2019 | < 0.003 | 0.11 | 0.6 | < 0.001 | < 0.0005 | < 0.005 | 0.0026 | 0.62 | 0.0011 | < 0.01 | < 0.0002 | 0.014 | 1.59 | < 0.0025 | < 0.002 |
| | 11/14/2019 | NA | 0.14 | 0.72 | NA | < 0.0005 | NA | 0.0041 | 0.55 | 0.0021 | < 0.01 | < 0.0002 | 0.02 | 2.64 | < 0.0025 | < 0.002 |
| | 4/29/2020 | NA | 0.019 | 0.21 | NA | < 0.0005 | NA | 0.0019 | 0.62 | < 0.0005 | < 0.01 | < 0.0002 | 0.024 | 0.47 | < 0.0025 | < 0.002 |
| | 12/8/2020 | NA | 0.027 | 0.26 | NA | < 0.0005 | NA | 0.0021 | 0.67 | < 0.0005 | < 0.01 | < 0.0002 | 0.03 | < 0.523 | < 0.0025 | < 0.002 |
| | 5/13/2021 | < 0.003 | 0.024 | 0.25 | < 0.001 | < 0.0005 | < 0.005 | 0.0019 | 0.72 | < 0.0005 | 0.012 | < 0.0002 | 0.032 | 1.59 | < 0.0025 | < 0.002 |
| 8/25/2021 | < 0.003 | 0.015 | 0.16 | < 0.001 | < 0.0005 | < 0.005 | 0.0016 | 0.65 | < 0.0005 | < 0.01 | < 0.0002 | 0.03 | < 0.472 | < 0.0025 | < 0.002 | |
| 12/1/2021 | < 0.003 | 0.0993 | 0.17 | < 0.001 | < 0.0005 | < 0.005 | 0.0019 | 0.67 | < 0.0005 | 0.0067 | < 0.0002 | 0.032 | 1.3 | < 0.0025 | < 0.002 | |
| 2/10/2022 | < 0.003 | 0.015 | 0.20 | < 0.001 | < 0.0005 | < 0.005 | 0.0024 | 0.68 | 0.00059 | 0.007 | < 0.0002 | 0.027 | 0.839 | < 0.0025 | < 0.002 | |
| 6/8/2022 | < 0.003 | 0.028 | 0.20 | < 0.001 | 0.00058 | < 0.005 | 0.0018 | 0.64 | < 0.0005 | < 0.01 | < 0.0002 | 0.021 | 0.786 | < 0.0025 | < 0.002 | |
| 8/31/2022 | < 0.003 | 0.016 | 0.20 | < 0.001 | < 0.0005 | < 0.005 | 0.0017 | 0.61 | < 0.0005 | < 0.01 | < 0.0002 | 0.02 | 1.04 | < 0.0025 | < 0.002 | |
| 11/15/2022 | < 0.003 | 0.015 | 0.16 | < 0.001 | < 0.0005 | < 0.005 | 0.0017 | 0.84 | < 0.0005 | < 0.01 | < 0.0002 | 0.016 | 0.785 | < 0.0025 | < 0.002 | |
| MW-12 down-gradient | 11/19/2015 | < 0.003 | 0.10 | 0.180 | ^ < 0.001 | 0.00068 | < 0.005 | < 0.001 | H 0.57 | 0.00063 | 0.023 | H < 0.0002 | 0.0280 | < 0.685 | < 0.0025 | < 0.002 |
| | 2/26/2016 | < 0.003 | 0.077 | 0.130 | < 0.001 | 0.0016 | < 0.005 | < 0.001 | 0.40 | 0.0014 | 0.014 | < 0.0002 | 0.0150 | 1.11 | < 0.0025 | < 0.002 |
| | 5/20/2016 | < 0.003 | 0.065 | 0.16 | F1 < 0.001 | 0.00077 | < 0.005 | < 0.001 | 0.49 | 0.0016 | 0.013 | < 0.0002 | 0.028 | 0.576 | < 0.0025 | < 0.002 |
| | 8/18/2016 | < 0.003 | 0.33 | 0.88 | 0.0013 | 0.007 | < 0.005 | 0.001 | 0.49 | 0.0011 | 0.015 | < 0.0002 | 0.011 | 3.68 | < 0.0025 | < 0.002 |
| | 11/18/2016 | < 0.003 | 0.23 | 0.67 | < 0.001 | 0.0028 | < 0.005 | < 0.001 | 0.46 | < 0.0005 | 0.017 | < 0.0002 | < 0.01 | 1.86 | < 0.0025 | < 0.002 |
| | 2/16/2017 | < 0.003 | 0.29 | 0.26 | < 0.001 | 0.0057 | < 0.005 | 0.0013 | 0.37 | 0.0042 | 0.010 | < 0.0002 | 0.015 | 1.15 | < 0.0025 | < 0.002 |
| | 5/3/2017 | < 0.003 | 0.10 | 0.17 | < 0.001 | 0.0022 | < 0.005 | < 0.001 | 0.37 | 0.0038 | 0.011 | < 0.0002 | 0.017 | 0.518 | < 0.0025 | < 0.002 |
| | 6/22/2017 | < 0.003 | 0.025 | 0.11 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | 0.48 | 0.00096 | < 0.010 | < 0.0002 | 0.028 | 0.376 | < 0.0025 | < 0.002 |
| | 8/29/2017 | < 0.003 | 0.02 | 0.095 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | 0.52 | < 0.0005 | 0.014 | < 0.0002 | 0.024 | 0.529 | < 0.0025 | < 0.002 |
| | 11/10/2017 | < 0.003 | 0.50 | 0.45 | < 0.001 | 0.0015 | < 0.005 | < 0.001 | 0.48 | 0.00097 | 0.018 | < 0.0002 | 0.023 | 1.67 | < 0.0025 | < 0.002 |
| | GWPS | NS | 0.011 | 2.0 | NS | 0.005 | NS | 0.009 | 4.0 | 0.018 | 0.04 | 0.002 | 0.10 | 5.0 | 0.05 | 0.002 |
| | 5/16/2018 | < 0.003 | 0.09 | 0.1 | < 0.001 | 0.00052 | < 0.005 | < 0.001 | 0.47 | 0.00067 | 0.012 | < 0.0002 | 0.021 | 0.741 | < 0.0025 | < 0.002 |
| | 8/9/2018 | < 0.003 | 0.12 | 0.15 | < 0.001 | 0.00084 | < 0.005 | < 0.001 | 0.44 | 0.00072 | < 0.010 | < 0.0002 | 0.026 | 0.735 | < 0.0025 | < 0.002 |
| | 5/1/2019 | < 0.003 | 0.04 | 0.13 | < 0.001 | 0.00054 | < 0.005 | < 0.001 | 0.38 | 0.0012 | 0.014 | < 0.0002 | 0.011 | 0.666 | < 0.0025 | < 0.002 |
| | 11/14/2019 | NA | 0.026 | 0.072 | NA | < 0.0005 | NA | < 0.001 | 0.45 | < 0.0005 | 0.014 | < 0.0002 | 0.027 | 0.568 | < 0.0025 | < 0.002 |
| | 4/29/2020 | NA | 0.0029 | 0.034 | NA | < 0.0005 | NA | < 0.001 | 0.34 | < 0.0005 | 0.012 | < 0.0002 | 0.015 | 0.578 | < 0.0025 | < 0.002 |
| | 12/8/2020 | NA | 0.025 | 0.069 | NA | < 0.0005 | NA | < 0.001 | 0.56 | < 0.0005 | 0.012 | < 0.0002 | 0.027 | < 0.476 | < 0.0025 | < 0.002 |
| | 5/13/2021 | < 0.003 | 0.0025 | 0.058 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | 0.23 | < 0.0005 | 0.017 | < 0.0002 | 0.016 | 0.563 | < 0.0025 | < 0.002 |
| 8/25/2021 | < 0.003 | 0.0083 | 0.04 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | 0.46 | < 0.0005 | 0.017 | < 0.0002 | 0.019 | < 0.502 | < 0.0025 | < 0.002 | |
| 12/1/2021 | < 0.003 | 0.0180 | 0.045 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | 0.52 | < 0.0005 | 0.009 | < 0.0002 | 0.017 | 0.623 | < 0.0025 | < 0.002 | |
| 2/10/2022 | < 0.003 | 0.0072 | 0.059 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | 0.27 | < 0.0005 | 0.012 | < 0.0002 | 0.017 | 0.602 | < 0.0025 | < 0.002 | |
| 6/8/2022 | < 0.003 | 0.0079 | 0.064 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | 0.41 | < 0.0005 | 0.012 | < 0.0002 | 0.02 | 0.495 | < 0.0025 | < 0.002 | |
| 8/31/2022 | < 0.003 | 0.0990 | 0.11 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | 0.5 | < 0.0005 | 0.014 | < 0.0002 | 0.021 | 0.618 | < 0.0025 | < 0.002 | |
| 11/15/2022 | < 0.003 | 0.032 | 0.072 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | 0.74 | < 0.0005 | 0.014 | < 0.0002 | 0.02 | < 0.622 | < 0.0025 | < 0.002 | |
| MW-15 down-gradient | 11/18/2015 | < 0.003 | 0.03 | 0.096 | ^ < 0.001 | 0.00061 | < 0.005 | < 0.001 | H 0.53 | < 0.0005 | 0.042 | H < 0.0002 | 0.023 | < 0.599 | 0.0065 | < 0.002 |
| | 2/25/2016 | < 0.003 | 0.025 | 0.083 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | 0.61 | < 0.0005 | 0.041 | < 0.0002 | 0.035 | 0.870 | 0.045 | < 0.002 |
| | 5/19/2016 | < 0.003 | 0.04 | 0.097 | < 0.001 | 0.00098 | < 0.005 | < 0.001 | 0.53 | < 0.0005 | 0.044 | < 0.0002 | 0.041 | < 0.420 | 0.0067 | < 0.002 |
| | 8/18/2016 | < 0.003 | 0.13 | 0.11 | < 0.001 | 0.0041 | < 0.005 | < 0.001 | 0.54 | < 0.0005 | 0.028 | < 0.0002 | 0.027 | < 0.672 | 0.0061 | < 0.002 |
| | 11/17/2016 | < 0.003 | 0.0033 | 0.031 | < 0.001 | < 0.0005 | < 0.0050 | < 0.0010 | 0.47 | < 0.0005 | 0.016 | < 0.0002 | 0.018 | < 0.570 | 0.0078 | < 0.002 |
| | 2/17/2017 | < 0.003 | 0.02 | 0.056 | < 0.001 | < 0.0005 | < 0.0050 | < 0.0010 | 0.43 | < 0.0005 | 0.025 | < 0.0002 | 0.027 | < 0.392 | 0.0032 | < 0.002 |
| | 5/4/2017 | < 0.003 | 0.011 | 0.049 | < 0.001 | < 0.0005 | < 0.0050 | < 0.0010 | 0.57 | < 0.0005 | 0.023 | < 0.0002 | 0.023 | < 0.456 | 0.0034 | < 0.002 |
| | 6/21/2017 | < 0.003 | 0.0093 | 0.054 | < 0.001 | < 0.0005 | < 0.0050 | < 0.0010 | 0.56 | < 0.0005 | 0.027 | < 0.0002 | 0.03 | < 0.347 | 0.019 | < 0.002 |
| | 8/29/2017 | < 0.003 | 0.0018 | 0.044 | < 0.001 | < 0.00 | | | | | | | | | | |

Appendix A
Analytical Data Packages from 2022 Assessment Monitoring

ANALYTICAL REPORT

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-211999-1
Client Project/Site: Powerton CCR

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

Attn: Richard Gnat



Authorized for release by:
3/1/2022 3:18:04 PM

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Case Narrative

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

Job ID: 500-211999-1

Job ID: 500-211999-1

Laboratory: Eurofins Chicago

Narrative

**Job Narrative
500-211999-1**

Comments

No additional comments.

Receipt

The samples were received on 2/8/2022 4:15 PM. 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 0.3° C, 0.8° C, 2.1° C and 2.8° 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

Job ID: 500-211999-1

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

TAL 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: 500-211999-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 500-211999-1 | MW-17 | Water | 02/07/22 14:58 | 02/08/22 16:15 |
| 500-211999-2 | MW-19 | Water | 02/07/22 16:11 | 02/08/22 16:15 |
| 500-211999-3 | MW-18 | Water | 02/08/22 11:56 | 02/09/22 16:05 |
| 500-211999-4 | Duplicate | Water | 02/08/22 00:00 | 02/09/22 16:05 |
| 500-211999-5 | MW-01 | Water | 02/09/22 15:02 | 02/10/22 13:55 |
| 500-211999-6 | MW-15 | Water | 02/09/22 10:56 | 02/10/22 13:55 |
| 500-211999-7 | MW-08 | Water | 02/10/22 11:19 | 02/11/22 10:45 |
| 500-211999-8 | MW-09 | Water | 02/10/22 15:42 | 02/11/22 10:45 |
| 500-211999-9 | MW-11 | Water | 02/10/22 13:33 | 02/11/22 10:45 |
| 500-211999-10 | MW-12 | Water | 02/10/22 14:27 | 02/11/22 10:45 |

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Client Sample Results

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

Job ID: 500-211999-1

Client Sample ID: MW-17

Lab Sample ID: 500-211999-1

Date Collected: 02/07/22 14:58

Matrix: Water

Date Received: 02/08/22 16:15

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------|---------------|-----------|---------|-----|------|---|----------------|----------------|---------|
| Antimony | <0.0030 | | 0.0030 | | mg/L | | 02/18/22 10:48 | 02/19/22 00:52 | 1 |
| Arsenic | 0.0044 | | 0.0010 | | mg/L | | 02/18/22 10:48 | 02/19/22 00:52 | 1 |
| Barium | 0.026 | | 0.0025 | | mg/L | | 02/18/22 10:48 | 02/19/22 00:52 | 1 |
| Beryllium | <0.0010 | | 0.0010 | | mg/L | | 02/18/22 10:48 | 02/19/22 00:52 | 1 |
| Boron | 0.90 | | 0.25 | | mg/L | | 02/18/22 10:48 | 02/21/22 15:08 | 5 |
| Cadmium | <0.00050 | | 0.00050 | | mg/L | | 02/18/22 10:48 | 02/19/22 00:52 | 1 |
| Calcium | 140 | | 0.20 | | mg/L | | 02/18/22 10:48 | 02/19/22 00:52 | 1 |
| Chromium | <0.0050 | | 0.0050 | | mg/L | | 02/18/22 10:48 | 02/19/22 00:52 | 1 |
| Cobalt | <0.0010 | | 0.0010 | | mg/L | | 02/18/22 10:48 | 02/19/22 00:52 | 1 |
| Lead | <0.00050 | | 0.00050 | | mg/L | | 02/18/22 10:48 | 02/19/22 00:52 | 1 |
| Lithium | 0.016 | | 0.0020 | | mg/L | | 02/18/22 10:48 | 02/19/22 00:52 | 1 |
| Molybdenum | 0.038 | | 0.0050 | | mg/L | | 02/18/22 10:48 | 02/19/22 00:52 | 1 |
| Selenium | <0.0025 | | 0.0025 | | mg/L | | 02/18/22 10:48 | 02/19/22 00:52 | 1 |
| Thallium | <0.0020 | | 0.0020 | | mg/L | | 02/18/22 10:48 | 02/19/22 00:52 | 1 |

Method: 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|----------|-----------|---------|-----|------|---|----------------|----------------|---------|
| Mercury | <0.00020 | | 0.00020 | | mg/L | | 02/22/22 09:45 | 02/23/22 12:29 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|-------------|-----------|------|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 1300 | | 10 | | mg/L | | | 02/09/22 04:27 | 1 |
| Chloride | 160 | | 10 | | mg/L | | | 02/28/22 13:51 | 5 |
| Fluoride | 0.82 | | 0.10 | | mg/L | | | 02/15/22 19:27 | 1 |
| Sulfate | 430 | | 50 | | mg/L | | | 02/28/22 14:33 | 10 |

Client Sample Results

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

Job ID: 500-211999-1

Client Sample ID: MW-19
Date Collected: 02/07/22 16:11
Date Received: 02/08/22 16:15

Lab Sample ID: 500-211999-2
Matrix: Water

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------|---------------|-----------|---------|-----|------|---|----------------|----------------|---------|
| Antimony | <0.0030 | | 0.0030 | | mg/L | | 02/18/22 10:48 | 02/19/22 00:56 | 1 |
| Arsenic | <0.0010 | | 0.0010 | | mg/L | | 02/18/22 10:48 | 02/19/22 00:56 | 1 |
| Barium | 0.074 | | 0.0025 | | mg/L | | 02/18/22 10:48 | 02/19/22 00:56 | 1 |
| Beryllium | <0.0010 | | 0.0010 | | mg/L | | 02/18/22 10:48 | 02/19/22 00:56 | 1 |
| Boron | 3.9 | | 0.50 | | mg/L | | 02/18/22 10:48 | 02/21/22 15:11 | 10 |
| Cadmium | <0.00050 | | 0.00050 | | mg/L | | 02/18/22 10:48 | 02/19/22 00:56 | 1 |
| Calcium | 77 | | 0.20 | | mg/L | | 02/18/22 10:48 | 02/19/22 00:56 | 1 |
| Chromium | <0.0050 | | 0.0050 | | mg/L | | 02/18/22 10:48 | 02/19/22 00:56 | 1 |
| Cobalt | <0.0010 | | 0.0010 | | mg/L | | 02/18/22 10:48 | 02/19/22 00:56 | 1 |
| Lead | <0.00050 | | 0.00050 | | mg/L | | 02/18/22 10:48 | 02/19/22 00:56 | 1 |
| Lithium | 0.0030 | | 0.0020 | | mg/L | | 02/18/22 10:48 | 02/19/22 00:56 | 1 |
| Molybdenum | 0.043 | | 0.0050 | | mg/L | | 02/18/22 10:48 | 02/19/22 00:56 | 1 |
| Selenium | <0.0025 | | 0.0025 | | mg/L | | 02/18/22 10:48 | 02/19/22 00:56 | 1 |
| Thallium | <0.0020 | | 0.0020 | | mg/L | | 02/18/22 10:48 | 02/19/22 00:56 | 1 |

Method: 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|----------|-----------|---------|-----|------|---|----------------|----------------|---------|
| Mercury | <0.00020 | | 0.00020 | | mg/L | | 02/22/22 09:45 | 02/23/22 12:31 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|-------------|-----------|------|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 600 | | 10 | | mg/L | | | 02/09/22 04:30 | 1 |
| Chloride | 34 | | 2.0 | | mg/L | | | 02/28/22 13:51 | 1 |
| Fluoride | 0.17 | | 0.10 | | mg/L | | | 02/15/22 19:45 | 1 |
| Sulfate | 140 | | 25 | | mg/L | | | 02/28/22 14:34 | 5 |

Client Sample Results

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

Job ID: 500-211999-1

Client Sample ID: MW-18

Lab Sample ID: 500-211999-3

Date Collected: 02/08/22 11:56

Matrix: Water

Date Received: 02/09/22 16:05

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------|---------------|-----------|---------|-----|------|---|----------------|----------------|---------|
| Antimony | <0.0030 | | 0.0030 | | mg/L | | 02/18/22 10:48 | 02/19/22 00:59 | 1 |
| Arsenic | 0.010 | | 0.0010 | | mg/L | | 02/18/22 10:48 | 02/19/22 00:59 | 1 |
| Barium | 0.26 | | 0.0025 | | mg/L | | 02/18/22 10:48 | 02/19/22 00:59 | 1 |
| Beryllium | <0.0010 | | 0.0010 | | mg/L | | 02/18/22 10:48 | 02/19/22 00:59 | 1 |
| Boron | 0.55 | | 0.050 | | mg/L | | 02/18/22 10:48 | 02/21/22 15:15 | 1 |
| Cadmium | <0.00050 | | 0.00050 | | mg/L | | 02/18/22 10:48 | 02/19/22 00:59 | 1 |
| Calcium | 130 | | 0.20 | | mg/L | | 02/18/22 10:48 | 02/19/22 00:59 | 1 |
| Chromium | 0.010 | | 0.0050 | | mg/L | | 02/18/22 10:48 | 02/19/22 00:59 | 1 |
| Cobalt | 0.0034 | | 0.0010 | | mg/L | | 02/18/22 10:48 | 02/19/22 00:59 | 1 |
| Lead | 0.0050 | | 0.00050 | | mg/L | | 02/18/22 10:48 | 02/19/22 00:59 | 1 |
| Lithium | 0.014 | | 0.0020 | | mg/L | | 02/18/22 10:48 | 02/19/22 00:59 | 1 |
| Molybdenum | 0.013 | | 0.0050 | | mg/L | | 02/18/22 10:48 | 02/19/22 00:59 | 1 |
| Selenium | <0.0025 | | 0.0025 | | mg/L | | 02/18/22 10:48 | 02/19/22 00:59 | 1 |
| Thallium | <0.0020 | | 0.0020 | | mg/L | | 02/18/22 10:48 | 02/19/22 00:59 | 1 |

Method: 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|----------|-----------|---------|-----|------|---|----------------|----------------|---------|
| Mercury | <0.00020 | | 0.00020 | | mg/L | | 02/22/22 09:45 | 02/23/22 12:34 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|-------------|-----------|------|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 1200 | | 10 | | mg/L | | | 02/10/22 05:00 | 1 |
| Chloride | 150 | | 10 | | mg/L | | | 02/28/22 13:52 | 5 |
| Fluoride | 0.60 | | 0.10 | | mg/L | | | 02/15/22 20:04 | 1 |
| Sulfate | 270 | | 50 | | mg/L | | | 02/28/22 14:55 | 10 |

Client Sample Results

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

Job ID: 500-211999-1

Client Sample ID: Duplicate

Lab Sample ID: 500-211999-4

Date Collected: 02/08/22 00:00

Matrix: Water

Date Received: 02/09/22 16:05

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------|----------------|-----------|---------|-----|------|---|----------------|----------------|---------|
| Antimony | <0.0030 | | 0.0030 | | mg/L | | 02/18/22 10:48 | 02/19/22 01:03 | 1 |
| Arsenic | 0.0041 | | 0.0010 | | mg/L | | 02/18/22 10:48 | 02/19/22 01:03 | 1 |
| Barium | 0.16 | | 0.0025 | | mg/L | | 02/18/22 10:48 | 02/19/22 01:03 | 1 |
| Beryllium | <0.0010 | | 0.0010 | | mg/L | | 02/18/22 10:48 | 02/19/22 01:03 | 1 |
| Boron | 0.64 | | 0.10 | | mg/L | | 02/18/22 10:48 | 02/21/22 15:18 | 2 |
| Cadmium | <0.00050 | | 0.00050 | | mg/L | | 02/18/22 10:48 | 02/19/22 01:03 | 1 |
| Calcium | 140 | | 0.20 | | mg/L | | 02/18/22 10:48 | 02/19/22 01:03 | 1 |
| Chromium | <0.0050 | | 0.0050 | | mg/L | | 02/18/22 10:48 | 02/19/22 01:03 | 1 |
| Cobalt | <0.0010 | | 0.0010 | | mg/L | | 02/18/22 10:48 | 02/19/22 01:03 | 1 |
| Lead | 0.00061 | | 0.00050 | | mg/L | | 02/18/22 10:48 | 02/19/22 01:03 | 1 |
| Lithium | 0.011 | | 0.0020 | | mg/L | | 02/18/22 10:48 | 02/19/22 01:03 | 1 |
| Molybdenum | 0.0093 | | 0.0050 | | mg/L | | 02/18/22 10:48 | 02/19/22 01:03 | 1 |
| Selenium | <0.0025 | | 0.0025 | | mg/L | | 02/18/22 10:48 | 02/19/22 01:03 | 1 |
| Thallium | <0.0020 | | 0.0020 | | mg/L | | 02/18/22 10:48 | 02/19/22 01:03 | 1 |

Method: 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|----------|-----------|---------|-----|------|---|----------------|----------------|---------|
| Mercury | <0.00020 | | 0.00020 | | mg/L | | 02/22/22 09:45 | 02/23/22 12:36 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|-------------|-----------|------|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 1100 | | 10 | | mg/L | | | 02/10/22 05:03 | 1 |
| Chloride | 150 | | 10 | | mg/L | | | 02/28/22 13:53 | 5 |
| Fluoride | 0.58 | | 0.10 | | mg/L | | | 02/15/22 20:09 | 1 |
| Sulfate | 240 | | 25 | | mg/L | | | 02/28/22 14:55 | 5 |

Client Sample Results

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

Job ID: 500-211999-1

Client Sample ID: MW-01

Lab Sample ID: 500-211999-5

Date Collected: 02/09/22 15:02

Matrix: Water

Date Received: 02/10/22 13:55

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------|----------------|-----------|---------|-----|------|---|----------------|----------------|---------|
| Antimony | <0.0030 | | 0.0030 | | mg/L | | 02/18/22 10:48 | 02/19/22 01:13 | 1 |
| Arsenic | 0.0013 | | 0.0010 | | mg/L | | 02/18/22 10:48 | 02/19/22 01:13 | 1 |
| Barium | 0.051 | | 0.0025 | | mg/L | | 02/18/22 10:48 | 02/19/22 01:13 | 1 |
| Beryllium | <0.0010 | | 0.0010 | | mg/L | | 02/18/22 10:48 | 02/19/22 01:13 | 1 |
| Boron | 0.18 | | 0.050 | | mg/L | | 02/18/22 10:48 | 02/21/22 15:21 | 1 |
| Cadmium | <0.00050 | | 0.00050 | | mg/L | | 02/18/22 10:48 | 02/19/22 01:13 | 1 |
| Calcium | 95 | | 0.20 | | mg/L | | 02/18/22 10:48 | 02/19/22 01:13 | 1 |
| Chromium | <0.0050 | | 0.0050 | | mg/L | | 02/18/22 10:48 | 02/19/22 01:13 | 1 |
| Cobalt | <0.0010 | | 0.0010 | | mg/L | | 02/18/22 10:48 | 02/19/22 01:13 | 1 |
| Lead | 0.00089 | | 0.00050 | | mg/L | | 02/18/22 10:48 | 02/19/22 01:13 | 1 |
| Lithium | 0.0026 | | 0.0020 | | mg/L | | 02/18/22 10:48 | 02/19/22 01:13 | 1 |
| Molybdenum | 0.0075 | | 0.0050 | | mg/L | | 02/18/22 10:48 | 02/19/22 01:13 | 1 |
| Selenium | <0.0025 | | 0.0025 | | mg/L | | 02/18/22 10:48 | 02/19/22 01:13 | 1 |
| Thallium | <0.0020 | | 0.0020 | | mg/L | | 02/18/22 10:48 | 02/19/22 01:13 | 1 |

Method: 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|----------|-----------|---------|-----|------|---|----------------|----------------|---------|
| Mercury | <0.00020 | | 0.00020 | | mg/L | | 02/22/22 09:45 | 02/23/22 12:39 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|-------------|-----------|------|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 520 | | 10 | | mg/L | | | 02/11/22 05:00 | 1 |
| Chloride | 47 | | 4.0 | | mg/L | | | 02/28/22 13:53 | 2 |
| Fluoride | 0.17 | | 0.10 | | mg/L | | | 02/15/22 20:13 | 1 |
| Sulfate | 47 | | 5.0 | | mg/L | | | 02/28/22 14:33 | 1 |

Client Sample Results

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

Job ID: 500-211999-1

Client Sample ID: MW-15

Lab Sample ID: 500-211999-6

Date Collected: 02/09/22 10:56

Matrix: Water

Date Received: 02/10/22 13:55

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------|---------------|-----------|---------|-----|------|---|----------------|----------------|---------|
| Antimony | <0.0030 | | 0.0030 | | mg/L | | 02/18/22 10:48 | 02/19/22 01:17 | 1 |
| Arsenic | 0.0080 | | 0.0010 | | mg/L | | 02/18/22 10:48 | 02/19/22 01:17 | 1 |
| Barium | 0.055 | | 0.0025 | | mg/L | | 02/18/22 10:48 | 02/19/22 01:17 | 1 |
| Beryllium | <0.0010 | | 0.0010 | | mg/L | | 02/18/22 10:48 | 02/19/22 01:17 | 1 |
| Boron | 0.93 | | 0.25 | | mg/L | | 02/18/22 10:48 | 02/21/22 15:25 | 5 |
| Cadmium | <0.00050 | | 0.00050 | | mg/L | | 02/18/22 10:48 | 02/19/22 01:17 | 1 |
| Calcium | 140 | | 0.20 | | mg/L | | 02/18/22 10:48 | 02/19/22 01:17 | 1 |
| Chromium | <0.0050 | | 0.0050 | | mg/L | | 02/18/22 10:48 | 02/19/22 01:17 | 1 |
| Cobalt | <0.0010 | | 0.0010 | | mg/L | | 02/18/22 10:48 | 02/19/22 01:17 | 1 |
| Lead | <0.00050 | | 0.00050 | | mg/L | | 02/18/22 10:48 | 02/19/22 01:17 | 1 |
| Lithium | 0.024 | | 0.0020 | | mg/L | | 02/18/22 10:48 | 02/19/22 01:17 | 1 |
| Molybdenum | 0.014 | | 0.0050 | | mg/L | | 02/18/22 10:48 | 02/19/22 01:17 | 1 |
| Selenium | 0.0034 | | 0.0025 | | mg/L | | 02/18/22 10:48 | 02/19/22 01:17 | 1 |
| Thallium | <0.0020 | | 0.0020 | | mg/L | | 02/18/22 10:48 | 02/19/22 01:17 | 1 |

Method: 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|----------|-----------|---------|-----|------|---|----------------|----------------|---------|
| Mercury | <0.00020 | | 0.00020 | | mg/L | | 02/22/22 09:45 | 02/23/22 12:41 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|-------------|-----------|------|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 1200 | | 10 | | mg/L | | | 02/11/22 05:03 | 1 |
| Chloride | 160 | | 10 | | mg/L | | | 02/28/22 13:54 | 5 |
| Fluoride | 0.59 | | 0.10 | | mg/L | | | 02/15/22 20:16 | 1 |
| Sulfate | 320 | | 50 | | mg/L | | | 02/28/22 14:34 | 10 |

Client Sample Results

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

Job ID: 500-211999-1

Client Sample ID: MW-08

Lab Sample ID: 500-211999-7

Date Collected: 02/10/22 11:19

Matrix: Water

Date Received: 02/11/22 10:45

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------|---------------|-----------|---------|-----|------|---|----------------|----------------|---------|
| Antimony | <0.0030 | | 0.0030 | | mg/L | | 02/18/22 10:48 | 02/19/22 01:20 | 1 |
| Arsenic | 0.0029 | | 0.0010 | | mg/L | | 02/18/22 10:48 | 02/19/22 01:20 | 1 |
| Barium | 0.13 | | 0.0025 | | mg/L | | 02/18/22 10:48 | 02/19/22 01:20 | 1 |
| Beryllium | <0.0010 | | 0.0010 | | mg/L | | 02/18/22 10:48 | 02/19/22 01:20 | 1 |
| Boron | 0.81 | | 0.25 | | mg/L | | 02/18/22 10:48 | 02/21/22 15:28 | 5 |
| Cadmium | <0.00050 | | 0.00050 | | mg/L | | 02/18/22 10:48 | 02/19/22 01:20 | 1 |
| Calcium | 110 | | 0.20 | | mg/L | | 02/18/22 10:48 | 02/19/22 01:20 | 1 |
| Chromium | <0.0050 | | 0.0050 | | mg/L | | 02/18/22 10:48 | 02/19/22 01:20 | 1 |
| Cobalt | <0.0010 | | 0.0010 | | mg/L | | 02/18/22 10:48 | 02/19/22 01:20 | 1 |
| Lead | <0.00050 | | 0.00050 | | mg/L | | 02/18/22 10:48 | 02/19/22 01:20 | 1 |
| Lithium | 0.023 | | 0.0020 | | mg/L | | 02/18/22 10:48 | 02/19/22 01:20 | 1 |
| Molybdenum | 0.0092 | | 0.0050 | | mg/L | | 02/18/22 10:48 | 02/19/22 01:20 | 1 |
| Selenium | <0.0025 | | 0.0025 | | mg/L | | 02/18/22 10:48 | 02/19/22 01:20 | 1 |
| Thallium | <0.0020 | | 0.0020 | | mg/L | | 02/18/22 10:48 | 02/19/22 01:20 | 1 |

Method: 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|----------|-----------|---------|-----|------|---|----------------|----------------|---------|
| Mercury | <0.00020 | | 0.00020 | | mg/L | | 02/22/22 09:45 | 02/23/22 12:57 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|-------------|-----------|------|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 670 | | 10 | | mg/L | | | 02/14/22 03:44 | 1 |
| Chloride | 130 | | 10 | | mg/L | | | 02/28/22 13:54 | 5 |
| Fluoride | 0.37 | | 0.10 | | mg/L | | | 02/15/22 20:22 | 1 |
| Sulfate | 55 | | 10 | | mg/L | | | 02/28/22 14:35 | 2 |

Client Sample Results

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

Job ID: 500-211999-1

Client Sample ID: MW-09

Lab Sample ID: 500-211999-8

Date Collected: 02/10/22 15:42

Matrix: Water

Date Received: 02/11/22 10:45

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------|---------------|-----------|---------|-----|------|---|----------------|----------------|---------|
| Antimony | <0.0030 | | 0.0030 | | mg/L | | 02/18/22 10:48 | 02/19/22 01:24 | 1 |
| Arsenic | 0.0019 | | 0.0010 | | mg/L | | 02/18/22 10:48 | 02/19/22 01:24 | 1 |
| Barium | 0.043 | | 0.0025 | | mg/L | | 02/18/22 10:48 | 02/19/22 01:24 | 1 |
| Beryllium | <0.0010 | | 0.0010 | | mg/L | | 02/18/22 10:48 | 02/19/22 01:24 | 1 |
| Boron | 3.5 | | 0.50 | | mg/L | | 02/18/22 10:48 | 02/21/22 15:32 | 10 |
| Cadmium | <0.00050 | | 0.00050 | | mg/L | | 02/18/22 10:48 | 02/19/22 01:24 | 1 |
| Calcium | 79 | | 0.20 | | mg/L | | 02/18/22 10:48 | 02/19/22 01:24 | 1 |
| Chromium | <0.0050 | | 0.0050 | | mg/L | | 02/18/22 10:48 | 02/19/22 01:24 | 1 |
| Cobalt | <0.0010 | | 0.0010 | | mg/L | | 02/18/22 10:48 | 02/19/22 01:24 | 1 |
| Lead | <0.00050 | | 0.00050 | | mg/L | | 02/18/22 10:48 | 02/19/22 01:24 | 1 |
| Lithium | 0.0028 | | 0.0020 | | mg/L | | 02/18/22 10:48 | 02/19/22 01:24 | 1 |
| Molybdenum | 0.030 | | 0.0050 | | mg/L | | 02/18/22 10:48 | 02/19/22 01:24 | 1 |
| Selenium | <0.0025 | | 0.0025 | | mg/L | | 02/18/22 10:48 | 02/19/22 01:24 | 1 |
| Thallium | <0.0020 | | 0.0020 | | mg/L | | 02/18/22 10:48 | 02/19/22 01:24 | 1 |

Method: 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|----------|-----------|---------|-----|------|---|----------------|----------------|---------|
| Mercury | <0.00020 | | 0.00020 | | mg/L | | 02/22/22 09:45 | 02/23/22 12:59 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|-------------|-----------|------|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 510 | | 10 | | mg/L | | | 02/14/22 03:51 | 1 |
| Chloride | 33 | | 2.0 | | mg/L | | | 02/28/22 13:33 | 1 |
| Fluoride | 0.23 | | 0.10 | | mg/L | | | 02/15/22 20:25 | 1 |
| Sulfate | 120 | | 25 | | mg/L | | | 02/28/22 14:55 | 5 |

Client Sample Results

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

Job ID: 500-211999-1

Client Sample ID: MW-11

Lab Sample ID: 500-211999-9

Date Collected: 02/10/22 13:33

Matrix: Water

Date Received: 02/11/22 10:45

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------|----------------|-----------|---------|-----|------|---|----------------|----------------|---------|
| Antimony | <0.0030 | | 0.0030 | | mg/L | | 02/18/22 10:48 | 02/19/22 01:27 | 1 |
| Arsenic | 0.015 | | 0.0010 | | mg/L | | 02/18/22 10:48 | 02/19/22 01:27 | 1 |
| Barium | 0.20 | | 0.0025 | | mg/L | | 02/18/22 10:48 | 02/19/22 01:27 | 1 |
| Beryllium | <0.0010 | | 0.0010 | | mg/L | | 02/18/22 10:48 | 02/19/22 01:27 | 1 |
| Boron | 0.93 | | 0.10 | | mg/L | | 02/18/22 10:48 | 02/21/22 15:35 | 2 |
| Cadmium | <0.00050 | | 0.00050 | | mg/L | | 02/18/22 10:48 | 02/19/22 01:27 | 1 |
| Calcium | 110 | | 0.20 | | mg/L | | 02/18/22 10:48 | 02/19/22 01:27 | 1 |
| Chromium | <0.0050 | | 0.0050 | | mg/L | | 02/18/22 10:48 | 02/19/22 01:27 | 1 |
| Cobalt | 0.0024 | | 0.0010 | | mg/L | | 02/18/22 10:48 | 02/19/22 01:27 | 1 |
| Lead | 0.00059 | | 0.00050 | | mg/L | | 02/18/22 10:48 | 02/19/22 01:27 | 1 |
| Lithium | 0.0070 | | 0.0020 | | mg/L | | 02/18/22 10:48 | 02/19/22 01:27 | 1 |
| Molybdenum | 0.027 | | 0.0050 | | mg/L | | 02/18/22 10:48 | 02/19/22 01:27 | 1 |
| Selenium | <0.0025 | | 0.0025 | | mg/L | | 02/18/22 10:48 | 02/19/22 01:27 | 1 |
| Thallium | <0.0020 | | 0.0020 | | mg/L | | 02/18/22 10:48 | 02/19/22 01:27 | 1 |

Method: 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|----------|-----------|---------|-----|------|---|----------------|----------------|---------|
| Mercury | <0.00020 | | 0.00020 | | mg/L | | 02/22/22 09:45 | 02/23/22 13:02 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|-------------|-----------|------|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 920 | | 10 | | mg/L | | | 02/14/22 03:57 | 1 |
| Chloride | 110 | | 10 | | mg/L | | | 02/28/22 13:54 | 5 |
| Fluoride | 0.68 | | 0.10 | | mg/L | | | 02/15/22 20:31 | 1 |
| Sulfate | 220 | | 25 | | mg/L | | | 02/28/22 14:35 | 5 |

Client Sample Results

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

Job ID: 500-211999-1

Client Sample ID: MW-12
Date Collected: 02/10/22 14:27
Date Received: 02/11/22 10:45

Lab Sample ID: 500-211999-10
Matrix: Water

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------|---------------|-----------|---------|-----|------|---|----------------|----------------|---------|
| Antimony | <0.0030 | | 0.0030 | | mg/L | | 02/18/22 10:48 | 02/19/22 01:30 | 1 |
| Arsenic | 0.0072 | | 0.0010 | | mg/L | | 02/18/22 10:48 | 02/19/22 01:30 | 1 |
| Barium | 0.059 | | 0.0025 | | mg/L | | 02/18/22 10:48 | 02/19/22 01:30 | 1 |
| Beryllium | <0.0010 | | 0.0010 | | mg/L | | 02/18/22 10:48 | 02/19/22 01:30 | 1 |
| Boron | 0.35 | | 0.050 | | mg/L | | 02/18/22 10:48 | 02/21/22 15:50 | 1 |
| Cadmium | <0.00050 | | 0.00050 | | mg/L | | 02/18/22 10:48 | 02/19/22 01:30 | 1 |
| Calcium | 96 | | 0.20 | | mg/L | | 02/18/22 10:48 | 02/19/22 01:30 | 1 |
| Chromium | <0.0050 | | 0.0050 | | mg/L | | 02/18/22 10:48 | 02/19/22 01:30 | 1 |
| Cobalt | <0.0010 | | 0.0010 | | mg/L | | 02/18/22 10:48 | 02/19/22 01:30 | 1 |
| Lead | <0.00050 | | 0.00050 | | mg/L | | 02/18/22 10:48 | 02/19/22 01:30 | 1 |
| Lithium | 0.012 | | 0.0020 | | mg/L | | 02/18/22 10:48 | 02/19/22 01:30 | 1 |
| Molybdenum | 0.017 | | 0.0050 | | mg/L | | 02/18/22 10:48 | 02/19/22 01:30 | 1 |
| Selenium | <0.0025 | | 0.0025 | | mg/L | | 02/18/22 10:48 | 02/19/22 01:30 | 1 |
| Thallium | <0.0020 | | 0.0020 | | mg/L | | 02/18/22 10:48 | 02/19/22 01:30 | 1 |

Method: 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|----------|-----------|---------|-----|------|---|----------------|----------------|---------|
| Mercury | <0.00020 | | 0.00020 | | mg/L | | 02/22/22 09:45 | 02/23/22 13:04 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|-------------|-----------|------|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 980 | | 10 | | mg/L | | | 02/14/22 03:59 | 1 |
| Chloride | 140 | | 10 | | mg/L | | | 02/28/22 13:55 | 5 |
| Fluoride | 0.27 | | 0.10 | | mg/L | | | 02/15/22 20:34 | 1 |
| Sulfate | 320 | | 50 | | mg/L | | | 02/28/22 14:56 | 10 |

Definitions/Glossary

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

Job ID: 500-211999-1

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

Job ID: 500-211999-1

Metals

Prep Batch: 643201

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-------------------|--------|--------|------------|
| 500-211999-1 | MW-17 | Total Recoverable | Water | 3005A | |
| 500-211999-2 | MW-19 | Total Recoverable | Water | 3005A | |
| 500-211999-3 | MW-18 | Total Recoverable | Water | 3005A | |
| 500-211999-4 | Duplicate | Total Recoverable | Water | 3005A | |
| 500-211999-5 | MW-01 | Total Recoverable | Water | 3005A | |
| 500-211999-6 | MW-15 | Total Recoverable | Water | 3005A | |
| 500-211999-7 | MW-08 | Total Recoverable | Water | 3005A | |
| 500-211999-8 | MW-09 | Total Recoverable | Water | 3005A | |
| 500-211999-9 | MW-11 | Total Recoverable | Water | 3005A | |
| 500-211999-10 | MW-12 | Total Recoverable | Water | 3005A | |
| MB 500-643201/1-A | Method Blank | Total Recoverable | Water | 3005A | |
| LCS 500-643201/2-A | Lab Control Sample | Total Recoverable | Water | 3005A | |

Analysis Batch: 643537

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-------------------|--------|--------|------------|
| 500-211999-1 | MW-17 | Total Recoverable | Water | 6020A | 643201 |
| 500-211999-2 | MW-19 | Total Recoverable | Water | 6020A | 643201 |
| 500-211999-3 | MW-18 | Total Recoverable | Water | 6020A | 643201 |
| 500-211999-4 | Duplicate | Total Recoverable | Water | 6020A | 643201 |
| 500-211999-5 | MW-01 | Total Recoverable | Water | 6020A | 643201 |
| 500-211999-6 | MW-15 | Total Recoverable | Water | 6020A | 643201 |
| 500-211999-7 | MW-08 | Total Recoverable | Water | 6020A | 643201 |
| 500-211999-8 | MW-09 | Total Recoverable | Water | 6020A | 643201 |
| 500-211999-9 | MW-11 | Total Recoverable | Water | 6020A | 643201 |
| 500-211999-10 | MW-12 | Total Recoverable | Water | 6020A | 643201 |
| MB 500-643201/1-A | Method Blank | Total Recoverable | Water | 6020A | 643201 |
| LCS 500-643201/2-A | Lab Control Sample | Total Recoverable | Water | 6020A | 643201 |

Analysis Batch: 643796

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-------------------|--------|--------|------------|
| 500-211999-1 | MW-17 | Total Recoverable | Water | 6020A | 643201 |
| 500-211999-2 | MW-19 | Total Recoverable | Water | 6020A | 643201 |
| 500-211999-3 | MW-18 | Total Recoverable | Water | 6020A | 643201 |
| 500-211999-4 | Duplicate | Total Recoverable | Water | 6020A | 643201 |
| 500-211999-5 | MW-01 | Total Recoverable | Water | 6020A | 643201 |
| 500-211999-6 | MW-15 | Total Recoverable | Water | 6020A | 643201 |
| 500-211999-7 | MW-08 | Total Recoverable | Water | 6020A | 643201 |
| 500-211999-8 | MW-09 | Total Recoverable | Water | 6020A | 643201 |
| 500-211999-9 | MW-11 | Total Recoverable | Water | 6020A | 643201 |
| 500-211999-10 | MW-12 | Total Recoverable | Water | 6020A | 643201 |
| MB 500-643201/1-A | Method Blank | Total Recoverable | Water | 6020A | 643201 |
| LCS 500-643201/2-A | Lab Control Sample | Total Recoverable | Water | 6020A | 643201 |

Prep Batch: 643799

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|--------|------------|
| 500-211999-1 | MW-17 | Total/NA | Water | 7470A | |
| 500-211999-2 | MW-19 | Total/NA | Water | 7470A | |
| 500-211999-3 | MW-18 | Total/NA | Water | 7470A | |
| 500-211999-4 | Duplicate | Total/NA | Water | 7470A | |
| 500-211999-5 | MW-01 | Total/NA | Water | 7470A | |
| 500-211999-6 | MW-15 | Total/NA | Water | 7470A | |

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QC Association Summary

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

Job ID: 500-211999-1

Metals (Continued)

Prep Batch: 643799 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|--------------------|-----------|--------|--------|------------|
| 500-211999-7 | MW-08 | Total/NA | Water | 7470A | |
| 500-211999-8 | MW-09 | Total/NA | Water | 7470A | |
| 500-211999-9 | MW-11 | Total/NA | Water | 7470A | |
| 500-211999-10 | MW-12 | Total/NA | Water | 7470A | |
| MB 500-643799/12-A | Method Blank | Total/NA | Water | 7470A | |
| LCS 500-643799/13-A | Lab Control Sample | Total/NA | Water | 7470A | |
| 500-211999-6 MS | MW-15 | Total/NA | Water | 7470A | |
| 500-211999-6 MSD | MW-15 | Total/NA | Water | 7470A | |
| 500-211999-6 DU | MW-15 | Total/NA | Water | 7470A | |

Analysis Batch: 644140

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|--------------------|-----------|--------|--------|------------|
| 500-211999-1 | MW-17 | Total/NA | Water | 7470A | 643799 |
| 500-211999-2 | MW-19 | Total/NA | Water | 7470A | 643799 |
| 500-211999-3 | MW-18 | Total/NA | Water | 7470A | 643799 |
| 500-211999-4 | Duplicate | Total/NA | Water | 7470A | 643799 |
| 500-211999-5 | MW-01 | Total/NA | Water | 7470A | 643799 |
| 500-211999-6 | MW-15 | Total/NA | Water | 7470A | 643799 |
| 500-211999-7 | MW-08 | Total/NA | Water | 7470A | 643799 |
| 500-211999-8 | MW-09 | Total/NA | Water | 7470A | 643799 |
| 500-211999-9 | MW-11 | Total/NA | Water | 7470A | 643799 |
| 500-211999-10 | MW-12 | Total/NA | Water | 7470A | 643799 |
| MB 500-643799/12-A | Method Blank | Total/NA | Water | 7470A | 643799 |
| LCS 500-643799/13-A | Lab Control Sample | Total/NA | Water | 7470A | 643799 |
| 500-211999-6 MS | MW-15 | Total/NA | Water | 7470A | 643799 |
| 500-211999-6 MSD | MW-15 | Total/NA | Water | 7470A | 643799 |
| 500-211999-6 DU | MW-15 | Total/NA | Water | 7470A | 643799 |

General Chemistry

Analysis Batch: 641481

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|----------|------------|
| 500-211999-1 | MW-17 | Total/NA | Water | SM 2540C | |
| 500-211999-2 | MW-19 | Total/NA | Water | SM 2540C | |
| MB 500-641481/1 | Method Blank | Total/NA | Water | SM 2540C | |
| LCS 500-641481/2 | Lab Control Sample | Total/NA | Water | SM 2540C | |

Analysis Batch: 641700

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|----------|------------|
| 500-211999-3 | MW-18 | Total/NA | Water | SM 2540C | |
| 500-211999-4 | Duplicate | Total/NA | Water | SM 2540C | |
| MB 500-641700/1 | Method Blank | Total/NA | Water | SM 2540C | |
| LCS 500-641700/2 | Lab Control Sample | Total/NA | Water | SM 2540C | |

Analysis Batch: 641914

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|----------|------------|
| 500-211999-5 | MW-01 | Total/NA | Water | SM 2540C | |
| 500-211999-6 | MW-15 | Total/NA | Water | SM 2540C | |
| MB 500-641914/1 | Method Blank | Total/NA | Water | SM 2540C | |
| LCS 500-641914/2 | Lab Control Sample | Total/NA | Water | SM 2540C | |

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QC Association Summary

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

Job ID: 500-211999-1

General Chemistry

Analysis Batch: 642215

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|----------|------------|
| 500-211999-7 | MW-08 | Total/NA | Water | SM 2540C | |
| 500-211999-8 | MW-09 | Total/NA | Water | SM 2540C | |
| 500-211999-9 | MW-11 | Total/NA | Water | SM 2540C | |
| 500-211999-10 | MW-12 | Total/NA | Water | SM 2540C | |
| MB 500-642215/1 | Method Blank | Total/NA | Water | SM 2540C | |
| LCS 500-642215/2 | Lab Control Sample | Total/NA | Water | SM 2540C | |
| 500-211999-7 MS | MW-08 | Total/NA | Water | SM 2540C | |
| 500-211999-7 DU | MW-08 | Total/NA | Water | SM 2540C | |
| 500-211999-8 DU | MW-09 | Total/NA | Water | SM 2540C | |

Analysis Batch: 642706

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|-------------|------------|
| 500-211999-1 | MW-17 | Total/NA | Water | SM 4500 F C | |
| 500-211999-2 | MW-19 | Total/NA | Water | SM 4500 F C | |
| 500-211999-3 | MW-18 | Total/NA | Water | SM 4500 F C | |
| 500-211999-4 | Duplicate | Total/NA | Water | SM 4500 F C | |
| 500-211999-5 | MW-01 | Total/NA | Water | SM 4500 F C | |
| 500-211999-6 | MW-15 | Total/NA | Water | SM 4500 F C | |
| 500-211999-7 | MW-08 | Total/NA | Water | SM 4500 F C | |
| 500-211999-8 | MW-09 | Total/NA | Water | SM 4500 F C | |
| 500-211999-9 | MW-11 | Total/NA | Water | SM 4500 F C | |
| 500-211999-10 | MW-12 | Total/NA | Water | SM 4500 F C | |
| MB 500-642706/31 | Method Blank | Total/NA | Water | SM 4500 F C | |
| LCS 500-642706/32 | Lab Control Sample | Total/NA | Water | SM 4500 F C | |
| 500-211999-1 MS | MW-17 | Total/NA | Water | SM 4500 F C | |
| 500-211999-1 MSD | MW-17 | Total/NA | Water | SM 4500 F C | |

Analysis Batch: 644868

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|---------------|------------|
| 500-211999-1 | MW-17 | Total/NA | Water | SM 4500 Cl- E | |
| 500-211999-2 | MW-19 | Total/NA | Water | SM 4500 Cl- E | |
| 500-211999-3 | MW-18 | Total/NA | Water | SM 4500 Cl- E | |
| 500-211999-4 | Duplicate | Total/NA | Water | SM 4500 Cl- E | |
| 500-211999-5 | MW-01 | Total/NA | Water | SM 4500 Cl- E | |
| 500-211999-6 | MW-15 | Total/NA | Water | SM 4500 Cl- E | |
| 500-211999-7 | MW-08 | Total/NA | Water | SM 4500 Cl- E | |
| 500-211999-8 | MW-09 | Total/NA | Water | SM 4500 Cl- E | |
| 500-211999-9 | MW-11 | Total/NA | Water | SM 4500 Cl- E | |
| 500-211999-10 | MW-12 | Total/NA | Water | SM 4500 Cl- E | |
| MB 500-644868/16 | Method Blank | Total/NA | Water | SM 4500 Cl- E | |
| LCS 500-644868/17 | Lab Control Sample | Total/NA | Water | SM 4500 Cl- E | |
| 500-211999-2 MS | MW-19 | Total/NA | Water | SM 4500 Cl- E | |
| 500-211999-2 MSD | MW-19 | Total/NA | Water | SM 4500 Cl- E | |

Analysis Batch: 644883

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|---------------|------------|
| 500-211999-1 | MW-17 | Total/NA | Water | SM 4500 SO4 E | |
| 500-211999-2 | MW-19 | Total/NA | Water | SM 4500 SO4 E | |
| 500-211999-3 | MW-18 | Total/NA | Water | SM 4500 SO4 E | |
| 500-211999-4 | Duplicate | Total/NA | Water | SM 4500 SO4 E | |
| 500-211999-5 | MW-01 | Total/NA | Water | SM 4500 SO4 E | |

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QC Association Summary

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

Job ID: 500-211999-1

General Chemistry (Continued)

Analysis Batch: 644883 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|---------------|------------|
| 500-211999-6 | MW-15 | Total/NA | Water | SM 4500 SO4 E | |
| 500-211999-7 | MW-08 | Total/NA | Water | SM 4500 SO4 E | |
| 500-211999-8 | MW-09 | Total/NA | Water | SM 4500 SO4 E | |
| 500-211999-9 | MW-11 | Total/NA | Water | SM 4500 SO4 E | |
| 500-211999-10 | MW-12 | Total/NA | Water | SM 4500 SO4 E | |
| MB 500-644883/15 | Method Blank | Total/NA | Water | SM 4500 SO4 E | |
| LCS 500-644883/16 | Lab Control Sample | Total/NA | Water | SM 4500 SO4 E | |



QC Sample Results

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

Job ID: 500-211999-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 500-643201/1-A
Matrix: Water
Analysis Batch: 643537

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 643201

| Analyte | MB | MB | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-----|------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| Antimony | <0.0030 | | 0.0030 | | mg/L | | 02/18/22 10:48 | 02/18/22 23:50 | 1 |
| Arsenic | <0.0010 | | 0.0010 | | mg/L | | 02/18/22 10:48 | 02/18/22 23:50 | 1 |
| Barium | <0.0025 | | 0.0025 | | mg/L | | 02/18/22 10:48 | 02/18/22 23:50 | 1 |
| Beryllium | <0.0010 | | 0.0010 | | mg/L | | 02/18/22 10:48 | 02/18/22 23:50 | 1 |
| Cadmium | <0.00050 | | 0.00050 | | mg/L | | 02/18/22 10:48 | 02/18/22 23:50 | 1 |
| Calcium | <0.20 | | 0.20 | | mg/L | | 02/18/22 10:48 | 02/18/22 23:50 | 1 |
| Chromium | <0.0050 | | 0.0050 | | mg/L | | 02/18/22 10:48 | 02/18/22 23:50 | 1 |
| Cobalt | <0.0010 | | 0.0010 | | mg/L | | 02/18/22 10:48 | 02/18/22 23:50 | 1 |
| Lead | <0.00050 | | 0.00050 | | mg/L | | 02/18/22 10:48 | 02/18/22 23:50 | 1 |
| Lithium | <0.0020 | | 0.0020 | | mg/L | | 02/18/22 10:48 | 02/18/22 23:50 | 1 |
| Molybdenum | <0.0050 | | 0.0050 | | mg/L | | 02/18/22 10:48 | 02/18/22 23:50 | 1 |
| Selenium | <0.0025 | | 0.0025 | | mg/L | | 02/18/22 10:48 | 02/18/22 23:50 | 1 |
| Thallium | <0.0020 | | 0.0020 | | mg/L | | 02/18/22 10:48 | 02/18/22 23:50 | 1 |

Lab Sample ID: MB 500-643201/1-A
Matrix: Water
Analysis Batch: 643796

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 643201

| Analyte | MB | MB | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-------|-----|------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| Boron | <0.050 | | 0.050 | | mg/L | | 02/18/22 10:48 | 02/21/22 14:22 | 1 |

Lab Sample ID: LCS 500-643201/2-A
Matrix: Water
Analysis Batch: 643537

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 643201

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|------------|-------------|------------|---------------|------|---|------|--------------|
| | | | | | | | |
| Arsenic | 0.100 | 0.0854 | | mg/L | | 85 | 80 - 120 |
| Barium | 2.00 | 1.93 | | mg/L | | 96 | 80 - 120 |
| Beryllium | 0.0500 | 0.0464 | | mg/L | | 93 | 80 - 120 |
| Cadmium | 0.0500 | 0.0475 | | mg/L | | 95 | 80 - 120 |
| Calcium | 10.0 | 9.29 | | mg/L | | 93 | 80 - 120 |
| Chromium | 0.200 | 0.199 | | mg/L | | 100 | 80 - 120 |
| Cobalt | 0.500 | 0.495 | | mg/L | | 99 | 80 - 120 |
| Lead | 0.100 | 0.102 | | mg/L | | 102 | 80 - 120 |
| Lithium | 0.500 | 0.493 | | mg/L | | 99 | 80 - 120 |
| Molybdenum | 1.00 | 0.927 | | mg/L | | 93 | 80 - 120 |
| Selenium | 0.100 | 0.0917 | | mg/L | | 92 | 80 - 120 |
| Thallium | 0.100 | 0.104 | | mg/L | | 104 | 80 - 120 |

Lab Sample ID: LCS 500-643201/2-A
Matrix: Water
Analysis Batch: 643796

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 643201

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|-------------|------------|---------------|------|---|------|--------------|
| | | | | | | | |

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QC Sample Results

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

Job ID: 500-211999-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-643799/12-A
Matrix: Water
Analysis Batch: 644140

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 643799

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|--------------|---------|-----|------|---|----------------|----------------|---------|
| Mercury | <0.00020 | | 0.00020 | | mg/L | | 02/22/22 09:45 | 02/23/22 12:09 | 1 |

Lab Sample ID: LCS 500-643799/13-A
Matrix: Water
Analysis Batch: 644140

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 643799

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|-------------|------------|---------------|------|---|------|--------------|
| Mercury | 0.00200 | 0.00204 | | mg/L | | 102 | 80 - 120 |

Lab Sample ID: 500-211999-6 MS
Matrix: Water
Analysis Batch: 644140

Client Sample ID: MW-15
Prep Type: Total/NA
Prep Batch: 643799

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Mercury | <0.00020 | | 0.00100 | 0.000964 | | mg/L | | 96 | 75 - 125 |

Lab Sample ID: 500-211999-6 MSD
Matrix: Water
Analysis Batch: 644140

Client Sample ID: MW-15
Prep Type: Total/NA
Prep Batch: 643799

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| Mercury | <0.00020 | | 0.00100 | 0.00102 | | mg/L | | 102 | 75 - 125 | 6 | 20 |

Lab Sample ID: 500-211999-6 DU
Matrix: Water
Analysis Batch: 644140

Client Sample ID: MW-15
Prep Type: Total/NA
Prep Batch: 643799

| 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 500-641481/1
Matrix: Water
Analysis Batch: 641481

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 | | | 02/09/22 03:31 | 1 |

Lab Sample ID: LCS 500-641481/2
Matrix: Water
Analysis Batch: 641481

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 | 238 | | mg/L | | 95 | 80 - 120 |

QC Sample Results

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

Job ID: 500-211999-1

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

Lab Sample ID: MB 500-641700/1
Matrix: Water
Analysis Batch: 641700

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 | | | 02/10/22 04:35 | 1 |

Lab Sample ID: LCS 500-641700/2
Matrix: Water
Analysis Batch: 641700

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 | 266 | | mg/L | | 106 | 80 - 120 |

Lab Sample ID: MB 500-641914/1
Matrix: Water
Analysis Batch: 641914

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 | | | 02/11/22 04:22 | 1 |

Lab Sample ID: LCS 500-641914/2
Matrix: Water
Analysis Batch: 641914

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 | 272 | | mg/L | | 109 | 80 - 120 |

Lab Sample ID: MB 500-642215/1
Matrix: Water
Analysis Batch: 642215

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 | | | 02/14/22 03:39 | 1 |

Lab Sample ID: LCS 500-642215/2
Matrix: Water
Analysis Batch: 642215

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 | 266 | | mg/L | | 106 | 80 - 120 |

Lab Sample ID: 500-211999-7 MS
Matrix: Water
Analysis Batch: 642215

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 | 670 | | 250 | 978 | | mg/L | | 122 | 75 - 125 |

Lab Sample ID: 500-211999-7 DU
Matrix: Water
Analysis Batch: 642215

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 | 670 | | 638 | | mg/L | | 5 | 5 |

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QC Sample Results

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

Job ID: 500-211999-1

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

Lab Sample ID: 500-211999-8 DU
Matrix: Water
Analysis Batch: 642215

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

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|------------------------|---------------|------------------|-----------|--------------|------|---|-----|-----------|
| Total Dissolved Solids | 510 | | 524 | | mg/L | | 2 | 5 |

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 500-644868/16
Matrix: Water
Analysis Batch: 644868

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 | | | 02/28/22 13:28 | 1 |

Lab Sample ID: LCS 500-644868/17
Matrix: Water
Analysis Batch: 644868

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 | 20.4 | | mg/L | | 102 | 85 - 115 |

Lab Sample ID: 500-211999-2 MS
Matrix: Water
Analysis Batch: 644868

Client Sample ID: MW-19
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Chloride | 34 | | 20.0 | 50.5 | | mg/L | | 83 | 75 - 125 |

Lab Sample ID: 500-211999-2 MSD
Matrix: Water
Analysis Batch: 644868

Client Sample ID: MW-19
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| Chloride | 34 | | 20.0 | 51.2 | | mg/L | | 87 | 75 - 125 | 1 | 20 |

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-642706/31
Matrix: Water
Analysis Batch: 642706

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 | | | 02/15/22 19:13 | 1 |

Lab Sample ID: LCS 500-642706/32
Matrix: Water
Analysis Batch: 642706

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 | 10.6 | | mg/L | | 106 | 90 - 119 |

QC Sample Results

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

Job ID: 500-211999-1

Method: SM 4500 F C - Fluoride (Continued)

Lab Sample ID: 500-211999-1 MS
Matrix: Water
Analysis Batch: 642706

Client Sample ID: MW-17
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Fluoride | 0.82 | | 5.00 | 6.06 | | mg/L | | 105 | 75 - 125 |

Lab Sample ID: 500-211999-1 MSD
Matrix: Water
Analysis Batch: 642706

Client Sample ID: MW-17
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| Fluoride | 0.82 | | 5.00 | 6.03 | | mg/L | | 104 | 75 - 125 | 0 | 20 |

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 500-644883/15
Matrix: Water
Analysis Batch: 644883

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 | | | 02/28/22 14:30 | 1 |

Lab Sample ID: LCS 500-644883/16
Matrix: Water
Analysis Batch: 644883

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 Fax 708-534-5211

Chain of Custody Record

MKE 232



Environnement

| | | | | | | | | | |
|--|--|--|--|--|--|---|--|---|--|
| Client Information | | Sampler: <u>M. Kess</u> | | Lab PM: Mockler Diana J | | Carrier Tracking No(s) | | COC No. 500-98564-43259 1 | |
| Client Contact: Mitchel Dolan | | Phone: <u>630.203.7240</u> | | E-Mail: Diana.Mockler@Eurofinset.com | | State of Origin | | Page 1 of 1 <u>211999</u> | |
| Company: KPRG and Associates Inc | | PWS# | | Analysis Requested | | | | Job #: <u>500-211999-#1/2/18/22</u> | |
| Address: 14865 West Lisbon Road Suite 1A | | Due Date Requested | | <p>500-211999 COC</p> | | | | Preservation Codes | |
| City: Brookfield | | TAT Requested (days) | | | | | | 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 MC K EDTA W pH 4-5 L EDA Z other (specify) | |
| State Zip: WI 53005 | | Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No | | Field Filtered Sample (Yes or No) | | Perform MS/MSD (Yes or No) | | Total Number of Containers | |
| Phone: 262-781-0475(Tel) | | PO #: 4502081030 | | 903.0 904.0 | | 6020A 7470A | | | |
| Email: mitched@kprginc.com | | WO # | | 2040C 4500_F_C, SM4500_CL_E, SM4500_SO4_E | | SM4500_SO4_E Sulfate | | | |
| Project Name: Powerton CCR Event Desc: Quarterly Powerton CCR Sampling | | Project #: 50011612 | | Sample Date | | Sample Time | | Sample Type (C=Comp. G=grab) | |
| Site: Illinois | | SSOW# | | Matrix (W=water S=solid G=water/oil) | | BT-Tissue, A=Air | | Special Instructions/Note | |
| Sample Identification | | | | Preservation Code: | | D D N N | | | |
| MW-01 | | | | Water | | | | | |
| MW-08 | | | | Water | | | | | |
| MW-09 | | | | Water | | | | | |
| MW-11 | | | | Water | | | | | |
| MW-12 | | | | Water | | | | | |
| MW-15 | | | | Water | | | | | |
| 1 MW-17 | | <u>2/7/22</u> | | <u>14:58</u> | | <u>G</u> | | <u>Water</u> | |
| MW-18 | | | | Water | | | | | |
| 2 MW-19 | | <u>2/7/22</u> | | <u>16:11</u> | | <u>G</u> | | <u>Water</u> | |
| MW-19 | | | | Water | | | | | |
| Possible Hazard Identification | | | | | Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) | | | | |
| <input 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 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 | | | |
| Reinquired by: <u>M. Kess</u> | | Date/Time: <u>2/7/22 17:30</u> | | Company: <u>KPRG</u> | | Received by: <u>Stephanie Hernandez</u> | | Date/Time: <u>2/10/22 11:15</u> | |
| Reinquired by: | | Date/Time: <u>me</u> | | Company: | | Received by: | | Date/Time: | |
| Reinquired by: | | Date/Time: | | Company: | | Received by: | | Date/Time: | |
| Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No | | Custody Seal No: <u>173227</u> | | Cooler Temperature(s) °C and Other Remarks: <u>0.8 → 0.5</u> | | | | | |

Eurofins Chicago

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

Chain of Custody Record

MKE 232

eurofins

| | | | | | | | | | |
|---|--|--|--|---|--|-------------------------------------|--|---|--|
| Client Information | | Sampler <i>M. Russ</i> | | Lab PM Mockler Diana J | | Carrier Tracking No. | | COC No. 500-98564-43259 1 | |
| Client Contact Mitchel Dolan | | Phone <i>630.203.7240</i> | | E-Mail Diana.Mockler@Eurofinset.com | | State | | Page Page 1 of 1 | |
| Company KPRG and Associates Inc. | | FV/SID | | Analysis Request | | | | Job #: <i>500-211999</i> | |
| Address 14665 West Lisbon Road Suite 1A | | Due Date Requested | | 500-211999 COC | | Preservation Codes | | Other | |
| City Brookfield | | TAT Requested (days) | | 903.0 904.0 | | A HCL M Hexane | | | |
| State Zip WI 53005 | | Compliance Project. <input type="checkbox"/> Yes <input type="checkbox"/> No | | 6020A 7470A | | B NaOH N None | | | |
| Phone 262 781-0475(Tel) | | PC # 4502081030 | | 2540C, 4600_F, C, SM4500_C, E, SM4500_SO4_E | | C Zn Acetate O AsNaO2 | | | |
| E-mail mitcheld@kprginc.com | | NO # | | SM4500_SO4_E Sulfate | | D Nitric Acid F Na2O4S | | | |
| Project Name Powerton CCR Event Desc Quarterly Powerton CCR Sampling | | Project # 50011612 | | Total Number of Containers | | E NaHSO4 Q Na2SO3 | | | |
| Site | | SSCW# | | Field Filtered Sample (Yes or No) | | F MeOH R Na2S2O3 | | | |
| | | | | Perform (S/MSD (Yes or No)) | | G Amcnlo S H2SO4 | | | |
| | | | | 903.0 904.0 | | H Ascorbic Acid T TSP Dodecahydra e | | | |
| | | | | 6020A 7470A | | I Ice U Acetone | | | |
| | | | | 2540C, 4600_F, C, SM4500_C, E, SM4500_SO4_E | | J DI water v MCAA | | | |
| | | | | SM4500_SO4_E Sulfate | | k EDTA W n-1 4-5 | | | |
| | | | | | | L EDA Z other specify | | | |
| | | | | | | Other | | | |
| | | | | | | Special Instructions/Note | | | |
| Sample Identification | | Sample Date | | Sample Time | | Sample Type (C=Comp G=grab) | | Matrix (W=water S=slud. O=water/soil) | |
| | | | | | | | | Preservation Code | |
| | | | | | | | | Field Filtered Sample (Yes or No) | |
| | | | | | | | | Perform (S/MSD (Yes or No)) | |
| | | | | | | | | 903.0 904.0 | |
| | | | | | | | | 6020A 7470A | |
| | | | | | | | | 2540C, 4600_F, C, SM4500_C, E, SM4500_SO4_E | |
| | | | | | | | | SM4500_SO4_E Sulfate | |
| | | | | | | | | Total Number of Containers | |
| | | | | | | | | Field Filtered Sample (Yes or No) | |
| | | | | | | | | Perform (S/MSD (Yes or No)) | |
| | | | | | | | | 903.0 904.0 | |
| | | | | | | | | 6020A 7470A | |
| | | | | | | | | 2540C, 4600_F, C, SM4500_C, E, SM4500_SO4_E | |
| | | | | | | | | SM4500_SO4_E Sulfate | |
| | | | | | | | | Total Number of Containers | |
| | | | | | | | | Field Filtered Sample (Yes or No) | |
| | | | | | | | | Perform (S/MSD (Yes or No)) | |
| | | | | | | | | 903.0 904.0 | |
| | | | | | | | | 6020A 7470A | |
| | | | | | | | | 2540C, 4600_F, C, SM4500_C, E, SM4500_SO4_E | |
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| | | | | | | | | SM4500_SO4_E Sulfate | |
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| | | | | | | | | Perform (S/MSD (Yes or No)) | |
| | | | | | | | | 903.0 904.0 | |
| | | | | | | | | 6020A 7470A | |
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| | | | | | | | | Total Number of Containers | |
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| | | | | | | | | Perform (S/MSD (Yes or No)) | |
| | | | | | | | | 903.0 904.0 | |
| | | | | | | | | 6020A 7470A | |
| | | | | | | | | 2540C, 4600_F, C, SM4500_C, E, SM4500_SO4_E | |
| | | | | | | | | SM4500_SO4_E Sulfate | |
| | | | | | | | | Total Number of Containers | |
| | | | | | | | | Field Filtered Sample (Yes or No) | |
| | | | | | | | | Perform (S/MSD (Yes or No)) | |
| | | | | | | | | 903.0 904.0 | |
| | | | | | | | | 6020A 7470A | |
| | | | | | | | | 2540C, 4600_F, C, SM4500_C, E, SM4500_SO4_E | |
| | | | | | | | | SM4500_SO4_E Sulfate | |
| | | | | | | | | Total Number of Containers | |
| | | | | | | | | Field Filtered Sample (Yes or No) | |
| | | | | | | | | Perform (S/MSD (Yes or No)) | |
| | | | | | | | | 903.0 904.0 | |
| | | | | | | | | 6020A 7470A | |
| | | | | | | | | 2540C, 4600_F, C, SM4500_C, E, SM4500_SO4_E | |
| | | | | | | | | SM4500_SO4_E Sulfate | |
| | | | | | | | | Total Number of Containers | |
| | | | | | | | | Field Filtered Sample (Yes or No) | |
| | | | | | | | | Perform (S/MSD (Yes or No)) | |
| | | | | | | | | 903.0 904.0 | |
| | | | | | | | | 6020A 7470A | |
| | | | | | | | | 2540C, 4600_F, C, SM4500_C, E, SM4500_SO4_E | |
| | | | | | | | | SM4500_SO4_E Sulfate | |
| | | | | | | | | Total Number of Containers | |
| | | | | | | | | Field Filtered Sample (Yes or No) | |
| | | | | | | | | Perform (S/MSD (Yes or No)) | |
| | | | | | | | | 903.0 904.0 | |
| | | | | | | | | 6020A 7470A | |
| | | | | | | | | 2540C, 4600_F, C, SM4500_C, E, SM4500_SO4_E | |
| | | | | | | | | SM4500_SO4_E Sulfate | |
| | | | | | | | | Total Number of Containers | |
| | | | | | | | | Field Filtered Sample (Yes or No) | |
| | | | | | | | | Perform (S/MSD (Yes or No)) | |
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| | | | | | | | | 6020A 7470A | |
| | | | | | | | | 2540C, 4600_F, C, SM4500_C, E, SM4500_SO4_E | |
| | | | | | | | | SM4500_SO4_E Sulfate | |
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| | | | | | | | | Total Number of Containers | |
| | | | | | | | | Field Filtered Sample (Yes or No) | |
| | | | | | | | | Perform (S/MSD (Yes or No)) | |
| | | | | | | | | 903.0 904.0 | |
| | | | | | | | | 6020A 7470A | |
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| | | | | | | | | 2540C, 4600_F, C, SM4500_C, E, SM4500_SO4_E | |
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| | | | | | | | | 2540C, 4600_F, C, SM4500_C, E, SM4500_SO4_E | |
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| | | | | | | | | 6020A 7470A | |
| | | | | | | | | 2540C, 4600_F, C, SM4500_C, E, SM4500_SO4_E | |

Eurofins Chicago


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

Chain of Custody Record

MKE 232



Environment Testing
 America

| | | | | | | | | | |
|--|--|--|--|--|--|---|--|--|--|
| Client Information | | Sampler <i>M. Ressa</i> | | Lab PM Mockler Diana J | | Carrier Tracking No(s) | | COC No: 500-98564-43259 1 | |
| Client Contact: Mitchel Dolan | | Phone <i>630.203.7240</i> | | E-Mail Diana Mockler@Eurofinset.com | | State of Origin: | | Page 1 of 1 | |
| Company: KPRG and Associates Inc. | | PWSID: | | Analysis Request  500-211999 COC | | Job #: <i>500-211999</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 - 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 Z - other specify) | | Other: | |
| Address: 14665 West Lisbon Road Suite 1A | | Due Date Requested | | | | | | | |
| City: Brookfield | | TAT Requested (days) | | | | | | | |
| State Zip: WI, 53005 | | Compliance Project. <input type="checkbox"/> Yes <input type="checkbox"/> No | | | | | | | |
| Phone: 262-781-0475(Tel) | | PO #: 4502081030 | | | | | | | |
| Email: mitcheld@kprginc.com | | WO #: | | Project #: 50011612 | | SSOW#: | | Site: Illinois | |
| 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/No) | |
| | | | | | | | | Perform MS (MSD) (Yes/No) | |
| | | | | | | | | 903.0, 904.0 | |
| | | | | | | | | 6020A, 7470A | |
| | | | | | | | | 2540C, 4500_F_C, SM4500_CL_E, SM4500_SO4_E | |
| | | | | | | | | SM4500_SO4_E - Sulfate | |
| | | | | | | | | Total Number of Containers | |
| | | | | | | | | Special Instructions/Note. | |
| MW-01 | | | | | | | | Water | |
| 7 MW-08 | | <i>2/10</i> | | <i>11:19</i> | | <i>G</i> | | Water | |
| 8 MW-09 | | ↓ | | <i>15:42</i> | | <i>G</i> | | Water | |
| 9 MW-11 | | ↓ | | <i>13:33</i> | | <i>G</i> | | Water | |
| 10 MW-12 | | ↓ | | <i>14:27</i> | | <i>G</i> | | Water | |
| MW-15 | | | | | | | | Water | |
| MW-17 | | | | | | | | Water | |
| MW-18 | | | | | | | | Water | |
| MW-19 | | | | | | | | Water | |
| Possible Hazard Identification | | <input 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) | | | | | |
| Deliverable Requested I II, III IV Other (specify) | | | | <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months | | | | | |
| Empty Kit Relinquished by | | Date | | Time | | Method of Shipment: <i>Client DROP OFF</i> | | | |
| Relinquished by: <i>M. Ressa</i> | | Date/Time: <i>2/11/20 10:45</i> | | Company: <i>KPRG</i> | | Received by: <i>Rubia Buckley</i> | | Date/Time: <i>2/11/20 10:45</i> | |
| Relinquished by: | | Date/Time: | | Company: | | Received by: | | Date/Time: | |
| 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: <i>28</i> | | | | | |

ORIGIN ID:PIAA (555) 555-5555
MITCH DOLAN
KPRG AND ASSOCIATES
414 PLAZA DR STE 106

WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 07FEB22
ACTWGT: 57.50 LB
CAD: 6994780/SSFE2220
DIMS: 23x13x13 IN

BILL THIRD PARTY

Part # 150297-435 RHDB2 EXP 1/1/22



500-211999 Wayb

TO TESTAMERICA CHICAGO
TESTAMERICA CHICAGO
2417 BOND ST

UNIVERSITY PARK IL 60484

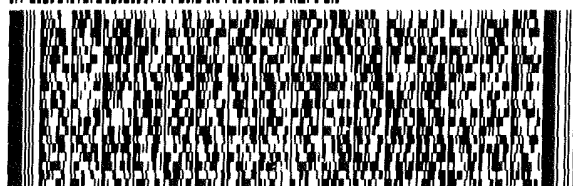
(708) 534-6200

REF:

INV:

PO:

DEPT:



FedEx
Express



AN1090102201227

REL#
3785346

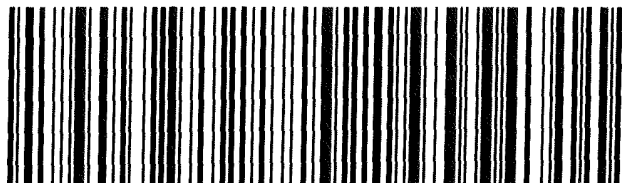
WED - 09 FEB 4:30P

** 2DAY **

TRK# 2895 7994 9275

4Z QMCKQ

60484
IL-US ORD



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- 13

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-211999-1

Login Number: 211999

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 | 0.3,0.8,2.1,2.8 |
| 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

Job ID: 500-211999-1

Client Sample ID: MW-17

Date Collected: 02/07/22 14:58

Date Received: 02/08/22 16:15

Lab Sample ID: 500-211999-1

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-------------------|------------|---------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total Recoverable | Prep | 3005A | | | 643201 | 02/18/22 10:48 | | TAL CHI |
| Total Recoverable | Analysis | 6020A | | 1 | 643537 | 02/19/22 00:52 | FXG | TAL CHI |
| Total Recoverable | Prep | 3005A | | | 643201 | 02/18/22 10:48 | | TAL CHI |
| Total Recoverable | Analysis | 6020A | | 5 | 643796 | 02/21/22 15:08 | FXG | TAL CHI |
| Total/NA | Prep | 7470A | | | 643799 | 02/22/22 09:45 | MJG | TAL CHI |
| Total/NA | Analysis | 7470A | | 1 | 644140 | 02/23/22 12:29 | MJG | TAL CHI |
| Total/NA | Analysis | SM 2540C | | 1 | 641481 | 02/09/22 04:27 | CLB | TAL CHI |
| Total/NA | Analysis | SM 4500 CI- E | | 5 | 644868 | 02/28/22 13:51 | PFK | TAL CHI |
| Total/NA | Analysis | SM 4500 F C | | 1 | 642706 | 02/15/22 19:27 | EAT | TAL CHI |
| Total/NA | Analysis | SM 4500 SO4 E | | 10 | 644883 | 02/28/22 14:33 | PFK | TAL CHI |

Client Sample ID: MW-19

Date Collected: 02/07/22 16:11

Date Received: 02/08/22 16:15

Lab Sample ID: 500-211999-2

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-------------------|------------|---------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total Recoverable | Prep | 3005A | | | 643201 | 02/18/22 10:48 | | TAL CHI |
| Total Recoverable | Analysis | 6020A | | 1 | 643537 | 02/19/22 00:56 | FXG | TAL CHI |
| Total Recoverable | Prep | 3005A | | | 643201 | 02/18/22 10:48 | | TAL CHI |
| Total Recoverable | Analysis | 6020A | | 10 | 643796 | 02/21/22 15:11 | FXG | TAL CHI |
| Total/NA | Prep | 7470A | | | 643799 | 02/22/22 09:45 | MJG | TAL CHI |
| Total/NA | Analysis | 7470A | | 1 | 644140 | 02/23/22 12:31 | MJG | TAL CHI |
| Total/NA | Analysis | SM 2540C | | 1 | 641481 | 02/09/22 04:30 | CLB | TAL CHI |
| Total/NA | Analysis | SM 4500 CI- E | | 1 | 644868 | 02/28/22 13:51 | PFK | TAL CHI |
| Total/NA | Analysis | SM 4500 F C | | 1 | 642706 | 02/15/22 19:45 | EAT | TAL CHI |
| Total/NA | Analysis | SM 4500 SO4 E | | 5 | 644883 | 02/28/22 14:34 | PFK | TAL CHI |

Client Sample ID: MW-18

Date Collected: 02/08/22 11:56

Date Received: 02/09/22 16:05

Lab Sample ID: 500-211999-3

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-------------------|------------|---------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total Recoverable | Prep | 3005A | | | 643201 | 02/18/22 10:48 | | TAL CHI |
| Total Recoverable | Analysis | 6020A | | 1 | 643537 | 02/19/22 00:59 | FXG | TAL CHI |
| Total Recoverable | Prep | 3005A | | | 643201 | 02/18/22 10:48 | | TAL CHI |
| Total Recoverable | Analysis | 6020A | | 1 | 643796 | 02/21/22 15:15 | FXG | TAL CHI |
| Total/NA | Prep | 7470A | | | 643799 | 02/22/22 09:45 | MJG | TAL CHI |
| Total/NA | Analysis | 7470A | | 1 | 644140 | 02/23/22 12:34 | MJG | TAL CHI |
| Total/NA | Analysis | SM 2540C | | 1 | 641700 | 02/10/22 05:00 | CLB | TAL CHI |
| Total/NA | Analysis | SM 4500 CI- E | | 5 | 644868 | 02/28/22 13:52 | PFK | TAL CHI |
| Total/NA | Analysis | SM 4500 F C | | 1 | 642706 | 02/15/22 20:04 | EAT | TAL CHI |
| Total/NA | Analysis | SM 4500 SO4 E | | 10 | 644883 | 02/28/22 14:55 | PFK | TAL CHI |

Lab Chronicle

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

Job ID: 500-211999-1

Client Sample ID: Duplicate

Lab Sample ID: 500-211999-4

Date Collected: 02/08/22 00:00

Matrix: Water

Date Received: 02/09/22 16:05

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-------------------|------------|---------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total Recoverable | Prep | 3005A | | | 643201 | 02/18/22 10:48 | | TAL CHI |
| Total Recoverable | Analysis | 6020A | | 1 | 643537 | 02/19/22 01:03 | FXG | TAL CHI |
| Total Recoverable | Prep | 3005A | | | 643201 | 02/18/22 10:48 | | TAL CHI |
| Total Recoverable | Analysis | 6020A | | 2 | 643796 | 02/21/22 15:18 | FXG | TAL CHI |
| Total/NA | Prep | 7470A | | | 643799 | 02/22/22 09:45 | MJG | TAL CHI |
| Total/NA | Analysis | 7470A | | 1 | 644140 | 02/23/22 12:36 | MJG | TAL CHI |
| Total/NA | Analysis | SM 2540C | | 1 | 641700 | 02/10/22 05:03 | CLB | TAL CHI |
| Total/NA | Analysis | SM 4500 CI- E | | 5 | 644868 | 02/28/22 13:53 | PFK | TAL CHI |
| Total/NA | Analysis | SM 4500 F C | | 1 | 642706 | 02/15/22 20:09 | EAT | TAL CHI |
| Total/NA | Analysis | SM 4500 SO4 E | | 5 | 644883 | 02/28/22 14:55 | PFK | TAL CHI |

Client Sample ID: MW-01

Lab Sample ID: 500-211999-5

Date Collected: 02/09/22 15:02

Matrix: Water

Date Received: 02/10/22 13:55

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-------------------|------------|---------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total Recoverable | Prep | 3005A | | | 643201 | 02/18/22 10:48 | | TAL CHI |
| Total Recoverable | Analysis | 6020A | | 1 | 643537 | 02/19/22 01:13 | FXG | TAL CHI |
| Total Recoverable | Prep | 3005A | | | 643201 | 02/18/22 10:48 | | TAL CHI |
| Total Recoverable | Analysis | 6020A | | 1 | 643796 | 02/21/22 15:21 | FXG | TAL CHI |
| Total/NA | Prep | 7470A | | | 643799 | 02/22/22 09:45 | MJG | TAL CHI |
| Total/NA | Analysis | 7470A | | 1 | 644140 | 02/23/22 12:39 | MJG | TAL CHI |
| Total/NA | Analysis | SM 2540C | | 1 | 641914 | 02/11/22 05:00 | CLB | TAL CHI |
| Total/NA | Analysis | SM 4500 CI- E | | 2 | 644868 | 02/28/22 13:53 | PFK | TAL CHI |
| Total/NA | Analysis | SM 4500 F C | | 1 | 642706 | 02/15/22 20:13 | EAT | TAL CHI |
| Total/NA | Analysis | SM 4500 SO4 E | | 1 | 644883 | 02/28/22 14:33 | PFK | TAL CHI |

Client Sample ID: MW-15

Lab Sample ID: 500-211999-6

Date Collected: 02/09/22 10:56

Matrix: Water

Date Received: 02/10/22 13:55

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-------------------|------------|---------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total Recoverable | Prep | 3005A | | | 643201 | 02/18/22 10:48 | | TAL CHI |
| Total Recoverable | Analysis | 6020A | | 1 | 643537 | 02/19/22 01:17 | FXG | TAL CHI |
| Total Recoverable | Prep | 3005A | | | 643201 | 02/18/22 10:48 | | TAL CHI |
| Total Recoverable | Analysis | 6020A | | 5 | 643796 | 02/21/22 15:25 | FXG | TAL CHI |
| Total/NA | Prep | 7470A | | | 643799 | 02/22/22 09:45 | MJG | TAL CHI |
| Total/NA | Analysis | 7470A | | 1 | 644140 | 02/23/22 12:41 | MJG | TAL CHI |
| Total/NA | Analysis | SM 2540C | | 1 | 641914 | 02/11/22 05:03 | CLB | TAL CHI |
| Total/NA | Analysis | SM 4500 CI- E | | 5 | 644868 | 02/28/22 13:54 | PFK | TAL CHI |
| Total/NA | Analysis | SM 4500 F C | | 1 | 642706 | 02/15/22 20:16 | EAT | TAL CHI |
| Total/NA | Analysis | SM 4500 SO4 E | | 10 | 644883 | 02/28/22 14:34 | PFK | TAL CHI |

Lab Chronicle

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

Job ID: 500-211999-1

Client Sample ID: MW-08
Date Collected: 02/10/22 11:19
Date Received: 02/11/22 10:45

Lab Sample ID: 500-211999-7
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-------------------|------------|---------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total Recoverable | Prep | 3005A | | | 643201 | 02/18/22 10:48 | | TAL CHI |
| Total Recoverable | Analysis | 6020A | | 1 | 643537 | 02/19/22 01:20 | FXG | TAL CHI |
| Total Recoverable | Prep | 3005A | | | 643201 | 02/18/22 10:48 | | TAL CHI |
| Total Recoverable | Analysis | 6020A | | 5 | 643796 | 02/21/22 15:28 | FXG | TAL CHI |
| Total/NA | Prep | 7470A | | | 643799 | 02/22/22 09:45 | MJG | TAL CHI |
| Total/NA | Analysis | 7470A | | 1 | 644140 | 02/23/22 12:57 | MJG | TAL CHI |
| Total/NA | Analysis | SM 2540C | | 1 | 642215 | 02/14/22 03:44 | CLB | TAL CHI |
| Total/NA | Analysis | SM 4500 CI- E | | 5 | 644868 | 02/28/22 13:54 | PFK | TAL CHI |
| Total/NA | Analysis | SM 4500 F C | | 1 | 642706 | 02/15/22 20:22 | EAT | TAL CHI |
| Total/NA | Analysis | SM 4500 SO4 E | | 2 | 644883 | 02/28/22 14:35 | PFK | TAL CHI |

Client Sample ID: MW-09
Date Collected: 02/10/22 15:42
Date Received: 02/11/22 10:45

Lab Sample ID: 500-211999-8
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-------------------|------------|---------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total Recoverable | Prep | 3005A | | | 643201 | 02/18/22 10:48 | | TAL CHI |
| Total Recoverable | Analysis | 6020A | | 1 | 643537 | 02/19/22 01:24 | FXG | TAL CHI |
| Total Recoverable | Prep | 3005A | | | 643201 | 02/18/22 10:48 | | TAL CHI |
| Total Recoverable | Analysis | 6020A | | 10 | 643796 | 02/21/22 15:32 | FXG | TAL CHI |
| Total/NA | Prep | 7470A | | | 643799 | 02/22/22 09:45 | MJG | TAL CHI |
| Total/NA | Analysis | 7470A | | 1 | 644140 | 02/23/22 12:59 | MJG | TAL CHI |
| Total/NA | Analysis | SM 2540C | | 1 | 642215 | 02/14/22 03:51 | CLB | TAL CHI |
| Total/NA | Analysis | SM 4500 CI- E | | 1 | 644868 | 02/28/22 13:33 | PFK | TAL CHI |
| Total/NA | Analysis | SM 4500 F C | | 1 | 642706 | 02/15/22 20:25 | EAT | TAL CHI |
| Total/NA | Analysis | SM 4500 SO4 E | | 5 | 644883 | 02/28/22 14:55 | PFK | TAL CHI |

Client Sample ID: MW-11
Date Collected: 02/10/22 13:33
Date Received: 02/11/22 10:45

Lab Sample ID: 500-211999-9
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-------------------|------------|---------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total Recoverable | Prep | 3005A | | | 643201 | 02/18/22 10:48 | | TAL CHI |
| Total Recoverable | Analysis | 6020A | | 1 | 643537 | 02/19/22 01:27 | FXG | TAL CHI |
| Total Recoverable | Prep | 3005A | | | 643201 | 02/18/22 10:48 | | TAL CHI |
| Total Recoverable | Analysis | 6020A | | 2 | 643796 | 02/21/22 15:35 | FXG | TAL CHI |
| Total/NA | Prep | 7470A | | | 643799 | 02/22/22 09:45 | MJG | TAL CHI |
| Total/NA | Analysis | 7470A | | 1 | 644140 | 02/23/22 13:02 | MJG | TAL CHI |
| Total/NA | Analysis | SM 2540C | | 1 | 642215 | 02/14/22 03:57 | CLB | TAL CHI |
| Total/NA | Analysis | SM 4500 CI- E | | 5 | 644868 | 02/28/22 13:54 | PFK | TAL CHI |
| Total/NA | Analysis | SM 4500 F C | | 1 | 642706 | 02/15/22 20:31 | EAT | TAL CHI |
| Total/NA | Analysis | SM 4500 SO4 E | | 5 | 644883 | 02/28/22 14:35 | PFK | TAL CHI |

Lab Chronicle

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

Job ID: 500-211999-1

Client Sample ID: MW-12

Lab Sample ID: 500-211999-10

Date Collected: 02/10/22 14:27

Matrix: Water

Date Received: 02/11/22 10:45

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-------------------|------------|---------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total Recoverable | Prep | 3005A | | | 643201 | 02/18/22 10:48 | | TAL CHI |
| Total Recoverable | Analysis | 6020A | | 1 | 643537 | 02/19/22 01:30 | FXG | TAL CHI |
| Total Recoverable | Prep | 3005A | | | 643201 | 02/18/22 10:48 | | TAL CHI |
| Total Recoverable | Analysis | 6020A | | 1 | 643796 | 02/21/22 15:50 | FXG | TAL CHI |
| Total/NA | Prep | 7470A | | | 643799 | 02/22/22 09:45 | MJG | TAL CHI |
| Total/NA | Analysis | 7470A | | 1 | 644140 | 02/23/22 13:04 | MJG | TAL CHI |
| Total/NA | Analysis | SM 2540C | | 1 | 642215 | 02/14/22 03:59 | CLB | TAL CHI |
| Total/NA | Analysis | SM 4500 Cl- E | | 5 | 644868 | 02/28/22 13:55 | PFK | TAL CHI |
| Total/NA | Analysis | SM 4500 F C | | 1 | 642706 | 02/15/22 20:34 | EAT | TAL CHI |
| Total/NA | Analysis | SM 4500 SO4 E | | 10 | 644883 | 02/28/22 14:56 | PFK | TAL CHI |

Laboratory References:

TAL 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: 500-211999-1

Laboratory: Eurofins Chicago

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

| Authority | Program | Identification Number | Expiration Date |
|-----------|---------|-----------------------|-----------------|
| Illinois | NELAP | IL00035 | 04-29-22 |

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ANALYTICAL REPORT

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-211999-2
Client Project/Site: Powerton CCR

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

Attn: Richard Gnat



Authorized for release by:
3/16/2022 8:55:14 AM

Diana Mockler, Project Manager I
(219)252-7570
Diana.Mockler@Eurofinset.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Case Narrative

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

Job ID: 500-211999-2

Job ID: 500-211999-2

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-211999-2

Comments

No additional comments.

Receipt

The samples were received on 2/8/2022 4:15 PM. 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 0.3° C, 0.8° C, 2.1° C and 2.8° C.

RAD

Methods 903.0, 9315: Radium 226 batch 550803

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 (500-211999-1), MW-19 (500-211999-2), MW-18 (500-211999-3), Duplicate (500-211999-4), MW-01 (500-211999-5), MW-15 (500-211999-6), (LCS 160-550803/1-A), (MB 160-550803/20-A), (500-211998-E-1-A) and (500-211998-D-1-A DU)

Method 903.0: Radium 226 Bath 160-551623:

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 (500-211999-7), MW-09 (500-211999-8), MW-11 (500-211999-9), MW-12 (500-211999-10), (LCS 160-551623/1-A), (MB 160-551623/21-A), (500-212021-K-15-A) and (500-212021-J-15-B DU)

Methods 904.0, 9320: Radium 228 batch 550806

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 (500-211999-1), MW-19 (500-211999-2), MW-18 (500-211999-3), Duplicate (500-211999-4), MW-01 (500-211999-5), MW-15 (500-211999-6), (LCS 160-550806/1-A), (MB 160-550806/20-A), (500-211998-E-1-B) and (500-211998-D-1-B DU)

Method 904.0: Radium 228 batch 551624

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 (500-211999-7), MW-09 (500-211999-8), MW-11 (500-211999-9), MW-12 (500-211999-10), (LCS 160-551624/1-A), (MB 160-551624/21-A), (500-212021-K-15-B) and (500-212021-J-15-C DU)

Method PrecSep_0:

Method PrecSep_0:

Method PrecSep-21:

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

Job ID: 500-211999-2

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

Protocol References:

EPA = US Environmental Protection Agency

None = None

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

Laboratory References:

TAL 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

Job ID: 500-211999-2

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 500-211999-1 | MW-17 | Water | 02/07/22 14:58 | 02/08/22 16:15 |
| 500-211999-2 | MW-19 | Water | 02/07/22 16:11 | 02/08/22 16:15 |
| 500-211999-3 | MW-18 | Water | 02/08/22 11:56 | 02/09/22 16:05 |
| 500-211999-4 | Duplicate | Water | 02/08/22 00:00 | 02/09/22 16:05 |
| 500-211999-5 | MW-01 | Water | 02/09/22 15:02 | 02/10/22 13:55 |
| 500-211999-6 | MW-15 | Water | 02/09/22 10:56 | 02/10/22 13:55 |
| 500-211999-7 | MW-08 | Water | 02/10/22 11:19 | 02/11/22 10:45 |
| 500-211999-8 | MW-09 | Water | 02/10/22 15:42 | 02/11/22 10:45 |
| 500-211999-9 | MW-11 | Water | 02/10/22 13:33 | 02/11/22 10:45 |
| 500-211999-10 | MW-12 | Water | 02/10/22 14:27 | 02/11/22 10:45 |

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Client Sample Results

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

Job ID: 500-211999-2

Client Sample ID: MW-17

Lab Sample ID: 500-211999-1

Date Collected: 02/07/22 14:58

Matrix: Water

Date Received: 02/08/22 16:15

Method: 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | -0.00657 | U | 0.0810 | 0.0810 | 1.00 | 0.160 | pCi/L | 02/16/22 13:27 | 03/11/22 11:51 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 81.5 | | 40 - 110 | | | | | 02/16/22 13:27 | 03/11/22 11:51 | 1 |

Method: 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.699 | | 0.318 | 0.325 | 1.00 | 0.459 | pCi/L | 02/16/22 13:53 | 03/02/22 13:52 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 81.5 | | 40 - 110 | | | | | 02/16/22 13:53 | 03/02/22 13:52 | 1 |
| Y Carrier | 85.6 | | 40 - 110 | | | | | 02/16/22 13:53 | 03/02/22 13:52 | 1 |

Method: 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 | 0.693 | | 0.328 | 0.335 | 5.00 | 0.459 | pCi/L | | 03/14/22 18:04 | 1 |

Client Sample Results

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

Job ID: 500-211999-2

Client Sample ID: MW-19
Date Collected: 02/07/22 16:11
Date Received: 02/08/22 16:15

Lab Sample ID: 500-211999-2
Matrix: Water

Method: 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.111 | U | 0.0874 | 0.0880 | 1.00 | 0.126 | pCi/L | 02/16/22 13:27 | 03/11/22 11:52 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 91.3 | | 40 - 110 | | | | | 02/16/22 13:27 | 03/11/22 11:52 | 1 |

Method: 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|-------------------|--------------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.770 | | 0.283 | 0.292 | 1.00 | 0.381 | pCi/L | 02/16/22 13:53 | 03/02/22 13:52 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 91.3 | | 40 - 110 | | | | | 02/16/22 13:53 | 03/02/22 13:52 | 1 |
| Y Carrier | 85.2 | | 40 - 110 | | | | | 02/16/22 13:53 | 03/02/22 13:52 | 1 |

Method: 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 | 0.881 | | 0.296 | 0.305 | 5.00 | 0.381 | pCi/L | | 03/14/22 18:04 | 1 |

Client Sample Results

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

Job ID: 500-211999-2

Client Sample ID: MW-18
Date Collected: 02/08/22 11:56
Date Received: 02/09/22 16:05

Lab Sample ID: 500-211999-3
Matrix: Water

Method: 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.176 | U | 0.135 | 0.136 | 1.00 | 0.196 | pCi/L | 02/16/22 13:27 | 03/11/22 11:52 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 63.8 | | 40 - 110 | | | | | 02/16/22 13:27 | 03/11/22 11:52 | 1 |

Method: 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 1.42 | | 0.508 | 0.524 | 1.00 | 0.668 | pCi/L | 02/16/22 13:53 | 03/02/22 13:52 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 63.8 | | 40 - 110 | | | | | 02/16/22 13:53 | 03/02/22 13:52 | 1 |
| Y Carrier | 86.7 | | 40 - 110 | | | | | 02/16/22 13:53 | 03/02/22 13:52 | 1 |

Method: 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 | 1.60 | | 0.526 | 0.541 | 5.00 | 0.668 | pCi/L | | 03/14/22 18:04 | 1 |

Client Sample Results

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

Job ID: 500-211999-2

Client Sample ID: Duplicate

Lab Sample ID: 500-211999-4

Date Collected: 02/08/22 00:00

Matrix: Water

Date Received: 02/09/22 16:05

Method: 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.383 | | 0.143 | 0.147 | 1.00 | 0.147 | pCi/L | 02/16/22 13:27 | 03/11/22 11:52 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 87.8 | | 40 - 110 | | | | | 02/16/22 13:27 | 03/11/22 11:52 | 1 |

Method: 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.630 | U | 0.435 | 0.439 | 1.00 | 0.683 | pCi/L | 02/16/22 13:53 | 03/02/22 13:53 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 87.8 | | 40 - 110 | | | | | 02/16/22 13:53 | 03/02/22 13:53 | 1 |
| Y Carrier | 85.6 | | 40 - 110 | | | | | 02/16/22 13:53 | 03/02/22 13:53 | 1 |

Method: 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 | 1.01 | | 0.458 | 0.463 | 5.00 | 0.683 | pCi/L | | 03/14/22 18:04 | 1 |

Client Sample Results

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

Job ID: 500-211999-2

Client Sample ID: MW-01
Date Collected: 02/09/22 15:02
Date Received: 02/10/22 13:55

Lab Sample ID: 500-211999-5
Matrix: Water

Method: 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.0826 | U | 0.0807 | 0.0811 | 1.00 | 0.123 | pCi/L | 02/16/22 13:27 | 03/11/22 11:52 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 62.8 | | 40 - 110 | | | | | 02/16/22 13:27 | 03/11/22 11:52 | 1 |

Method: 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.516 | U | 0.397 | 0.400 | 1.00 | 0.628 | pCi/L | 02/16/22 13:53 | 03/02/22 13:54 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 62.8 | | 40 - 110 | | | | | 02/16/22 13:53 | 03/02/22 13:54 | 1 |
| Y Carrier | 85.6 | | 40 - 110 | | | | | 02/16/22 13:53 | 03/02/22 13:54 | 1 |

Method: 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 | 0.598 | U | 0.405 | 0.408 | 5.00 | 0.628 | pCi/L | | 03/14/22 18:04 | 1 |

Client Sample Results

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

Job ID: 500-211999-2

Client Sample ID: MW-15

Lab Sample ID: 500-211999-6

Date Collected: 02/09/22 10:56

Matrix: Water

Date Received: 02/10/22 13:55

Method: 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.0892 | U | 0.0736 | 0.0740 | 1.00 | 0.109 | pCi/L | 02/16/22 13:27 | 03/11/22 11:52 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 90.5 | | 40 - 110 | | | | | 02/16/22 13:27 | 03/11/22 11:52 | 1 |

Method: 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.154 | U | 0.251 | 0.252 | 1.00 | 0.424 | pCi/L | 02/16/22 13:53 | 03/02/22 13:54 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 90.5 | | 40 - 110 | | | | | 02/16/22 13:53 | 03/02/22 13:54 | 1 |
| Y Carrier | 85.2 | | 40 - 110 | | | | | 02/16/22 13:53 | 03/02/22 13:54 | 1 |

Method: 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 | 0.243 | U | 0.262 | 0.263 | 5.00 | 0.424 | pCi/L | | 03/14/22 18:04 | 1 |

Client Sample Results

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

Job ID: 500-211999-2

Client Sample ID: MW-08
Date Collected: 02/10/22 11:19
Date Received: 02/11/22 10:45

Lab Sample ID: 500-211999-7
Matrix: Water

Method: 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.141 | U | 0.122 | 0.123 | 1.00 | 0.188 | pCi/L | 02/21/22 12:59 | 03/15/22 11:27 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 87.3 | | 40 - 110 | | | | | 02/21/22 12:59 | 03/15/22 11:27 | 1 |

Method: 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|-------------------|--------------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.794 | | 0.421 | 0.428 | 1.00 | 0.634 | pCi/L | 02/21/22 13:23 | 03/04/22 12:32 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 87.3 | | 40 - 110 | | | | | 02/21/22 13:23 | 03/04/22 12:32 | 1 |
| Y Carrier | 83.7 | | 40 - 110 | | | | | 02/21/22 13:23 | 03/04/22 12:32 | 1 |

Method: 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 | 0.935 | | 0.438 | 0.445 | 5.00 | 0.634 | pCi/L | | 03/15/22 15:30 | 1 |

Client Sample Results

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

Job ID: 500-211999-2

Client Sample ID: MW-09
Date Collected: 02/10/22 15:42
Date Received: 02/11/22 10:45

Lab Sample ID: 500-211999-8
Matrix: Water

Method: 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.0963 | U | 0.0751 | 0.0756 | 1.00 | 0.110 | pCi/L | 02/21/22 12:59 | 03/15/22 11:27 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 90.8 | | 40 - 110 | | | | | 02/21/22 12:59 | 03/15/22 11:27 | 1 |

Method: 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.0808 | U | 0.226 | 0.227 | 1.00 | 0.393 | pCi/L | 02/21/22 13:23 | 03/04/22 12:32 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 90.8 | | 40 - 110 | | | | | 02/21/22 13:23 | 03/04/22 12:32 | 1 |
| Y Carrier | 83.7 | | 40 - 110 | | | | | 02/21/22 13:23 | 03/04/22 12:32 | 1 |

Method: 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 | 0.177 | U | 0.238 | 0.239 | 5.00 | 0.393 | pCi/L | | 03/15/22 15:30 | 1 |

Client Sample Results

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

Job ID: 500-211999-2

Client Sample ID: MW-11
Date Collected: 02/10/22 13:33
Date Received: 02/11/22 10:45

Lab Sample ID: 500-211999-9
Matrix: Water

Method: 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.364 | | 0.138 | 0.142 | 1.00 | 0.142 | pCi/L | 02/21/22 12:59 | 03/15/22 11:27 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 88.5 | | 40 - 110 | | | | | 02/21/22 12:59 | 03/15/22 11:27 | 1 |

Method: 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.475 | U | 0.331 | 0.333 | 1.00 | 0.511 | pCi/L | 02/21/22 13:23 | 03/04/22 12:32 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 88.5 | | 40 - 110 | | | | | 02/21/22 13:23 | 03/04/22 12:32 | 1 |
| Y Carrier | 83.4 | | 40 - 110 | | | | | 02/21/22 13:23 | 03/04/22 12:32 | 1 |

Method: 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 | 0.839 | | 0.359 | 0.362 | 5.00 | 0.511 | pCi/L | | 03/15/22 15:30 | 1 |

Client Sample Results

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

Job ID: 500-211999-2

Client Sample ID: MW-12

Lab Sample ID: 500-211999-10

Date Collected: 02/10/22 14:27

Matrix: Water

Date Received: 02/11/22 10:45

Method: 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.218 | | 0.0996 | 0.101 | 1.00 | 0.116 | pCi/L | 02/21/22 12:59 | 03/15/22 11:27 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 82.8 | | 40 - 110 | | | | | 02/21/22 12:59 | 03/15/22 11:27 | 1 |

Method: 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.384 | U | 0.270 | 0.272 | 1.00 | 0.418 | pCi/L | 02/21/22 13:23 | 03/04/22 12:32 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 82.8 | | 40 - 110 | | | | | 02/21/22 13:23 | 03/04/22 12:32 | 1 |
| Y Carrier | 83.0 | | 40 - 110 | | | | | 02/21/22 13:23 | 03/04/22 12:32 | 1 |

Method: 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 | 0.602 | | 0.288 | 0.290 | 5.00 | 0.418 | pCi/L | | 03/15/22 15:30 | 1 |

Definitions/Glossary

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

Job ID: 500-211999-2

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

Job ID: 500-211999-2

Rad

Prep Batch: 550803

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|------------|------------|
| 500-211999-1 | MW-17 | Total/NA | Water | PrecSep-21 | |
| 500-211999-2 | MW-19 | Total/NA | Water | PrecSep-21 | |
| 500-211999-3 | MW-18 | Total/NA | Water | PrecSep-21 | |
| 500-211999-4 | Duplicate | Total/NA | Water | PrecSep-21 | |
| 500-211999-5 | MW-01 | Total/NA | Water | PrecSep-21 | |
| 500-211999-6 | MW-15 | Total/NA | Water | PrecSep-21 | |
| MB 160-550803/20-A | Method Blank | Total/NA | Water | PrecSep-21 | |
| LCS 160-550803/1-A | Lab Control Sample | Total/NA | Water | PrecSep-21 | |

Prep Batch: 550806

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|-----------|------------|
| 500-211999-1 | MW-17 | Total/NA | Water | PrecSep_0 | |
| 500-211999-2 | MW-19 | Total/NA | Water | PrecSep_0 | |
| 500-211999-3 | MW-18 | Total/NA | Water | PrecSep_0 | |
| 500-211999-4 | Duplicate | Total/NA | Water | PrecSep_0 | |
| 500-211999-5 | MW-01 | Total/NA | Water | PrecSep_0 | |
| 500-211999-6 | MW-15 | Total/NA | Water | PrecSep_0 | |
| MB 160-550806/20-A | Method Blank | Total/NA | Water | PrecSep_0 | |
| LCS 160-550806/1-A | Lab Control Sample | Total/NA | Water | PrecSep_0 | |

Prep Batch: 551623

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|------------|------------|
| 500-211999-7 | MW-08 | Total/NA | Water | PrecSep-21 | |
| 500-211999-8 | MW-09 | Total/NA | Water | PrecSep-21 | |
| 500-211999-9 | MW-11 | Total/NA | Water | PrecSep-21 | |
| 500-211999-10 | MW-12 | Total/NA | Water | PrecSep-21 | |
| MB 160-551623/21-A | Method Blank | Total/NA | Water | PrecSep-21 | |
| LCS 160-551623/1-A | Lab Control Sample | Total/NA | Water | PrecSep-21 | |

Prep Batch: 551624

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|-----------|------------|
| 500-211999-7 | MW-08 | Total/NA | Water | PrecSep_0 | |
| 500-211999-8 | MW-09 | Total/NA | Water | PrecSep_0 | |
| 500-211999-9 | MW-11 | Total/NA | Water | PrecSep_0 | |
| 500-211999-10 | MW-12 | Total/NA | Water | PrecSep_0 | |
| MB 160-551624/21-A | Method Blank | Total/NA | Water | PrecSep_0 | |
| LCS 160-551624/1-A | Lab Control Sample | Total/NA | Water | PrecSep_0 | |

QC Sample Results

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

Job ID: 500-211999-2

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-550803/20-A
Matrix: Water
Analysis Batch: 554763

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 550803

| Analyte | MB | | Count | Total | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|-----------|--------------|-----------------|-----------------|----------------|----------------|---------|----------------|----------------|---------|
| | Result | Qualifier | Uncert. (2σ+/-) | Uncert. (2σ+/-) | | | | | | |
| Radium-226 | 0.04292 | U | 0.0619 | 0.0620 | 1.00 | 0.105 | pCi/L | 02/16/22 13:27 | 03/11/22 13:37 | 1 |
| Carrier | MB %Yield | MB Qualifier | Limits | | Prepared | Analyzed | Dil Fac | | | |
| Ba Carrier | 93.0 | | 40 - 110 | | 02/16/22 13:27 | 03/11/22 13:37 | 1 | | | |

Lab Sample ID: LCS 160-550803/1-A
Matrix: Water
Analysis Batch: 554763

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 550803

| Analyte | Spike Added | LCS Result | LCS Qual | Total | RL | MDC | Unit | %Rec | %Rec. Limits |
|------------|-------------|---------------|----------|-----------------|------|-------|-------|------|--------------|
| | | | | Uncert. (2σ+/-) | | | | | |
| Radium-226 | 11.3 | 12.35 | | 1.29 | 1.00 | 0.123 | pCi/L | 109 | 75 - 125 |
| Carrier | LCS %Yield | LCS Qualifier | Limits | | | | | | |
| Ba Carrier | 95.0 | | 40 - 110 | | | | | | |

Lab Sample ID: MB 160-551623/21-A
Matrix: Water
Analysis Batch: 555441

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 551623

| Analyte | MB | | Count | Total | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|-----------|--------------|-----------------|-----------------|----------------|----------------|---------|----------------|----------------|---------|
| | Result | Qualifier | Uncert. (2σ+/-) | Uncert. (2σ+/-) | | | | | | |
| Radium-226 | 0.01445 | U | 0.0655 | 0.0655 | 1.00 | 0.125 | pCi/L | 02/21/22 12:59 | 03/15/22 11:45 | 1 |
| Carrier | MB %Yield | MB Qualifier | Limits | | Prepared | Analyzed | Dil Fac | | | |
| Ba Carrier | 82.0 | | 40 - 110 | | 02/21/22 12:59 | 03/15/22 11:45 | 1 | | | |

Lab Sample ID: LCS 160-551623/1-A
Matrix: Water
Analysis Batch: 555457

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 551623

| Analyte | Spike Added | LCS Result | LCS Qual | Total | RL | MDC | Unit | %Rec | %Rec. Limits |
|------------|-------------|---------------|----------|-----------------|------|-------|-------|------|--------------|
| | | | | Uncert. (2σ+/-) | | | | | |
| Radium-226 | 11.3 | 11.20 | | 1.16 | 1.00 | 0.137 | pCi/L | 99 | 75 - 125 |
| Carrier | LCS %Yield | LCS Qualifier | Limits | | | | | | |
| Ba Carrier | 92.0 | | 40 - 110 | | | | | | |

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-550806/20-A
Matrix: Water
Analysis Batch: 553105

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 550806

| Analyte | MB | | Count | Total | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|-----------|-----------|-----------------|-----------------|------|-------|-------|----------------|----------------|---------|
| | Result | Qualifier | Uncert. (2σ+/-) | Uncert. (2σ+/-) | | | | | | |
| Radium-228 | -0.002165 | U | 0.196 | 0.196 | 1.00 | 0.355 | pCi/L | 02/16/22 13:53 | 03/02/22 13:55 | 1 |

Eurofins Chicago

QC Sample Results

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

Job ID: 500-211999-2

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

| Carrier | MB MB | | Limits | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|----------|----------------|----------------|---------|
| | %Yield | Qualifier | | | | |
| Ba Carrier | 93.0 | | 40 - 110 | 02/16/22 13:53 | 03/02/22 13:55 | 1 |
| Y Carrier | 88.2 | | 40 - 110 | 02/16/22 13:53 | 03/02/22 13:55 | 1 |

Lab Sample ID: LCS 160-550806/1-A
Matrix: Water
Analysis Batch: 552954

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 550806

| Analyte | Spike Added | LCS Result | LCS Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec. Limits |
|---------|-------------|------------|----------|-----------------------|----|-----|------|------|--------------|
| | | | | | | | | | |

| Carrier | LCS LCS | | Limits |
|------------|---------|-----------|----------|
| | %Yield | Qualifier | |
| Ba Carrier | 95.0 | | 40 - 110 |
| Y Carrier | 87.9 | | 40 - 110 |

Lab Sample ID: MB 160-551624/21-A
Matrix: Water
Analysis Batch: 553454

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 551624

| Analyte | MB Result | MB Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|---------|-----------|--------------|-----------------------|-----------------------|----|-----|------|----------|----------|---------|
| | | | | | | | | | | |

| Carrier | MB MB | | Limits | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|----------|----------------|----------------|---------|
| | %Yield | Qualifier | | | | |
| Ba Carrier | 82.0 | | 40 - 110 | 02/21/22 13:23 | 03/04/22 12:41 | 1 |
| Y Carrier | 84.5 | | 40 - 110 | 02/21/22 13:23 | 03/04/22 12:41 | 1 |

Lab Sample ID: LCS 160-551624/1-A
Matrix: Water
Analysis Batch: 553455

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 551624

| Analyte | Spike Added | LCS Result | LCS Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec. Limits |
|---------|-------------|------------|----------|-----------------------|----|-----|------|------|--------------|
| | | | | | | | | | |

| Carrier | LCS LCS | | Limits |
|------------|---------|-----------|----------|
| | %Yield | Qualifier | |
| Ba Carrier | 92.0 | | 40 - 110 |
| Y Carrier | 85.6 | | 40 - 110 |

Eurofins Chicago


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

Chain of Custody Record

MKE 232



Environnement

| | | | | | | | | | | |
|---|--|--|--|---|--|---|--|---|--|----------------------|
| Client Information | | Sampler: <u>M. Less</u> | | Lab PM: Mockler Diana J | | Carrier Tracking No(s) | | COC No. 500-98564-43259 1 | | |
| Client Contact: Mitchel Dolan | | Phone: <u>630.203.7240</u> | | E-Mail: Diana.Mockler@Eurofinset.com | | State of Origin | | Page 1 of 1 <u>211999</u> | | |
| Company: KPRG and Associates Inc | | PWS# | | Analysis Requested  500-211999 COC | | | | Job #: <u>500-211999-218</u> | | |
| Address: 14865 West Lisbon Road Suite 1A | | Due Date Requested | | | | | | Preservation Codes | | |
| City: Brookfield | | TAT Requested (days) | | Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) | | Total Number of Containers | | 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 MC K EDTA W pH 4-5 L EDA Z other (specify) | | |
| State Zip: WI 53005 | | Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No | | | | | | 903.0 904.0 6020A 7470A 2040C 4500_F_C, SM4500_CL_E, SM4500_SO4_E SM4500_SO4_E Sulfate | | |
| Phone: 262-781-0475(Tel) | | PO #: 4502081030 | | Sample Matrix (W=water, S=solid, G=grab) BT-Tissue, A=Air | | Special Instructions/Note | | Other | | |
| Email: mitched@kprginc.com | | WO # | | | | | | Preservation Codes: | | |
| Project Name: Powerton CCR Event Desc: Quarterly Powerton CCR Sampling | | Project #: 50011612 | | MW-01 Water MW-08 Water MW-09 Water MW-11 Water MW-12 Water MW-15 Water MW-17 Water MW-18 Water MW-19 Water | | D D N N | | | | |
| Site: Illinois | | SSOW# | | | | | | | | |
| Possible Hazard Identification <input 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 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 | | | | |
| Reinquired by: <u>M. Less</u> | | Date/Time: <u>2/7/22 17:30</u> | | Company: <u>KPRG</u> | | Received by: <u>Stephanie Hernandez</u> | | Date/Time: <u>2/10/22 11:15</u> | | Company: <u>EETA</u> |
| Reinquired by: | | Date/Time: <u>me</u> | | Company: | | Received by: | | Date/Time: | | Company: |
| Reinquired by: | | Date/Time: | | Company: | | Received by: | | Date/Time: | | Company: |
| Custody Seals Intact? <input type="checkbox"/> Yes <input type="checkbox"/> No | | Custody Seal No: <u>173227</u> | | Cooler Temperature(s) °C and Other Remarks: <u>0.8 → 0.5</u> | | | | | | |

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University Park IL 60484
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ABB/713

Chain of Custody Record

MKE 232

eurofins

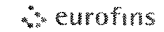
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|--|--|--|---|------------------------------|---|---|----------------------------|------------------------------|---------------------------|--------------------|
| Client Information | | Sampler | Lab PM | Carrier Tracking No(s) | COC No. | | | | | |
| Client Contact Mitche Doiran | | Phone | Mockler Diana J | | 500-98564-43259 1 | | | | | |
| Company KPRG and Associates Inc | | Address 14665 West Lisbon Road Suite 1A | City Brookfield | State of Origin | Page of 1 | | | | | |
| State Zip WI 53005 | | Due Date Requested | Analysis Requested | | Job # 500-211999 | | | | | |
| Phone 262-781-0475(Tel) | | TAT Requested (days) |  500-211999 COC | | Preservation Codes A HCL M Hexane B NaOH N None C Zn Acetate O As/NaO2 D Nitric Acid P Na2O4S E NaHSO4 Q Na2SO3 F MeOH R Na2S2O3 G Amchlor S H2SO4 H Ascorbic Acid T SP Dodacahyd.ate I ce U Acetone J DI Water V MCAA K ED+A W pH 4-R L ED X Other (specify) | | | | | |
| Email mitcheid@kprg nc com | | Compliance Project. <input type="checkbox"/> Yes <input type="checkbox"/> No | | | | Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) | | | | |
| Project Name Powerton CCR Event Desc Quarterly Powerton CCR Sampling | | PO # 4502081030 | | | | | | | | |
| Site Illinois | | WO # | | | | | | | | |
| Sample Identification | | Sample Date | Sample Time | Sample Type (C=comp, G=grab) | Matrix (W=water, S=solid, O=wash/oil, BT=Tissue 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 | | | | | |
| MW-09 | | | | | Water | | | | | |
| MW 11 | | | | | Water | | | | | |
| MW 12 | | | | | Water | | | | | |
| MW 15 | | | | | Water | | | | | |
| MW 17 | | | | | Water | | | | | |
| 3 MW 18 | | 2/8 | 11:56 | G | Water | | | | XXXX | |
| 4 DUP | | 2/8 | | G | Water | | | | XXXX | |
| Possible Hazard Identification | | | | | Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) | | | | | |
| <input 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 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>M. Ross</i> | | Date/Time <i>2/8/2012 17:45</i> | | Company <i>KPRG</i> | | Received by <i>Stephanie Humond</i> | | Date/Time <i>2/9/22 1605</i> | | Company <i>EEA</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 <i>1741064</i> | | | | Cooler Temperature/s °C and Other Remarks <i>1.3 +0 8</i> | | | | |

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2417 Bond Street
University Park IL 60484
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Chain of Custody Record

MKE 232



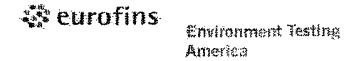
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|--|--|--|--|--|--|--|--|--|
| Client Information Client Contact: Mitchell Dolan Company: KPRG and Associates Inc. Address: 14665 West Lisbon Road Suite 1A City: Brookfield State Zip: WI 53005 Phone: 262 781-0475(Tel) Email: mitcheld@kprginc.com | | | Sampler: M. Russ Phone: 630.203.7240 FV/SID | | Lab PM: Mockler Diana J Email: Diana.Mockler@Eurofins.com | | Carrier Tracking No: 500-98564-43259 1 Page: Page 1 of 1 Job #: 500-211999 | |
| Due Date Requested TAT Requested (days) Compliance Project. <input type="checkbox"/> Yes <input type="checkbox"/> No PO # 4502081030 NO # | | | Analysis Requested 500-211999 COC | | Preservation Codes A HCL M Hexane B NaOH N None C Zn Acetate O AsNaO2 D Nitric Acid F Na2O4S E NaHSO4 Q Na2SO3 F MeOH R Na2S2O3 G Amcnlo S H2SO4 H Ascorbic Acid T TSP dodecahydra e I Ice U Acetone J DI water V MCAA K EDTA W n-1 4-5 L EDA Z other specify Other | | Total Number of Containers | |
| Sample Identification | | | Field Filtered Sample (Yes or No) | | Perform (S/N/S/D) (Yes or No) | | Special Instructions/Note | |
| Sample Date | | | Sample Time | | Sample Type (C=Comp G=grab) | | Matrix (W=water S=soil O=water/soil) | |
| MW 6 | | | 2/9 15:02 | | G | | Water | |
| MW-08 | | | | | | | Water | |
| MW-09 | | | | | | | Water | |
| MW 11 | | | | | | | Water | |
| MW 12 | | | | | | | Water | |
| MW 15 | | | 2/9 10:56 | | G | | Water | |
| MW 17 | | | | | | | Water | |
| MW-18 | | | | | | | Water | |
| MW 19 | | | | | | | Water | |
| Possible Hazard Identification <input 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 type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months | | | | | |
| Derivable Requested I II III IV Other (specify) | | | Special Instructions/QC Requirements | | | | | |
| Empty Kit Relinquished by | | | Date | | Time | | Method of Disposal | |
| Relinquished by: M. Russ | | | Date/Time: 16:00 2/9 | | Company: KPRG | | Received by: Stephanie Hernandez 2/10/22 1355 EE 7A | |
| 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 1802642 | | Cooler Temperatures °C and Other Remarks 21 | | | |


Eurofins Chicago

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 University Park IL 60484
 Phone 708-534-5200 Fax 708-534-5211

Chain of Custody Record

MKE 232



| | | | | | | | | | | | |
|---|--|--|----------------------|---|--|--|---------------------|----------------------------|--|----------------------------|--|
| Client Information | | Sampler <i>M. R. Ress</i> | | Lab PM Mockler Diana J | | Carrier Tracking No(s) | | COC No: 500-98564-43259 1 | | | |
| Client Contact: Mitchell Dolan | | Phone <i>630.203.7240</i> | | E-Mail Diana Mockler@Eurofinset.com | | State of Origin: | | Page 1 of 1 | | | |
| Company: KPRG and Associates Inc. | | PWSID: | | Analysis Reques'  | | | | | | Job #: <i>500-211999</i> | |
| Address: 14665 West Lisbon Road Suite 1A | | Due Date Requested | | Field Filtered Sample (Yes or No) Perform MS (MSD) (Yes or No) 903.0, 904.0 6020A, 7470A 2540C, 4500_L_C, SM4500_CL_E, SM4500_SO4_E SM4500_SO4_E - Sulfate | | | | | | Total Number of Containers | |
| City: Brookfield | | TAT Requested (days) | | | | | | | | | |
| State Zip: WI, 53005 | | Compliance Project. <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | | | | | | | | |
| Phone: 262-781-0475(Tel) | | PO #: 4502081030 | | | | | | | | | |
| Email: mitcheld@kprginc.com | | WO #: | | | | | | | | | |
| 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, ET=Tissue, A=Air) | Preservation Codes | | Special Instructions/Note. | | | |
| | | | | | | D N N | | | | | |
| | | | | | Water | | | | | | |
| <i>7</i> MW-08 | | <i>2/10</i> | <i>11:19</i> | <i>G</i> | Water | XXXX | | | | | |
| <i>8</i> MW-09 | | <i> </i> | <i>15:42</i> | <i>G</i> | Water | XXXX | | | | | |
| <i>9</i> MW-11 | | <i> </i> | <i>13:33</i> | <i>G</i> | Water | XXXX | | | | | |
| <i>10</i> MW-12 | | <i>↓</i> | <i>14:27</i> | <i>G</i> | Water | XXXX | | | | | |
| MW-15 | | | | | Water | | | | | | |
| MW-17 | | | | | Water | | | | | | |
| MW-18 | | | | | Water | | | | | | |
| MW-19 | | | | | Water | | | | | | |
| Possible Hazard Identification | | <input 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) | | | | | |
| Deliverable Requested I II, III IV Other (specify) | | | | | | <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months | | | | | |
| Empty Kit Relinquished by | | Date | Time | Method of Shipment: <i>Client DROD OFF</i> | | | | | | | |
| Relinquished by: <i>M. R. Ress</i> | | Date/Time: <i>2/11/20 10:45</i> | Company: <i>KPRG</i> | Received by: <i>Rutha Buckley</i> | | Date/Time: <i>2/11/20 10:45</i> | Company: <i>ZEM</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>28</i> | | | | | | | |

ORIGIN ID:PIAA (555) 555-5555
MITCH DOLAN
KPRG AND ASSOCIATES
414 PLAZA DR STE 106

WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 07FEB22
ACTWGT: 57.50 LB
CAD: 6994780/SSFE2220
DIMS: 23x13x13 IN

BILL THIRD PARTY

Part # 150297-435 RHDB2 EXP 1/1/22



500-211999 Wayb

TO TESTAMERICA CHICAGO
TESTAMERICA CHICAGO
2417 BOND ST

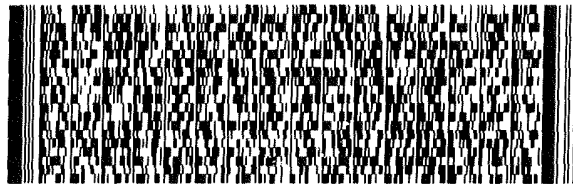
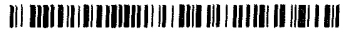
UNIVERSITY PARK IL 60484

(708) 534-6200

REF:

INV:
PO:

DEPT:



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REL#
3785346

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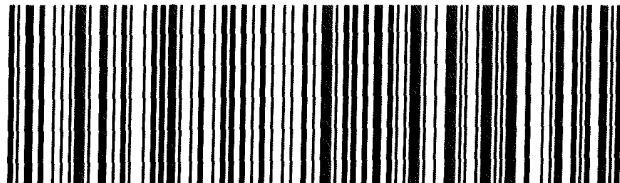
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** 2DAY **

TRK# 2895 7994 9275
0201

4Z QMCKQ

60484
IL-US ORD



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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: 09FEB22
ACTWGT: 60.00 LB
CAD: 6994779/SSFE2220
DIMS: 24x18x12 IN

BILL THIRD PARTY

Part # 158297-435 PRDB EXP 10/22

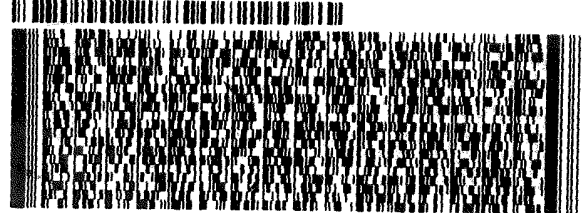


500-211999 Wayb

TO **SAMPLE RECEIVING**
EUROFINS
2417 BOND ST

UNIVERSITY PARK IL 60484

(000) 000-0000 REF:
INU: DEPT:



FedEx
Express



1 of 3

FRI - 11 FEB 4:30P

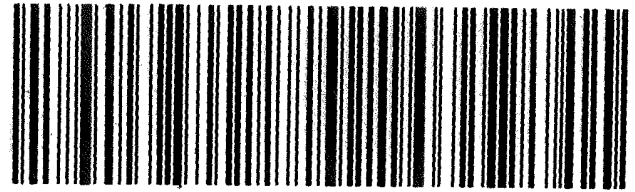
TRK# 2896 6850 2775
0201

**** 2DAY ****

MASTER

4Z QMCKQ

60484
IL-US ORD



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Chain of Custody Record



| | | | | | |
|---|---------------------|--|-------------------------------|--|--------------------|
| Client Information (Sub Contract Lab) | | Carrier Tracking No(s): | | COC No: 500-157093.1 | |
| Client Contact: TestAmerica Laboratories, Inc. | | Lab PM: Mockler, Diana J | | Page: 1 of 1 | |
| Address: 13715 Rider Trail North, Earth City, MO, 63045 | | State of Origin: Illinois | | Job #: 500-211999-2 | |
| Phone: 314-298-8566(Tel) 314-298-8757(Fax) | | E-Mail: Diana.Mockler@Eurofinset.com | | Preservation Codes: | |
| Email: | | Accreditations Required (See note): NELAP - Illinois | | 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 Z - other (specify) Other: | |
| Due Date Requested: 3/9/2022 | | Analysis Requested | | Special Instructions/Note: | |
| TAT Requested (days): | | Field Filtered Sample (Yes or No) | | Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMs | |
| PO #: | | Perform MS/MSD (Yes or No) | | Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMs | |
| WO #: | | 903.0/PreSep_21 Standard Target List | | | |
| Project #: 50011612 | | 904.0/PreSep_0 Standard Target List | | | |
| SSOW#: | | Raz26Ra228_GPPC | | | |
| Sample Identification - Client ID (Lab ID) | | Total Number of Containers | | | |
| MW-17 (500-211999-1) | Sample Date: 2/7/22 | Sample Time: 14:58 Central | Sample Type (C=Comp, G=grab): | Matrix (W=water, S=solid, O=soil, W=water, B=biological, BT=biological, A=air) | Preservation Code: |
| MW-19 (500-211999-2) | Sample Date: 2/7/22 | Sample Time: 16:11 Central | Sample Type (C=Comp, G=grab): | Matrix (W=water, S=solid, O=soil, W=water, B=biological, BT=biological, A=air) | Preservation Code: |
| <p>Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC places the ownership of method, analyte & accreditation compliance upon out 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 Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing North Central, LLC.</p> | | | | | |
| Possible Hazard Identification | | | | | |
| Unconfirmed | | | | | |
| Deliverable Requested: I, II, III, IV, Other (specify) | | | | | |
| Primary Deliverable Rank: 2 | | | | | |
| Empty Kit Relinquished by: | | | | | |
| Date: _____ Time: _____ Method of Shipment: _____ | | | | | |
| Relinquished by: <i>Shirley A. Root</i> Date: 2/9/22 Time: 1600 Company: <i>PTA</i> | | | | | |
| Relinquished by: _____ Date: _____ Time: _____ Company: _____ | | | | | |
| Relinquished 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: | | | | | |



Chain of Custody Record



| Client Information (Sub Contract Lab) Client Contact: Mockler, Diana J Shipping/Receiving: Diana.Mockler@Eurofins.com Company: TestAmerica Laboratories, Inc. Address: 13715 Rider Trail North, Earth City, MO, 63045 Phone: 314-298-8566(Tel) 314-298-8757(Fax) Email: MWG - Powerton Project Name: Powerton CCR Site: MWG - Powerton | | Lab PM: Mockler, Diana J E-Mail: Diana.Mockler@Eurofins.com Carrier Tracking No(s): 500-157126.1 State of Origin: Illinois Page: 1 of 1 Job #: 500-211999-2 | | | | | | | | | |
|--|-------------|--|------------------------------|---|-----------------------------------|----------------------------|--------------------------------------|-------------------------------------|-----------------|----------------------------|--|
| Due Date Requested: 2/28/2022 TAT Requested (days): | | Accreditations Required (See note): NELAP - Illinois | | | | | | | | | |
| PO #: _____ WO #: _____ Project #: 50011612 SSOW#: _____ | | Analysis Requested | | | | | | | | | |
| Sample Identification - Client ID (Lab ID) | Sample Date | Sample Time | Sample Type (C=comp, G=grab) | Matrix (Water, Swab, On-wasteline, IRT+basal, A-Ar) | 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 | R4226Ra228_GPPC | Total Number of Containers | Special Instructions/Note: |
| MW-18 (500-211999-3) | 2/8/22 | 11:56 Central | Water | Water | X | X | X | X | | 3 | Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMs |
| Duplicate (500-211999-4) | 2/8/22 | Central | Water | Water | X | X | X | X | | 3 | Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMs |
| MW-01 (500-211999-5) | 2/9/22 | 15:02 Central | Water | Water | X | X | X | X | | 3 | Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMs |
| MW-15 (500-211999-6) | 2/9/22 | 10:56 Central | Water | Water | X | X | X | X | | 3 | Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMs |
| Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC 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 Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing North Central, LLC. | | | | | | | | | | | |
| 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) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months | | | | | | | | | | | |
| Empty Kit Relinquished by: _____ Date: _____ Time: _____ Method of Shipment: _____ Relinquished by: <i>Stephanie Hernandez</i> Date/Time: 2/10/22 10:30 Company: FEDEX Relinquished by: _____ Date/Time: _____ Company: FEDEX Relinquished by: _____ Date/Time: _____ Company: _____ Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Custody Seal No.: _____ Cooler Temperature(s) °C and Other Remarks: _____ | | | | | | | | | | | |



Chain of Custody Record



| | | | | | |
|--|------------------------------|--------------------------------------|------------------|---|--------------|
| Client Information (Sub Contract Lab) | | Sampler: | Lab PM: | Carrier Tracking No(s): | COC No: |
| Shipping/Receiving | | Phone: | Mockler, Diana J | | 500-157185.1 |
| Company: TestAmerica Laboratories, Inc. | | E-Mail: Diana.Mockler@Eurofinset.com | | State of Origin: | Page 1 of 1 |
| Address: 13715 Rider Trail North, | | Accreditations Required (See note): | | Job #: | 500-211999-1 |
| City: Earth City | Due Date Requested: 3/1/2022 | Analysis Requested | | | |
| State, Zip: MO, 63045 | TAT Requested (days): | | | | |
| Phone: 314-298-8566(Tel) 314-298-8757(Fax) | PO #: | Perform MS/MSD (Yes or No) | | Preservation Codes: | |
| Email: | WO #: | Field Filtered Sample (Yes or No) | | A - HCL M - Hexane | |
| Project Name: Powerton CCR | Project #: 50011612 | 90.0/PreSep_21 Standard Target List | | B - NaOH N - None | |
| Site: MWG - Powerton | SSOW#: | 90.0/PreSep_0 Standard Target List | | C - Zn Acetate O - AsNaO2 | |
| | | Ra226Ra228_GFPc | | 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 - EDTA Z - other (specify) | |
| | | | | Other: | |
| | | | | Special Instructions/Note: | |
| | | | | Total Number of containers | |
| | | | | 3 Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no | |
| | | | | 3 Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no | |
| | | | | 3 Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no | |
| | | | | 3 Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no | |
| | | | | 3 Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no | |

Sample Identification - Client ID (Lab ID)

| Sample ID | Sample Date | Sample Time | Sample Type (C=Comp, G=grab) | Matrix (W=water, S=solid, O=water/oil, B=BI tissue, A=Air) | Preservation Code: |
|-----------------------|-------------|---------------|------------------------------|--|--------------------|
| MW-08 (500-211999-7) | 2/10/22 | 11:19 Central | | Water | |
| MW-09 (500-211999-8) | 2/10/22 | 15:42 Central | | Water | |
| MW-11 (500-211999-9) | 2/10/22 | 13:33 Central | | Water | |
| MW-12 (500-211999-10) | 2/10/22 | 14:27 Central | | Water | |

Possible Hazard Identification
Unconfirmed

Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2

Empty Kit Relinquished by: *Ann Booth* Date: 2/11/22 Time: 16:45
 Relinquished by: *Ann Booth* Date/Time: 2/11/22 16:45 Company: *ETA*
 Relinquished by: *Ann Booth* Date/Time: 2/11/22 16:45 Company: *ETA*

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: *Anna Worthington* Date/Time: 2-12-22 08:25 Company: *ETA*

Cooler Temperature(s) °C and Other Remarks:



Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-211999-2

Login Number: 211999

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 | 0.3,0.8,2.1,2.8 |
| 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 <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: 500-211999-2

Login Number: 211999

List Number: 2

Creator: Worthington, Sierra M

List Source: Eurofins St. Louis

List Creation: 02/11/22 09:30 AM

| 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"). | 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: 500-211999-2

Login Number: 211999

List Number: 3

Creator: Worthington, Sierra M

List Source: Eurofins St. Louis

List Creation: 02/12/22 08:58 AM

| 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: 500-211999-2

Login Number: 211999

List Number: 4

Creator: Johnson, Autumn R

List Source: Eurofins St. Louis

List Creation: 02/14/22 10:33 AM

| 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

Job ID: 500-211999-2

Client Sample ID: MW-17

Date Collected: 02/07/22 14:58

Date Received: 02/08/22 16:15

Lab Sample ID: 500-211999-1

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 550803 | 02/16/22 13:27 | HRT | TAL SL |
| Total/NA | Analysis | 903.0 | | 1 | 554763 | 03/11/22 11:51 | FLC | TAL SL |
| Total/NA | Prep | PrecSep_0 | | | 550806 | 02/16/22 13:53 | HRT | TAL SL |
| Total/NA | Analysis | 904.0 | | 1 | 552954 | 03/02/22 13:52 | ANW | TAL SL |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | 555276 | 03/14/22 18:04 | EMH | TAL SL |

Client Sample ID: MW-19

Date Collected: 02/07/22 16:11

Date Received: 02/08/22 16:15

Lab Sample ID: 500-211999-2

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 550803 | 02/16/22 13:27 | HRT | TAL SL |
| Total/NA | Analysis | 903.0 | | 1 | 554763 | 03/11/22 11:52 | FLC | TAL SL |
| Total/NA | Prep | PrecSep_0 | | | 550806 | 02/16/22 13:53 | HRT | TAL SL |
| Total/NA | Analysis | 904.0 | | 1 | 552954 | 03/02/22 13:52 | ANW | TAL SL |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | 555276 | 03/14/22 18:04 | EMH | TAL SL |

Client Sample ID: MW-18

Date Collected: 02/08/22 11:56

Date Received: 02/09/22 16:05

Lab Sample ID: 500-211999-3

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 550803 | 02/16/22 13:27 | HRT | TAL SL |
| Total/NA | Analysis | 903.0 | | 1 | 554763 | 03/11/22 11:52 | FLC | TAL SL |
| Total/NA | Prep | PrecSep_0 | | | 550806 | 02/16/22 13:53 | HRT | TAL SL |
| Total/NA | Analysis | 904.0 | | 1 | 552954 | 03/02/22 13:52 | ANW | TAL SL |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | 555276 | 03/14/22 18:04 | EMH | TAL SL |

Client Sample ID: Duplicate

Date Collected: 02/08/22 00:00

Date Received: 02/09/22 16:05

Lab Sample ID: 500-211999-4

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 550803 | 02/16/22 13:27 | HRT | TAL SL |
| Total/NA | Analysis | 903.0 | | 1 | 554763 | 03/11/22 11:52 | FLC | TAL SL |
| Total/NA | Prep | PrecSep_0 | | | 550806 | 02/16/22 13:53 | HRT | TAL SL |
| Total/NA | Analysis | 904.0 | | 1 | 552954 | 03/02/22 13:53 | ANW | TAL SL |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | 555276 | 03/14/22 18:04 | EMH | TAL SL |

Lab Chronicle

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

Job ID: 500-211999-2

Client Sample ID: MW-01
Date Collected: 02/09/22 15:02
Date Received: 02/10/22 13:55

Lab Sample ID: 500-211999-5
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 550803 | 02/16/22 13:27 | HRT | TAL SL |
| Total/NA | Analysis | 903.0 | | 1 | 554763 | 03/11/22 11:52 | FLC | TAL SL |
| Total/NA | Prep | PrecSep_0 | | | 550806 | 02/16/22 13:53 | HRT | TAL SL |
| Total/NA | Analysis | 904.0 | | 1 | 553105 | 03/02/22 13:54 | ANW | TAL SL |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | 555276 | 03/14/22 18:04 | EMH | TAL SL |

Client Sample ID: MW-15
Date Collected: 02/09/22 10:56
Date Received: 02/10/22 13:55

Lab Sample ID: 500-211999-6
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 550803 | 02/16/22 13:27 | HRT | TAL SL |
| Total/NA | Analysis | 903.0 | | 1 | 554763 | 03/11/22 11:52 | FLC | TAL SL |
| Total/NA | Prep | PrecSep_0 | | | 550806 | 02/16/22 13:53 | HRT | TAL SL |
| Total/NA | Analysis | 904.0 | | 1 | 553105 | 03/02/22 13:54 | ANW | TAL SL |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | 555276 | 03/14/22 18:04 | EMH | TAL SL |

Client Sample ID: MW-08
Date Collected: 02/10/22 11:19
Date Received: 02/11/22 10:45

Lab Sample ID: 500-211999-7
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 551623 | 02/21/22 12:59 | LPS | TAL SL |
| Total/NA | Analysis | 903.0 | | 1 | 555442 | 03/15/22 11:27 | FLC | TAL SL |
| Total/NA | Prep | PrecSep_0 | | | 551624 | 02/21/22 13:23 | LPS | TAL SL |
| Total/NA | Analysis | 904.0 | | 1 | 553455 | 03/04/22 12:32 | ANW | TAL SL |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | 555473 | 03/15/22 15:30 | EMH | TAL SL |

Client Sample ID: MW-09
Date Collected: 02/10/22 15:42
Date Received: 02/11/22 10:45

Lab Sample ID: 500-211999-8
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 551623 | 02/21/22 12:59 | LPS | TAL SL |
| Total/NA | Analysis | 903.0 | | 1 | 555442 | 03/15/22 11:27 | FLC | TAL SL |
| Total/NA | Prep | PrecSep_0 | | | 551624 | 02/21/22 13:23 | LPS | TAL SL |
| Total/NA | Analysis | 904.0 | | 1 | 553455 | 03/04/22 12:32 | ANW | TAL SL |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | 555473 | 03/15/22 15:30 | EMH | TAL SL |

Lab Chronicle

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

Job ID: 500-211999-2

Client Sample ID: MW-11

Lab Sample ID: 500-211999-9

Date Collected: 02/10/22 13:33

Matrix: Water

Date Received: 02/11/22 10:45

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 551623 | 02/21/22 12:59 | LPS | TAL SL |
| Total/NA | Analysis | 903.0 | | 1 | 555442 | 03/15/22 11:27 | FLC | TAL SL |
| Total/NA | Prep | PrecSep_0 | | | 551624 | 02/21/22 13:23 | LPS | TAL SL |
| Total/NA | Analysis | 904.0 | | 1 | 553455 | 03/04/22 12:32 | ANW | TAL SL |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | 555473 | 03/15/22 15:30 | EMH | TAL SL |

Client Sample ID: MW-12

Lab Sample ID: 500-211999-10

Date Collected: 02/10/22 14:27

Matrix: Water

Date Received: 02/11/22 10:45

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 551623 | 02/21/22 12:59 | LPS | TAL SL |
| Total/NA | Analysis | 903.0 | | 1 | 555442 | 03/15/22 11:27 | FLC | TAL SL |
| Total/NA | Prep | PrecSep_0 | | | 551624 | 02/21/22 13:23 | LPS | TAL SL |
| Total/NA | Analysis | 904.0 | | 1 | 553455 | 03/04/22 12:32 | ANW | TAL SL |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | 555473 | 03/15/22 15:30 | EMH | TAL SL |

Laboratory References:

TAL 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

Job ID: 500-211999-2

Laboratory: Eurofins St. Louis

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

| Authority | Program | Identification Number | Expiration Date |
|-----------|---------|-----------------------|-----------------|
| Illinois | NELAP | 200023 | 11-30-22 |

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Tracer/Carrier Summary

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

Job ID: 500-211999-2

Method: 903.0 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

| | | Percent Yield (Acceptance Limits) | |
|------------------------------|--------------------|-----------------------------------|--|
| Lab Sample ID | Client Sample ID | Ba (40-110) | |
| 500-211999-1 | MW-17 | 81.5 | |
| 500-211999-2 | MW-19 | 91.3 | |
| 500-211999-3 | MW-18 | 63.8 | |
| 500-211999-4 | Duplicate | 87.8 | |
| 500-211999-5 | MW-01 | 62.8 | |
| 500-211999-6 | MW-15 | 90.5 | |
| 500-211999-7 | MW-08 | 87.3 | |
| 500-211999-8 | MW-09 | 90.8 | |
| 500-211999-9 | MW-11 | 88.5 | |
| 500-211999-10 | MW-12 | 82.8 | |
| LCS 160-550803/1-A | Lab Control Sample | 95.0 | |
| LCS 160-551623/1-A | Lab Control Sample | 92.0 | |
| MB 160-550803/20-A | Method Blank | 93.0 | |
| MB 160-551623/21-A | Method Blank | 82.0 | |
| 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 (40-110) | Y (40-110) |
| 500-211999-1 | MW-17 | 81.5 | 85.6 |
| 500-211999-2 | MW-19 | 91.3 | 85.2 |
| 500-211999-3 | MW-18 | 63.8 | 86.7 |
| 500-211999-4 | Duplicate | 87.8 | 85.6 |
| 500-211999-5 | MW-01 | 62.8 | 85.6 |
| 500-211999-6 | MW-15 | 90.5 | 85.2 |
| 500-211999-7 | MW-08 | 87.3 | 83.7 |
| 500-211999-8 | MW-09 | 90.8 | 83.7 |
| 500-211999-9 | MW-11 | 88.5 | 83.4 |
| 500-211999-10 | MW-12 | 82.8 | 83.0 |
| LCS 160-550806/1-A | Lab Control Sample | 95.0 | 87.9 |
| LCS 160-551624/1-A | Lab Control Sample | 92.0 | 85.6 |
| MB 160-550806/20-A | Method Blank | 93.0 | 88.2 |
| MB 160-551624/21-A | Method Blank | 82.0 | 84.5 |
| Tracer/Carrier Legend | | | |
| Ba = Ba Carrier | | | |
| Y = Y Carrier | | | |

ANALYTICAL REPORT

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-217778-1
Client Project/Site: Powerton CCR Q2

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

Attn: Richard Gnat



Authorized for release by:
6/22/2022 10:32:30 AM

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

LINKS

Review your project
results through



Have a Question?



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www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Case Narrative

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR Q2

Job ID: 500-217778-1

Job ID: 500-217778-1

Laboratory: Eurofins Chicago

Narrative

**Job Narrative
500-217778-1**

Comments

No additional comments.

Receipt

The samples were received on 6/8/2022 4:45 PM. 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, 0.8° C, 0.9° C and 0.9° C.

Metals

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.

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Method Summary

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR Q2

Job ID: 500-217778-1

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

TAL 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 Q2

Job ID: 500-217778-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 500-217778-1 | MW-01 | Water | 06/07/22 14:32 | 06/08/22 16:45 |
| 500-217778-2 | MW-18 | Water | 06/06/22 15:32 | 06/08/22 16:45 |
| 500-217778-3 | MW-19 | Water | 06/06/22 16:37 | 06/08/22 16:45 |
| 500-217778-4 | Duplicate | Water | 06/06/22 00:00 | 06/08/22 16:45 |
| 500-217778-5 | MW-17 | Water | 06/08/22 13:45 | 06/09/22 16:20 |
| 500-217778-6 | MW-08 | Water | 06/08/22 11:48 | 06/09/22 16:20 |
| 500-217778-7 | MW-09 | Water | 06/08/22 08:10 | 06/09/22 16:20 |
| 500-217778-8 | MW-11 | Water | 06/08/22 09:10 | 06/09/22 16:20 |
| 500-217778-9 | MW-12 | Water | 06/08/22 10:42 | 06/09/22 16:20 |
| 500-217778-10 | MW-15 | Water | 06/08/22 14:50 | 06/09/22 16:20 |

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

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR Q2

Job ID: 500-217778-1

Client Sample ID: MW-01

Lab Sample ID: 500-217778-1

Date Collected: 06/07/22 14:32

Matrix: Water

Date Received: 06/08/22 16:45

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------|---------------|-----------|---------|-----|------|---|----------------|----------------|---------|
| Antimony | <0.0030 | | 0.0030 | | mg/L | | 06/10/22 08:52 | 06/13/22 18:58 | 1 |
| Arsenic | <0.0010 | | 0.0010 | | mg/L | | 06/10/22 08:52 | 06/13/22 18:58 | 1 |
| Barium | 0.041 | | 0.0025 | | mg/L | | 06/10/22 08:52 | 06/13/22 18:58 | 1 |
| Beryllium | <0.0010 | | 0.0010 | | mg/L | | 06/10/22 08:52 | 06/13/22 18:58 | 1 |
| Boron | 0.23 | | 0.050 | | mg/L | | 06/10/22 08:52 | 06/14/22 18:51 | 1 |
| Cadmium | <0.00050 | | 0.00050 | | mg/L | | 06/10/22 08:52 | 06/13/22 18:58 | 1 |
| Calcium | 82 | | 0.20 | | mg/L | | 06/10/22 08:52 | 06/13/22 18:58 | 1 |
| Chromium | <0.0050 | | 0.0050 | | mg/L | | 06/10/22 08:52 | 06/13/22 18:58 | 1 |
| Cobalt | <0.0010 | | 0.0010 | | mg/L | | 06/10/22 08:52 | 06/13/22 18:58 | 1 |
| Lead | <0.00050 | | 0.00050 | | mg/L | | 06/10/22 08:52 | 06/13/22 18:58 | 1 |
| Lithium | <0.010 | | 0.010 | | mg/L | | 06/10/22 08:52 | 06/13/22 18:58 | 1 |
| Molybdenum | 0.0057 | | 0.0050 | | mg/L | | 06/10/22 08:52 | 06/13/22 18:58 | 1 |
| Selenium | <0.0025 | | 0.0025 | | mg/L | | 06/10/22 08:52 | 06/13/22 18:58 | 1 |
| Thallium | <0.0020 | | 0.0020 | | mg/L | | 06/10/22 08:52 | 06/13/22 18:58 | 1 |

Method: 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|----------|-----------|---------|-----|------|---|----------------|----------------|---------|
| Mercury | <0.00020 | | 0.00020 | | mg/L | | 06/16/22 10:05 | 06/17/22 08:25 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|-------------|-----------|------|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 440 | | 10 | | mg/L | | | 06/09/22 04:14 | 1 |
| Chloride | 51 | | 4.0 | | mg/L | | | 06/10/22 10:22 | 2 |
| Fluoride | 0.15 | | 0.10 | | mg/L | | | 06/20/22 12:50 | 1 |
| Sulfate | 27 | | 10 | | mg/L | | | 06/13/22 10:18 | 2 |

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR Q2

Job ID: 500-217778-1

Client Sample ID: MW-18
Date Collected: 06/06/22 15:32
Date Received: 06/08/22 16:45

Lab Sample ID: 500-217778-2
Matrix: Water

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------|---------------|-----------|---------|-----|------|---|----------------|----------------|---------|
| Antimony | <0.0030 | | 0.0030 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:01 | 1 |
| Arsenic | <0.0010 | | 0.0010 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:01 | 1 |
| Barium | 0.11 | | 0.0025 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:01 | 1 |
| Beryllium | <0.0010 | | 0.0010 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:01 | 1 |
| Boron | 0.65 | | 0.050 | | mg/L | | 06/10/22 08:52 | 06/14/22 18:54 | 1 |
| Cadmium | <0.00050 | | 0.00050 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:01 | 1 |
| Calcium | 120 | | 0.20 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:01 | 1 |
| Chromium | <0.0050 | | 0.0050 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:01 | 1 |
| Cobalt | <0.0010 | | 0.0010 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:01 | 1 |
| Lead | <0.00050 | | 0.00050 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:01 | 1 |
| Lithium | 0.012 | | 0.010 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:01 | 1 |
| Molybdenum | 0.0067 | | 0.0050 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:01 | 1 |
| Selenium | <0.0025 | | 0.0025 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:01 | 1 |
| Thallium | <0.0020 | | 0.0020 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:01 | 1 |

Method: 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|----------|-----------|---------|-----|------|---|----------------|----------------|---------|
| Mercury | <0.00020 | | 0.00020 | | mg/L | | 06/16/22 10:05 | 06/17/22 08:27 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|-------------|-----------|------|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 1000 | | 10 | | mg/L | | | 06/09/22 04:17 | 1 |
| Chloride | 150 | | 10 | | mg/L | | | 06/10/22 10:22 | 5 |
| Fluoride | 0.55 | | 0.10 | | mg/L | | | 06/20/22 12:53 | 1 |
| Sulfate | 230 | | 50 | | mg/L | | | 06/13/22 10:18 | 10 |

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR Q2

Job ID: 500-217778-1

Client Sample ID: MW-19

Lab Sample ID: 500-217778-3

Date Collected: 06/06/22 16:37

Matrix: Water

Date Received: 06/08/22 16:45

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------|--------------|-----------|---------|-----|------|---|----------------|----------------|---------|
| Antimony | <0.0030 | | 0.0030 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:05 | 1 |
| Arsenic | <0.0010 | | 0.0010 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:05 | 1 |
| Barium | 0.082 | | 0.0025 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:05 | 1 |
| Beryllium | <0.0010 | | 0.0010 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:05 | 1 |
| Boron | 2.7 | | 0.50 | | mg/L | | 06/10/22 08:52 | 06/14/22 18:58 | 10 |
| Cadmium | <0.00050 | | 0.00050 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:05 | 1 |
| Calcium | 92 | | 0.20 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:05 | 1 |
| Chromium | <0.0050 | | 0.0050 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:05 | 1 |
| Cobalt | <0.0010 | | 0.0010 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:05 | 1 |
| Lead | <0.00050 | | 0.00050 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:05 | 1 |
| Lithium | <0.010 | | 0.010 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:05 | 1 |
| Molybdenum | 0.030 | | 0.0050 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:05 | 1 |
| Selenium | <0.0025 | | 0.0025 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:05 | 1 |
| Thallium | <0.0020 | | 0.0020 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:05 | 1 |

Method: 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|----------|-----------|---------|-----|------|---|----------------|----------------|---------|
| Mercury | <0.00020 | | 0.00020 | | mg/L | | 06/16/22 10:05 | 06/17/22 08:29 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|-------------|-----------|------|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 560 | | 10 | | mg/L | | | 06/09/22 04:19 | 1 |
| Chloride | 33 | | 4.0 | | mg/L | | | 06/10/22 10:23 | 2 |
| Fluoride | 0.12 | | 0.10 | | mg/L | | | 06/20/22 12:56 | 1 |
| Sulfate | 130 | | 25 | | mg/L | | | 06/13/22 10:20 | 5 |

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR Q2

Job ID: 500-217778-1

Client Sample ID: Duplicate

Lab Sample ID: 500-217778-4

Date Collected: 06/06/22 00:00

Matrix: Water

Date Received: 06/08/22 16:45

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------|---------------|-----------|---------|-----|------|---|----------------|----------------|---------|
| Antimony | <0.0030 | | 0.0030 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:08 | 1 |
| Arsenic | 0.0022 | | 0.0010 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:08 | 1 |
| Barium | 0.12 | | 0.0025 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:08 | 1 |
| Beryllium | <0.0010 | | 0.0010 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:08 | 1 |
| Boron | 0.65 | | 0.050 | | mg/L | | 06/10/22 08:52 | 06/14/22 19:01 | 1 |
| Cadmium | <0.00050 | | 0.00050 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:08 | 1 |
| Calcium | 120 | | 0.20 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:08 | 1 |
| Chromium | <0.0050 | | 0.0050 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:08 | 1 |
| Cobalt | <0.0010 | | 0.0010 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:08 | 1 |
| Lead | <0.00050 | | 0.00050 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:08 | 1 |
| Lithium | 0.012 | | 0.010 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:08 | 1 |
| Molybdenum | 0.032 | | 0.0050 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:08 | 1 |
| Selenium | <0.0025 | | 0.0025 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:08 | 1 |
| Thallium | <0.0020 | | 0.0020 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:08 | 1 |

Method: 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|----------|-----------|---------|-----|------|---|----------------|----------------|---------|
| Mercury | <0.00020 | | 0.00020 | | mg/L | | 06/16/22 10:05 | 06/17/22 08:31 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|-------------|-----------|------|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 1100 | | 10 | | mg/L | | | 06/09/22 04:22 | 1 |
| Chloride | 150 | | 10 | | mg/L | | | 06/10/22 10:24 | 5 |
| Fluoride | 0.56 | | 0.10 | | mg/L | | | 06/20/22 12:59 | 1 |
| Sulfate | 220 | | 50 | | mg/L | | | 06/13/22 10:20 | 10 |

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR Q2

Job ID: 500-217778-1

Client Sample ID: MW-17
Date Collected: 06/08/22 13:45
Date Received: 06/09/22 16:20

Lab Sample ID: 500-217778-5
Matrix: Water

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------|---------------|-----------|---------|-----|------|---|----------------|----------------|---------|
| Antimony | <0.0030 | | 0.0030 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:11 | 1 |
| Arsenic | 0.0051 | | 0.0010 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:11 | 1 |
| Barium | 0.037 | | 0.0025 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:11 | 1 |
| Beryllium | <0.0010 | | 0.0010 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:11 | 1 |
| Boron | 1.3 | | 0.25 | | mg/L | | 06/10/22 08:52 | 06/14/22 19:05 | 5 |
| Cadmium | <0.00050 | | 0.00050 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:11 | 1 |
| Calcium | 200 | | 0.20 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:11 | 1 |
| Chromium | <0.0050 | | 0.0050 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:11 | 1 |
| Cobalt | <0.0010 | | 0.0010 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:11 | 1 |
| Lead | <0.00050 | | 0.00050 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:11 | 1 |
| Lithium | 0.018 | | 0.010 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:11 | 1 |
| Molybdenum | 0.052 | | 0.0050 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:11 | 1 |
| Selenium | <0.0025 | | 0.0025 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:11 | 1 |
| Thallium | <0.0020 | | 0.0020 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:11 | 1 |

Method: 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|----------|-----------|---------|-----|------|---|----------------|----------------|---------|
| Mercury | <0.00020 | | 0.00020 | | mg/L | | 06/16/22 10:05 | 06/17/22 08:33 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|-------------|-----------|------|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 1900 | | 10 | | mg/L | | | 06/10/22 05:01 | 1 |
| Chloride | 190 | | 10 | | mg/L | | | 06/10/22 10:52 | 5 |
| Fluoride | 0.69 | | 0.10 | | mg/L | | | 06/20/22 13:02 | 1 |
| Sulfate | 810 | | 100 | | mg/L | | | 06/13/22 10:20 | 20 |

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR Q2

Job ID: 500-217778-1

Client Sample ID: MW-08
Date Collected: 06/08/22 11:48
Date Received: 06/09/22 16:20

Lab Sample ID: 500-217778-6
Matrix: Water

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------|---------------|-----------|---------|-----|------|---|----------------|----------------|---------|
| Antimony | <0.0030 | | 0.0030 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:15 | 1 |
| Arsenic | 0.0024 | | 0.0010 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:15 | 1 |
| Barium | 0.14 | | 0.0025 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:15 | 1 |
| Beryllium | <0.0010 | | 0.0010 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:15 | 1 |
| Boron | 0.73 | | 0.050 | | mg/L | | 06/10/22 08:52 | 06/14/22 19:08 | 1 |
| Cadmium | <0.00050 | | 0.00050 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:15 | 1 |
| Calcium | 130 | | 0.20 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:15 | 1 |
| Chromium | <0.0050 | | 0.0050 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:15 | 1 |
| Cobalt | <0.0010 | | 0.0010 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:15 | 1 |
| Lead | <0.00050 | | 0.00050 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:15 | 1 |
| Lithium | 0.022 | | 0.010 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:15 | 1 |
| Molybdenum | 0.0086 | | 0.0050 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:15 | 1 |
| Selenium | <0.0025 | | 0.0025 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:15 | 1 |
| Thallium | <0.0020 | | 0.0020 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:15 | 1 |

Method: 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|----------|-----------|---------|-----|------|---|----------------|----------------|---------|
| Mercury | <0.00020 | | 0.00020 | | mg/L | | 06/16/22 10:05 | 06/17/22 08:39 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|-------------|-----------|------|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 790 | | 10 | | mg/L | | | 06/10/22 05:03 | 1 |
| Chloride | 180 | | 10 | | mg/L | | | 06/10/22 10:53 | 5 |
| Fluoride | 0.30 | | 0.10 | | mg/L | | | 06/20/22 13:05 | 1 |
| Sulfate | 53 | | 10 | | mg/L | | | 06/13/22 10:21 | 2 |

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR Q2

Job ID: 500-217778-1

Client Sample ID: MW-09
Date Collected: 06/08/22 08:10
Date Received: 06/09/22 16:20

Lab Sample ID: 500-217778-7
Matrix: Water

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------|---------------|-----------|---------|-----|------|---|----------------|----------------|---------|
| Antimony | <0.0030 | | 0.0030 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:18 | 1 |
| Arsenic | 0.0020 | | 0.0010 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:18 | 1 |
| Barium | 0.042 | | 0.0025 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:18 | 1 |
| Beryllium | <0.0010 | | 0.0010 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:18 | 1 |
| Boron | 3.2 | | 0.50 | | mg/L | | 06/10/22 08:52 | 06/14/22 19:12 | 10 |
| Cadmium | <0.00050 | | 0.00050 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:18 | 1 |
| Calcium | 70 | | 0.20 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:18 | 1 |
| Chromium | <0.0050 | | 0.0050 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:18 | 1 |
| Cobalt | 0.0011 | | 0.0010 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:18 | 1 |
| Lead | <0.00050 | | 0.00050 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:18 | 1 |
| Lithium | <0.010 | | 0.010 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:18 | 1 |
| Molybdenum | 0.028 | | 0.0050 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:18 | 1 |
| Selenium | <0.0025 | | 0.0025 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:18 | 1 |
| Thallium | <0.0020 | | 0.0020 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:18 | 1 |

Method: 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|----------|-----------|---------|-----|------|---|----------------|----------------|---------|
| Mercury | <0.00020 | | 0.00020 | | mg/L | | 06/16/22 10:05 | 06/17/22 08:48 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|-------------|-----------|------|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 510 | | 10 | | mg/L | | | 06/10/22 05:06 | 1 |
| Chloride | 31 | | 2.0 | | mg/L | | | 06/10/22 10:52 | 1 |
| Fluoride | 0.21 | | 0.10 | | mg/L | | | 06/20/22 13:19 | 1 |
| Sulfate | 150 | | 25 | | mg/L | | | 06/13/22 10:21 | 5 |

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR Q2

Job ID: 500-217778-1

Client Sample ID: MW-11
Date Collected: 06/08/22 09:10
Date Received: 06/09/22 16:20

Lab Sample ID: 500-217778-8
Matrix: Water

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------|----------------|-----------|---------|-----|------|---|----------------|----------------|---------|
| Antimony | <0.0030 | | 0.0030 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:22 | 1 |
| Arsenic | 0.028 | | 0.0010 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:22 | 1 |
| Barium | 0.20 | | 0.0025 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:22 | 1 |
| Beryllium | <0.0010 | | 0.0010 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:22 | 1 |
| Boron | 1.7 | | 0.25 | | mg/L | | 06/10/22 08:52 | 06/14/22 19:22 | 5 |
| Cadmium | 0.00058 | | 0.00050 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:22 | 1 |
| Calcium | 110 | | 0.20 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:22 | 1 |
| Chromium | <0.0050 | | 0.0050 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:22 | 1 |
| Cobalt | 0.0018 | | 0.0010 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:22 | 1 |
| Lead | <0.00050 | | 0.00050 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:22 | 1 |
| Lithium | <0.010 | | 0.010 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:22 | 1 |
| Molybdenum | 0.021 | | 0.0050 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:22 | 1 |
| Selenium | <0.0025 | | 0.0025 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:22 | 1 |
| Thallium | <0.0020 | | 0.0020 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:22 | 1 |

Method: 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|----------|-----------|---------|-----|------|---|----------------|----------------|---------|
| Mercury | <0.00020 | | 0.00020 | | mg/L | | 06/16/22 10:05 | 06/17/22 08:50 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|-------------|-----------|------|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 710 | | 10 | | mg/L | | | 06/10/22 05:08 | 1 |
| Chloride | 75 | | 10 | | mg/L | | | 06/10/22 10:53 | 5 |
| Fluoride | 0.64 | | 0.10 | | mg/L | | | 06/20/22 13:22 | 1 |
| Sulfate | 150 | | 50 | | mg/L | | | 06/13/22 10:35 | 10 |

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR Q2

Job ID: 500-217778-1

Client Sample ID: MW-12

Lab Sample ID: 500-217778-9

Date Collected: 06/08/22 10:42

Matrix: Water

Date Received: 06/09/22 16:20

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------|---------------|-----------|---------|-----|------|---|----------------|----------------|---------|
| Antimony | <0.0030 | | 0.0030 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:25 | 1 |
| Arsenic | 0.0079 | | 0.0010 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:25 | 1 |
| Barium | 0.064 | | 0.0025 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:25 | 1 |
| Beryllium | <0.0010 | | 0.0010 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:25 | 1 |
| Boron | 0.49 | | 0.050 | | mg/L | | 06/10/22 08:52 | 06/14/22 19:25 | 1 |
| Cadmium | <0.00050 | | 0.00050 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:25 | 1 |
| Calcium | 98 | | 0.20 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:25 | 1 |
| Chromium | <0.0050 | | 0.0050 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:25 | 1 |
| Cobalt | <0.0010 | | 0.0010 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:25 | 1 |
| Lead | <0.00050 | | 0.00050 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:25 | 1 |
| Lithium | 0.012 | | 0.010 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:25 | 1 |
| Molybdenum | 0.020 | | 0.0050 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:25 | 1 |
| Selenium | <0.0025 | | 0.0025 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:25 | 1 |
| Thallium | <0.0020 | | 0.0020 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:25 | 1 |

Method: 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|----------|-----------|---------|-----|------|---|----------------|----------------|---------|
| Mercury | <0.00020 | | 0.00020 | | mg/L | | 06/16/22 10:05 | 06/17/22 08:52 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|-------------|-----------|------|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 950 | | 10 | | mg/L | | | 06/10/22 05:11 | 1 |
| Chloride | 140 | | 10 | | mg/L | | | 06/10/22 10:53 | 5 |
| Fluoride | 0.41 | | 0.10 | | mg/L | | | 06/20/22 13:25 | 1 |
| Sulfate | 320 | | 50 | | mg/L | | | 06/13/22 10:36 | 10 |

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR Q2

Job ID: 500-217778-1

Client Sample ID: MW-15

Lab Sample ID: 500-217778-10

Date Collected: 06/08/22 14:50

Matrix: Water

Date Received: 06/09/22 16:20

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------|---------------|-----------|---------|-----|------|---|----------------|----------------|---------|
| Antimony | <0.0030 | | 0.0030 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:29 | 1 |
| Arsenic | 0.0032 | | 0.0010 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:29 | 1 |
| Barium | 0.088 | | 0.0025 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:29 | 1 |
| Beryllium | <0.0010 | | 0.0010 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:29 | 1 |
| Boron | 2.0 | | 0.25 | | mg/L | | 06/10/22 08:52 | 06/14/22 19:29 | 5 |
| Cadmium | <0.00050 | | 0.00050 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:29 | 1 |
| Calcium | 330 | | 1.0 | | mg/L | | 06/10/22 08:52 | 06/14/22 19:29 | 5 |
| Chromium | <0.0050 | | 0.0050 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:29 | 1 |
| Cobalt | <0.0010 | | 0.0010 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:29 | 1 |
| Lead | <0.00050 | | 0.00050 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:29 | 1 |
| Lithium | 0.027 | | 0.010 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:29 | 1 |
| Molybdenum | 0.019 | | 0.0050 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:29 | 1 |
| Selenium | 0.10 | | 0.0025 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:29 | 1 |
| Thallium | <0.0020 | | 0.0020 | | mg/L | | 06/10/22 08:52 | 06/13/22 19:29 | 1 |

Method: 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|----------|-----------|---------|-----|------|---|----------------|----------------|---------|
| Mercury | <0.00020 | | 0.00020 | | mg/L | | 06/16/22 10:05 | 06/17/22 08:54 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|-------------|-----------|------|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 2700 | | 10 | | mg/L | | | 06/10/22 05:14 | 1 |
| Chloride | 240 | | 10 | | mg/L | | | 06/10/22 10:54 | 5 |
| Fluoride | 0.43 | | 0.10 | | mg/L | | | 06/20/22 13:28 | 1 |
| Sulfate | 980 | | 100 | | mg/L | | | 06/13/22 10:51 | 20 |

Definitions/Glossary

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR Q2

Job ID: 500-217778-1

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 Q2

Job ID: 500-217778-1

Metals

Prep Batch: 660685

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-------------------|--------|--------|------------|
| 500-217778-1 | MW-01 | Total Recoverable | Water | 3005A | |
| 500-217778-2 | MW-18 | Total Recoverable | Water | 3005A | |
| 500-217778-3 | MW-19 | Total Recoverable | Water | 3005A | |
| 500-217778-4 | Duplicate | Total Recoverable | Water | 3005A | |
| 500-217778-5 | MW-17 | Total Recoverable | Water | 3005A | |
| 500-217778-6 | MW-08 | Total Recoverable | Water | 3005A | |
| 500-217778-7 | MW-09 | Total Recoverable | Water | 3005A | |
| 500-217778-8 | MW-11 | Total Recoverable | Water | 3005A | |
| 500-217778-9 | MW-12 | Total Recoverable | Water | 3005A | |
| 500-217778-10 | MW-15 | Total Recoverable | Water | 3005A | |
| MB 500-660685/1-A | Method Blank | Total Recoverable | Water | 3005A | |
| LCS 500-660685/2-A | Lab Control Sample | Total Recoverable | Water | 3005A | |

Analysis Batch: 661121

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-------------------|--------|--------|------------|
| 500-217778-1 | MW-01 | Total Recoverable | Water | 6020A | 660685 |
| 500-217778-2 | MW-18 | Total Recoverable | Water | 6020A | 660685 |
| 500-217778-3 | MW-19 | Total Recoverable | Water | 6020A | 660685 |
| 500-217778-4 | Duplicate | Total Recoverable | Water | 6020A | 660685 |
| 500-217778-5 | MW-17 | Total Recoverable | Water | 6020A | 660685 |
| 500-217778-6 | MW-08 | Total Recoverable | Water | 6020A | 660685 |
| 500-217778-7 | MW-09 | Total Recoverable | Water | 6020A | 660685 |
| 500-217778-8 | MW-11 | Total Recoverable | Water | 6020A | 660685 |
| 500-217778-9 | MW-12 | Total Recoverable | Water | 6020A | 660685 |
| 500-217778-10 | MW-15 | Total Recoverable | Water | 6020A | 660685 |
| MB 500-660685/1-A | Method Blank | Total Recoverable | Water | 6020A | 660685 |
| LCS 500-660685/2-A | Lab Control Sample | Total Recoverable | Water | 6020A | 660685 |

Analysis Batch: 661307

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-------------------|--------|--------|------------|
| 500-217778-1 | MW-01 | Total Recoverable | Water | 6020A | 660685 |
| 500-217778-2 | MW-18 | Total Recoverable | Water | 6020A | 660685 |
| 500-217778-3 | MW-19 | Total Recoverable | Water | 6020A | 660685 |
| 500-217778-4 | Duplicate | Total Recoverable | Water | 6020A | 660685 |
| 500-217778-5 | MW-17 | Total Recoverable | Water | 6020A | 660685 |
| 500-217778-6 | MW-08 | Total Recoverable | Water | 6020A | 660685 |
| 500-217778-7 | MW-09 | Total Recoverable | Water | 6020A | 660685 |
| 500-217778-8 | MW-11 | Total Recoverable | Water | 6020A | 660685 |
| 500-217778-9 | MW-12 | Total Recoverable | Water | 6020A | 660685 |
| 500-217778-10 | MW-15 | Total Recoverable | Water | 6020A | 660685 |
| MB 500-660685/1-A | Method Blank | Total Recoverable | Water | 6020A | 660685 |
| LCS 500-660685/2-A | Lab Control Sample | Total Recoverable | Water | 6020A | 660685 |

Prep Batch: 661477

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|--------|------------|
| 500-217778-1 | MW-01 | Total/NA | Water | 7470A | |
| 500-217778-2 | MW-18 | Total/NA | Water | 7470A | |
| 500-217778-3 | MW-19 | Total/NA | Water | 7470A | |
| 500-217778-4 | Duplicate | Total/NA | Water | 7470A | |
| 500-217778-5 | MW-17 | Total/NA | Water | 7470A | |
| 500-217778-6 | MW-08 | Total/NA | Water | 7470A | |

Euofins Chicago

QC Association Summary

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR Q2

Job ID: 500-217778-1

Metals (Continued)

Prep Batch: 661477 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|--------------------|-----------|--------|--------|------------|
| 500-217778-7 | MW-09 | Total/NA | Water | 7470A | |
| 500-217778-8 | MW-11 | Total/NA | Water | 7470A | |
| 500-217778-9 | MW-12 | Total/NA | Water | 7470A | |
| 500-217778-10 | MW-15 | Total/NA | Water | 7470A | |
| MB 500-661477/12-A | Method Blank | Total/NA | Water | 7470A | |
| LCS 500-661477/13-A | Lab Control Sample | Total/NA | Water | 7470A | |
| 500-217778-6 MS | MW-08 | Total/NA | Water | 7470A | |
| 500-217778-6 MSD | MW-08 | Total/NA | Water | 7470A | |
| 500-217778-6 DU | MW-08 | Total/NA | Water | 7470A | |

Analysis Batch: 661701

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|--------------------|-----------|--------|--------|------------|
| 500-217778-1 | MW-01 | Total/NA | Water | 7470A | 661477 |
| 500-217778-2 | MW-18 | Total/NA | Water | 7470A | 661477 |
| 500-217778-3 | MW-19 | Total/NA | Water | 7470A | 661477 |
| 500-217778-4 | Duplicate | Total/NA | Water | 7470A | 661477 |
| 500-217778-5 | MW-17 | Total/NA | Water | 7470A | 661477 |
| 500-217778-6 | MW-08 | Total/NA | Water | 7470A | 661477 |
| 500-217778-7 | MW-09 | Total/NA | Water | 7470A | 661477 |
| 500-217778-8 | MW-11 | Total/NA | Water | 7470A | 661477 |
| 500-217778-9 | MW-12 | Total/NA | Water | 7470A | 661477 |
| 500-217778-10 | MW-15 | Total/NA | Water | 7470A | 661477 |
| MB 500-661477/12-A | Method Blank | Total/NA | Water | 7470A | 661477 |
| LCS 500-661477/13-A | Lab Control Sample | Total/NA | Water | 7470A | 661477 |
| 500-217778-6 MS | MW-08 | Total/NA | Water | 7470A | 661477 |
| 500-217778-6 MSD | MW-08 | Total/NA | Water | 7470A | 661477 |
| 500-217778-6 DU | MW-08 | Total/NA | Water | 7470A | 661477 |

General Chemistry

Analysis Batch: 660435

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|----------|------------|
| 500-217778-1 | MW-01 | Total/NA | Water | SM 2540C | |
| 500-217778-2 | MW-18 | Total/NA | Water | SM 2540C | |
| 500-217778-3 | MW-19 | Total/NA | Water | SM 2540C | |
| 500-217778-4 | Duplicate | Total/NA | Water | SM 2540C | |
| MB 500-660435/1 | Method Blank | Total/NA | Water | SM 2540C | |
| LCS 500-660435/2 | Lab Control Sample | Total/NA | Water | SM 2540C | |

Analysis Batch: 660651

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|----------|------------|
| 500-217778-5 | MW-17 | Total/NA | Water | SM 2540C | |
| 500-217778-6 | MW-08 | Total/NA | Water | SM 2540C | |
| 500-217778-7 | MW-09 | Total/NA | Water | SM 2540C | |
| 500-217778-8 | MW-11 | Total/NA | Water | SM 2540C | |
| 500-217778-9 | MW-12 | Total/NA | Water | SM 2540C | |
| 500-217778-10 | MW-15 | Total/NA | Water | SM 2540C | |
| MB 500-660651/1 | Method Blank | Total/NA | Water | SM 2540C | |
| LCS 500-660651/2 | Lab Control Sample | Total/NA | Water | SM 2540C | |

QC Association Summary

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR Q2

Job ID: 500-217778-1

General Chemistry

Analysis Batch: 660740

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|---------------|------------|
| 500-217778-1 | MW-01 | Total/NA | Water | SM 4500 Cl- E | |
| 500-217778-2 | MW-18 | Total/NA | Water | SM 4500 Cl- E | |
| 500-217778-3 | MW-19 | Total/NA | Water | SM 4500 Cl- E | |
| 500-217778-4 | Duplicate | Total/NA | Water | SM 4500 Cl- E | |
| 500-217778-5 | MW-17 | Total/NA | Water | SM 4500 Cl- E | |
| 500-217778-6 | MW-08 | Total/NA | Water | SM 4500 Cl- E | |
| 500-217778-7 | MW-09 | Total/NA | Water | SM 4500 Cl- E | |
| 500-217778-8 | MW-11 | Total/NA | Water | SM 4500 Cl- E | |
| 500-217778-9 | MW-12 | Total/NA | Water | SM 4500 Cl- E | |
| 500-217778-10 | MW-15 | Total/NA | Water | SM 4500 Cl- E | |
| MB 500-660740/105 | Method Blank | Total/NA | Water | SM 4500 Cl- E | |
| MB 500-660740/64 | Method Blank | Total/NA | Water | SM 4500 Cl- E | |
| LCS 500-660740/106 | Lab Control Sample | Total/NA | Water | SM 4500 Cl- E | |
| LCS 500-660740/65 | Lab Control Sample | Total/NA | Water | SM 4500 Cl- E | |
| 500-217778-7 MS | MW-09 | Total/NA | Water | SM 4500 Cl- E | |
| 500-217778-7 MSD | MW-09 | Total/NA | Water | SM 4500 Cl- E | |

Analysis Batch: 660955

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|---------------|------------|
| 500-217778-1 | MW-01 | Total/NA | Water | SM 4500 SO4 E | |
| 500-217778-2 | MW-18 | Total/NA | Water | SM 4500 SO4 E | |
| 500-217778-3 | MW-19 | Total/NA | Water | SM 4500 SO4 E | |
| 500-217778-4 | Duplicate | Total/NA | Water | SM 4500 SO4 E | |
| 500-217778-5 | MW-17 | Total/NA | Water | SM 4500 SO4 E | |
| 500-217778-6 | MW-08 | Total/NA | Water | SM 4500 SO4 E | |
| 500-217778-7 | MW-09 | Total/NA | Water | SM 4500 SO4 E | |
| 500-217778-8 | MW-11 | Total/NA | Water | SM 4500 SO4 E | |
| 500-217778-9 | MW-12 | Total/NA | Water | SM 4500 SO4 E | |
| 500-217778-10 | MW-15 | Total/NA | Water | SM 4500 SO4 E | |
| MB 500-660955/55 | Method Blank | Total/NA | Water | SM 4500 SO4 E | |
| MB 500-660955/94 | Method Blank | Total/NA | Water | SM 4500 SO4 E | |
| LCS 500-660955/56 | Lab Control Sample | Total/NA | Water | SM 4500 SO4 E | |
| LCS 500-660955/95 | Lab Control Sample | Total/NA | Water | SM 4500 SO4 E | |
| 500-217778-8 MS | MW-11 | Total/NA | Water | SM 4500 SO4 E | |
| 500-217778-8 MSD | MW-11 | Total/NA | Water | SM 4500 SO4 E | |

Analysis Batch: 662032

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|-------------|------------|
| 500-217778-1 | MW-01 | Total/NA | Water | SM 4500 F C | |
| 500-217778-2 | MW-18 | Total/NA | Water | SM 4500 F C | |
| 500-217778-3 | MW-19 | Total/NA | Water | SM 4500 F C | |
| 500-217778-4 | Duplicate | Total/NA | Water | SM 4500 F C | |
| 500-217778-5 | MW-17 | Total/NA | Water | SM 4500 F C | |
| 500-217778-6 | MW-08 | Total/NA | Water | SM 4500 F C | |
| 500-217778-7 | MW-09 | Total/NA | Water | SM 4500 F C | |
| 500-217778-8 | MW-11 | Total/NA | Water | SM 4500 F C | |
| 500-217778-9 | MW-12 | Total/NA | Water | SM 4500 F C | |
| 500-217778-10 | MW-15 | Total/NA | Water | SM 4500 F C | |
| MB 500-662032/3 | Method Blank | Total/NA | Water | SM 4500 F C | |
| LCS 500-662032/4 | Lab Control Sample | Total/NA | Water | SM 4500 F C | |

QC Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR Q2

Job ID: 500-217778-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 500-660685/1-A
Matrix: Water
Analysis Batch: 661121

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 660685

| Analyte | MB | MB | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-----|------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| Antimony | <0.0030 | | 0.0030 | | mg/L | | 06/10/22 08:52 | 06/13/22 17:56 | 1 |
| Arsenic | <0.0010 | | 0.0010 | | mg/L | | 06/10/22 08:52 | 06/13/22 17:56 | 1 |
| Barium | <0.0025 | | 0.0025 | | mg/L | | 06/10/22 08:52 | 06/13/22 17:56 | 1 |
| Beryllium | <0.0010 | | 0.0010 | | mg/L | | 06/10/22 08:52 | 06/13/22 17:56 | 1 |
| Cadmium | <0.00050 | | 0.00050 | | mg/L | | 06/10/22 08:52 | 06/13/22 17:56 | 1 |
| Calcium | <0.20 | | 0.20 | | mg/L | | 06/10/22 08:52 | 06/13/22 17:56 | 1 |
| Chromium | <0.0050 | | 0.0050 | | mg/L | | 06/10/22 08:52 | 06/13/22 17:56 | 1 |
| Cobalt | <0.0010 | | 0.0010 | | mg/L | | 06/10/22 08:52 | 06/13/22 17:56 | 1 |
| Lead | <0.00050 | | 0.00050 | | mg/L | | 06/10/22 08:52 | 06/13/22 17:56 | 1 |
| Lithium | <0.010 | | 0.010 | | mg/L | | 06/10/22 08:52 | 06/13/22 17:56 | 1 |
| Molybdenum | <0.0050 | | 0.0050 | | mg/L | | 06/10/22 08:52 | 06/13/22 17:56 | 1 |
| Selenium | <0.0025 | | 0.0025 | | mg/L | | 06/10/22 08:52 | 06/13/22 17:56 | 1 |
| Thallium | <0.0020 | | 0.0020 | | mg/L | | 06/10/22 08:52 | 06/13/22 17:56 | 1 |

Lab Sample ID: MB 500-660685/1-A
Matrix: Water
Analysis Batch: 661307

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 660685

| Analyte | MB | MB | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-------|-----|------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| Boron | <0.050 | | 0.050 | | mg/L | | 06/10/22 08:52 | 06/14/22 18:44 | 1 |

Lab Sample ID: LCS 500-660685/2-A
Matrix: Water
Analysis Batch: 661121

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 660685

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|------------|-------------|------------|---------------|------|---|------|-------------|
| | | | | | | | |
| Arsenic | 0.100 | 0.0939 | | mg/L | | 94 | 80 - 120 |
| Barium | 2.00 | 1.98 | | mg/L | | 99 | 80 - 120 |
| Beryllium | 0.0500 | 0.0547 | | mg/L | | 109 | 80 - 120 |
| Cadmium | 0.0500 | 0.0477 | | mg/L | | 95 | 80 - 120 |
| Calcium | 10.0 | 10.3 | | mg/L | | 103 | 80 - 120 |
| Chromium | 0.200 | 0.205 | | mg/L | | 103 | 80 - 120 |
| Cobalt | 0.500 | 0.516 | | mg/L | | 103 | 80 - 120 |
| Lead | 0.100 | 0.104 | | mg/L | | 104 | 80 - 120 |
| Lithium | 0.500 | 0.547 | | mg/L | | 109 | 80 - 120 |
| Molybdenum | 1.00 | 0.932 | | mg/L | | 93 | 80 - 120 |
| Selenium | 0.100 | 0.0948 | | mg/L | | 95 | 80 - 120 |
| Thallium | 0.100 | 0.105 | | mg/L | | 105 | 80 - 120 |

Lab Sample ID: LCS 500-660685/2-A
Matrix: Water
Analysis Batch: 661307

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 660685

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

QC Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR Q2

Job ID: 500-217778-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-661477/12-A
Matrix: Water
Analysis Batch: 661701

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 661477

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|--------------|---------|-----|------|---|----------------|----------------|---------|
| Mercury | <0.00020 | | 0.00020 | | mg/L | | 06/16/22 10:05 | 06/17/22 08:16 | 1 |

Lab Sample ID: LCS 500-661477/13-A
Matrix: Water
Analysis Batch: 661701

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 661477

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------|-------------|------------|---------------|------|---|------|-------------|
| Mercury | 0.00200 | 0.00221 | | mg/L | | 111 | 80 - 120 |

Lab Sample ID: 500-217778-6 MS
Matrix: Water
Analysis Batch: 661701

Client Sample ID: MW-08
Prep Type: Total/NA
Prep Batch: 661477

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Mercury | <0.00020 | | 0.00100 | 0.000924 | | mg/L | | 92 | 75 - 125 |

Lab Sample ID: 500-217778-6 MSD
Matrix: Water
Analysis Batch: 661701

Client Sample ID: MW-08
Prep Type: Total/NA
Prep Batch: 661477

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| Mercury | <0.00020 | | 0.00100 | 0.000897 | | mg/L | | 90 | 75 - 125 | 3 | 20 |

Lab Sample ID: 500-217778-6 DU
Matrix: Water
Analysis Batch: 661701

Client Sample ID: MW-08
Prep Type: Total/NA
Prep Batch: 661477

| Analyte | Sample Result | Sample Qualifier | Spike Added | DU Result | DU Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|-----|-----------|
| Mercury | <0.00020 | | | <0.00020 | | mg/L | | | | NC | 20 |

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

Lab Sample ID: MB 500-660435/1
Matrix: Water
Analysis Batch: 660435

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 | | | 06/09/22 03:23 | 1 |

Lab Sample ID: LCS 500-660435/2
Matrix: Water
Analysis Batch: 660435

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 | 272 | | mg/L | | 109 | 80 - 120 |

QC Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR Q2

Job ID: 500-217778-1

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

Lab Sample ID: MB 500-660651/1
Matrix: Water
Analysis Batch: 660651

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 | | | 06/10/22 04:25 | 1 |

Lab Sample ID: LCS 500-660651/2
Matrix: Water
Analysis Batch: 660651

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 | 268 | | mg/L | | 107 | 80 - 120 |

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 500-660740/105
Matrix: Water
Analysis Batch: 660740

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 | | | 06/10/22 10:52 | 1 |

Lab Sample ID: MB 500-660740/64
Matrix: Water
Analysis Batch: 660740

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 | | | 06/10/22 10:16 | 1 |

Lab Sample ID: LCS 500-660740/106
Matrix: Water
Analysis Batch: 660740

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: LCS 500-660740/65
Matrix: Water
Analysis Batch: 660740

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 | 20.5 | | mg/L | | 103 | 85 - 115 |

Lab Sample ID: 500-217778-7 MS
Matrix: Water
Analysis Batch: 660740

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 |
|----------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Chloride | 31 | | 20.0 | 54.3 | | mg/L | | 114 | 75 - 125 |

QC Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR Q2

Job ID: 500-217778-1

Method: SM 4500 Cl- E - Chloride, Total (Continued)

Lab Sample ID: 500-217778-7 MSD
Matrix: Water
Analysis Batch: 660740

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 |
|----------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| Chloride | 31 | | 20.0 | 54.3 | | mg/L | | 114 | 75 - 125 | 0 | 20 |

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-662032/3
Matrix: Water
Analysis Batch: 662032

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 | | | 06/20/22 11:55 | 1 |

Lab Sample ID: LCS 500-662032/4
Matrix: Water
Analysis Batch: 662032

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 | 10.7 | | mg/L | | 107 | 90 - 119 |

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 500-660955/55
Matrix: Water
Analysis Batch: 660955

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 | | | 06/13/22 09:56 | 1 |

Lab Sample ID: MB 500-660955/94
Matrix: Water
Analysis Batch: 660955

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 | | | 06/13/22 10:34 | 1 |

Lab Sample ID: LCS 500-660955/56
Matrix: Water
Analysis Batch: 660955

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 | 22.0 | | mg/L | | 110 | 88 - 123 |

Lab Sample ID: LCS 500-660955/95
Matrix: Water
Analysis Batch: 660955

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 | | 110 | 88 - 123 |

QC Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR Q2

Job ID: 500-217778-1

Method: SM 4500 SO4 E - Sulfate, Total (Continued)

Lab Sample ID: 500-217778-8 MS
Matrix: Water
Analysis Batch: 660955

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

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Sulfate | 150 | | 20.0 | 169 | 4 | mg/L | | 86 | 75 - 125 |

Lab Sample ID: 500-217778-8 MSD
Matrix: Water
Analysis Batch: 660955

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

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| Sulfate | 150 | | 20.0 | 171 | 4 | mg/L | | 94 | 75 - 125 | 1 | 20 |




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Chain of Custody Record

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|--|--|--|--|---|--|--|
| Client Information | | | Sampler <i>Mitchel Dolan</i> | Lab PM Mockler Diana J | Carrier Tracking No(s) | COC No: 500-101315-43259 1 |
| Client Contact: Mitchel Dolan | | | 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 | | Job #: <i>500-217778</i> |
| Address: 14665 West Lisbon Road Suite 1A | | | Due Date Requested |  500-217778 COC | Preservation Codes | |
| City Brookfield | | | TAT Requested (days) | | A HCL M Hexane B NaOH N None C Zn Acetate O AsNaO2 D Nitric Acid P Na2O4S E NaHSO4 Q Na2SO5 F MeOH R Na2S2O5 G Amchlor S H2SO4 H Amchlor T TSP Dodecahydrate I Ice U Acetone J DI Water V MCAA K EDTA W pH 4-5 L EDA Y T.zma Z other (specify) | |
| State Zip WI 53005 | | | Compliance Project. <input type="checkbox"/> Yes <input type="checkbox"/> No | | Other: | |
| Phone 262-781-0475(Tel) | | | PC # 4502081030 | | | |
| Email mitcheld@kprginc.com | | | WO # | | | |
| Project Name Powerton CCR Event Desc Quarterly Powerton CCR Sampling | | | Project # 50011612 | | | |
| S e Illinois | | | SSOV# | | | |
| Sample Identification | | | Sample Date | Sample Time | Sample Type (C=comp, G=grab) | Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air) |
| | | | | | Preservation Code: | |
| | | | | | D | D |
| | | | | | N | N |
| 1 MW-01 | | | 6/7/22 | 1432 | G | Water |
| 2 MW-18 MW-18 | | | 6/6/22 | 1532 | G | Water |
| 3 MW-19 MW-19 | | | 6/6/22 | 1637 | G | Water |
| 4 MW-1 Duplicate | | | 6/6/22 | - | G | Water |
| 5 | | | | | | Water |
| 6 | | | | | | Water |
| 7 | | | | | | Water |
| 8 | | | | | | Water |
| 9 | | | | | | Water |
| 10 | | | | | | Water |
| 11 | | | | | | Water |
| 12 | | | | | | Water |
| 13 | | | | | | Water |
| Possible Hazard Identification | | | Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) | | | |
| <input 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 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>MPD</i> | | | Date/Time <i>6/17/22 / 1800</i> | Company <i>KPRG</i> | Received by <i>FEDEX</i> | Date/Time <i>6/17/22 / 1800</i> Company <i>FEDEX</i> |
| Relinquished by | | | Date/Time | Company | Received by <i>Stephanie Hammond</i> | Date/Time <i>6/18/22 1645</i> Company <i>EEIA</i> |
| 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 <i>23+09, 22+08</i> | |

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 University Park IL 60484
 Phone 708-534-5200 Fax 708-534-5211

Chain of Custody Record

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| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------------------------------|--|--|------------------------------|-------------------------------|--|--|--|---|--|---|-----------------------|----------------------------|---|-----------------------|--|-------------------------------|----------------|-----------|----------|--------------------------|--------|-----------|--|-----------|---------|--|-----------------|---------------------|--------------|------|-----------|--|------------|--------|--|--------|----------|--|-------|----------|-----------|--|-------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Client Information | | Sampler <i>Mitchel Dolan</i> | Lab PM Mockler Diana J | Carrier Tracking No(s) | COC No. 500-101315-43259 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Client Contact Mitchel Dolan | | 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. | | PWS ID | Analysis Requested | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Address 14665 West Lisbon Road Suite 1A | | Due Date Requested | <table border="1"> <tr> <td>Field Filtered Sample (Yes or No)</td> <td>903.0, 904.0</td> <td>6020A 7470A</td> <td>2540C 4500_F_C, SIM4500_CL_E, SIM4500_SO4_E</td> <td>SIM4500_SO4_E Sulfate</td> </tr> <tr> <td>TAT Requested (days)</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>PO # 4502081030</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>WQ #</td> <td></td> <td></td> <td></td> <td></td> </tr> </table> | | | Field Filtered Sample (Yes or No) | 903.0, 904.0 | 6020A 7470A | 2540C 4500_F_C, SIM4500_CL_E, SIM4500_SO4_E | SIM4500_SO4_E Sulfate | TAT Requested (days) | | | | | Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No | | | | | PO # 4502081030 | | | | | WQ # | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Field Filtered Sample (Yes or No) | 903.0, 904.0 | 6020A 7470A | | | | 2540C 4500_F_C, SIM4500_CL_E, SIM4500_SO4_E | SIM4500_SO4_E Sulfate | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TAT Requested (days) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PO # 4502081030 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WQ # | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| City Brookfield | | | <table border="1"> <tr> <td>Preservation Codes</td> <td>A HCL</td> <td>M Hexane</td> </tr> <tr> <td></td> <td>B NaOH</td> <td>N None</td> </tr> <tr> <td></td> <td>C Zn Acetate</td> <td>O AsstaO2</td> </tr> <tr> <td></td> <td>D Nitric Acid</td> <td>P Na2O4S</td> </tr> <tr> <td></td> <td>E NaHSC4</td> <td>Q Na2SO3</td> </tr> <tr> <td></td> <td>F MeOH</td> <td>R Na2S2O3</td> </tr> <tr> <td></td> <td>G Amchlor</td> <td>S H2SO4</td> </tr> <tr> <td></td> <td>H Ascorbic Acid</td> <td>T TSP Dodecahydrate</td> </tr> <tr> <td></td> <td>I ce</td> <td>U Acetone</td> </tr> <tr> <td></td> <td>J Di Water</td> <td>V MCAA</td> </tr> <tr> <td></td> <td>K EDTA</td> <td>W pH 4-5</td> </tr> <tr> <td></td> <td>L EDA</td> <td>Y Trizma</td> </tr> <tr> <td></td> <td></td> <td>Z other (specify)</td> </tr> </table> | | | Preservation Codes | A HCL | M Hexane | | B NaOH | N None | | C Zn Acetate | O AsstaO2 | | D Nitric Acid | P Na2O4S | | E NaHSC4 | Q Na2SO3 | | F MeOH | R Na2S2O3 | | G Amchlor | S H2SO4 | | H Ascorbic Acid | T TSP Dodecahydrate | | I ce | U Acetone | | J Di Water | V MCAA | | K EDTA | W pH 4-5 | | L EDA | Y Trizma | | | Z other (specify) | | | | | | | | | | | | | | | | | | | | | |
| Preservation Codes | A HCL | M Hexane | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | B NaOH | N None | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | C Zn Acetate | O AsstaO2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | D Nitric Acid | P Na2O4S | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | E NaHSC4 | Q Na2SO3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | F MeOH | R Na2S2O3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | G Amchlor | S H2SO4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | H Ascorbic Acid | T TSP Dodecahydrate | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | J Di Water | V MCAA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | K EDTA | W pH 4-5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Phone 262 781-0475(Tel) | | | | | | <table border="1"> <tr> <td>Job #</td> <td><i>500-217778</i></td> </tr> </table> | | | Job # | <i>500-217778</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Job # | <i>500-217778</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Email mitcheld@kprginc.com | | | | | | | | | <table border="1"> <tr> <td>Project Name</td> <td>Project #</td> </tr> <tr> <td>Powerton CCR Event Desc Quarterly Powerton CCR Sampl ng</td> <td>50011612</td> </tr> <tr> <td>Site</td> <td>SSOW#</td> </tr> <tr> <td>Illinois</td> <td></td> </tr> <tr> <td></td> <td></td> </tr> </table> | | | Project Name | Project # | Powerton CCR Event Desc Quarterly Powerton CCR Sampl ng | 50011612 | Site | SSOW# | Illinois | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Custody Seals Intac: <input type="checkbox"/> Yes <input type="checkbox"/> No | Custody Sea. No | Cooler Temperature(s) °C and Other Remarks <i>1.4 -> 0.9, 2.1 -> 0.7</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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ORIGIN ID:PIAA (262) 622-1143
MITCHEL DOLAN
KPRG AND ASSOCIATES
414 PLAZA DR STE 106
WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 07JUN22
ACTWGT: 46.40 LB
CAD: 6994780/SSFE2321
DIMS: 24x17x12 IN
BILL THIRD PARTY

Part # 156297-439-89088/80811/22

TO
TEST AMERICA
2417 BOND ST
UNIVERSITY PARK IL 60484



1 of 9
TRK# 2740 5878 9062
0201
MASTER ##
UF JOTA
WED - 08 JUN 4:30P
STANDARD OVERNIGHT
AHS
60484
IL-US ORD



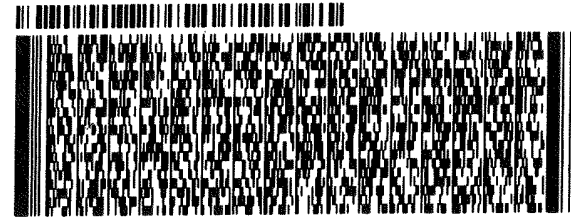
ORIGIN ID:PIAA (262) 622-1143
MITCHEL DOLAN
KPRG AND ASSOCIATES
414 PLAZA DR STE 106
WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 07JUN22
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CAD: 6994780/SSFE2321
DIMS: 24x17x12 IN
BILL THIRD PARTY

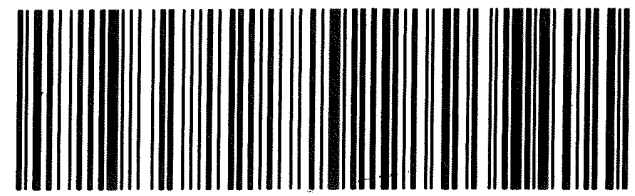
TO
TEST AMERICA
2417 BOND ST

UNIVERSITY PARK IL 60484

(800) 000-0000 REF: DEPT:
INVT: PG: 500-217778 Wayb



4 of 9
MPS# 2740 5878 9095
0263
Mstr# 2740 5878 9062 0201
UF JOTA
WED - 08 JUN 4:30P
STANDARD OVERNIGHT
AHS
60484
IL-US ORD



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ID:PIAA (262) 622-1143
 DOLAN
 500-217778 Waybi ASSOCIATES
 1A DR STE 106

SHIP DATE: 08 JUN 22
 ACTWGT: 54.50 LB
 CAD: 6994780/SSFE23
 DIMS: 24x13x14 IN

BILL THIRD PARTY

WESTMONT, IL 60559
 UNITED STATES US

TO

TESTAMERICA LABORATORIES, INC.
 2417 BOND ST

UNIVERSITY PARK IL 60484

(708) 634-5200

REF:

DEPT:



FedEx
 Express



REL#
 3785346

2 of 7

MPS# 2741 1016 5870
 0263

Mstr# 2741 1016 5869

0201

THU - 09 JUN 4:30P
 STANDARD OVERNIGHT

UF JOTA

60484

IL-US ORD



ORIGIN ID:PIAA (262) 622-1143
 MITCHELL DOLAN
 KPRG AND ASSOCIATES
 414 PLAZA DR STE 106

SHIP DATE: 08 JUN 22
 ACTWGT: 58.05 LB
 CAD: 6994780/SSFE2321
 DIMS: 24x13x14 IN

BILL THIRD PARTY

WESTMONT, IL 60559
 UNITED STATES US

TO

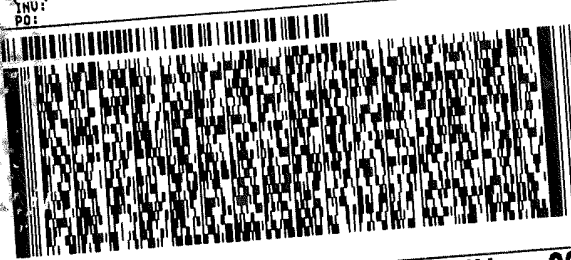
TESTAMERICA LABORATORIES, INC.
 2417 BOND ST

UNIVERSITY PARK IL 60484

(708) 634-5200

REF:

DEPT:



FedEx
 Express



REL#
 3785346

4 of 7

MPS# 2741 1016 5891
 0263

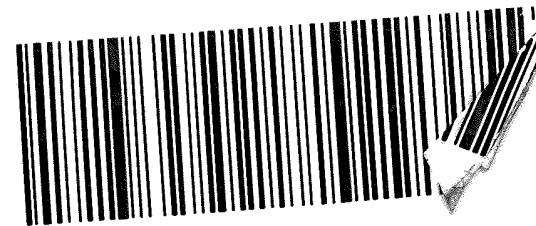
Mstr# 2741 1016 5869

0201

THU - 09 JUN 4:30P
 STANDARD OVERNIGHT

UF JOTA

IL-US



Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-217778-1

Login Number: 217778

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 | 0.9,0.8,0.9,0.7 |
| 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 | |



Lab Chronicle

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR Q2

Job ID: 500-217778-1

Client Sample ID: MW-01

Date Collected: 06/07/22 14:32

Date Received: 06/08/22 16:45

Lab Sample ID: 500-217778-1

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-------------------|------------|---------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total Recoverable | Prep | 3005A | | | 660685 | 06/10/22 08:52 | BDE | TAL CHI |
| Total Recoverable | Analysis | 6020A | | 1 | 661121 | 06/13/22 18:58 | FXG | TAL CHI |
| Total Recoverable | Prep | 3005A | | | 660685 | 06/10/22 08:52 | BDE | TAL CHI |
| Total Recoverable | Analysis | 6020A | | 1 | 661307 | 06/14/22 18:51 | FXG | TAL CHI |
| Total/NA | Prep | 7470A | | | 661477 | 06/16/22 10:05 | MJG | TAL CHI |
| Total/NA | Analysis | 7470A | | 1 | 661701 | 06/17/22 08:25 | MJG | TAL CHI |
| Total/NA | Analysis | SM 2540C | | 1 | 660435 | 06/09/22 04:14 | CLB | TAL CHI |
| Total/NA | Analysis | SM 4500 CI- E | | 2 | 660740 | 06/10/22 10:22 | LP | TAL CHI |
| Total/NA | Analysis | SM 4500 F C | | 1 | 662032 | 06/20/22 12:50 | EAT | TAL CHI |
| Total/NA | Analysis | SM 4500 SO4 E | | 2 | 660955 | 06/13/22 10:18 | LP | TAL CHI |

Client Sample ID: MW-18

Date Collected: 06/06/22 15:32

Date Received: 06/08/22 16:45

Lab Sample ID: 500-217778-2

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-------------------|------------|---------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total Recoverable | Prep | 3005A | | | 660685 | 06/10/22 08:52 | BDE | TAL CHI |
| Total Recoverable | Analysis | 6020A | | 1 | 661121 | 06/13/22 19:01 | FXG | TAL CHI |
| Total Recoverable | Prep | 3005A | | | 660685 | 06/10/22 08:52 | BDE | TAL CHI |
| Total Recoverable | Analysis | 6020A | | 1 | 661307 | 06/14/22 18:54 | FXG | TAL CHI |
| Total/NA | Prep | 7470A | | | 661477 | 06/16/22 10:05 | MJG | TAL CHI |
| Total/NA | Analysis | 7470A | | 1 | 661701 | 06/17/22 08:27 | MJG | TAL CHI |
| Total/NA | Analysis | SM 2540C | | 1 | 660435 | 06/09/22 04:17 | CLB | TAL CHI |
| Total/NA | Analysis | SM 4500 CI- E | | 5 | 660740 | 06/10/22 10:22 | LP | TAL CHI |
| Total/NA | Analysis | SM 4500 F C | | 1 | 662032 | 06/20/22 12:53 | EAT | TAL CHI |
| Total/NA | Analysis | SM 4500 SO4 E | | 10 | 660955 | 06/13/22 10:18 | LP | TAL CHI |

Client Sample ID: MW-19

Date Collected: 06/06/22 16:37

Date Received: 06/08/22 16:45

Lab Sample ID: 500-217778-3

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-------------------|------------|---------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total Recoverable | Prep | 3005A | | | 660685 | 06/10/22 08:52 | BDE | TAL CHI |
| Total Recoverable | Analysis | 6020A | | 1 | 661121 | 06/13/22 19:05 | FXG | TAL CHI |
| Total Recoverable | Prep | 3005A | | | 660685 | 06/10/22 08:52 | BDE | TAL CHI |
| Total Recoverable | Analysis | 6020A | | 10 | 661307 | 06/14/22 18:58 | FXG | TAL CHI |
| Total/NA | Prep | 7470A | | | 661477 | 06/16/22 10:05 | MJG | TAL CHI |
| Total/NA | Analysis | 7470A | | 1 | 661701 | 06/17/22 08:29 | MJG | TAL CHI |
| Total/NA | Analysis | SM 2540C | | 1 | 660435 | 06/09/22 04:19 | CLB | TAL CHI |
| Total/NA | Analysis | SM 4500 CI- E | | 2 | 660740 | 06/10/22 10:23 | LP | TAL CHI |
| Total/NA | Analysis | SM 4500 F C | | 1 | 662032 | 06/20/22 12:56 | EAT | TAL CHI |
| Total/NA | Analysis | SM 4500 SO4 E | | 5 | 660955 | 06/13/22 10:20 | LP | TAL CHI |

Lab Chronicle

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR Q2

Job ID: 500-217778-1

Client Sample ID: Duplicate
Date Collected: 06/06/22 00:00
Date Received: 06/08/22 16:45

Lab Sample ID: 500-217778-4
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-------------------|------------|---------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total Recoverable | Prep | 3005A | | | 660685 | 06/10/22 08:52 | BDE | TAL CHI |
| Total Recoverable | Analysis | 6020A | | 1 | 661121 | 06/13/22 19:08 | FXG | TAL CHI |
| Total Recoverable | Prep | 3005A | | | 660685 | 06/10/22 08:52 | BDE | TAL CHI |
| Total Recoverable | Analysis | 6020A | | 1 | 661307 | 06/14/22 19:01 | FXG | TAL CHI |
| Total/NA | Prep | 7470A | | | 661477 | 06/16/22 10:05 | MJG | TAL CHI |
| Total/NA | Analysis | 7470A | | 1 | 661701 | 06/17/22 08:31 | MJG | TAL CHI |
| Total/NA | Analysis | SM 2540C | | 1 | 660435 | 06/09/22 04:22 | CLB | TAL CHI |
| Total/NA | Analysis | SM 4500 CI- E | | 5 | 660740 | 06/10/22 10:24 | LP | TAL CHI |
| Total/NA | Analysis | SM 4500 F C | | 1 | 662032 | 06/20/22 12:59 | EAT | TAL CHI |
| Total/NA | Analysis | SM 4500 SO4 E | | 10 | 660955 | 06/13/22 10:20 | LP | TAL CHI |

Client Sample ID: MW-17
Date Collected: 06/08/22 13:45
Date Received: 06/09/22 16:20

Lab Sample ID: 500-217778-5
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-------------------|------------|---------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total Recoverable | Prep | 3005A | | | 660685 | 06/10/22 08:52 | BDE | TAL CHI |
| Total Recoverable | Analysis | 6020A | | 1 | 661121 | 06/13/22 19:11 | FXG | TAL CHI |
| Total Recoverable | Prep | 3005A | | | 660685 | 06/10/22 08:52 | BDE | TAL CHI |
| Total Recoverable | Analysis | 6020A | | 5 | 661307 | 06/14/22 19:05 | FXG | TAL CHI |
| Total/NA | Prep | 7470A | | | 661477 | 06/16/22 10:05 | MJG | TAL CHI |
| Total/NA | Analysis | 7470A | | 1 | 661701 | 06/17/22 08:33 | MJG | TAL CHI |
| Total/NA | Analysis | SM 2540C | | 1 | 660651 | 06/10/22 05:01 | CLB | TAL CHI |
| Total/NA | Analysis | SM 4500 CI- E | | 5 | 660740 | 06/10/22 10:52 | LP | TAL CHI |
| Total/NA | Analysis | SM 4500 F C | | 1 | 662032 | 06/20/22 13:02 | EAT | TAL CHI |
| Total/NA | Analysis | SM 4500 SO4 E | | 20 | 660955 | 06/13/22 10:20 | LP | TAL CHI |

Client Sample ID: MW-08
Date Collected: 06/08/22 11:48
Date Received: 06/09/22 16:20

Lab Sample ID: 500-217778-6
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-------------------|------------|---------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total Recoverable | Prep | 3005A | | | 660685 | 06/10/22 08:52 | BDE | TAL CHI |
| Total Recoverable | Analysis | 6020A | | 1 | 661121 | 06/13/22 19:15 | FXG | TAL CHI |
| Total Recoverable | Prep | 3005A | | | 660685 | 06/10/22 08:52 | BDE | TAL CHI |
| Total Recoverable | Analysis | 6020A | | 1 | 661307 | 06/14/22 19:08 | FXG | TAL CHI |
| Total/NA | Prep | 7470A | | | 661477 | 06/16/22 10:05 | MJG | TAL CHI |
| Total/NA | Analysis | 7470A | | 1 | 661701 | 06/17/22 08:39 | MJG | TAL CHI |
| Total/NA | Analysis | SM 2540C | | 1 | 660651 | 06/10/22 05:03 | CLB | TAL CHI |
| Total/NA | Analysis | SM 4500 CI- E | | 5 | 660740 | 06/10/22 10:53 | LP | TAL CHI |
| Total/NA | Analysis | SM 4500 F C | | 1 | 662032 | 06/20/22 13:05 | EAT | TAL CHI |
| Total/NA | Analysis | SM 4500 SO4 E | | 2 | 660955 | 06/13/22 10:21 | LP | TAL CHI |

Lab Chronicle

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR Q2

Job ID: 500-217778-1

Client Sample ID: MW-09

Date Collected: 06/08/22 08:10

Date Received: 06/09/22 16:20

Lab Sample ID: 500-217778-7

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-------------------|------------|---------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total Recoverable | Prep | 3005A | | | 660685 | 06/10/22 08:52 | BDE | TAL CHI |
| Total Recoverable | Analysis | 6020A | | 1 | 661121 | 06/13/22 19:18 | FXG | TAL CHI |
| Total Recoverable | Prep | 3005A | | | 660685 | 06/10/22 08:52 | BDE | TAL CHI |
| Total Recoverable | Analysis | 6020A | | 10 | 661307 | 06/14/22 19:12 | FXG | TAL CHI |
| Total/NA | Prep | 7470A | | | 661477 | 06/16/22 10:05 | MJG | TAL CHI |
| Total/NA | Analysis | 7470A | | 1 | 661701 | 06/17/22 08:48 | MJG | TAL CHI |
| Total/NA | Analysis | SM 2540C | | 1 | 660651 | 06/10/22 05:06 | CLB | TAL CHI |
| Total/NA | Analysis | SM 4500 CI- E | | 1 | 660740 | 06/10/22 10:52 | LP | TAL CHI |
| Total/NA | Analysis | SM 4500 F C | | 1 | 662032 | 06/20/22 13:19 | EAT | TAL CHI |
| Total/NA | Analysis | SM 4500 SO4 E | | 5 | 660955 | 06/13/22 10:21 | LP | TAL CHI |

Client Sample ID: MW-11

Date Collected: 06/08/22 09:10

Date Received: 06/09/22 16:20

Lab Sample ID: 500-217778-8

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-------------------|------------|---------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total Recoverable | Prep | 3005A | | | 660685 | 06/10/22 08:52 | BDE | TAL CHI |
| Total Recoverable | Analysis | 6020A | | 1 | 661121 | 06/13/22 19:22 | FXG | TAL CHI |
| Total Recoverable | Prep | 3005A | | | 660685 | 06/10/22 08:52 | BDE | TAL CHI |
| Total Recoverable | Analysis | 6020A | | 5 | 661307 | 06/14/22 19:22 | FXG | TAL CHI |
| Total/NA | Prep | 7470A | | | 661477 | 06/16/22 10:05 | MJG | TAL CHI |
| Total/NA | Analysis | 7470A | | 1 | 661701 | 06/17/22 08:50 | MJG | TAL CHI |
| Total/NA | Analysis | SM 2540C | | 1 | 660651 | 06/10/22 05:08 | CLB | TAL CHI |
| Total/NA | Analysis | SM 4500 CI- E | | 5 | 660740 | 06/10/22 10:53 | LP | TAL CHI |
| Total/NA | Analysis | SM 4500 F C | | 1 | 662032 | 06/20/22 13:22 | EAT | TAL CHI |
| Total/NA | Analysis | SM 4500 SO4 E | | 10 | 660955 | 06/13/22 10:35 | LP | TAL CHI |

Client Sample ID: MW-12

Date Collected: 06/08/22 10:42

Date Received: 06/09/22 16:20

Lab Sample ID: 500-217778-9

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-------------------|------------|---------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total Recoverable | Prep | 3005A | | | 660685 | 06/10/22 08:52 | BDE | TAL CHI |
| Total Recoverable | Analysis | 6020A | | 1 | 661121 | 06/13/22 19:25 | FXG | TAL CHI |
| Total Recoverable | Prep | 3005A | | | 660685 | 06/10/22 08:52 | BDE | TAL CHI |
| Total Recoverable | Analysis | 6020A | | 1 | 661307 | 06/14/22 19:25 | FXG | TAL CHI |
| Total/NA | Prep | 7470A | | | 661477 | 06/16/22 10:05 | MJG | TAL CHI |
| Total/NA | Analysis | 7470A | | 1 | 661701 | 06/17/22 08:52 | MJG | TAL CHI |
| Total/NA | Analysis | SM 2540C | | 1 | 660651 | 06/10/22 05:11 | CLB | TAL CHI |
| Total/NA | Analysis | SM 4500 CI- E | | 5 | 660740 | 06/10/22 10:53 | LP | TAL CHI |
| Total/NA | Analysis | SM 4500 F C | | 1 | 662032 | 06/20/22 13:25 | EAT | TAL CHI |
| Total/NA | Analysis | SM 4500 SO4 E | | 10 | 660955 | 06/13/22 10:36 | LP | TAL CHI |

Lab Chronicle

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR Q2

Job ID: 500-217778-1

Client Sample ID: MW-15

Lab Sample ID: 500-217778-10

Date Collected: 06/08/22 14:50

Matrix: Water

Date Received: 06/09/22 16:20

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-------------------|------------|---------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total Recoverable | Prep | 3005A | | | 660685 | 06/10/22 08:52 | BDE | TAL CHI |
| Total Recoverable | Analysis | 6020A | | 1 | 661121 | 06/13/22 19:29 | FXG | TAL CHI |
| Total Recoverable | Prep | 3005A | | | 660685 | 06/10/22 08:52 | BDE | TAL CHI |
| Total Recoverable | Analysis | 6020A | | 5 | 661307 | 06/14/22 19:29 | FXG | TAL CHI |
| Total/NA | Prep | 7470A | | | 661477 | 06/16/22 10:05 | MJG | TAL CHI |
| Total/NA | Analysis | 7470A | | 1 | 661701 | 06/17/22 08:54 | MJG | TAL CHI |
| Total/NA | Analysis | SM 2540C | | 1 | 660651 | 06/10/22 05:14 | CLB | TAL CHI |
| Total/NA | Analysis | SM 4500 Cl- E | | 5 | 660740 | 06/10/22 10:54 | LP | TAL CHI |
| Total/NA | Analysis | SM 4500 F C | | 1 | 662032 | 06/20/22 13:28 | EAT | TAL CHI |
| Total/NA | Analysis | SM 4500 SO4 E | | 20 | 660955 | 06/13/22 10:51 | LP | TAL CHI |

Laboratory References:

TAL 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 Q2

Job ID: 500-217778-1

Laboratory: Eurofins Chicago

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

| Authority | Program | Identification Number | Expiration Date |
|-----------|---------|-----------------------|-----------------|
| Illinois | NELAP | IL00035 | 04-30-23 |

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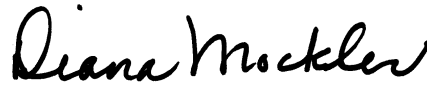
ANALYTICAL REPORT

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-217778-2
Client Project/Site: Powerton CCR Q2 (RAD)

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

Attn: Richard Gnat



Authorized for release by:
7/14/2022 11:40:24 AM

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

LINKS

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results through



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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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- 2
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Case Narrative

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR Q2 (RAD)

Job ID: 500-217778-2

Job ID: 500-217778-2

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-217778-2

Comments

No additional comments.

Receipt

The samples were received on 6/8/2022 4:45 PM. 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, 0.8° C, 0.9° C and 0.9° C.

RAD

Methods 903.0, 9315: Radium-226 batch 570472

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 (500-217778-1), MW-18 (500-217778-2), MW-19 (500-217778-3), Duplicate (500-217778-4), MW-17 (500-217778-5), MW-08 (500-217778-6), MW-09 (500-217778-7), MW-11 (500-217778-8), MW-12 (500-217778-9), MW-15 (500-217778-10), (LCS 160-570472/2-A), (MB 160-570472/1-A) and (500-217778-G-1-D DU)

Methods 904.0, 9320: Radium-228 batch 570478

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 (500-217778-1), MW-18 (500-217778-2), MW-19 (500-217778-3), Duplicate (500-217778-4), MW-17 (500-217778-5), MW-08 (500-217778-6), MW-09 (500-217778-7), MW-11 (500-217778-8), MW-12 (500-217778-9), MW-15 (500-217778-10), (LCS 160-570478/2-A), (MB 160-570478/1-A) and (500-217778-G-1-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 Q2 (RAD)

Job ID: 500-217778-2

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

Protocol References:

EPA = US Environmental Protection Agency

None = None

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

Laboratory References:

TAL 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 Q2 (RAD)

Job ID: 500-217778-2

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 500-217778-1 | MW-01 | Water | 06/07/22 14:32 | 06/08/22 16:45 |
| 500-217778-2 | MW-18 | Water | 06/06/22 15:32 | 06/08/22 16:45 |
| 500-217778-3 | MW-19 | Water | 06/06/22 16:37 | 06/08/22 16:45 |
| 500-217778-4 | Duplicate | Water | 06/06/22 00:00 | 06/08/22 16:45 |
| 500-217778-5 | MW-17 | Water | 06/08/22 13:45 | 06/09/22 16:20 |
| 500-217778-6 | MW-08 | Water | 06/08/22 11:48 | 06/09/22 16:20 |
| 500-217778-7 | MW-09 | Water | 06/08/22 08:10 | 06/09/22 16:20 |
| 500-217778-8 | MW-11 | Water | 06/08/22 09:10 | 06/09/22 16:20 |
| 500-217778-9 | MW-12 | Water | 06/08/22 10:42 | 06/09/22 16:20 |
| 500-217778-10 | MW-15 | Water | 06/08/22 14:50 | 06/09/22 16:20 |

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Client Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Powerton CCR Q2 (RAD)

Job ID: 500-217778-2

Client Sample ID: MW-01
Date Collected: 06/07/22 14:32
Date Received: 06/08/22 16:45

Lab Sample ID: 500-217778-1
Matrix: Water

Method: 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|--------|-------|----------------|----------------|---------|
| Radium-226 | 0.0332 | U | 0.0456 | 0.0457 | 1.00 | 0.0770 | pCi/L | 06/17/22 13:50 | 07/11/22 13:42 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 110 | | 40 - 110 | | | | | 06/17/22 13:50 | 07/11/22 13:42 | 1 |

Method: 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.353 | U | 0.252 | 0.254 | 1.00 | 0.377 | pCi/L | 06/17/22 14:18 | 06/24/22 13:04 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 110 | | 40 - 110 | | | | | 06/17/22 14:18 | 06/24/22 13:04 | 1 |
| Y Carrier | 89.3 | | 40 - 110 | | | | | 06/17/22 14:18 | 06/24/22 13:04 | 1 |

Method: 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 | | 0.256 | 0.258 | 5.00 | 0.377 | pCi/L | | 07/14/22 11:02 | 1 |

Client Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Powerton CCR Q2 (RAD)

Job ID: 500-217778-2

Client Sample ID: MW-18

Lab Sample ID: 500-217778-2

Date Collected: 06/06/22 15:32

Matrix: Water

Date Received: 06/08/22 16:45

Method: 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.133 | U | 0.100 | 0.101 | 1.00 | 0.148 | pCi/L | 06/17/22 13:50 | 07/11/22 13:42 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 73.5 | | 40 - 110 | | | | | 06/17/22 13:50 | 07/11/22 13:42 | 1 |

Method: 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.699 | | 0.459 | 0.463 | 1.00 | 0.686 | pCi/L | 06/17/22 14:18 | 06/24/22 13:04 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 73.5 | | 40 - 110 | | | | | 06/17/22 14:18 | 06/24/22 13:04 | 1 |
| Y Carrier | 86.4 | | 40 - 110 | | | | | 06/17/22 14:18 | 06/24/22 13:04 | 1 |

Method: 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 | 0.832 | | 0.470 | 0.474 | 5.00 | 0.686 | pCi/L | | 07/14/22 11:02 | 1 |

Client Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Powerton CCR Q2 (RAD)

Job ID: 500-217778-2

Client Sample ID: MW-19

Lab Sample ID: 500-217778-3

Date Collected: 06/06/22 16:37

Matrix: Water

Date Received: 06/08/22 16:45

Method: 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|--------|-------|----------------|----------------|---------|
| Radium-226 | 0.0700 | U | 0.0590 | 0.0593 | 1.00 | 0.0874 | pCi/L | 06/17/22 13:50 | 07/11/22 13:42 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 97.5 | | 40 - 110 | | | | | 06/17/22 13:50 | 07/11/22 13:42 | 1 |

Method: 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.263 | U | 0.262 | 0.263 | 1.00 | 0.419 | pCi/L | 06/17/22 14:18 | 06/24/22 13:04 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 97.5 | | 40 - 110 | | | | | 06/17/22 14:18 | 06/24/22 13:04 | 1 |
| Y Carrier | 88.6 | | 40 - 110 | | | | | 06/17/22 14:18 | 06/24/22 13:04 | 1 |

Method: 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 | 0.333 | U | 0.269 | 0.270 | 5.00 | 0.419 | pCi/L | | 07/14/22 11:02 | 1 |

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR Q2 (RAD)

Job ID: 500-217778-2

Client Sample ID: Duplicate

Lab Sample ID: 500-217778-4

Date Collected: 06/06/22 00:00

Matrix: Water

Date Received: 06/08/22 16:45

Method: 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.148 | | 0.0910 | 0.0920 | 1.00 | 0.125 | pCi/L | 06/17/22 13:50 | 07/11/22 13:42 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 88.0 | | 40 - 110 | | | | | 06/17/22 13:50 | 07/11/22 13:42 | 1 |

Method: 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.136 | U | 0.285 | 0.285 | 1.00 | 0.499 | pCi/L | 06/17/22 14:18 | 06/24/22 13:04 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 88.0 | | 40 - 110 | | | | | 06/17/22 14:18 | 06/24/22 13:04 | 1 |
| Y Carrier | 87.9 | | 40 - 110 | | | | | 06/17/22 14:18 | 06/24/22 13:04 | 1 |

Method: 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 | 0.284 | U | 0.299 | 0.299 | 5.00 | 0.499 | pCi/L | | 07/14/22 11:02 | 1 |

Client Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Powerton CCR Q2 (RAD)

Job ID: 500-217778-2

Client Sample ID: MW-17

Lab Sample ID: 500-217778-5

Date Collected: 06/08/22 13:45

Matrix: Water

Date Received: 06/09/22 16:20

Method: 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.0141 | U | 0.0669 | 0.0669 | 1.00 | 0.129 | pCi/L | 06/17/22 13:50 | 07/11/22 13:42 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 75.5 | | 40 - 110 | | | | | 06/17/22 13:50 | 07/11/22 13:42 | 1 |

Method: 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.491 | U | 0.389 | 0.392 | 1.00 | 0.601 | pCi/L | 06/17/22 14:18 | 06/24/22 13:05 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 75.5 | | 40 - 110 | | | | | 06/17/22 14:18 | 06/24/22 13:05 | 1 |
| Y Carrier | 89.7 | | 40 - 110 | | | | | 06/17/22 14:18 | 06/24/22 13:05 | 1 |

Method: 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 | 0.505 | U | 0.395 | 0.398 | 5.00 | 0.601 | pCi/L | | 07/14/22 11:02 | 1 |

Client Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Powerton CCR Q2 (RAD)

Job ID: 500-217778-2

Client Sample ID: MW-08

Lab Sample ID: 500-217778-6

Date Collected: 06/08/22 11:48

Matrix: Water

Date Received: 06/09/22 16:20

Method: 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 | | 0.0734 | 0.0745 | 1.00 | 0.0886 | pCi/L | 06/17/22 13:50 | 07/11/22 13:43 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 93.5 | | 40 - 110 | | | | | 06/17/22 13:50 | 07/11/22 13:43 | 1 |

Method: 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.223 | U | 0.310 | 0.310 | 1.00 | 0.520 | pCi/L | 06/17/22 14:18 | 06/24/22 13:05 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 93.5 | | 40 - 110 | | | | | 06/17/22 14:18 | 06/24/22 13:05 | 1 |
| Y Carrier | 87.1 | | 40 - 110 | | | | | 06/17/22 14:18 | 06/24/22 13:05 | 1 |

Method: 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 | 0.363 | U | 0.319 | 0.319 | 5.00 | 0.520 | pCi/L | | 07/14/22 11:02 | 1 |

Client Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Powerton CCR Q2 (RAD)

Job ID: 500-217778-2

Client Sample ID: MW-09
Date Collected: 06/08/22 08:10
Date Received: 06/09/22 16:20

Lab Sample ID: 500-217778-7
Matrix: Water

Method: 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.0582 | U | 0.0666 | 0.0668 | 1.00 | 0.109 | pCi/L | 06/17/22 13:50 | 07/11/22 13:43 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 96.3 | | 40 - 110 | | | | | 06/17/22 13:50 | 07/11/22 13:43 | 1 |

Method: 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.143 | U | 0.315 | 0.315 | 1.00 | 0.548 | pCi/L | 06/17/22 14:18 | 06/24/22 13:06 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 96.3 | | 40 - 110 | | | | | 06/17/22 14:18 | 06/24/22 13:06 | 1 |
| Y Carrier | 87.1 | | 40 - 110 | | | | | 06/17/22 14:18 | 06/24/22 13:06 | 1 |

Method: 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 | 0.202 | U | 0.322 | 0.322 | 5.00 | 0.548 | pCi/L | | 07/14/22 11:02 | 1 |

Client Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Powerton CCR Q2 (RAD)

Job ID: 500-217778-2

Client Sample ID: MW-11

Lab Sample ID: 500-217778-8

Date Collected: 06/08/22 09:10

Matrix: Water

Date Received: 06/09/22 16:20

Method: 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|--------|-------|----------------|----------------|---------|
| Radium-226 | 0.356 | | 0.103 | 0.108 | 1.00 | 0.0910 | pCi/L | 06/17/22 13:50 | 07/11/22 17:53 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 102 | | 40 - 110 | | | | | 06/17/22 13:50 | 07/11/22 17:53 | 1 |

Method: 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.430 | U | 0.313 | 0.315 | 1.00 | 0.477 | pCi/L | 06/17/22 14:18 | 06/24/22 13:06 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 102 | | 40 - 110 | | | | | 06/17/22 14:18 | 06/24/22 13:06 | 1 |
| Y Carrier | 89.0 | | 40 - 110 | | | | | 06/17/22 14:18 | 06/24/22 13:06 | 1 |

Method: 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 | 0.786 | | 0.330 | 0.333 | 5.00 | 0.477 | pCi/L | | 07/14/22 11:02 | 1 |

Client Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Powerton CCR Q2 (RAD)

Job ID: 500-217778-2

Client Sample ID: MW-12
Date Collected: 06/08/22 10:42
Date Received: 06/09/22 16:20

Lab Sample ID: 500-217778-9
Matrix: Water

Method: 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|-------------------|--------------|-----------|-----------------------------|-----------------------------|------|--------|-------|----------------|----------------|---------|
| Radium-226 | 0.136 | | 0.0727 | 0.0737 | 1.00 | 0.0917 | pCi/L | 06/17/22 13:50 | 07/11/22 17:54 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 99.8 | | 40 - 110 | | | | | 06/17/22 13:50 | 07/11/22 17:54 | 1 |

Method: 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.359 | U | 0.295 | 0.297 | 1.00 | 0.459 | pCi/L | 06/17/22 14:18 | 06/24/22 13:06 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 99.8 | | 40 - 110 | | | | | 06/17/22 14:18 | 06/24/22 13:06 | 1 |
| Y Carrier | 88.2 | | 40 - 110 | | | | | 06/17/22 14:18 | 06/24/22 13:06 | 1 |

Method: 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 | 0.495 | | 0.304 | 0.306 | 5.00 | 0.459 | pCi/L | | 07/14/22 11:02 | 1 |

Client Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Powerton CCR Q2 (RAD)

Job ID: 500-217778-2

Client Sample ID: MW-15

Lab Sample ID: 500-217778-10

Date Collected: 06/08/22 14:50

Matrix: Water

Date Received: 06/09/22 16:20

Method: 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|--------|-------|----------------|----------------|---------|
| Radium-226 | 0.0868 | | 0.0585 | 0.0590 | 1.00 | 0.0782 | pCi/L | 06/17/22 13:50 | 07/11/22 17:54 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 106 | | 40 - 110 | | | | | 06/17/22 13:50 | 07/11/22 17:54 | 1 |

Method: 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.398 | U | 0.308 | 0.310 | 1.00 | 0.477 | pCi/L | 06/17/22 14:18 | 06/24/22 13:06 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 106 | | 40 - 110 | | | | | 06/17/22 14:18 | 06/24/22 13:06 | 1 |
| Y Carrier | 87.1 | | 40 - 110 | | | | | 06/17/22 14:18 | 06/24/22 13:06 | 1 |

Method: 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 | 0.485 | | 0.314 | 0.316 | 5.00 | 0.477 | pCi/L | | 07/14/22 11:02 | 1 |

Definitions/Glossary

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR Q2 (RAD)

Job ID: 500-217778-2

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 Q2 (RAD)

Job ID: 500-217778-2

Rad

Prep Batch: 570472

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|------------|------------|
| 500-217778-1 | MW-01 | Total/NA | Water | PrecSep-21 | |
| 500-217778-2 | MW-18 | Total/NA | Water | PrecSep-21 | |
| 500-217778-3 | MW-19 | Total/NA | Water | PrecSep-21 | |
| 500-217778-4 | Duplicate | Total/NA | Water | PrecSep-21 | |
| 500-217778-5 | MW-17 | Total/NA | Water | PrecSep-21 | |
| 500-217778-6 | MW-08 | Total/NA | Water | PrecSep-21 | |
| 500-217778-7 | MW-09 | Total/NA | Water | PrecSep-21 | |
| 500-217778-8 | MW-11 | Total/NA | Water | PrecSep-21 | |
| 500-217778-9 | MW-12 | Total/NA | Water | PrecSep-21 | |
| 500-217778-10 | MW-15 | Total/NA | Water | PrecSep-21 | |
| MB 160-570472/1-A | Method Blank | Total/NA | Water | PrecSep-21 | |
| LCS 160-570472/2-A | Lab Control Sample | Total/NA | Water | PrecSep-21 | |
| 500-217778-1 DU | MW-01 | Total/NA | Water | PrecSep-21 | |

Prep Batch: 570478

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|-----------|------------|
| 500-217778-1 | MW-01 | Total/NA | Water | PrecSep_0 | |
| 500-217778-2 | MW-18 | Total/NA | Water | PrecSep_0 | |
| 500-217778-3 | MW-19 | Total/NA | Water | PrecSep_0 | |
| 500-217778-4 | Duplicate | Total/NA | Water | PrecSep_0 | |
| 500-217778-5 | MW-17 | Total/NA | Water | PrecSep_0 | |
| 500-217778-6 | MW-08 | Total/NA | Water | PrecSep_0 | |
| 500-217778-7 | MW-09 | Total/NA | Water | PrecSep_0 | |
| 500-217778-8 | MW-11 | Total/NA | Water | PrecSep_0 | |
| 500-217778-9 | MW-12 | Total/NA | Water | PrecSep_0 | |
| 500-217778-10 | MW-15 | Total/NA | Water | PrecSep_0 | |
| MB 160-570478/1-A | Method Blank | Total/NA | Water | PrecSep_0 | |
| LCS 160-570478/2-A | Lab Control Sample | Total/NA | Water | PrecSep_0 | |
| 500-217778-1 DU | MW-01 | Total/NA | Water | PrecSep_0 | |

QC Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR Q2 (RAD)

Job ID: 500-217778-2

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-570472/1-A
Matrix: Water
Analysis Batch: 573477

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 570472

| Analyte | MB | MB | Count | Total | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|-----------|-----------|-----------------|-----------------|------|----------------|----------------|----------------|----------------|---------|
| | Result | Qualifier | Uncert. (2σ+/-) | Uncert. (2σ+/-) | | | | | | |
| Radium-226 | -0.002972 | U | 0.0354 | 0.0354 | 1.00 | 0.0776 | pCi/L | 06/17/22 13:50 | 07/11/22 13:36 | 1 |
| Carrier | MB | MB | Limits | | | Prepared | Analyzed | Dil Fac | | |
| | %Yield | Qualifier | | | | | | | | |
| Ba Carrier | 107 | | 40 - 110 | | | 06/17/22 13:50 | 07/11/22 13:36 | 1 | | |

Lab Sample ID: LCS 160-570472/2-A
Matrix: Water
Analysis Batch: 573477

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 570472

| Analyte | Spike Added | LCS Result | LCS Qual | Total | RL | MDC | Unit | %Rec | %Rec Limits |
|------------|-------------|------------|----------|-----------------|------|----------|----------|---------|-------------|
| | | | | Uncert. (2σ+/-) | | | | | |
| Radium-226 | 11.3 | 9.895 | | 1.02 | 1.00 | 0.0995 | pCi/L | 87 | 75 - 125 |
| Carrier | LCS | LCS | Limits | | | Prepared | Analyzed | Dil Fac | |
| | %Yield | Qualifier | | | | | | | |
| Ba Carrier | 103 | | 40 - 110 | | | | | | |

Lab Sample ID: 500-217778-1 DU
Matrix: Water
Analysis Batch: 573478

Client Sample ID: MW-01
Prep Type: Total/NA
Prep Batch: 570472

| Analyte | Sample | Sample | DU | DU | Total | RL | MDC | Unit | RER | RER Limit |
|------------|--------|-----------|----------|------|-----------------|----------|----------|---------|------|-----------|
| | Result | Qual | Result | Qual | Uncert. (2σ+/-) | | | | | |
| Radium-226 | 0.0332 | U | 0.04418 | U | 0.0502 | 1.00 | 0.0808 | pCi/L | 0.11 | 1 |
| Carrier | DU | DU | Limits | | | Prepared | Analyzed | Dil Fac | | |
| | %Yield | Qualifier | | | | | | | | |
| Ba Carrier | 110 | | 40 - 110 | | | | | | | |

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-570478/1-A
Matrix: Water
Analysis Batch: 571617

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 570478

| Analyte | MB | MB | Count | Total | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|---------|-----------|-----------------|-----------------|------|----------------|----------------|----------------|----------------|---------|
| | Result | Qualifier | Uncert. (2σ+/-) | Uncert. (2σ+/-) | | | | | | |
| Radium-228 | 0.08412 | U | 0.256 | 0.256 | 1.00 | 0.456 | pCi/L | 06/17/22 14:18 | 06/24/22 13:00 | 1 |
| Carrier | MB | MB | Limits | | | Prepared | Analyzed | Dil Fac | | |
| | %Yield | Qualifier | | | | | | | | |
| Ba Carrier | 107 | | 40 - 110 | | | 06/17/22 14:18 | 06/24/22 13:00 | 1 | | |
| Y Carrier | 84.5 | | 40 - 110 | | | 06/17/22 14:18 | 06/24/22 13:00 | 1 | | |

QC Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Powerton CCR Q2 (RAD)

Job ID: 500-217778-2

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

Lab Sample ID: LCS 160-570478/2-A
Matrix: Water
Analysis Batch: 571617

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 570478

| Analyte | Spike Added | LCS Result | LCS Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec Limits |
|----------------|---------------|------------------|---------------|-----------------------|------|-------|-------|------|-------------|
| Radium-228 | 8.51 | 8.482 | | 1.14 | 1.00 | 0.435 | pCi/L | 100 | 75 - 125 |
| LCS LCS | | | | | | | | | |
| Carrier | %Yield | Qualifier | Limits | | | | | | |
| Ba Carrier | 103 | | 40 - 110 | | | | | | |
| Y Carrier | 85.2 | | 40 - 110 | | | | | | |

Lab Sample ID: 500-217778-1 DU
Matrix: Water
Analysis Batch: 571472

Client Sample ID: MW-01
Prep Type: Total/NA
Prep Batch: 570478

| Analyte | Sample Result | Sample Qual | DU Result | DU Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | RER | RER Limit |
|----------------|---------------|------------------|---------------|---------|-----------------------|------|-------|-------|------|-----------|
| Radium-228 | 0.353 | U | 0.1887 | U | 0.280 | 1.00 | 0.472 | pCi/L | 0.31 | 1 |
| DU DU | | | | | | | | | | |
| Carrier | %Yield | Qualifier | Limits | | | | | | | |
| Ba Carrier | 110 | | 40 - 110 | | | | | | | |
| Y Carrier | 85.2 | | 40 - 110 | | | | | | | |


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Chain of Custody Record

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|--|---------------------------|--------|------|--|---|--------------------------------------|--|---|------------------------------|---------------------------------|----------------------|--|------------------------|----------------------------|---------------------------|
| Client Information | | | | Sampler <i>Mitchel Dolan</i> | Lab PM Mockler Diana J | Carrier Tracking No(s) | COC No: 500-101315-43259 1 | | | | | | | | |
| Client Contact: Mitchel Dolan | | | | 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 | | | Job #: <i>500-217778</i> | | | | | | | |
| Address: 14665 West Lisbon Road Suite 1A | | | | Due Date Requested |  500-217778 COC | | | Preservation Codes A HCL M Hexane B NaOH N None C Zn Acetate O AsNaO2 D Nitric Acid P Na2O4S E NaHSO4 Q Na2SO5 F MeOH R Na2S2O3 G Amchlor S H2SO4 H Amchlor T TSP Dodecahydrate I Ice U Acetone J DI Water V MCAA K EDTA W pH 4-5 L EDA Y T.zma Z other (specify) | | | | | | | |
| City: Brookfield | | | | TAT Requested (days) | | | | | | | | | | | |
| State Zip: WI 53005 | | | | Compliance Project. <input type="checkbox"/> Yes <input type="checkbox"/> No | | | | | | | | | | | |
| Phone: 262-781-0475(Tel) | | | | PC #: 4502081030 | | | | | | | | | | | |
| Email: mitcheld@kprginc.com | | | | WO #: | | | | | | | | | | | |
| Project Name: Powerton CCR Event Desc Quarterly Powerton CCR Sampling | | | | Project #: 50011612 | | | | | | | | | | | |
| S e: Illinois | | | | SSOV#: | | | | | | | | | | | |
| 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) | Parform: MS/MS/D (Yes or No) | 903.0, 904.0 | 6020A, 7470A | 2540C, 4500_F_C, SM4500_CL_E, SM4500_SO4_E | SM4500_SO4_E - Sulfate | Total Number of Containers | Special Instructions/Note |
| | | | | Preservation Code: | | D | D | N | N | | | | | | |
| 1 | MW-01 | 6/7/22 | 1432 | G | Water | N | N | X | X | X | X | | | | |
| 2 | MW-18 MW-18 | 6/6/22 | 1532 | G | Water | N | N | X | X | X | X | | | | |
| 3 | MW-19 MW-19 | 6/6/22 | 1637 | G | Water | N | N | X | X | X | X | | | | |
| 4 | MW-1 Duplicate | 6/6/22 | - | G | Water | N | N | X | X | X | X | | | | |
| | MW-2 | | | | Water | | | | | | | | | | |
| | MW-5 | | | | Water | | | | | | | | | | |
| | MW-7 | | | | Water | | | | | | | | | | |
| | MW-8 | | | | Water | | | | | | | | | | |
| | MW-9 | | | | Water | | | | | | | | | | |
| | | | | | Water | | | | | | | | | | |
| Possible Hazard Identification | | | | Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) | | | | | | | | | | | |
| <input 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 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>MJD</i> | | | | Date/Time <i>6/17/22 / 1800</i> | Company <i>KPRG</i> | Received by <i>FEDEX</i> | | | | Date/Time <i>6/17/22 / 1800</i> | Company <i>FEDEX</i> | | | | |
| Relinquished by | | | | Date/Time | Company | Received by <i>Stephanie Hammond</i> | | | | Date/Time <i>6/18/22 1645</i> | Company <i>EEIA</i> | | | | |
| 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 | | | | <i>23+09, 22+08</i> | | | |

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Chain of Custody Record

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|---|--|---|--|------------------------------|-----------------------------------|--|----------------------------|--|--------------|--|-------------|--|---|--|----------------------|--|----------------------|---------------------------|--|
| Client Information | | Sampler <i>Mitchel Dolan</i> | Lab PM Mockler Diana J | Carrier Tracking No(s) | COC No. 500-101315-43259 1 | | | | | | | | | | | | | | |
| Client Contact Mitchel Dolan | | 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. | | PWS ID | Analysis Requested | | Job # <i>500-217778</i> | | | | | | | | | | | | | | |
| Address 14665 West Lisbon Road Suite 1A | | Due Date Requested | <table border="1"> <tr><td>Field Filtered Sample (Yes or No)</td><td></td></tr> <tr><td>Perform MS/MSD (Yes or No)</td><td></td></tr> <tr><td>903.0, 904.0</td><td></td></tr> <tr><td>6020A 7470A</td><td></td></tr> <tr><td>2540C 4500_F_C, SM4500_CL_E, SM4500_SO4_E</td><td></td></tr> <tr><td>SM4500_SO4_E Sulfate</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_E, SM4500_SO4_E | | SM4500_SO4_E Sulfate | | TAT Requested (days) | Preservation Codes | |
| 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 | | | | | | | | | | | | | | | | | | | |
| SM4500_SO4_E Sulfate | | | | | | | | | | | | | | | | | | | |
| City Brookfield | | Compliance Project <input type="checkbox"/> Yes <input type="checkbox"/> No | A HCL M Hexane B NaOH N None C Zn Acetate O AsstaO2 D Nitric Acid P Na2O4S E NaHSC4 R Na2S2O3 F MeOH S H2SO4 G Amchlor T TSP Dodecahydrate H Ascorbic Acid U Acetone I ce V MCAA J Di Water W pH 4-5 K EDTA Y Trizma L EDA Z other (specify) | | | | | | | | | | | | | | | | |
| State Zip WI 53005 | | PO # 4502081030 | Other: | | | | | | | | | | | | | | | | |
| Phone 262 781-0475(Tel) | | WR # | | | | | | | | | | | | | | | | | |
| Email mitcheld@kprginc.com | | Project # 50011612 | | | | | | | | | | | | | | | | | |
| Project Name Powerton CCR Event Desc Quarterly Powerton CCR Sampl ng | | SSOW# | | | | | | | | | | | | | | | | | |
| Site Illinois | | | | | | | | | | | | | | | | | | | |

| Sample Identification | Sample Date | Sample Time | Sample Type (C=comp, G=grab) | Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air) | Preservation Code | 903.0, 904.0 | 6020A 7470A | 2540C 4500_F_C, SM4500_CL_E, SM4500_SO4_E | SM4500_SO4_E Sulfate | Total Number of Containers | Special Instructions/Note |
|----------------------------------|---------------|-----------------|------------------------------|--|-------------------|--------------|-------------|---|----------------------|----------------------------|---------------------------|
| <i>56789</i> MW-17 | <i>6/8/22</i> | <i>1345</i> | <i>G</i> | Water | <i>N</i> | <i>U</i> | <i>Y</i> | <i>X</i> | <i>X</i> | | |
| MW-08 | <i>6/8/22</i> | 0810 | <i>G</i> | Water | <i>N</i> | <i>N</i> | <i>Y</i> | <i>X</i> | <i>X</i> | | <i>Sample Time = 1148</i> |
| MW-09 | <i>6/8/22</i> | <i>0810</i> | <i>G</i> | Water | <i>N</i> | <i>U</i> | <i>Y</i> | <i>X</i> | <i>X</i> | | |
| MW-11 | <i>6/8/22</i> | <i>0916</i> | <i>G</i> | Water | <i>N</i> | <i>U</i> | <i>Y</i> | <i>X</i> | <i>X</i> | | |
| MW 12 | <i>6/8/22</i> | <i>1042</i> | <i>G</i> | Water | <i>N</i> | <i>U</i> | <i>Y</i> | <i>X</i> | <i>X</i> | | |
| MW 15 | <i>6/8/22</i> | <i>1450</i> | <i>G</i> | Water | <i>N</i> | <i>N</i> | <i>Y</i> | <i>X</i> | <i>X</i> | | |
| MW-16 | | | | Water | | | | | | | |
| 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 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 type="checkbox"/> Disposal By Lab |
| Del verable Requested I II III IV Other (specify) | | | | Archive For _____ Months | | | |
| Empty Kit Relinquished by | | | | Special Instructions/QC Requirements | | | |
| Reinquired by <i>MPD</i> | | Date/Time <i>6/8/22 1700</i> | | Company <i>KPRG</i> | | Received by <i>FEDEX</i> | |
| Reinquired by | | Date/Time | | Company | | Received by <i>Shirley Smith</i> | |
| Reinquired by | | Date/Time | | Company | | Received by <i>FEDEX</i> | |
| Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No | | Custody Sea. No | | Cooler Temperature(s) °C and Other Remarks <i>1.4 → 0.9, 2.1 → 0.7</i> | | | |

ORIGIN ID:PIAA (262) 622-1143
MITCHEL DOLAN
KPRG AND ASSOCIATES
414 PLAZA DR STE 106
WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 07JUN22
ACTWGT: 46.40 LB
CAD: 6994780/SSFE2321
DIMS: 24x17x12 IN
BILL THIRD PARTY

Part # 156297-436-89082/80811/22

TO
TEST AMERICA
2417 BOND ST
UNIVERSITY PARK IL 60484

(000) 000-0000
INVT:
PG:

REF: DEPT:



1 of 9
TRK# 2740 5878 9062
0201
MASTER

WED - 08 JUN 4:30P
STANDARD OVERNIGHT
AHS
60484
IL-US ORD

UF JOTA



ORIGIN ID:PIAA (262) 622-1143
MITCHEL DOLAN
KPRG AND ASSOCIATES
414 PLAZA DR STE 106
WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 07JUN22
ACTWGT: 46.40 LB
CAD: 6994780/SSFE2321
DIMS: 24x17x12 IN
BILL THIRD PARTY

TO

TEST AMERICA
2417 BOND ST

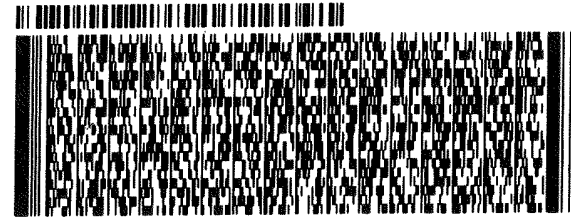
UNIVERSITY PARK IL 60484

(000) 000-0000
INVT:
PG:

REF:

DEPT:

500-217778 Wayb



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Express



4 of 9

MPS# 2740 5878 9095
0263
Mstr# 2740 5878 9062

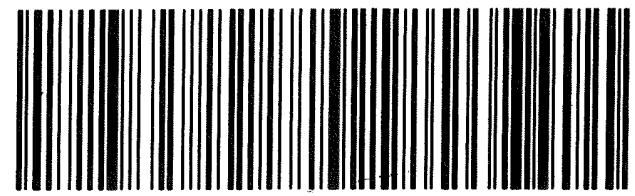
0201

WED - 08 JUN 4:30P
STANDARD OVERNIGHT

AHS
60484

IL-US ORD

UF JOTA



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ID:PIAA (262) 622-1143
 DOLAN
 500-217778 Waybi ASSOCIATES
 LA DR STE 106

SHIP DATE: 08 JUN 22
 ACTWGT: 54.50 LB
 CAD: 6994780/SSFE23
 DIMS: 24x13x14 IN

BILL THIRD PARTY

WESTMONT, IL 60559
 UNITED STATES US

TO

TESTAMERICA LABORATORIES, INC.
 2417 BOND ST

UNIVERSITY PARK IL 60484

(708) 634-5200

REF:

DEPT:



FedEx
 Express



REL#
 3785346

2 of 7

MPS# 2741 1016 5870
 0263

Mstr# 2741 1016 5869

THU - 09 JUN 4:30P
 STANDARD OVERNIGHT

0201

UF JOTA

60484

IL-US ORD



ORIGIN ID:PIAA (262) 622-1143
 MITCHELL DOLAN
 KPRG AND ASSOCIATES
 414 PLAZA DR STE 106

SHIP DATE: 08 JUN 22
 ACTWGT: 58.05 LB
 CAD: 6994780/SSFE2321
 DIMS: 24x13x14 IN

BILL THIRD PARTY

WESTMONT, IL 60559
 UNITED STATES US

TO

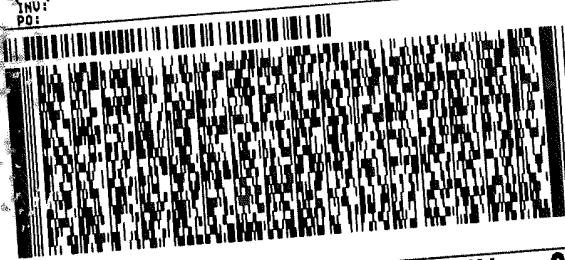
TESTAMERICA LABORATORIES, INC.
 2417 BOND ST

UNIVERSITY PARK IL 60484

(708) 634-5200

REF:

DEPT:



FedEx
 Express



REL#
 3785346

4 of 7

MPS# 2741 1016 5891
 0263

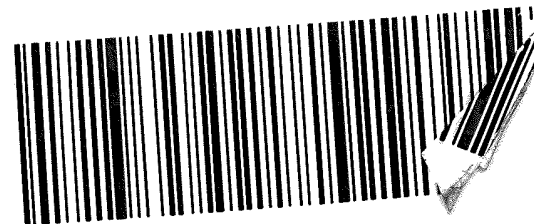
Mstr# 2741 1016 5869

0201

THU - 09 JUN 4:30P
 STANDARD OVERNIGHT

UF JOTA

IL-US



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Chain of Custody Record



| | | | |
|---|---------------|---|---|
| Client Information (Sub Contract Lab) | | Lab PM: Mockler, Diana J | Camera Tracking No(s): COC No: 500-161917-1 |
| Shipping/Receiving | | E-Mail: Diana.Mockler@et.eurofins.com | Page: 1 of 1 |
| Company: TestAmerica Laboratories, Inc. | | State of Origin: Illinois | Job #: 500-217778-2 |
| Address: 13715 Rider Trail North, | | 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) | |
| City: Earth City | | Analysis Requested | |
| State, Zip: MO, 63045 | | Total Number of Containers | |
| Phone: 314-298-8566(Tel) 314-298-8757(Fax) | | 904.0/PreSep_0 Standard Target List | |
| Email: | | 903.0/PreSep_21 Standard Target List | |
| Project Name: Powerton CCR Q2 (RAD) | | Perform MS/MSD (Yes or No) | |
| Site: MWG - Powerton | | Field Filtered Sample (Yes or No) | |
| Due Date Requested: 7/13/2022 | | Raz26Ra228_GFPc | |
| TAT Requested (days): | | 904.0/PreSep_0 Standard Target List | |
| PO #: | | 903.0/PreSep_21 Standard Target List | |
| WO #: | | 904.0/PreSep_0 Standard Target List | |
| Project #: 50011612 | | 903.0/PreSep_21 Standard Target List | |
| SSOW#: | | 904.0/PreSep_0 Standard Target List | |
| Sample Identification - Client ID (Lab ID) | | Special Instructions/Note: | |
| Sample Date | Sample Time | Sample Type (C=Comp, G=grab) | Matrix (W=water, S=solid, O=wastewater, B=soil, BT=tissue, A=air) |
| 6/8/22 | 13:45 Central | Water | Water |
| 6/8/22 | 11:48 Central | Water | Water |
| 6/8/22 | 08:10 Central | Water | Water |
| 6/8/22 | 09:10 Central | Water | Water |
| 6/8/22 | 10:42 Central | Water | Water |
| 6/8/22 | 14:50 Central | Water | Water |
| Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon out 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 | | | |
| Date: _____ Time: _____ | | | |
| Empty Kit Relinquished by: _____ | | | |
| Relinquished by: <i>Shirley Smith</i> Date/Time: 6/10/22 1600 | | | |
| Relinquished by: _____ Date/Time: _____ | | | |
| Relinquished by: _____ Date/Time: _____ | | | |
| Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No | | | |
| Custody Seal No.: _____ | | | |
| Cooler Temperature(s) °C and Other Remarks: | | | |
| 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: | | | |
| Received by: <i>Suma Worthington</i> Date/Time: JUN 13 2022 0900 AM EST Received by: _____ Date/Time: _____ Received by: _____ Date/Time: _____ | | | |



Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-217778-2

Login Number: 217778

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 | 0.9,0.8,0.9,0.7 |
| 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: 500-217778-2

Login Number: 217778

List Number: 2

Creator: Worthington, Sierra M

List Source: Eurofins St. Louis

List Creation: 06/10/22 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. | 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"). | 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: 500-217778-2

Login Number: 217778

List Number: 3

Creator: Worthington, Sierra M

List Source: Eurofins St. Louis

List Creation: 06/13/22 01:10 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 | |



Lab Chronicle

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR Q2 (RAD)

Job ID: 500-217778-2

Client Sample ID: MW-01

Date Collected: 06/07/22 14:32

Date Received: 06/08/22 16:45

Lab Sample ID: 500-217778-1

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 570472 | 06/17/22 13:50 | MS | TAL SL |
| Total/NA | Analysis | 903.0 | | 1 | 573478 | 07/11/22 13:42 | FLC | TAL SL |
| Total/NA | Prep | PrecSep_0 | | | 570478 | 06/17/22 14:18 | MS | TAL SL |
| Total/NA | Analysis | 904.0 | | 1 | 571472 | 06/24/22 13:04 | FLC | TAL SL |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | 573857 | 07/14/22 11:02 | EMH | TAL SL |

Client Sample ID: MW-18

Date Collected: 06/06/22 15:32

Date Received: 06/08/22 16:45

Lab Sample ID: 500-217778-2

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 570472 | 06/17/22 13:50 | MS | TAL SL |
| Total/NA | Analysis | 903.0 | | 1 | 573478 | 07/11/22 13:42 | FLC | TAL SL |
| Total/NA | Prep | PrecSep_0 | | | 570478 | 06/17/22 14:18 | MS | TAL SL |
| Total/NA | Analysis | 904.0 | | 1 | 571472 | 06/24/22 13:04 | FLC | TAL SL |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | 573857 | 07/14/22 11:02 | EMH | TAL SL |

Client Sample ID: MW-19

Date Collected: 06/06/22 16:37

Date Received: 06/08/22 16:45

Lab Sample ID: 500-217778-3

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 570472 | 06/17/22 13:50 | MS | TAL SL |
| Total/NA | Analysis | 903.0 | | 1 | 573478 | 07/11/22 13:42 | FLC | TAL SL |
| Total/NA | Prep | PrecSep_0 | | | 570478 | 06/17/22 14:18 | MS | TAL SL |
| Total/NA | Analysis | 904.0 | | 1 | 571472 | 06/24/22 13:04 | FLC | TAL SL |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | 573857 | 07/14/22 11:02 | EMH | TAL SL |

Client Sample ID: Duplicate

Date Collected: 06/06/22 00:00

Date Received: 06/08/22 16:45

Lab Sample ID: 500-217778-4

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 570472 | 06/17/22 13:50 | MS | TAL SL |
| Total/NA | Analysis | 903.0 | | 1 | 573478 | 07/11/22 13:42 | FLC | TAL SL |
| Total/NA | Prep | PrecSep_0 | | | 570478 | 06/17/22 14:18 | MS | TAL SL |
| Total/NA | Analysis | 904.0 | | 1 | 571472 | 06/24/22 13:04 | FLC | TAL SL |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | 573857 | 07/14/22 11:02 | EMH | TAL SL |

Lab Chronicle

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR Q2 (RAD)

Job ID: 500-217778-2

Client Sample ID: MW-17

Date Collected: 06/08/22 13:45

Date Received: 06/09/22 16:20

Lab Sample ID: 500-217778-5

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 570472 | 06/17/22 13:50 | MS | TAL SL |
| Total/NA | Analysis | 903.0 | | 1 | 573478 | 07/11/22 13:42 | FLC | TAL SL |
| Total/NA | Prep | PrecSep_0 | | | 570478 | 06/17/22 14:18 | MS | TAL SL |
| Total/NA | Analysis | 904.0 | | 1 | 571472 | 06/24/22 13:05 | FLC | TAL SL |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | 573857 | 07/14/22 11:02 | EMH | TAL SL |

Client Sample ID: MW-08

Date Collected: 06/08/22 11:48

Date Received: 06/09/22 16:20

Lab Sample ID: 500-217778-6

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 570472 | 06/17/22 13:50 | MS | TAL SL |
| Total/NA | Analysis | 903.0 | | 1 | 573478 | 07/11/22 13:43 | FLC | TAL SL |
| Total/NA | Prep | PrecSep_0 | | | 570478 | 06/17/22 14:18 | MS | TAL SL |
| Total/NA | Analysis | 904.0 | | 1 | 571472 | 06/24/22 13:05 | FLC | TAL SL |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | 573857 | 07/14/22 11:02 | EMH | TAL SL |

Client Sample ID: MW-09

Date Collected: 06/08/22 08:10

Date Received: 06/09/22 16:20

Lab Sample ID: 500-217778-7

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 570472 | 06/17/22 13:50 | MS | TAL SL |
| Total/NA | Analysis | 903.0 | | 1 | 573478 | 07/11/22 13:43 | FLC | TAL SL |
| Total/NA | Prep | PrecSep_0 | | | 570478 | 06/17/22 14:18 | MS | TAL SL |
| Total/NA | Analysis | 904.0 | | 1 | 571472 | 06/24/22 13:06 | FLC | TAL SL |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | 573857 | 07/14/22 11:02 | EMH | TAL SL |

Client Sample ID: MW-11

Date Collected: 06/08/22 09:10

Date Received: 06/09/22 16:20

Lab Sample ID: 500-217778-8

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 570472 | 06/17/22 13:50 | MS | TAL SL |
| Total/NA | Analysis | 903.0 | | 1 | 573477 | 07/11/22 17:53 | FLC | TAL SL |
| Total/NA | Prep | PrecSep_0 | | | 570478 | 06/17/22 14:18 | MS | TAL SL |
| Total/NA | Analysis | 904.0 | | 1 | 571472 | 06/24/22 13:06 | FLC | TAL SL |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | 573857 | 07/14/22 11:02 | EMH | TAL SL |

Lab Chronicle

Client: KPRG and Associates, Inc.
 Project/Site: Powerton CCR Q2 (RAD)

Job ID: 500-217778-2

Client Sample ID: MW-12

Date Collected: 06/08/22 10:42

Date Received: 06/09/22 16:20

Lab Sample ID: 500-217778-9

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 570472 | 06/17/22 13:50 | MS | TAL SL |
| Total/NA | Analysis | 903.0 | | 1 | 573477 | 07/11/22 17:54 | FLC | TAL SL |
| Total/NA | Prep | PrecSep_0 | | | 570478 | 06/17/22 14:18 | MS | TAL SL |
| Total/NA | Analysis | 904.0 | | 1 | 571472 | 06/24/22 13:06 | FLC | TAL SL |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | 573857 | 07/14/22 11:02 | EMH | TAL SL |

Client Sample ID: MW-15

Date Collected: 06/08/22 14:50

Date Received: 06/09/22 16:20

Lab Sample ID: 500-217778-10

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 570472 | 06/17/22 13:50 | MS | TAL SL |
| Total/NA | Analysis | 903.0 | | 1 | 573477 | 07/11/22 17:54 | FLC | TAL SL |
| Total/NA | Prep | PrecSep_0 | | | 570478 | 06/17/22 14:18 | MS | TAL SL |
| Total/NA | Analysis | 904.0 | | 1 | 571472 | 06/24/22 13:06 | FLC | TAL SL |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | 573857 | 07/14/22 11:02 | EMH | TAL SL |

Laboratory References:

TAL 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 Q2 (RAD)

Job ID: 500-217778-2

Laboratory: Eurofins St. Louis

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

| Authority | Program | Identification Number | Expiration Date |
|-----------|---------|-----------------------|-----------------|
| Illinois | NELAP | 200023 | 11-30-22 |

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Tracer/Carrier Summary

Client: KPRG and Associates, Inc.
 Project/Site: Powerton CCR Q2 (RAD)

Job ID: 500-217778-2

Method: 903.0 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

| | | Percent Yield (Acceptance Limits) | |
|--------------------|--------------------|-----------------------------------|--|
| Lab Sample ID | Client Sample ID | Ba (40-110) | |
| 500-217778-1 | MW-01 | 110 | |
| 500-217778-1 DU | MW-01 | 110 | |
| 500-217778-2 | MW-18 | 73.5 | |
| 500-217778-3 | MW-19 | 97.5 | |
| 500-217778-4 | Duplicate | 88.0 | |
| 500-217778-5 | MW-17 | 75.5 | |
| 500-217778-6 | MW-08 | 93.5 | |
| 500-217778-7 | MW-09 | 96.3 | |
| 500-217778-8 | MW-11 | 102 | |
| 500-217778-9 | MW-12 | 99.8 | |
| 500-217778-10 | MW-15 | 106 | |
| LCS 160-570472/2-A | Lab Control Sample | 103 | |
| MB 160-570472/1-A | Method Blank | 107 | |

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 (40-110) | Y (40-110) |
| 500-217778-1 | MW-01 | 110 | 89.3 |
| 500-217778-1 DU | MW-01 | 110 | 85.2 |
| 500-217778-2 | MW-18 | 73.5 | 86.4 |
| 500-217778-3 | MW-19 | 97.5 | 88.6 |
| 500-217778-4 | Duplicate | 88.0 | 87.9 |
| 500-217778-5 | MW-17 | 75.5 | 89.7 |
| 500-217778-6 | MW-08 | 93.5 | 87.1 |
| 500-217778-7 | MW-09 | 96.3 | 87.1 |
| 500-217778-8 | MW-11 | 102 | 89.0 |
| 500-217778-9 | MW-12 | 99.8 | 88.2 |
| 500-217778-10 | MW-15 | 106 | 87.1 |
| LCS 160-570478/2-A | Lab Control Sample | 103 | 85.2 |
| MB 160-570478/1-A | Method Blank | 107 | 84.5 |

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

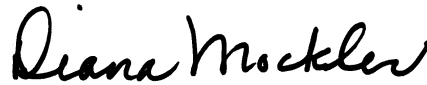
ANALYTICAL REPORT

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-221556-1
Client Project/Site: Powerton CCR

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

Attn: Richard Gnat



Authorized for release by:
9/29/2022 9:26:27 AM

Diana Mockler, Project Manager I
(219)252-7570

Diana.Mockler@et.eurofinsus.com

LINKS

Review your project
results through



Have a Question?



Visit us at:

www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Case Narrative

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

Job ID: 500-221556-1

Job ID: 500-221556-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative
500-221556-1

Comments

No additional comments.

Receipt

The samples were received on 8/31/2022 9:30 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 0.3° C, 0.9° C, 4.0° C and 5.9° 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

Job ID: 500-221556-1

| 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: 500-221556-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 500-221556-1 | MW-01 | Water | 08/30/22 09:32 | 08/31/22 09:30 |
| 500-221556-2 | MW-08 | Water | 08/30/22 14:13 | 08/31/22 09:30 |
| 500-221556-3 | MW-18 | Water | 08/30/22 15:20 | 08/31/22 09:30 |
| 500-221556-4 | MW-19 | Water | 08/30/22 15:56 | 08/31/22 09:30 |
| 500-221556-5 | Duplicate | Water | 08/30/22 00:00 | 08/31/22 09:30 |
| 500-221556-6 | MW-09 | Water | 08/31/22 09:03 | 09/01/22 09:30 |
| 500-221556-7 | MW-11 | Water | 08/31/22 10:14 | 09/01/22 09:30 |
| 500-221556-8 | MW-12 | Water | 08/31/22 11:25 | 09/01/22 09:30 |
| 500-221556-9 | MW-15 | Water | 08/31/22 12:31 | 09/01/22 09:30 |
| 500-221556-10 | MW-17 | Water | 08/31/22 14:04 | 09/01/22 09:30 |

- 1
- 2
- 3
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- 6
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- 11
- 12
- 13

Client Sample Results

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

Job ID: 500-221556-1

Client Sample ID: MW-01

Lab Sample ID: 500-221556-1

Date Collected: 08/30/22 09:32

Matrix: Water

Date Received: 08/31/22 09:30

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|--------------|-----------|---------|-----|------|---|----------------|----------------|---------|
| Antimony | <0.0030 | | 0.0030 | | mg/L | | 09/02/22 07:45 | 09/08/22 23:34 | 1 |
| Arsenic | <0.0010 | | 0.0010 | | mg/L | | 09/02/22 07:45 | 09/08/22 23:34 | 1 |
| Barium | 0.076 | | 0.0025 | | mg/L | | 09/02/22 07:45 | 09/08/22 23:34 | 1 |
| Beryllium | <0.0010 | | 0.0010 | | mg/L | | 09/02/22 07:45 | 09/08/22 23:34 | 1 |
| Boron | 0.59 | | 0.050 | | mg/L | | 09/02/22 07:45 | 09/09/22 16:17 | 1 |
| Cadmium | <0.00050 | | 0.00050 | | mg/L | | 09/02/22 07:45 | 09/08/22 23:34 | 1 |
| Calcium | 100 | | 0.20 | | mg/L | | 09/02/22 07:45 | 09/08/22 23:34 | 1 |
| Chromium | <0.0050 | | 0.0050 | | mg/L | | 09/02/22 07:45 | 09/08/22 23:34 | 1 |
| Cobalt | <0.0010 | | 0.0010 | | mg/L | | 09/02/22 07:45 | 09/08/22 23:34 | 1 |
| Lead | <0.00050 | | 0.00050 | | mg/L | | 09/02/22 07:45 | 09/08/22 23:34 | 1 |
| Lithium | <0.010 | | 0.010 | | mg/L | | 09/02/22 07:45 | 09/09/22 16:17 | 1 |
| Molybdenum | <0.0050 | | 0.0050 | | mg/L | | 09/02/22 07:45 | 09/08/22 23:34 | 1 |
| Selenium | <0.0025 | | 0.0025 | | mg/L | | 09/02/22 07:45 | 09/08/22 23:34 | 1 |
| Thallium | <0.0020 | | 0.0020 | | mg/L | | 09/02/22 07:45 | 09/08/22 23:34 | 1 |

Method: 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|----------|-----------|---------|-----|------|---|----------------|----------------|---------|
| Mercury | <0.00020 | | 0.00020 | | mg/L | | 09/09/22 09:20 | 09/12/22 08:16 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|-------------|-----------|------|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 700 | | 10 | | mg/L | | | 09/06/22 17:42 | 1 |
| Chloride | 44 | | 4.0 | | mg/L | | | 09/01/22 12:40 | 2 |
| Fluoride | 0.13 | | 0.10 | | mg/L | | | 09/10/22 13:54 | 1 |
| Sulfate | 66 | | 10 | | mg/L | | | 09/01/22 15:00 | 2 |

Client Sample Results

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

Job ID: 500-221556-1

Client Sample ID: MW-08

Lab Sample ID: 500-221556-2

Date Collected: 08/30/22 14:13

Matrix: Water

Date Received: 08/31/22 09:30

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------|---------------|-----------|---------|-----|------|---|----------------|----------------|---------|
| Antimony | <0.0030 | | 0.0030 | | mg/L | | 09/02/22 07:45 | 09/08/22 23:38 | 1 |
| Arsenic | 0.0027 | | 0.0010 | | mg/L | | 09/02/22 07:45 | 09/08/22 23:38 | 1 |
| Barium | 0.15 | | 0.0025 | | mg/L | | 09/02/22 07:45 | 09/08/22 23:38 | 1 |
| Beryllium | <0.0010 | | 0.0010 | | mg/L | | 09/02/22 07:45 | 09/08/22 23:38 | 1 |
| Boron | 0.70 | | 0.050 | | mg/L | | 09/02/22 07:45 | 09/09/22 16:20 | 1 |
| Cadmium | <0.00050 | | 0.00050 | | mg/L | | 09/02/22 07:45 | 09/08/22 23:38 | 1 |
| Calcium | 140 | | 0.20 | | mg/L | | 09/02/22 07:45 | 09/08/22 23:38 | 1 |
| Chromium | <0.0050 | | 0.0050 | | mg/L | | 09/02/22 07:45 | 09/08/22 23:38 | 1 |
| Cobalt | <0.0010 | | 0.0010 | | mg/L | | 09/02/22 07:45 | 09/08/22 23:38 | 1 |
| Lead | <0.00050 | | 0.00050 | | mg/L | | 09/02/22 07:45 | 09/08/22 23:38 | 1 |
| Lithium | 0.023 | | 0.010 | | mg/L | | 09/02/22 07:45 | 09/09/22 16:20 | 1 |
| Molybdenum | 0.0083 | | 0.0050 | | mg/L | | 09/02/22 07:45 | 09/08/22 23:38 | 1 |
| Selenium | <0.0025 | | 0.0025 | | mg/L | | 09/02/22 07:45 | 09/08/22 23:38 | 1 |
| Thallium | <0.0020 | | 0.0020 | | mg/L | | 09/02/22 07:45 | 09/08/22 23:38 | 1 |

Method: 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|----------|-----------|---------|-----|------|---|----------------|----------------|---------|
| Mercury | <0.00020 | | 0.00020 | | mg/L | | 09/09/22 09:20 | 09/12/22 08:18 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|-------------|-----------|------|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 1200 | | 10 | | mg/L | | | 09/06/22 17:43 | 1 |
| Chloride | 210 | | 20 | | mg/L | | | 09/01/22 12:40 | 10 |
| Fluoride | 0.32 | | 0.10 | | mg/L | | | 09/10/22 13:57 | 1 |
| Sulfate | 50 | | 10 | | mg/L | | | 09/01/22 15:00 | 2 |

Client Sample Results

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

Job ID: 500-221556-1

Client Sample ID: MW-18
Date Collected: 08/30/22 15:20
Date Received: 08/31/22 09:30

Lab Sample ID: 500-221556-3
Matrix: Water

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------|---------------|-----------|---------|-----|------|---|----------------|----------------|---------|
| Antimony | <0.0030 | | 0.0030 | | mg/L | | 09/02/22 07:45 | 09/08/22 23:41 | 1 |
| Arsenic | 0.0085 | | 0.0010 | | mg/L | | 09/02/22 07:45 | 09/08/22 23:41 | 1 |
| Barium | 0.23 | | 0.0025 | | mg/L | | 09/02/22 07:45 | 09/08/22 23:41 | 1 |
| Beryllium | <0.0010 | | 0.0010 | | mg/L | | 09/02/22 07:45 | 09/08/22 23:41 | 1 |
| Boron | 0.66 | | 0.050 | | mg/L | | 09/02/22 07:45 | 09/09/22 16:24 | 1 |
| Cadmium | <0.00050 | | 0.00050 | | mg/L | | 09/02/22 07:45 | 09/08/22 23:41 | 1 |
| Calcium | 130 | | 0.20 | | mg/L | | 09/02/22 07:45 | 09/08/22 23:41 | 1 |
| Chromium | 0.0071 | | 0.0050 | | mg/L | | 09/02/22 07:45 | 09/08/22 23:41 | 1 |
| Cobalt | 0.0027 | | 0.0010 | | mg/L | | 09/02/22 07:45 | 09/08/22 23:41 | 1 |
| Lead | 0.0039 | | 0.00050 | | mg/L | | 09/02/22 07:45 | 09/08/22 23:41 | 1 |
| Lithium | 0.016 | | 0.010 | | mg/L | | 09/02/22 07:45 | 09/09/22 16:24 | 1 |
| Molybdenum | 0.0056 | | 0.0050 | | mg/L | | 09/02/22 07:45 | 09/08/22 23:41 | 1 |
| Selenium | <0.0025 | | 0.0025 | | mg/L | | 09/02/22 07:45 | 09/08/22 23:41 | 1 |
| Thallium | <0.0020 | | 0.0020 | | mg/L | | 09/02/22 07:45 | 09/08/22 23:41 | 1 |

Method: 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|----------|-----------|---------|-----|------|---|----------------|----------------|---------|
| Mercury | <0.00020 | | 0.00020 | | mg/L | | 09/09/22 09:20 | 09/12/22 08:20 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|-------------|-----------|------|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 1400 | | 10 | | mg/L | | | 09/06/22 17:45 | 1 |
| Chloride | 160 | | 20 | | mg/L | | | 09/01/22 12:41 | 10 |
| Fluoride | 0.55 | | 0.10 | | mg/L | | | 09/10/22 13:59 | 1 |
| Sulfate | 240 | | 50 | | mg/L | | | 09/01/22 15:01 | 10 |

Client Sample Results

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

Job ID: 500-221556-1

Client Sample ID: MW-19
Date Collected: 08/30/22 15:56
Date Received: 08/31/22 09:30

Lab Sample ID: 500-221556-4
Matrix: Water

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------|---------------|-----------|---------|-----|------|---|----------------|----------------|---------|
| Antimony | <0.0030 | | 0.0030 | | mg/L | | 09/02/22 07:45 | 09/08/22 23:45 | 1 |
| Arsenic | 0.0027 | | 0.0010 | | mg/L | | 09/02/22 07:45 | 09/08/22 23:45 | 1 |
| Barium | 0.15 | | 0.0025 | | mg/L | | 09/02/22 07:45 | 09/08/22 23:45 | 1 |
| Beryllium | <0.0010 | | 0.0010 | | mg/L | | 09/02/22 07:45 | 09/08/22 23:45 | 1 |
| Boron | 0.69 | | 0.050 | | mg/L | | 09/02/22 07:45 | 09/09/22 16:27 | 1 |
| Cadmium | <0.00050 | | 0.00050 | | mg/L | | 09/02/22 07:45 | 09/08/22 23:45 | 1 |
| Calcium | 140 | | 0.20 | | mg/L | | 09/02/22 07:45 | 09/08/22 23:45 | 1 |
| Chromium | <0.0050 | | 0.0050 | | mg/L | | 09/02/22 07:45 | 09/08/22 23:45 | 1 |
| Cobalt | <0.0010 | | 0.0010 | | mg/L | | 09/02/22 07:45 | 09/08/22 23:45 | 1 |
| Lead | <0.00050 | | 0.00050 | | mg/L | | 09/02/22 07:45 | 09/08/22 23:45 | 1 |
| Lithium | 0.023 | | 0.010 | | mg/L | | 09/02/22 07:45 | 09/09/22 16:27 | 1 |
| Molybdenum | 0.0082 | | 0.0050 | | mg/L | | 09/02/22 07:45 | 09/08/22 23:45 | 1 |
| Selenium | <0.0025 | | 0.0025 | | mg/L | | 09/02/22 07:45 | 09/08/22 23:45 | 1 |
| Thallium | <0.0020 | | 0.0020 | | mg/L | | 09/02/22 07:45 | 09/08/22 23:45 | 1 |

Method: 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|----------|-----------|---------|-----|------|---|----------------|----------------|---------|
| Mercury | <0.00020 | | 0.00020 | | mg/L | | 09/09/22 09:20 | 09/12/22 08:22 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|-------------|-----------|------|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 1100 | | 10 | | mg/L | | | 09/06/22 17:46 | 1 |
| Chloride | 200 | | 20 | | mg/L | | | 09/01/22 13:59 | 10 |
| Fluoride | 0.32 | | 0.10 | | mg/L | | | 09/10/22 14:03 | 1 |
| Sulfate | 45 | | 25 | | mg/L | | | 09/01/22 14:44 | 5 |

Client Sample Results

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

Job ID: 500-221556-1

Client Sample ID: Duplicate
Date Collected: 08/30/22 00:00
Date Received: 08/31/22 09:30

Lab Sample ID: 500-221556-5
Matrix: Water

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------|--------------|-----------|---------|-----|------|---|----------------|----------------|---------|
| Antimony | <0.0030 | | 0.0030 | | mg/L | | 09/02/22 07:45 | 09/08/22 23:48 | 1 |
| Arsenic | <0.0010 | | 0.0010 | | mg/L | | 09/02/22 07:45 | 09/08/22 23:48 | 1 |
| Barium | 0.063 | | 0.0025 | | mg/L | | 09/02/22 07:45 | 09/08/22 23:48 | 1 |
| Beryllium | <0.0010 | | 0.0010 | | mg/L | | 09/02/22 07:45 | 09/08/22 23:48 | 1 |
| Boron | 3.3 | | 0.50 | | mg/L | | 09/02/22 07:45 | 09/09/22 16:31 | 10 |
| Cadmium | <0.00050 | | 0.00050 | | mg/L | | 09/02/22 07:45 | 09/08/22 23:48 | 1 |
| Calcium | 80 | | 0.20 | | mg/L | | 09/02/22 07:45 | 09/08/22 23:48 | 1 |
| Chromium | <0.0050 | | 0.0050 | | mg/L | | 09/02/22 07:45 | 09/08/22 23:48 | 1 |
| Cobalt | <0.0010 | | 0.0010 | | mg/L | | 09/02/22 07:45 | 09/08/22 23:48 | 1 |
| Lead | <0.00050 | | 0.00050 | | mg/L | | 09/02/22 07:45 | 09/08/22 23:48 | 1 |
| Lithium | <0.010 | | 0.010 | | mg/L | | 09/02/22 07:45 | 09/13/22 13:08 | 1 |
| Molybdenum | 0.043 | | 0.0050 | | mg/L | | 09/02/22 07:45 | 09/08/22 23:48 | 1 |
| Selenium | <0.0025 | | 0.0025 | | mg/L | | 09/02/22 07:45 | 09/08/22 23:48 | 1 |
| Thallium | <0.0020 | | 0.0020 | | mg/L | | 09/02/22 07:45 | 09/08/22 23:48 | 1 |

Method: 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|----------|-----------|---------|-----|------|---|----------------|----------------|---------|
| Mercury | <0.00020 | | 0.00020 | | mg/L | | 09/09/22 09:20 | 09/12/22 08:24 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|-------------|-----------|------|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 940 | | 10 | | mg/L | | | 09/06/22 17:47 | 1 |
| Chloride | 36 | | 20 | | mg/L | | | 09/01/22 12:41 | 10 |
| Fluoride | 0.16 | | 0.10 | | mg/L | | | 09/10/22 14:06 | 1 |
| Sulfate | 140 | | 50 | | mg/L | | | 09/01/22 14:45 | 10 |

Client Sample Results

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

Job ID: 500-221556-1

Client Sample ID: MW-09
Date Collected: 08/31/22 09:03
Date Received: 09/01/22 09:30

Lab Sample ID: 500-221556-6
Matrix: Water

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------|--------------|-----------|---------|-----|------|---|----------------|----------------|---------|
| Antimony | <0.0030 | | 0.0030 | | mg/L | | 09/02/22 07:45 | 09/08/22 23:52 | 1 |
| Arsenic | <0.0010 | | 0.0010 | | mg/L | | 09/02/22 07:45 | 09/08/22 23:52 | 1 |
| Barium | 0.036 | | 0.0025 | | mg/L | | 09/02/22 07:45 | 09/08/22 23:52 | 1 |
| Beryllium | <0.0010 | | 0.0010 | | mg/L | | 09/02/22 07:45 | 09/08/22 23:52 | 1 |
| Boron | 3.2 | | 0.50 | | mg/L | | 09/02/22 07:45 | 09/09/22 16:34 | 10 |
| Cadmium | <0.00050 | | 0.00050 | | mg/L | | 09/02/22 07:45 | 09/08/22 23:52 | 1 |
| Calcium | 79 | | 0.20 | | mg/L | | 09/02/22 07:45 | 09/08/22 23:52 | 1 |
| Chromium | <0.0050 | | 0.0050 | | mg/L | | 09/02/22 07:45 | 09/08/22 23:52 | 1 |
| Cobalt | <0.0010 | | 0.0010 | | mg/L | | 09/02/22 07:45 | 09/08/22 23:52 | 1 |
| Lead | <0.00050 | | 0.00050 | | mg/L | | 09/02/22 07:45 | 09/08/22 23:52 | 1 |
| Lithium | <0.010 | | 0.010 | | mg/L | | 09/02/22 07:45 | 09/13/22 13:12 | 1 |
| Molybdenum | 0.024 | | 0.0050 | | mg/L | | 09/02/22 07:45 | 09/08/22 23:52 | 1 |
| Selenium | <0.0025 | | 0.0025 | | mg/L | | 09/02/22 07:45 | 09/08/22 23:52 | 1 |
| Thallium | <0.0020 | | 0.0020 | | mg/L | | 09/02/22 07:45 | 09/08/22 23:52 | 1 |

Method: 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|----------|-----------|---------|-----|------|---|----------------|----------------|---------|
| Mercury | <0.00020 | | 0.00020 | | mg/L | | 09/09/22 09:20 | 09/12/22 08:26 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|-------------|-----------|------|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 530 | | 10 | | mg/L | | | 09/07/22 18:43 | 1 |
| Chloride | 30 | | 4.0 | | mg/L | | | 09/09/22 17:28 | 2 |
| Fluoride | 0.18 | | 0.10 | | mg/L | | | 09/10/22 14:08 | 1 |
| Sulfate | 140 | | 50 | | mg/L | | | 09/09/22 19:07 | 10 |

Client Sample Results

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

Job ID: 500-221556-1

Client Sample ID: MW-11

Lab Sample ID: 500-221556-7

Date Collected: 08/31/22 10:14

Matrix: Water

Date Received: 09/01/22 09:30

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------|---------------|-----------|---------|-----|------|---|----------------|----------------|---------|
| Antimony | <0.0030 | | 0.0030 | | mg/L | | 09/02/22 07:45 | 09/09/22 00:02 | 1 |
| Arsenic | 0.016 | | 0.0010 | | mg/L | | 09/02/22 07:45 | 09/09/22 00:02 | 1 |
| Barium | 0.20 | | 0.0025 | | mg/L | | 09/02/22 07:45 | 09/09/22 00:02 | 1 |
| Beryllium | <0.0010 | | 0.0010 | | mg/L | | 09/02/22 07:45 | 09/09/22 00:02 | 1 |
| Boron | 1.2 | | 0.25 | | mg/L | | 09/02/22 07:45 | 09/09/22 16:37 | 5 |
| Cadmium | <0.00050 | | 0.00050 | | mg/L | | 09/02/22 07:45 | 09/09/22 00:02 | 1 |
| Calcium | 120 | | 0.20 | | mg/L | | 09/02/22 07:45 | 09/09/22 00:02 | 1 |
| Chromium | <0.0050 | | 0.0050 | | mg/L | | 09/02/22 07:45 | 09/09/22 00:02 | 1 |
| Cobalt | 0.0017 | | 0.0010 | | mg/L | | 09/02/22 07:45 | 09/09/22 00:02 | 1 |
| Lead | <0.00050 | | 0.00050 | | mg/L | | 09/02/22 07:45 | 09/09/22 00:02 | 1 |
| Lithium | <0.010 | | 0.010 | | mg/L | | 09/02/22 07:45 | 09/13/22 13:15 | 1 |
| Molybdenum | 0.020 | | 0.0050 | | mg/L | | 09/02/22 07:45 | 09/09/22 00:02 | 1 |
| Selenium | <0.0025 | | 0.0025 | | mg/L | | 09/02/22 07:45 | 09/09/22 00:02 | 1 |
| Thallium | <0.0020 | | 0.0020 | | mg/L | | 09/02/22 07:45 | 09/09/22 00:02 | 1 |

Method: 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|----------|-----------|---------|-----|------|---|----------------|----------------|---------|
| Mercury | <0.00020 | | 0.00020 | | mg/L | | 09/09/22 09:20 | 09/12/22 08:33 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|-------------|-----------|------|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 830 | | 10 | | mg/L | | | 09/07/22 18:44 | 1 |
| Chloride | 100 | | 20 | | mg/L | | | 09/09/22 17:29 | 10 |
| Fluoride | 0.61 | | 0.10 | | mg/L | | | 09/10/22 14:17 | 1 |
| Sulfate | 190 | | 50 | | mg/L | | | 09/09/22 19:08 | 10 |

Client Sample Results

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

Job ID: 500-221556-1

Client Sample ID: MW-12

Lab Sample ID: 500-221556-8

Date Collected: 08/31/22 11:25

Matrix: Water

Date Received: 09/01/22 09:30

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------|--------------|-----------|---------|-----|------|---|----------------|----------------|---------|
| Antimony | <0.0030 | | 0.0030 | | mg/L | | 09/02/22 07:45 | 09/09/22 00:05 | 1 |
| Arsenic | 0.099 | | 0.0010 | | mg/L | | 09/02/22 07:45 | 09/09/22 00:05 | 1 |
| Barium | 0.11 | | 0.0025 | | mg/L | | 09/02/22 07:45 | 09/09/22 00:05 | 1 |
| Beryllium | <0.0010 | | 0.0010 | | mg/L | | 09/02/22 07:45 | 09/09/22 00:05 | 1 |
| Boron | 0.62 | | 0.050 | | mg/L | | 09/02/22 07:45 | 09/09/22 16:41 | 1 |
| Cadmium | <0.00050 | | 0.00050 | | mg/L | | 09/02/22 07:45 | 09/09/22 00:05 | 1 |
| Calcium | 100 | | 0.20 | | mg/L | | 09/02/22 07:45 | 09/09/22 00:05 | 1 |
| Chromium | <0.0050 | | 0.0050 | | mg/L | | 09/02/22 07:45 | 09/09/22 00:05 | 1 |
| Cobalt | <0.0010 | | 0.0010 | | mg/L | | 09/02/22 07:45 | 09/09/22 00:05 | 1 |
| Lead | <0.00050 | | 0.00050 | | mg/L | | 09/02/22 07:45 | 09/09/22 00:05 | 1 |
| Lithium | 0.014 | | 0.010 | | mg/L | | 09/02/22 07:45 | 09/09/22 16:41 | 1 |
| Molybdenum | 0.021 | | 0.0050 | | mg/L | | 09/02/22 07:45 | 09/09/22 00:05 | 1 |
| Selenium | <0.0025 | | 0.0025 | | mg/L | | 09/02/22 07:45 | 09/09/22 00:05 | 1 |
| Thallium | <0.0020 | | 0.0020 | | mg/L | | 09/02/22 07:45 | 09/09/22 00:05 | 1 |

Method: 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|----------|-----------|---------|-----|------|---|----------------|----------------|---------|
| Mercury | <0.00020 | | 0.00020 | | mg/L | | 09/09/22 09:20 | 09/12/22 08:41 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|-------------|-----------|------|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 870 | | 10 | | mg/L | | | 09/07/22 18:46 | 1 |
| Chloride | 150 | | 20 | | mg/L | | | 09/09/22 17:29 | 10 |
| Fluoride | 0.50 | | 0.10 | | mg/L | | | 09/10/22 14:20 | 1 |
| Sulfate | 260 | | 50 | | mg/L | | | 09/09/22 19:08 | 10 |

Client Sample Results

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

Job ID: 500-221556-1

Client Sample ID: MW-15

Lab Sample ID: 500-221556-9

Date Collected: 08/31/22 12:31

Matrix: Water

Date Received: 09/01/22 09:30

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------|---------------|-----------|---------|-----|------|---|----------------|----------------|---------|
| Antimony | <0.0030 | | 0.0030 | | mg/L | | 09/02/22 07:45 | 09/09/22 00:09 | 1 |
| Arsenic | 0.0049 | | 0.0010 | | mg/L | | 09/02/22 07:45 | 09/09/22 00:09 | 1 |
| Barium | 0.057 | | 0.0025 | | mg/L | | 09/02/22 07:45 | 09/09/22 00:09 | 1 |
| Beryllium | <0.0010 | | 0.0010 | | mg/L | | 09/02/22 07:45 | 09/09/22 00:09 | 1 |
| Boron | 1.5 | | 0.25 | | mg/L | | 09/02/22 07:45 | 09/09/22 16:44 | 5 |
| Cadmium | <0.00050 | | 0.00050 | | mg/L | | 09/02/22 07:45 | 09/09/22 00:09 | 1 |
| Calcium | 210 | | 0.20 | | mg/L | | 09/02/22 07:45 | 09/09/22 00:09 | 1 |
| Chromium | <0.0050 | | 0.0050 | | mg/L | | 09/02/22 07:45 | 09/09/22 00:09 | 1 |
| Cobalt | <0.0010 | | 0.0010 | | mg/L | | 09/02/22 07:45 | 09/09/22 00:09 | 1 |
| Lead | <0.00050 | | 0.00050 | | mg/L | | 09/02/22 07:45 | 09/09/22 00:09 | 1 |
| Lithium | 0.032 | | 0.010 | | mg/L | | 09/02/22 07:45 | 09/13/22 13:19 | 1 |
| Molybdenum | 0.021 | | 0.0050 | | mg/L | | 09/02/22 07:45 | 09/09/22 00:09 | 1 |
| Selenium | 0.0078 | | 0.0025 | | mg/L | | 09/02/22 07:45 | 09/09/22 00:09 | 1 |
| Thallium | <0.0020 | | 0.0020 | | mg/L | | 09/02/22 07:45 | 09/09/22 00:09 | 1 |

Method: 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|----------|-----------|---------|-----|------|---|----------------|----------------|---------|
| Mercury | <0.00020 | | 0.00020 | | mg/L | | 09/09/22 09:20 | 09/12/22 08:43 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|-------------|-----------|------|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 1800 | | 10 | | mg/L | | | 09/07/22 18:47 | 1 |
| Chloride | 270 | | 20 | | mg/L | | | 09/09/22 17:29 | 10 |
| Fluoride | 0.48 | | 0.10 | | mg/L | | | 09/10/22 14:22 | 1 |
| Sulfate | 530 | | 250 | | mg/L | | | 09/09/22 19:08 | 50 |

Client Sample Results

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

Job ID: 500-221556-1

Client Sample ID: MW-17

Lab Sample ID: 500-221556-10

Date Collected: 08/31/22 14:04

Matrix: Water

Date Received: 09/01/22 09:30

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------|---------------|-----------|---------|-----|------|---|----------------|----------------|---------|
| Antimony | <0.0030 | | 0.0030 | | mg/L | | 09/02/22 07:45 | 09/09/22 00:12 | 1 |
| Arsenic | 0.0030 | | 0.0010 | | mg/L | | 09/02/22 07:45 | 09/09/22 00:12 | 1 |
| Barium | 0.031 | | 0.0025 | | mg/L | | 09/02/22 07:45 | 09/09/22 00:12 | 1 |
| Beryllium | <0.0010 | | 0.0010 | | mg/L | | 09/02/22 07:45 | 09/09/22 00:12 | 1 |
| Boron | 1.1 | | 0.25 | | mg/L | | 09/02/22 07:45 | 09/09/22 16:48 | 5 |
| Cadmium | <0.00050 | | 0.00050 | | mg/L | | 09/02/22 07:45 | 09/09/22 00:12 | 1 |
| Calcium | 150 | | 0.20 | | mg/L | | 09/02/22 07:45 | 09/09/22 00:12 | 1 |
| Chromium | <0.0050 | | 0.0050 | | mg/L | | 09/02/22 07:45 | 09/09/22 00:12 | 1 |
| Cobalt | <0.0010 | | 0.0010 | | mg/L | | 09/02/22 07:45 | 09/09/22 00:12 | 1 |
| Lead | <0.00050 | | 0.00050 | | mg/L | | 09/02/22 07:45 | 09/09/22 00:12 | 1 |
| Lithium | 0.016 | | 0.010 | | mg/L | | 09/02/22 07:45 | 09/13/22 19:04 | 1 |
| Molybdenum | 0.024 | | 0.0050 | | mg/L | | 09/02/22 07:45 | 09/09/22 00:12 | 1 |
| Selenium | <0.0025 | | 0.0025 | | mg/L | | 09/02/22 07:45 | 09/09/22 00:12 | 1 |
| Thallium | <0.0020 | | 0.0020 | | mg/L | | 09/02/22 07:45 | 09/09/22 00:12 | 1 |

Method: 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|----------|-----------|---------|-----|------|---|----------------|----------------|---------|
| Mercury | <0.00020 | | 0.00020 | | mg/L | | 09/09/22 09:20 | 09/12/22 08:45 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|-------------|-----------|------|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 1200 | | 10 | | mg/L | | | 09/07/22 18:48 | 1 |
| Chloride | 170 | | 20 | | mg/L | | | 09/09/22 17:30 | 10 |
| Fluoride | 0.73 | | 0.10 | | mg/L | | | 09/10/22 14:25 | 1 |
| Sulfate | 430 | | 250 | | mg/L | | | 09/09/22 19:09 | 50 |

Definitions/Glossary

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

Job ID: 500-221556-1

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

Job ID: 500-221556-1

Metals

Prep Batch: 672889

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-------------------|--------|--------|------------|
| 500-221556-1 | MW-01 | Total Recoverable | Water | 3005A | |
| 500-221556-2 | MW-08 | Total Recoverable | Water | 3005A | |
| 500-221556-3 | MW-18 | Total Recoverable | Water | 3005A | |
| 500-221556-4 | MW-19 | Total Recoverable | Water | 3005A | |
| 500-221556-5 | Duplicate | Total Recoverable | Water | 3005A | |
| 500-221556-6 | MW-09 | Total Recoverable | Water | 3005A | |
| 500-221556-7 | MW-11 | Total Recoverable | Water | 3005A | |
| 500-221556-8 | MW-12 | Total Recoverable | Water | 3005A | |
| 500-221556-9 | MW-15 | Total Recoverable | Water | 3005A | |
| 500-221556-10 | MW-17 | Total Recoverable | Water | 3005A | |
| MB 500-672889/1-A | Method Blank | Total Recoverable | Water | 3005A | |
| LCS 500-672889/2-A | Lab Control Sample | Total Recoverable | Water | 3005A | |

Prep Batch: 673830

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|--------------------|-----------|--------|--------|------------|
| 500-221556-1 | MW-01 | Total/NA | Water | 7470A | |
| 500-221556-2 | MW-08 | Total/NA | Water | 7470A | |
| 500-221556-3 | MW-18 | Total/NA | Water | 7470A | |
| 500-221556-4 | MW-19 | Total/NA | Water | 7470A | |
| 500-221556-5 | Duplicate | Total/NA | Water | 7470A | |
| 500-221556-6 | MW-09 | Total/NA | Water | 7470A | |
| 500-221556-7 | MW-11 | Total/NA | Water | 7470A | |
| 500-221556-8 | MW-12 | Total/NA | Water | 7470A | |
| 500-221556-9 | MW-15 | Total/NA | Water | 7470A | |
| 500-221556-10 | MW-17 | Total/NA | Water | 7470A | |
| MB 500-673830/12-A | Method Blank | Total/NA | Water | 7470A | |
| LCS 500-673830/13-A | Lab Control Sample | Total/NA | Water | 7470A | |
| 500-221556-7 MS | MW-11 | Total/NA | Water | 7470A | |
| 500-221556-7 MSD | MW-11 | Total/NA | Water | 7470A | |
| 500-221556-7 DU | MW-11 | Total/NA | Water | 7470A | |

Analysis Batch: 673884

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-------------------|--------|--------|------------|
| 500-221556-1 | MW-01 | Total Recoverable | Water | 6020A | 672889 |
| 500-221556-2 | MW-08 | Total Recoverable | Water | 6020A | 672889 |
| 500-221556-3 | MW-18 | Total Recoverable | Water | 6020A | 672889 |
| 500-221556-4 | MW-19 | Total Recoverable | Water | 6020A | 672889 |
| 500-221556-5 | Duplicate | Total Recoverable | Water | 6020A | 672889 |
| 500-221556-6 | MW-09 | Total Recoverable | Water | 6020A | 672889 |
| 500-221556-7 | MW-11 | Total Recoverable | Water | 6020A | 672889 |
| 500-221556-8 | MW-12 | Total Recoverable | Water | 6020A | 672889 |
| 500-221556-9 | MW-15 | Total Recoverable | Water | 6020A | 672889 |
| 500-221556-10 | MW-17 | Total Recoverable | Water | 6020A | 672889 |
| MB 500-672889/1-A | Method Blank | Total Recoverable | Water | 6020A | 672889 |
| LCS 500-672889/2-A | Lab Control Sample | Total Recoverable | Water | 6020A | 672889 |

Analysis Batch: 674091

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-------------------|--------|--------|------------|
| 500-221556-1 | MW-01 | Total Recoverable | Water | 6020A | 672889 |
| 500-221556-2 | MW-08 | Total Recoverable | Water | 6020A | 672889 |
| 500-221556-3 | MW-18 | Total Recoverable | Water | 6020A | 672889 |

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QC Association Summary

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

Job ID: 500-221556-1

Metals (Continued)

Analysis Batch: 674091 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-------------------|--------|--------|------------|
| 500-221556-4 | MW-19 | Total Recoverable | Water | 6020A | 672889 |
| 500-221556-5 | Duplicate | Total Recoverable | Water | 6020A | 672889 |
| 500-221556-6 | MW-09 | Total Recoverable | Water | 6020A | 672889 |
| 500-221556-7 | MW-11 | Total Recoverable | Water | 6020A | 672889 |
| 500-221556-8 | MW-12 | Total Recoverable | Water | 6020A | 672889 |
| 500-221556-9 | MW-15 | Total Recoverable | Water | 6020A | 672889 |
| 500-221556-10 | MW-17 | Total Recoverable | Water | 6020A | 672889 |
| MB 500-672889/1-A | Method Blank | Total Recoverable | Water | 6020A | 672889 |
| LCS 500-672889/2-A | Lab Control Sample | Total Recoverable | Water | 6020A | 672889 |

Analysis Batch: 674169

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|--------------------|-----------|--------|--------|------------|
| 500-221556-1 | MW-01 | Total/NA | Water | 7470A | 673830 |
| 500-221556-2 | MW-08 | Total/NA | Water | 7470A | 673830 |
| 500-221556-3 | MW-18 | Total/NA | Water | 7470A | 673830 |
| 500-221556-4 | MW-19 | Total/NA | Water | 7470A | 673830 |
| 500-221556-5 | Duplicate | Total/NA | Water | 7470A | 673830 |
| 500-221556-6 | MW-09 | Total/NA | Water | 7470A | 673830 |
| 500-221556-7 | MW-11 | Total/NA | Water | 7470A | 673830 |
| 500-221556-8 | MW-12 | Total/NA | Water | 7470A | 673830 |
| 500-221556-9 | MW-15 | Total/NA | Water | 7470A | 673830 |
| 500-221556-10 | MW-17 | Total/NA | Water | 7470A | 673830 |
| MB 500-673830/12-A | Method Blank | Total/NA | Water | 7470A | 673830 |
| LCS 500-673830/13-A | Lab Control Sample | Total/NA | Water | 7470A | 673830 |
| 500-221556-7 MS | MW-11 | Total/NA | Water | 7470A | 673830 |
| 500-221556-7 MSD | MW-11 | Total/NA | Water | 7470A | 673830 |
| 500-221556-7 DU | MW-11 | Total/NA | Water | 7470A | 673830 |

Analysis Batch: 674440

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-------------------|--------|--------|------------|
| 500-221556-5 | Duplicate | Total Recoverable | Water | 6020A | 672889 |
| 500-221556-6 | MW-09 | Total Recoverable | Water | 6020A | 672889 |
| 500-221556-7 | MW-11 | Total Recoverable | Water | 6020A | 672889 |
| 500-221556-9 | MW-15 | Total Recoverable | Water | 6020A | 672889 |

Analysis Batch: 674538

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-------------------|--------|--------|------------|
| 500-221556-10 | MW-17 | Total Recoverable | Water | 6020A | 672889 |

General Chemistry

Analysis Batch: 672805

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|---------------|------------|
| 500-221556-1 | MW-01 | Total/NA | Water | SM 4500 CI- E | |
| 500-221556-2 | MW-08 | Total/NA | Water | SM 4500 CI- E | |
| 500-221556-3 | MW-18 | Total/NA | Water | SM 4500 CI- E | |
| 500-221556-4 | MW-19 | Total/NA | Water | SM 4500 CI- E | |
| 500-221556-5 | Duplicate | Total/NA | Water | SM 4500 CI- E | |
| MB 500-672805/58 | Method Blank | Total/NA | Water | SM 4500 CI- E | |
| LCS 500-672805/59 | 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

Job ID: 500-221556-1

General Chemistry

Analysis Batch: 672849

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|---------------|------------|
| 500-221556-1 | MW-01 | Total/NA | Water | SM 4500 SO4 E | |
| 500-221556-2 | MW-08 | Total/NA | Water | SM 4500 SO4 E | |
| 500-221556-3 | MW-18 | Total/NA | Water | SM 4500 SO4 E | |
| 500-221556-4 | MW-19 | Total/NA | Water | SM 4500 SO4 E | |
| 500-221556-5 | Duplicate | Total/NA | Water | SM 4500 SO4 E | |
| MB 500-672849/16 | Method Blank | Total/NA | Water | SM 4500 SO4 E | |
| LCS 500-672849/17 | Lab Control Sample | Total/NA | Water | SM 4500 SO4 E | |

Analysis Batch: 673325

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|----------|------------|
| 500-221556-1 | MW-01 | Total/NA | Water | SM 2540C | |
| 500-221556-2 | MW-08 | Total/NA | Water | SM 2540C | |
| 500-221556-3 | MW-18 | Total/NA | Water | SM 2540C | |
| 500-221556-4 | MW-19 | Total/NA | Water | SM 2540C | |
| 500-221556-5 | Duplicate | Total/NA | Water | SM 2540C | |
| MB 500-673325/1 | Method Blank | Total/NA | Water | SM 2540C | |
| LCS 500-673325/2 | Lab Control Sample | Total/NA | Water | SM 2540C | |

Analysis Batch: 673533

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|----------|------------|
| 500-221556-6 | MW-09 | Total/NA | Water | SM 2540C | |
| 500-221556-7 | MW-11 | Total/NA | Water | SM 2540C | |
| 500-221556-8 | MW-12 | Total/NA | Water | SM 2540C | |
| 500-221556-9 | MW-15 | Total/NA | Water | SM 2540C | |
| 500-221556-10 | MW-17 | Total/NA | Water | SM 2540C | |
| MB 500-673533/1 | Method Blank | Total/NA | Water | SM 2540C | |
| LCS 500-673533/2 | Lab Control Sample | Total/NA | Water | SM 2540C | |

Analysis Batch: 673960

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|---------------|------------|
| 500-221556-6 | MW-09 | Total/NA | Water | SM 4500 Cl- E | |
| 500-221556-7 | MW-11 | Total/NA | Water | SM 4500 Cl- E | |
| 500-221556-8 | MW-12 | Total/NA | Water | SM 4500 Cl- E | |
| 500-221556-9 | MW-15 | Total/NA | Water | SM 4500 Cl- E | |
| 500-221556-10 | MW-17 | Total/NA | Water | SM 4500 Cl- E | |
| MB 500-673960/16 | Method Blank | Total/NA | Water | SM 4500 Cl- E | |
| LCS 500-673960/17 | Lab Control Sample | Total/NA | Water | SM 4500 Cl- E | |

Analysis Batch: 673965

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|---------------|------------|
| 500-221556-6 | MW-09 | Total/NA | Water | SM 4500 SO4 E | |
| 500-221556-7 | MW-11 | Total/NA | Water | SM 4500 SO4 E | |
| 500-221556-8 | MW-12 | Total/NA | Water | SM 4500 SO4 E | |
| 500-221556-9 | MW-15 | Total/NA | Water | SM 4500 SO4 E | |
| 500-221556-10 | MW-17 | Total/NA | Water | SM 4500 SO4 E | |
| MB 500-673965/16 | Method Blank | Total/NA | Water | SM 4500 SO4 E | |
| LCS 500-673965/17 | Lab Control Sample | Total/NA | Water | SM 4500 SO4 E | |

Analysis Batch: 674042

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|-------------|------------|
| 500-221556-1 | MW-01 | Total/NA | Water | SM 4500 F C | |

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QC Association Summary

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

Job ID: 500-221556-1

General Chemistry (Continued)

Analysis Batch: 674042 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|-------------|------------|
| 500-221556-2 | MW-08 | Total/NA | Water | SM 4500 F C | |
| 500-221556-3 | MW-18 | Total/NA | Water | SM 4500 F C | |
| 500-221556-4 | MW-19 | Total/NA | Water | SM 4500 F C | |
| 500-221556-5 | Duplicate | Total/NA | Water | SM 4500 F C | |
| 500-221556-6 | MW-09 | Total/NA | Water | SM 4500 F C | |
| 500-221556-7 | MW-11 | Total/NA | Water | SM 4500 F C | |
| 500-221556-8 | MW-12 | Total/NA | Water | SM 4500 F C | |
| 500-221556-9 | MW-15 | Total/NA | Water | SM 4500 F C | |
| 500-221556-10 | MW-17 | Total/NA | Water | SM 4500 F C | |
| MB 500-674042/3 | Method Blank | Total/NA | Water | SM 4500 F C | |
| LCS 500-674042/4 | Lab Control Sample | Total/NA | Water | SM 4500 F C | |

QC Sample Results

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

Job ID: 500-221556-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 500-672889/1-A
Matrix: Water
Analysis Batch: 673884

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 672889

| Analyte | MB | MB | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-----|------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| Antimony | <0.0030 | | 0.0030 | | mg/L | | 09/02/22 07:45 | 09/08/22 23:21 | 1 |
| Arsenic | <0.0010 | | 0.0010 | | mg/L | | 09/02/22 07:45 | 09/08/22 23:21 | 1 |
| Barium | <0.0025 | | 0.0025 | | mg/L | | 09/02/22 07:45 | 09/08/22 23:21 | 1 |
| Beryllium | <0.0010 | | 0.0010 | | mg/L | | 09/02/22 07:45 | 09/08/22 23:21 | 1 |
| Cadmium | <0.00050 | | 0.00050 | | mg/L | | 09/02/22 07:45 | 09/08/22 23:21 | 1 |
| Calcium | <0.20 | | 0.20 | | mg/L | | 09/02/22 07:45 | 09/08/22 23:21 | 1 |
| Chromium | <0.0050 | | 0.0050 | | mg/L | | 09/02/22 07:45 | 09/08/22 23:21 | 1 |
| Cobalt | <0.0010 | | 0.0010 | | mg/L | | 09/02/22 07:45 | 09/08/22 23:21 | 1 |
| Lead | <0.00050 | | 0.00050 | | mg/L | | 09/02/22 07:45 | 09/08/22 23:21 | 1 |
| Molybdenum | <0.0050 | | 0.0050 | | mg/L | | 09/02/22 07:45 | 09/08/22 23:21 | 1 |
| Selenium | <0.0025 | | 0.0025 | | mg/L | | 09/02/22 07:45 | 09/08/22 23:21 | 1 |
| Thallium | <0.0020 | | 0.0020 | | mg/L | | 09/02/22 07:45 | 09/08/22 23:21 | 1 |

Lab Sample ID: MB 500-672889/1-A
Matrix: Water
Analysis Batch: 674091

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 672889

| Analyte | MB | MB | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-------|-----|------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| Boron | <0.050 | | 0.050 | | mg/L | | 09/02/22 07:45 | 09/09/22 15:39 | 1 |
| Lithium | <0.010 | | 0.010 | | mg/L | | 09/02/22 07:45 | 09/09/22 15:39 | 1 |

Lab Sample ID: LCS 500-672889/2-A
Matrix: Water
Analysis Batch: 673884

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 672889

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|------------|-------------|------------|---------------|------|---|------|-------------|
| | | | | | | | |
| Arsenic | 0.100 | 0.0969 | | mg/L | | 97 | 80 - 120 |
| Barium | 0.500 | 0.514 | | mg/L | | 103 | 80 - 120 |
| Beryllium | 0.0500 | 0.0525 | | mg/L | | 105 | 80 - 120 |
| Cadmium | 0.0500 | 0.0489 | | mg/L | | 98 | 80 - 120 |
| Calcium | 10.0 | 10.3 | | mg/L | | 103 | 80 - 120 |
| Chromium | 0.200 | 0.207 | | mg/L | | 103 | 80 - 120 |
| Cobalt | 0.500 | 0.512 | | mg/L | | 102 | 80 - 120 |
| Lead | 0.100 | 0.105 | | mg/L | | 105 | 80 - 120 |
| Molybdenum | 1.00 | 0.952 | | mg/L | | 95 | 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: LCS 500-672889/2-A
Matrix: Water
Analysis Batch: 674091

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 672889

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------|-------------|------------|---------------|------|---|------|-------------|
| | | | | | | | |
| Lithium | 0.100 | 0.106 | | mg/L | | 106 | 80 - 120 |

QC Sample Results

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

Job ID: 500-221556-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-673830/12-A
Matrix: Water
Analysis Batch: 674169

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 673830

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|--------------|---------|-----|------|---|----------------|----------------|---------|
| Mercury | <0.00020 | | 0.00020 | | mg/L | | 09/09/22 09:20 | 09/12/22 07:35 | 1 |

Lab Sample ID: LCS 500-673830/13-A
Matrix: Water
Analysis Batch: 674169

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 673830

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------|-------------|------------|---------------|------|---|------|-------------|
| Mercury | 0.00200 | 0.00190 | | mg/L | | 95 | 80 - 120 |

Lab Sample ID: 500-221556-7 MS
Matrix: Water
Analysis Batch: 674169

Client Sample ID: MW-11
Prep Type: Total/NA
Prep Batch: 673830

| 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: 500-221556-7 MSD
Matrix: Water
Analysis Batch: 674169

Client Sample ID: MW-11
Prep Type: Total/NA
Prep Batch: 673830

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| Mercury | <0.00020 | | 0.00100 | 0.000993 | | mg/L | | 99 | 75 - 125 | 2 | 20 |

Lab Sample ID: 500-221556-7 DU
Matrix: Water
Analysis Batch: 674169

Client Sample ID: MW-11
Prep Type: Total/NA
Prep Batch: 673830

| 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 500-673325/1
Matrix: Water
Analysis Batch: 673325

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 | | | 09/06/22 17:40 | 1 |

Lab Sample ID: LCS 500-673325/2
Matrix: Water
Analysis Batch: 673325

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 | 290 | | mg/L | | 116 | 80 - 120 |

QC Sample Results

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

Job ID: 500-221556-1

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

Lab Sample ID: MB 500-673533/1
Matrix: Water
Analysis Batch: 673533

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 | | | 09/07/22 18:30 | 1 |

Lab Sample ID: LCS 500-673533/2
Matrix: Water
Analysis Batch: 673533

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 | 260 | | mg/L | | 104 | 80 - 120 |

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 500-672805/58
Matrix: Water
Analysis Batch: 672805

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 | | | 09/01/22 12:38 | 1 |

Lab Sample ID: LCS 500-672805/59
Matrix: Water
Analysis Batch: 672805

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 | 20.7 | | mg/L | | 104 | 85 - 115 |

Lab Sample ID: MB 500-673960/16
Matrix: Water
Analysis Batch: 673960

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 | | | 09/09/22 17:23 | 1 |

Lab Sample ID: LCS 500-673960/17
Matrix: Water
Analysis Batch: 673960

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 |

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-674042/3
Matrix: Water
Analysis Batch: 674042

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 | | | 09/10/22 13:12 | 1 |

QC Sample Results

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

Job ID: 500-221556-1

Method: SM 4500 F C - Fluoride (Continued)

Lab Sample ID: LCS 500-674042/4
Matrix: Water
Analysis Batch: 674042

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 | 10.3 | | mg/L | | 103 | 90 - 119 |

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 500-672849/16
Matrix: Water
Analysis Batch: 672849

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 | | | 09/01/22 14:37 | 1 |

Lab Sample ID: LCS 500-672849/17
Matrix: Water
Analysis Batch: 672849

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 | 21.4 | | mg/L | | 107 | 88 - 123 |

Lab Sample ID: MB 500-673965/16
Matrix: Water
Analysis Batch: 673965

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 | | | 09/09/22 19:01 | 1 |

Lab Sample ID: LCS 500-673965/17
Matrix: Water
Analysis Batch: 673965

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 | 20.9 | | mg/L | | 105 | 88 - 123 |

Eurofins Chicago

241 Bond Street
 University Park IL 60484
 Phone 708-534 5200 Fax 708-534 5214

Chain of Custody Record

MKE 232

eurofins

| | | | | | | | | | | |
|---|--|--|-------------|--|---|---|----------|--|---------------------------|-------------------------|
| Client Information | | Sampler <i>Kaelyn Sperle</i> | | Lab PM Mockler Diana J | | Carrier Tracking No's | | COC No 500-104267-43259 | | |
| Client Contact Mitchel Dolan | | Phone <i>262-278-1621</i> | | E-Mail Diana.Mockler@eurofins.com | | State of Origin <i>IL</i> | | Page Page 1 of 1 | | |
| Company KPRG and Associates Inc | | Address 14665 West Lisbon Road Suite 1A Brookfield WI 53005 | | Due Date Requested <i>Standard</i> | | Analysis Requested | | Job # <i>500-221556</i> | | |
| Phone 262 781-0475(Te.) | | FAX 500-221556 COC | | TAT Requested (days) <i>Standard</i> | | Compliance Project <input type="checkbox"/> Yes <input type="checkbox"/> No | | Preservation Codes | | |
| Project Name Poweron CCR Event Desc Quarterly Poweron CCR Sampling | | Project # 50011612 | | PO # 4502081030 | | WF # | | A HCL M Hexane B NaOH N None C Zn Acetate U AsNaO2 D Nitric Acid Na2O4S E NaHSO4 J Na2S J3 F MeOH R Na2S2O3 G Amchlor S H2O4 H Ascorbic Acid T TSP Dodecylhydrate I Acetone J DI Water V MCAA K EDTA W pH 4.5 L ELA Y Trizma Z Other (specify) | | |
| Site Illinois | | SSOW# | | Field Filtered Sample (Yes or No) | | Perform MS/MSD (Yes or No) | | Total Number of Containers | | |
| Sample Identification | | Sample Date | Sample Time | Sample Type (C=Comp, G=grab) | Matrix (W=water, S=solid, O=wastewater) | D | D | N | N | |
| | | | | Preservation Code | | | | | Special Instructions/Note | |
| <i>1</i> MW-01 | | <i>8/30/22</i> | <i>0932</i> | <i>G</i> | Water | <i>NN</i> | <i>X</i> | <i>X</i> | <i>X</i> | |
| <i>2</i> MW-08 | | <i>8/30/22</i> | <i>1413</i> | <i>G</i> | Water | <i>NN</i> | <i>X</i> | <i>X</i> | <i>X</i> | |
| MW-09 | | | | | Water | | | | | |
| MW-11 | | | | | Water | | | | | |
| MW-12 | | | | | Water | | | | | |
| MW-15 | | | | | Water | | | | | |
| <i>3</i> MW-18 | | <i>8/30/22</i> | <i>1520</i> | <i>G</i> | Water | <i>NN</i> | <i>X</i> | <i>X</i> | <i>X</i> | |
| <i>4</i> MW-19 | | <i>8/30/22</i> | <i>1556</i> | <i>G</i> | Water | <i>NN</i> | <i>X</i> | <i>X</i> | <i>X</i> | |
| MW-20 | | | | | Water | | | | | |
| <i>5</i> Duplicate | | <i>8/30/22</i> | <i>-</i> | <i>G</i> | Water | <i>NN</i> | <i>X</i> | <i>X</i> | <i>X</i> | |
| | | | | | 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 | | | | | |
| Entry Kit Relinquished by | | Date | | Time | | Method of Shipment | | | | |
| Relinquished by <i>Kaelyn Sperle</i> | | Date/Time <i>8/30/22/1645</i> | | Company <i>KPRG</i> | | Received by <i>FedEx</i> | | Date/Time <i>8/30/22/1645</i> | | Company <i>FedEx</i> |
| Relinquished by | | Date/Time | | Company | | Received by <i>Shirley Scott</i> | | Date/Time <i>8/31/22 0930</i> | | Company <i>EPRI</i> |
| Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No | | Custody Seal No | | Cooler Temperature(s) °C and Other Parameters <i>28-70, 3, 5, 3-740</i> | | | | | | |



500-221556 Waybi

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

SHIP DATE: 30AUG22
ACTWGT: 50.85 LB
CAD: 6994780/SSFE2322
DIMS: 24x13x13 IN

WESTMONT, IL 60559
UNITED STATES US

BILL THIRD PARTY

TO **EUROFINS**

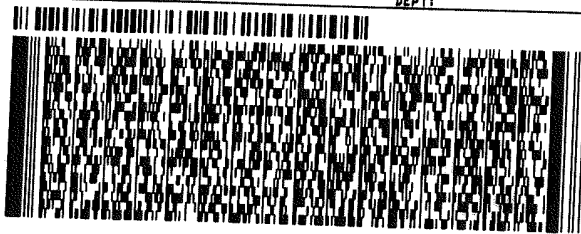
2417 BOND ST.

UNIVERSITY PARK IL 60484

(666) 666-6666

REF:

DEPT:



FedEx
Express



REL#
3785346

5 of 6

MPS# 2774 0693 6126
0263

Mstr# 2774 0693 6089

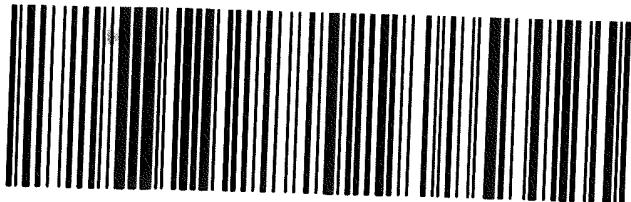
XN JOTA

WED - 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: 30AUG22
ACTWGT: 50.85 LB
CAD: 6994780/SSFE2322
DIMS: 24x13x13 IN

BILL THIRD PARTY

WESTMONT, IL 60559
UNITED STATES US

ROFINS

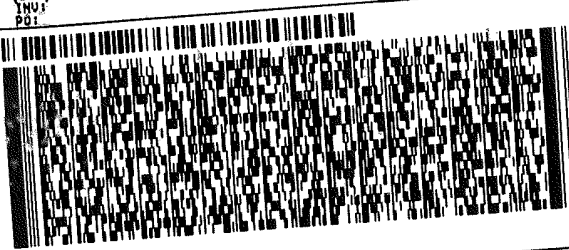
417 BOND ST.

UNIVERSITY PARK IL 60484

(666) 666-6666

REF:

DEPT:



FedEx
Express



REL#
3785346

6 of 6

MPS# 2774 0693 6137
0263

Mstr# 2774 0693 6089

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Part # 156297-435 RRDB? EXP 04/23

Part # 156297-435 RRDB? EXP 04/23

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SHIP DATE: 31AUG22
ACTWGT: 48.00 LB
CAD: 6994780/SSFE2322
DIMS: 24x13x13 IN
BILL THIRD PARTY

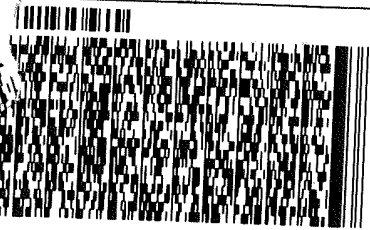
Part # 156297-433 RHDB2 EXP 04/23

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AGO

PARK IL 60484

REF:

DEPT:



REL# 3785346

1 of 5

2774 5684 7044

MASTER

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PRIORITY OVERNIGHT

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

SHIP DATE: 31AUG22
ACTWGT: 48.00 LB
CAD: 6994780/SSFE2322
DIMS: 24x13x13 IN
BILL THIRD PARTY

500-221556 Waybi

Part # 156297-433 RHDB2 EXP 04/23

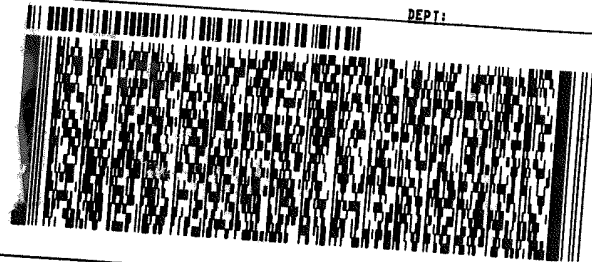
TO EUROFINS CHICAGO
EUROFINS CHICAGO
2417 BOND ST

UNIVERSITY PARK IL 60484

(708) 684-5200

REF:

DEPT:



REL# 3785346

3 of 5

MPS# 2774 5684 7066
0263

Metr# 2774 5684 7044

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Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-221556-1

Login Number: 221556

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 | 0.3,4.0,5.9,0.9 |
| 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

Job ID: 500-221556-1

Client Sample ID: MW-01
Date Collected: 08/30/22 09:32
Date Received: 08/31/22 09:30

Lab Sample ID: 500-221556-1
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-------------------|------------|---------------|-----|-----------------|--------------|---------|---------|--|
| Total Recoverable | Prep | 3005A | | | 672889 | BDE | EET CHI | 09/02/22 07:45 - 09/02/22 08:15 ¹ |
| Total Recoverable | Analysis | 6020A | | 1 | 673884 | FXG | EET CHI | 09/08/22 23:34 |
| Total Recoverable | Prep | 3005A | | | 672889 | BDE | EET CHI | 09/02/22 07:45 - 09/02/22 08:15 ¹ |
| Total Recoverable | Analysis | 6020A | | 1 | 674091 | FXG | EET CHI | 09/09/22 16:17 |
| Total/NA | Prep | 7470A | | | 673830 | MJG | EET CHI | 09/09/22 09:20 - 09/09/22 11:20 ¹ |
| Total/NA | Analysis | 7470A | | 1 | 674169 | MJG | EET CHI | 09/12/22 08:16 |
| Total/NA | Analysis | SM 2540C | | 1 | 673325 | SMO | EET CHI | 09/06/22 17:42 |
| Total/NA | Analysis | SM 4500 CI- E | | 2 | 672805 | LP | EET CHI | 09/01/22 12:40 |
| Total/NA | Analysis | SM 4500 F C | | 1 | 674042 | EAT | EET CHI | 09/10/22 13:54 |
| Total/NA | Analysis | SM 4500 SO4 E | | 2 | 672849 | LP | EET CHI | 09/01/22 15:00 |

Client Sample ID: MW-08
Date Collected: 08/30/22 14:13
Date Received: 08/31/22 09:30

Lab Sample ID: 500-221556-2
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-------------------|------------|---------------|-----|-----------------|--------------|---------|---------|--|
| Total Recoverable | Prep | 3005A | | | 672889 | BDE | EET CHI | 09/02/22 07:45 - 09/02/22 08:15 ¹ |
| Total Recoverable | Analysis | 6020A | | 1 | 673884 | FXG | EET CHI | 09/08/22 23:38 |
| Total Recoverable | Prep | 3005A | | | 672889 | BDE | EET CHI | 09/02/22 07:45 - 09/02/22 08:15 ¹ |
| Total Recoverable | Analysis | 6020A | | 1 | 674091 | FXG | EET CHI | 09/09/22 16:20 |
| Total/NA | Prep | 7470A | | | 673830 | MJG | EET CHI | 09/09/22 09:20 - 09/09/22 11:20 ¹ |
| Total/NA | Analysis | 7470A | | 1 | 674169 | MJG | EET CHI | 09/12/22 08:18 |
| Total/NA | Analysis | SM 2540C | | 1 | 673325 | SMO | EET CHI | 09/06/22 17:43 |
| Total/NA | Analysis | SM 4500 CI- E | | 10 | 672805 | LP | EET CHI | 09/01/22 12:40 |
| Total/NA | Analysis | SM 4500 F C | | 1 | 674042 | EAT | EET CHI | 09/10/22 13:57 |
| Total/NA | Analysis | SM 4500 SO4 E | | 2 | 672849 | LP | EET CHI | 09/01/22 15:00 |

Client Sample ID: MW-18
Date Collected: 08/30/22 15:20
Date Received: 08/31/22 09:30

Lab Sample ID: 500-221556-3
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-------------------|------------|---------------|-----|-----------------|--------------|---------|---------|--|
| Total Recoverable | Prep | 3005A | | | 672889 | BDE | EET CHI | 09/02/22 07:45 - 09/02/22 08:15 ¹ |
| Total Recoverable | Analysis | 6020A | | 1 | 673884 | FXG | EET CHI | 09/08/22 23:41 |
| Total Recoverable | Prep | 3005A | | | 672889 | BDE | EET CHI | 09/02/22 07:45 - 09/02/22 08:15 ¹ |
| Total Recoverable | Analysis | 6020A | | 1 | 674091 | FXG | EET CHI | 09/09/22 16:24 |
| Total/NA | Prep | 7470A | | | 673830 | MJG | EET CHI | 09/09/22 09:20 - 09/09/22 11:20 ¹ |
| Total/NA | Analysis | 7470A | | 1 | 674169 | MJG | EET CHI | 09/12/22 08:20 |
| Total/NA | Analysis | SM 2540C | | 1 | 673325 | SMO | EET CHI | 09/06/22 17:45 |
| Total/NA | Analysis | SM 4500 CI- E | | 10 | 672805 | LP | EET CHI | 09/01/22 12:41 |
| Total/NA | Analysis | SM 4500 F C | | 1 | 674042 | EAT | EET CHI | 09/10/22 13:59 |
| Total/NA | Analysis | SM 4500 SO4 E | | 10 | 672849 | LP | EET CHI | 09/01/22 15:01 |

Lab Chronicle

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

Job ID: 500-221556-1

Client Sample ID: MW-19
Date Collected: 08/30/22 15:56
Date Received: 08/31/22 09:30

Lab Sample ID: 500-221556-4
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-------------------|------------|---------------|-----|-----------------|--------------|---------|---------|--|
| Total Recoverable | Prep | 3005A | | | 672889 | BDE | EET CHI | 09/02/22 07:45 - 09/02/22 08:15 ¹ |
| Total Recoverable | Analysis | 6020A | | 1 | 673884 | FXG | EET CHI | 09/08/22 23:45 |
| Total Recoverable | Prep | 3005A | | | 672889 | BDE | EET CHI | 09/02/22 07:45 - 09/02/22 08:15 ¹ |
| Total Recoverable | Analysis | 6020A | | 1 | 674091 | FXG | EET CHI | 09/09/22 16:27 |
| Total/NA | Prep | 7470A | | | 673830 | MJG | EET CHI | 09/09/22 09:20 - 09/09/22 11:20 ¹ |
| Total/NA | Analysis | 7470A | | 1 | 674169 | MJG | EET CHI | 09/12/22 08:22 |
| Total/NA | Analysis | SM 2540C | | 1 | 673325 | SMO | EET CHI | 09/06/22 17:46 |
| Total/NA | Analysis | SM 4500 Cl- E | | 10 | 672805 | LP | EET CHI | 09/01/22 13:59 |
| Total/NA | Analysis | SM 4500 F C | | 1 | 674042 | EAT | EET CHI | 09/10/22 14:03 |
| Total/NA | Analysis | SM 4500 SO4 E | | 5 | 672849 | LP | EET CHI | 09/01/22 14:44 |

Client Sample ID: Duplicate
Date Collected: 08/30/22 00:00
Date Received: 08/31/22 09:30

Lab Sample ID: 500-221556-5
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-------------------|------------|---------------|-----|-----------------|--------------|---------|---------|--|
| Total Recoverable | Prep | 3005A | | | 672889 | BDE | EET CHI | 09/02/22 07:45 - 09/02/22 08:15 ¹ |
| Total Recoverable | Analysis | 6020A | | 1 | 673884 | FXG | EET CHI | 09/08/22 23:48 |
| Total Recoverable | Prep | 3005A | | | 672889 | BDE | EET CHI | 09/02/22 07:45 - 09/02/22 08:15 ¹ |
| Total Recoverable | Analysis | 6020A | | 10 | 674091 | FXG | EET CHI | 09/09/22 16:31 |
| Total Recoverable | Prep | 3005A | | | 672889 | BDE | EET CHI | 09/02/22 07:45 - 09/02/22 08:15 ¹ |
| Total Recoverable | Analysis | 6020A | | 1 | 674440 | FXG | EET CHI | 09/13/22 13:08 |
| Total/NA | Prep | 7470A | | | 673830 | MJG | EET CHI | 09/09/22 09:20 - 09/09/22 11:20 ¹ |
| Total/NA | Analysis | 7470A | | 1 | 674169 | MJG | EET CHI | 09/12/22 08:24 |
| Total/NA | Analysis | SM 2540C | | 1 | 673325 | SMO | EET CHI | 09/06/22 17:47 |
| Total/NA | Analysis | SM 4500 Cl- E | | 10 | 672805 | LP | EET CHI | 09/01/22 12:41 |
| Total/NA | Analysis | SM 4500 F C | | 1 | 674042 | EAT | EET CHI | 09/10/22 14:06 |
| Total/NA | Analysis | SM 4500 SO4 E | | 10 | 672849 | LP | EET CHI | 09/01/22 14:45 |

Client Sample ID: MW-09
Date Collected: 08/31/22 09:03
Date Received: 09/01/22 09:30

Lab Sample ID: 500-221556-6
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-------------------|------------|---------------|-----|-----------------|--------------|---------|---------|--|
| Total Recoverable | Prep | 3005A | | | 672889 | BDE | EET CHI | 09/02/22 07:45 - 09/02/22 08:15 ¹ |
| Total Recoverable | Analysis | 6020A | | 1 | 673884 | FXG | EET CHI | 09/08/22 23:52 |
| Total Recoverable | Prep | 3005A | | | 672889 | BDE | EET CHI | 09/02/22 07:45 - 09/02/22 08:15 ¹ |
| Total Recoverable | Analysis | 6020A | | 10 | 674091 | FXG | EET CHI | 09/09/22 16:34 |
| Total Recoverable | Prep | 3005A | | | 672889 | BDE | EET CHI | 09/02/22 07:45 - 09/02/22 08:15 ¹ |
| Total Recoverable | Analysis | 6020A | | 1 | 674440 | FXG | EET CHI | 09/13/22 13:12 |
| Total/NA | Prep | 7470A | | | 673830 | MJG | EET CHI | 09/09/22 09:20 - 09/09/22 11:20 ¹ |
| Total/NA | Analysis | 7470A | | 1 | 674169 | MJG | EET CHI | 09/12/22 08:26 |
| Total/NA | Analysis | SM 2540C | | 1 | 673533 | SMO | EET CHI | 09/07/22 18:43 |
| Total/NA | Analysis | SM 4500 Cl- E | | 2 | 673960 | LP | EET CHI | 09/09/22 17:28 |

Eurofins Chicago

Lab Chronicle

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

Job ID: 500-221556-1

Client Sample ID: MW-09
Date Collected: 08/31/22 09:03
Date Received: 09/01/22 09:30

Lab Sample ID: 500-221556-6
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|---------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA | Analysis | SM 4500 F C | | 1 | 674042 | EAT | EET CHI | 09/10/22 14:08 |
| Total/NA | Analysis | SM 4500 SO4 E | | 10 | 673965 | LP | EET CHI | 09/09/22 19:07 |

Client Sample ID: MW-11
Date Collected: 08/31/22 10:14
Date Received: 09/01/22 09:30

Lab Sample ID: 500-221556-7
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-------------------|------------|---------------|-----|-----------------|--------------|---------|---------|--|
| Total Recoverable | Prep | 3005A | | | 672889 | BDE | EET CHI | 09/02/22 07:45 - 09/02/22 08:15 ¹ |
| Total Recoverable | Analysis | 6020A | | 1 | 673884 | FXG | EET CHI | 09/09/22 00:02 |
| Total Recoverable | Prep | 3005A | | | 672889 | BDE | EET CHI | 09/02/22 07:45 - 09/02/22 08:15 ¹ |
| Total Recoverable | Analysis | 6020A | | 5 | 674091 | FXG | EET CHI | 09/09/22 16:37 |
| Total Recoverable | Prep | 3005A | | | 672889 | BDE | EET CHI | 09/02/22 07:45 - 09/02/22 08:15 ¹ |
| Total Recoverable | Analysis | 6020A | | 1 | 674440 | FXG | EET CHI | 09/13/22 13:15 |
| Total/NA | Prep | 7470A | | | 673830 | MJG | EET CHI | 09/09/22 09:20 - 09/09/22 11:20 ¹ |
| Total/NA | Analysis | 7470A | | 1 | 674169 | MJG | EET CHI | 09/12/22 08:33 |
| Total/NA | Analysis | SM 2540C | | 1 | 673533 | SMO | EET CHI | 09/07/22 18:44 |
| Total/NA | Analysis | SM 4500 CI- E | | 10 | 673960 | LP | EET CHI | 09/09/22 17:29 |
| Total/NA | Analysis | SM 4500 F C | | 1 | 674042 | EAT | EET CHI | 09/10/22 14:17 |
| Total/NA | Analysis | SM 4500 SO4 E | | 10 | 673965 | LP | EET CHI | 09/09/22 19:08 |

Client Sample ID: MW-12
Date Collected: 08/31/22 11:25
Date Received: 09/01/22 09:30

Lab Sample ID: 500-221556-8
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-------------------|------------|---------------|-----|-----------------|--------------|---------|---------|--|
| Total Recoverable | Prep | 3005A | | | 672889 | BDE | EET CHI | 09/02/22 07:45 - 09/02/22 08:15 ¹ |
| Total Recoverable | Analysis | 6020A | | 1 | 673884 | FXG | EET CHI | 09/09/22 00:05 |
| Total Recoverable | Prep | 3005A | | | 672889 | BDE | EET CHI | 09/02/22 07:45 - 09/02/22 08:15 ¹ |
| Total Recoverable | Analysis | 6020A | | 1 | 674091 | FXG | EET CHI | 09/09/22 16:41 |
| Total/NA | Prep | 7470A | | | 673830 | MJG | EET CHI | 09/09/22 09:20 - 09/09/22 11:20 ¹ |
| Total/NA | Analysis | 7470A | | 1 | 674169 | MJG | EET CHI | 09/12/22 08:41 |
| Total/NA | Analysis | SM 2540C | | 1 | 673533 | SMO | EET CHI | 09/07/22 18:46 |
| Total/NA | Analysis | SM 4500 CI- E | | 10 | 673960 | LP | EET CHI | 09/09/22 17:29 |
| Total/NA | Analysis | SM 4500 F C | | 1 | 674042 | EAT | EET CHI | 09/10/22 14:20 |
| Total/NA | Analysis | SM 4500 SO4 E | | 10 | 673965 | LP | EET CHI | 09/09/22 19:08 |

Client Sample ID: MW-15
Date Collected: 08/31/22 12:31
Date Received: 09/01/22 09:30

Lab Sample ID: 500-221556-9
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-------------------|------------|--------------|-----|-----------------|--------------|---------|---------|--|
| Total Recoverable | Prep | 3005A | | | 672889 | BDE | EET CHI | 09/02/22 07:45 - 09/02/22 08:15 ¹ |
| Total Recoverable | Analysis | 6020A | | 1 | 673884 | FXG | EET CHI | 09/09/22 00:09 |

Lab Chronicle

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

Job ID: 500-221556-1

Client Sample ID: MW-15

Lab Sample ID: 500-221556-9

Date Collected: 08/31/22 12:31

Matrix: Water

Date Received: 09/01/22 09:30

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-------------------|------------|---------------|-----|-----------------|--------------|---------|---------|--|
| Total Recoverable | Prep | 3005A | | | 672889 | BDE | EET CHI | 09/02/22 07:45 - 09/02/22 08:15 ¹ |
| Total Recoverable | Analysis | 6020A | | 5 | 674091 | FXG | EET CHI | 09/09/22 16:44 |
| Total Recoverable | Prep | 3005A | | | 672889 | BDE | EET CHI | 09/02/22 07:45 - 09/02/22 08:15 ¹ |
| Total Recoverable | Analysis | 6020A | | 1 | 674440 | FXG | EET CHI | 09/13/22 13:19 |
| Total/NA | Prep | 7470A | | | 673830 | MJG | EET CHI | 09/09/22 09:20 - 09/09/22 11:20 ¹ |
| Total/NA | Analysis | 7470A | | 1 | 674169 | MJG | EET CHI | 09/12/22 08:43 |
| Total/NA | Analysis | SM 2540C | | 1 | 673533 | SMO | EET CHI | 09/07/22 18:47 |
| Total/NA | Analysis | SM 4500 Cl- E | | 10 | 673960 | LP | EET CHI | 09/09/22 17:29 |
| Total/NA | Analysis | SM 4500 F C | | 1 | 674042 | EAT | EET CHI | 09/10/22 14:22 |
| Total/NA | Analysis | SM 4500 SO4 E | | 50 | 673965 | LP | EET CHI | 09/09/22 19:08 |

Client Sample ID: MW-17

Lab Sample ID: 500-221556-10

Date Collected: 08/31/22 14:04

Matrix: Water

Date Received: 09/01/22 09:30

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-------------------|------------|---------------|-----|-----------------|--------------|---------|---------|--|
| Total Recoverable | Prep | 3005A | | | 672889 | BDE | EET CHI | 09/02/22 07:45 - 09/02/22 08:15 ¹ |
| Total Recoverable | Analysis | 6020A | | 1 | 673884 | FXG | EET CHI | 09/09/22 00:12 |
| Total Recoverable | Prep | 3005A | | | 672889 | BDE | EET CHI | 09/02/22 07:45 - 09/02/22 08:15 ¹ |
| Total Recoverable | Analysis | 6020A | | 5 | 674091 | FXG | EET CHI | 09/09/22 16:48 |
| Total Recoverable | Prep | 3005A | | | 672889 | BDE | EET CHI | 09/02/22 07:45 - 09/02/22 08:15 ¹ |
| Total Recoverable | Analysis | 6020A | | 1 | 674538 | FXG | EET CHI | 09/13/22 19:04 |
| Total/NA | Prep | 7470A | | | 673830 | MJG | EET CHI | 09/09/22 09:20 - 09/09/22 11:20 ¹ |
| Total/NA | Analysis | 7470A | | 1 | 674169 | MJG | EET CHI | 09/12/22 08:45 |
| Total/NA | Analysis | SM 2540C | | 1 | 673533 | SMO | EET CHI | 09/07/22 18:48 |
| Total/NA | Analysis | SM 4500 Cl- E | | 10 | 673960 | LP | EET CHI | 09/09/22 17:30 |
| Total/NA | Analysis | SM 4500 F C | | 1 | 674042 | EAT | EET CHI | 09/10/22 14:25 |
| Total/NA | Analysis | SM 4500 SO4 E | | 50 | 673965 | LP | EET CHI | 09/09/22 19:09 |

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

Job ID: 500-221556-1

Laboratory: Eurofins Chicago

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

| Authority | Program | Identification Number | Expiration Date |
|-----------|---------|-----------------------|-----------------|
| Illinois | NELAP | IL00035 | 04-30-23 |

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ANALYTICAL REPORT

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-221556-2
Client Project/Site: Powerton CCR (RAD)

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

Attn: Richard Gnat



Authorized for release by:
10/5/2022 11:10:32 AM

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

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Case Narrative

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

Job ID: 500-221556-2

Job ID: 500-221556-2

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-221556-2

Comments

No additional comments.

Receipt

The samples were received on 8/31/2022 9:30 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 0.3° C, 0.9° C, 4.0° C and 5.9° C.

RAD

Methods 903.0, 9315: Radium-226 batch 581008

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 (500-221556-1), MW-08 (500-221556-2), MW-18 (500-221556-3), MW-19 (500-221556-4), Duplicate (500-221556-5), MW-09 (500-221556-6), MW-11 (500-221556-7), MW-12 (500-221556-8), MW-15 (500-221556-9), MW-17 (500-221556-10), (LCS 160-581008/2-A), (MB 160-581008/1-A) and (500-221556-E-1-A DU)

Methods 904.0, 9320: Radium-228 batch 582886

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 (500-221556-1), MW-08 (500-221556-2), MW-18 (500-221556-3), MW-19 (500-221556-4), Duplicate (500-221556-5), MW-09 (500-221556-6), MW-11 (500-221556-7), MW-12 (500-221556-8), MW-15 (500-221556-9), MW-17 (500-221556-10), (LCS 160-582886/2-A), (MB 160-582886/1-A) and (500-221556-E-2-A DU)

Method PrecSep_0:

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: 500-221556-2

| 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: 500-221556-2

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 500-221556-1 | MW-01 | Water | 08/30/22 09:32 | 08/31/22 09:30 |
| 500-221556-2 | MW-08 | Water | 08/30/22 14:13 | 08/31/22 09:30 |
| 500-221556-3 | MW-18 | Water | 08/30/22 15:20 | 08/31/22 09:30 |
| 500-221556-4 | MW-19 | Water | 08/30/22 15:56 | 08/31/22 09:30 |
| 500-221556-5 | Duplicate | Water | 08/30/22 00:00 | 08/31/22 09:30 |
| 500-221556-6 | MW-09 | Water | 08/31/22 09:03 | 09/01/22 09:30 |
| 500-221556-7 | MW-11 | Water | 08/31/22 10:14 | 09/01/22 09:30 |
| 500-221556-8 | MW-12 | Water | 08/31/22 11:25 | 09/01/22 09:30 |
| 500-221556-9 | MW-15 | Water | 08/31/22 12:31 | 09/01/22 09:30 |
| 500-221556-10 | MW-17 | Water | 08/31/22 14:04 | 09/01/22 09:30 |

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Client Sample Results

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

Job ID: 500-221556-2

Client Sample ID: MW-01

Lab Sample ID: 500-221556-1

Date Collected: 08/30/22 09:32

Matrix: Water

Date Received: 08/31/22 09:30

Method: 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.0340 | U | 0.0579 | 0.0580 | 1.00 | 0.102 | pCi/L | 09/06/22 15:03 | 09/28/22 14:43 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 92.6 | | 40 - 110 | | | | | 09/06/22 15:03 | 09/28/22 14:43 | 1 |

Method: 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.594 | | 0.346 | 0.350 | 1.00 | 0.498 | pCi/L | 09/20/22 15:24 | 09/30/22 12:04 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 91.9 | | 40 - 110 | | | | | 09/20/22 15:24 | 09/30/22 12:04 | 1 |
| Y Carrier | 84.9 | | 40 - 110 | | | | | 09/20/22 15:24 | 09/30/22 12:04 | 1 |

Method: 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 | 0.628 | | 0.351 | 0.355 | 5.00 | 0.498 | pCi/L | | 10/03/22 13:21 | 1 |

Client Sample Results

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

Job ID: 500-221556-2

Client Sample ID: MW-08
Date Collected: 08/30/22 14:13
Date Received: 08/31/22 09:30

Lab Sample ID: 500-221556-2
Matrix: Water

Method: 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|-------------------|--------------|-----------|-----------------------------|-----------------------------|------|--------|-------|----------------|----------------|---------|
| Radium-226 | 0.150 | | 0.0788 | 0.0800 | 1.00 | 0.0930 | pCi/L | 09/06/22 15:03 | 09/28/22 14:44 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 93.1 | | 40 - 110 | | | | | 09/06/22 15:03 | 09/28/22 14:44 | 1 |

Method: 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|-------------------|--------------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.709 | | 0.363 | 0.369 | 1.00 | 0.505 | pCi/L | 09/20/22 15:24 | 09/30/22 12:04 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 88.9 | | 40 - 110 | | | | | 09/20/22 15:24 | 09/30/22 12:04 | 1 |
| Y Carrier | 85.6 | | 40 - 110 | | | | | 09/20/22 15:24 | 09/30/22 12:04 | 1 |

Method: 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 | 0.859 | | 0.371 | 0.378 | 5.00 | 0.505 | pCi/L | | 10/03/22 13:21 | 1 |

Client Sample Results

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

Job ID: 500-221556-2

Client Sample ID: MW-18
Date Collected: 08/30/22 15:20
Date Received: 08/31/22 09:30

Lab Sample ID: 500-221556-3
Matrix: Water

Method: 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|--------|-------|----------------|----------------|---------|
| Radium-226 | 0.173 | | 0.0865 | 0.0879 | 1.00 | 0.0959 | pCi/L | 09/06/22 15:03 | 09/28/22 14:44 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 84.2 | | 40 - 110 | | | | | 09/06/22 15:03 | 09/28/22 14:44 | 1 |

Method: 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.472 | U | 0.329 | 0.332 | 1.00 | 0.491 | pCi/L | 09/20/22 15:24 | 09/30/22 12:04 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 85.5 | | 40 - 110 | | | | | 09/20/22 15:24 | 09/30/22 12:04 | 1 |
| Y Carrier | 85.6 | | 40 - 110 | | | | | 09/20/22 15:24 | 09/30/22 12:04 | 1 |

Method: 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 | 0.645 | | 0.340 | 0.343 | 5.00 | 0.491 | pCi/L | | 10/03/22 13:21 | 1 |

Client Sample Results

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

Job ID: 500-221556-2

Client Sample ID: MW-19

Lab Sample ID: 500-221556-4

Date Collected: 08/30/22 15:56

Matrix: Water

Date Received: 08/31/22 09:30

Method: 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.253 | | 0.101 | 0.104 | 1.00 | 0.109 | pCi/L | 09/06/22 15:03 | 09/28/22 14:44 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 95.3 | | 40 - 110 | | | | | 09/06/22 15:03 | 09/28/22 14:44 | 1 |

Method: 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.187 | U | 0.259 | 0.260 | 1.00 | 0.436 | pCi/L | 09/20/22 15:24 | 09/30/22 12:04 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 89.2 | | 40 - 110 | | | | | 09/20/22 15:24 | 09/30/22 12:04 | 1 |
| Y Carrier | 87.5 | | 40 - 110 | | | | | 09/20/22 15:24 | 09/30/22 12:04 | 1 |

Method: 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 | 0.440 | | 0.278 | 0.280 | 5.00 | 0.436 | pCi/L | | 10/03/22 13:21 | 1 |

Client Sample Results

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

Job ID: 500-221556-2

Client Sample ID: Duplicate
Date Collected: 08/30/22 00:00
Date Received: 08/31/22 09:30

Lab Sample ID: 500-221556-5
Matrix: Water

Method: 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|--------|-------|----------------|----------------|---------|
| Radium-226 | 0.0526 | U | 0.0583 | 0.0585 | 1.00 | 0.0932 | pCi/L | 09/06/22 15:03 | 09/28/22 14:44 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 97.0 | | 40 - 110 | | | | | 09/06/22 15:03 | 09/28/22 14:44 | 1 |

Method: 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|-------------------|--------------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.678 | | 0.339 | 0.345 | 1.00 | 0.465 | pCi/L | 09/20/22 15:24 | 09/30/22 12:08 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 94.6 | | 40 - 110 | | | | | 09/20/22 15:24 | 09/30/22 12:08 | 1 |
| Y Carrier | 87.5 | | 40 - 110 | | | | | 09/20/22 15:24 | 09/30/22 12:08 | 1 |

Method: 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 | 0.731 | | 0.344 | 0.350 | 5.00 | 0.465 | pCi/L | | 10/03/22 13:21 | 1 |

Client Sample Results

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

Job ID: 500-221556-2

Client Sample ID: MW-09
Date Collected: 08/31/22 09:03
Date Received: 09/01/22 09:30

Lab Sample ID: 500-221556-6
Matrix: Water

Method: 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | -0.00325 | U | 0.0452 | 0.0452 | 1.00 | 0.101 | pCi/L | 09/06/22 15:03 | 09/28/22 14:44 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 83.7 | | 40 - 110 | | | | | 09/06/22 15:03 | 09/28/22 14:44 | 1 |

Method: 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.139 | U | 0.263 | 0.263 | 1.00 | 0.458 | pCi/L | 09/20/22 15:24 | 09/30/22 12:08 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 91.6 | | 40 - 110 | | | | | 09/20/22 15:24 | 09/30/22 12:08 | 1 |
| Y Carrier | 86.7 | | 40 - 110 | | | | | 09/20/22 15:24 | 09/30/22 12:08 | 1 |

Method: 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 | 0.136 | U | 0.267 | 0.267 | 5.00 | 0.458 | pCi/L | | 10/03/22 13:21 | 1 |

Client Sample Results

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

Job ID: 500-221556-2

Client Sample ID: MW-11

Lab Sample ID: 500-221556-7

Date Collected: 08/31/22 10:14

Matrix: Water

Date Received: 09/01/22 09:30

Method: 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.286 | | 0.103 | 0.106 | 1.00 | 0.101 | pCi/L | 09/06/22 15:03 | 09/28/22 17:04 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 93.8 | | 40 - 110 | | | | | 09/06/22 15:03 | 09/28/22 17:04 | 1 |

Method: 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.751 | | 0.371 | 0.378 | 1.00 | 0.511 | pCi/L | 09/20/22 15:24 | 09/30/22 12:08 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 90.9 | | 40 - 110 | | | | | 09/20/22 15:24 | 09/30/22 12:08 | 1 |
| Y Carrier | 86.4 | | 40 - 110 | | | | | 09/20/22 15:24 | 09/30/22 12:08 | 1 |

Method: 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 | 1.04 | | 0.385 | 0.393 | 5.00 | 0.511 | pCi/L | | 10/03/22 13:21 | 1 |

Client Sample Results

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

Job ID: 500-221556-2

Client Sample ID: MW-12
Date Collected: 08/31/22 11:25
Date Received: 09/01/22 09:30

Lab Sample ID: 500-221556-8
Matrix: Water

Method: 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.386 | | 0.117 | 0.122 | 1.00 | 0.102 | pCi/L | 09/06/22 15:03 | 09/28/22 17:04 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 92.3 | | 40 - 110 | | | | | 09/06/22 15:03 | 09/28/22 17:04 | 1 |

Method: 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.232 | U | 0.337 | 0.338 | 1.00 | 0.569 | pCi/L | 09/20/22 15:24 | 09/30/22 12:09 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 86.5 | | 40 - 110 | | | | | 09/20/22 15:24 | 09/30/22 12:09 | 1 |
| Y Carrier | 86.4 | | 40 - 110 | | | | | 09/20/22 15:24 | 09/30/22 12:09 | 1 |

Method: 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 | 0.618 | | 0.357 | 0.359 | 5.00 | 0.569 | pCi/L | | 10/03/22 13:21 | 1 |

Client Sample Results

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

Job ID: 500-221556-2

Client Sample ID: MW-15

Lab Sample ID: 500-221556-9

Date Collected: 08/31/22 12:31

Matrix: Water

Date Received: 09/01/22 09:30

Method: 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|--------|-------|----------------|----------------|---------|
| Radium-226 | 0.0868 | U | 0.0682 | 0.0686 | 1.00 | 0.0982 | pCi/L | 09/06/22 15:03 | 09/28/22 17:04 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 95.3 | | 40 - 110 | | | | | 09/06/22 15:03 | 09/28/22 17:04 | 1 |

Method: 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.284 | U | 0.334 | 0.335 | 1.00 | 0.550 | pCi/L | 09/20/22 15:24 | 09/30/22 12:09 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 88.9 | | 40 - 110 | | | | | 09/20/22 15:24 | 09/30/22 12:09 | 1 |
| Y Carrier | 86.7 | | 40 - 110 | | | | | 09/20/22 15:24 | 09/30/22 12:09 | 1 |

Method: 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 | 0.371 | U | 0.341 | 0.342 | 5.00 | 0.550 | pCi/L | | 10/03/22 13:21 | 1 |

Client Sample Results

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

Job ID: 500-221556-2

Client Sample ID: MW-17

Lab Sample ID: 500-221556-10

Date Collected: 08/31/22 14:04

Matrix: Water

Date Received: 09/01/22 09:30

Method: 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|--------|-------|----------------|----------------|---------|
| Radium-226 | 0.0193 | U | 0.0492 | 0.0492 | 1.00 | 0.0925 | pCi/L | 09/06/22 15:03 | 09/28/22 17:05 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 94.6 | | 40 - 110 | | | | | 09/06/22 15:03 | 09/28/22 17:05 | 1 |

Method: 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.172 | U | 0.309 | 0.309 | 1.00 | 0.533 | pCi/L | 09/20/22 15:24 | 09/30/22 12:09 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 82.1 | | 40 - 110 | | | | | 09/20/22 15:24 | 09/30/22 12:09 | 1 |
| Y Carrier | 87.9 | | 40 - 110 | | | | | 09/20/22 15:24 | 09/30/22 12:09 | 1 |

Method: 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 | 0.191 | U | 0.313 | 0.313 | 5.00 | 0.533 | pCi/L | | 10/03/22 13:21 | 1 |

Definitions/Glossary

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

Job ID: 500-221556-2

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: 500-221556-2

Rad

Prep Batch: 581008

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|------------|------------|
| 500-221556-1 | MW-01 | Total/NA | Water | PrecSep-21 | |
| 500-221556-2 | MW-08 | Total/NA | Water | PrecSep-21 | |
| 500-221556-3 | MW-18 | Total/NA | Water | PrecSep-21 | |
| 500-221556-4 | MW-19 | Total/NA | Water | PrecSep-21 | |
| 500-221556-5 | Duplicate | Total/NA | Water | PrecSep-21 | |
| 500-221556-6 | MW-09 | Total/NA | Water | PrecSep-21 | |
| 500-221556-7 | MW-11 | Total/NA | Water | PrecSep-21 | |
| 500-221556-8 | MW-12 | Total/NA | Water | PrecSep-21 | |
| 500-221556-9 | MW-15 | Total/NA | Water | PrecSep-21 | |
| 500-221556-10 | MW-17 | Total/NA | Water | PrecSep-21 | |
| MB 160-581008/1-A | Method Blank | Total/NA | Water | PrecSep-21 | |
| LCS 160-581008/2-A | Lab Control Sample | Total/NA | Water | PrecSep-21 | |
| 500-221556-1 DU | MW-01 | Total/NA | Water | PrecSep-21 | |

Prep Batch: 582886

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|-----------|------------|
| 500-221556-1 | MW-01 | Total/NA | Water | PrecSep_0 | |
| 500-221556-2 | MW-08 | Total/NA | Water | PrecSep_0 | |
| 500-221556-3 | MW-18 | Total/NA | Water | PrecSep_0 | |
| 500-221556-4 | MW-19 | Total/NA | Water | PrecSep_0 | |
| 500-221556-5 | Duplicate | Total/NA | Water | PrecSep_0 | |
| 500-221556-6 | MW-09 | Total/NA | Water | PrecSep_0 | |
| 500-221556-7 | MW-11 | Total/NA | Water | PrecSep_0 | |
| 500-221556-8 | MW-12 | Total/NA | Water | PrecSep_0 | |
| 500-221556-9 | MW-15 | Total/NA | Water | PrecSep_0 | |
| 500-221556-10 | MW-17 | Total/NA | Water | PrecSep_0 | |
| MB 160-582886/1-A | Method Blank | Total/NA | Water | PrecSep_0 | |
| LCS 160-582886/2-A | Lab Control Sample | Total/NA | Water | PrecSep_0 | |
| 500-221556-2 DU | MW-08 | Total/NA | Water | PrecSep_0 | |

QC Sample Results

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

Job ID: 500-221556-2

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-581008/1-A
Matrix: Water
Analysis Batch: 583796

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 581008

| Analyte | MB MB | | Count | Total | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|-----------------|-----------------|------|----------------|----------------|----------------|----------------|---------|
| | Result | Qualifier | Uncert. (2σ+/-) | Uncert. (2σ+/-) | | | | | | |
| Radium-226 | -0.02655 | U | 0.0369 | 0.0370 | 1.00 | 0.0964 | pCi/L | 09/06/22 15:03 | 09/28/22 14:43 | 1 |
| Carrier | MB MB | | Limits | | | Prepared | Analyzed | Dil Fac | | |
| | %Yield | Qualifier | | | | | | | | |
| Ba Carrier | 99.0 | | 40 - 110 | | | 09/06/22 15:03 | 09/28/22 14:43 | 1 | | |

Lab Sample ID: LCS 160-581008/2-A
Matrix: Water
Analysis Batch: 583796

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 581008

| Analyte | Spike Added | LCS Result | LCS Qual | Total | RL | MDC | Unit | %Rec | %Rec Limits |
|------------|-------------|---------------|----------|-----------------|------|----------|----------|---------|-------------|
| | | | | Uncert. (2σ+/-) | | | | | |
| Radium-226 | 11.3 | 9.855 | | 1.03 | 1.00 | 0.0904 | pCi/L | 87 | 75 - 125 |
| Carrier | LCS %Yield | LCS Qualifier | Limits | | | Prepared | Analyzed | Dil Fac | |
| | | | | | | | | | |
| Ba Carrier | 98.0 | | 40 - 110 | | | | | | |

Lab Sample ID: 500-221556-1 DU
Matrix: Water
Analysis Batch: 583796

Client Sample ID: MW-01
Prep Type: Total/NA
Prep Batch: 581008

| Analyte | Sample Sample | | DU | DU | Total | RL | MDC | Unit | RER | RER Limit |
|------------|---------------|--------------|----------|------|-----------------|----------|----------|---------|------|-----------|
| | Result | Qual | Result | Qual | Uncert. (2σ+/-) | | | | | |
| Radium-226 | 0.0340 | U | 0.06580 | U | 0.0615 | 1.00 | 0.0913 | pCi/L | 0.27 | 1 |
| Carrier | DU %Yield | DU Qualifier | Limits | | | Prepared | Analyzed | Dil Fac | | |
| | | | | | | | | | | |
| Ba Carrier | 88.9 | | 40 - 110 | | | | | | | |

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-582886/1-A
Matrix: Water
Analysis Batch: 584234

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 582886

| Analyte | MB MB | | Count | Total | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------|-----------------|------|----------------|----------------|----------------|----------------|---------|
| | Result | Qualifier | Uncert. (2σ+/-) | Uncert. (2σ+/-) | | | | | | |
| Radium-228 | 0.4739 | U | 0.321 | 0.324 | 1.00 | 0.476 | pCi/L | 09/20/22 15:24 | 09/30/22 12:03 | 1 |
| Carrier | MB MB | | Limits | | | Prepared | Analyzed | Dil Fac | | |
| | %Yield | Qualifier | | | | | | | | |
| Ba Carrier | 88.0 | | 40 - 110 | | | 09/20/22 15:24 | 09/30/22 12:03 | 1 | | |
| Y Carrier | 86.4 | | 40 - 110 | | | 09/20/22 15:24 | 09/30/22 12:03 | 1 | | |

QC Sample Results

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

Job ID: 500-221556-2

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

Lab Sample ID: LCS 160-582886/2-A
Matrix: Water
Analysis Batch: 584234

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 582886

| Analyte | Spike Added | LCS Result | LCS Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec Limits | | | | | | | | | | | | | | | | | |
|--|-------------|------------|----------|-----------------------|------|-------|-------|------|-------------|--|-----|--|-----|--|---------|--------|-----------|--------|------------|------|--|----------|-----------|------|--|----------|
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Radium-228 | 8.24 | 9.668 | | 1.32 | 1.00 | 0.545 | pCi/L | 117 | 75 - 125 | | | | | | | | | | | | | | | | | |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">LCS</th> <th colspan="2">LCS</th> </tr> <tr> <th>Carrier</th> <th>%Yield</th> <th>Qualifier</th> <th>Limits</th> </tr> </thead> <tbody> <tr> <td>Ba Carrier</td> <td>83.0</td> <td></td> <td>40 - 110</td> </tr> <tr> <td>Y Carrier</td> <td>86.4</td> <td></td> <td>40 - 110</td> </tr> </tbody> </table> | | | | | | | | | | | LCS | | LCS | | Carrier | %Yield | Qualifier | Limits | Ba Carrier | 83.0 | | 40 - 110 | Y Carrier | 86.4 | | 40 - 110 |
| LCS | | LCS | | | | | | | | | | | | | | | | | | | | | | | | |
| Carrier | %Yield | Qualifier | Limits | | | | | | | | | | | | | | | | | | | | | | | |
| Ba Carrier | 83.0 | | 40 - 110 | | | | | | | | | | | | | | | | | | | | | | | |
| Y Carrier | 86.4 | | 40 - 110 | | | | | | | | | | | | | | | | | | | | | | | |

Lab Sample ID: 500-221556-2 DU
Matrix: Water
Analysis Batch: 584234

Client Sample ID: MW-08
Prep Type: Total/NA
Prep Batch: 582886

| Analyte | Sample Result | Sample Qual | DU Result | DU Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | RER | RER Limit | | | | | | | | | | | | | | | | |
|--|---------------|-------------|-----------|---------|-----------------------|------|-------|-------|-----|-----------|----|--|----|--|---------|--------|-----------|--------|------------|------|--|----------|-----------|------|--|----------|
| | | | | | | | | | | 0 | 1 | | | | | | | | | | | | | | | |
| Radium-228 | 0.709 | | 0.7090 | | 0.335 | 1.00 | 0.440 | pCi/L | | | | | | | | | | | | | | | | | | |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">DU</th> <th colspan="2">DU</th> </tr> <tr> <th>Carrier</th> <th>%Yield</th> <th>Qualifier</th> <th>Limits</th> </tr> </thead> <tbody> <tr> <td>Ba Carrier</td> <td>98.0</td> <td></td> <td>40 - 110</td> </tr> <tr> <td>Y Carrier</td> <td>85.6</td> <td></td> <td>40 - 110</td> </tr> </tbody> </table> | | | | | | | | | | | DU | | DU | | Carrier | %Yield | Qualifier | Limits | Ba Carrier | 98.0 | | 40 - 110 | Y Carrier | 85.6 | | 40 - 110 |
| DU | | DU | | | | | | | | | | | | | | | | | | | | | | | | |
| Carrier | %Yield | Qualifier | Limits | | | | | | | | | | | | | | | | | | | | | | | |
| Ba Carrier | 98.0 | | 40 - 110 | | | | | | | | | | | | | | | | | | | | | | | |
| Y Carrier | 85.6 | | 40 - 110 | | | | | | | | | | | | | | | | | | | | | | | |

Eurofins Chicago

241 Bond Street
 University Park IL 60484
 Phone 708-534 5200 Fax 708-534 5214

Chain of Custody Record

MKE 232

eurofins

| | | | | | | | | | | |
|---|--|--|--|--|---|---|--|---|--|------------------|
| Client Information | | Sampler <i>Kaelyn Sperle</i> | | Lab PM Mockler Diana J | | Carrier Tracking No's | | COC No 500-104267-43259 | | |
| Client Contact Mitchel Dolan | | Phone <i>262-278-1621</i> | | E-Mail Diana.Mockler@eurofins.com | | State of Origin <i>IL</i> | | Page Page 1 of 1 | | |
| Company KPRG and Associates Inc | | Address 14665 West Lisbon Road Suite 1A Brookfield WI 53005 | | Due Date Requested <i>Standard</i> | | Analysis Requested | | Job # <i>500-221556</i> | | |
| Phone 262 781-0475(Te.) | | City Brookfield | | TAT Requested (days) <i>Standard</i> | | Compliance Project <input type="checkbox"/> Yes <input type="checkbox"/> No | | Preservation Codes | | |
| Firm mitcheld@kprginc.com | | State Zip WI 53005 | | PO # 4502081030 | | Matrix (W=water, S=solid, O=wastewater) | | A HCL M Hexane B NaOH N None C Zn Acetate U AsNaO2 D Nitric Acid Na2O4S E NaHSO4 J Na2S J3 F MeOH R Na2S2O3 G Amchlor S H2O4 H Ascorbic Acid T TSP Dodecylhydrate I Ice V MCAA J DI Water W pH 4.5 K EDTA Y Trizma L ELA Z Other (specify) | | |
| Project Name Powerton CCR Event Desc Quarterly Powerton CCR Sampling | | Project # 50011612 | | SSOW# | | Field Filtered Sample (Yes or No) | | Total Number of Containers | | |
| Site Illinois | | Sample Date | | Sample Time | | Sample Type (C=Comp, G=grab) | | Special Instructions/Note | | |
| Sample Identification | | Sample Date | | Sample Time | | Sample Type (C=Comp, G=grab) | | Matrix (W=water, S=solid, O=wastewater) | | |
| | | | | | | | | 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, SM4500_CL_E, SM4500_SO4_E | | |
| | | | | | | | | SM4500 SO4_E Sulfate | | |
| | | | | | | | | D D N N | | |
| MW-01 | | 8/30/22 | | 0932 | | G | | Water | | |
| MW 08 | | 8/30/22 | | 1413 | | G | | Water | | |
| MW 09 | | | | | | | | Water | | |
| MW 11 | | | | | | | | Water | | |
| MW 12 | | | | | | | | Water | | |
| MW 15 | | | | | | | | Water | | |
| 3 MW 18 | | 8/30/22 | | 1520 | | G | | Water | | |
| 4 MW 19 | | 8/30/22 | | 1556 | | G | | Water | | |
| 5 Duplicate | | 8/30/22 | | - | | G | | 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 | | | | | |
| Entry Kit Relinquished by | | Date | | Time | | Method of Shipment | | | | |
| Relinquished by <i>Kaelyn Sperle</i> | | Date/Time 8/30/22/1645 | | Company KPRG | | Received by <i>Shirley Scott</i> | | Date/Time 8/30/22/1645 | | Company FedEx |
| Relinquished by | | Date/Time | | Company | | Received by | | Date/Time | | Company |
| Requested 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 Parameters <i>28-70, 3, 5, 3-740</i> | | | | | | |



500-221556 Waybi

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

SHIP DATE: 30AUG22
ACTWGT: 50.85 LB
CAD: 6994780/SSFE2322
DIMS: 24x13x13 IN

WESTMONT, IL 60559
UNITED STATES US

BILL THIRD PARTY

TO **EUROFINS**

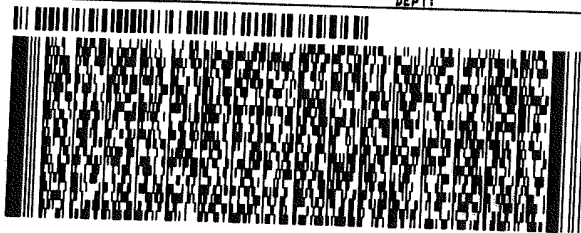
2417 BOND ST.

UNIVERSITY PARK IL 60484

(666) 666-6666

REF:

DEPT:



FedEx
Express



REL#
3785346

5 of 6

MPS# 2774 0693 6126
0263

Mstr# 2774 0693 6089

XN JOTA

WED - 31 AUG 10:30A
PRIORITY OVERNIGHT
AHS
60484

0201

IL-US ORD



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

SHIP DATE: 30AUG22
ACTWGT: 50.85 LB
CAD: 6994780/SSFE2322
DIMS: 24x13x13 IN

BILL THIRD PARTY

WESTMONT, IL 60559
UNITED STATES US

ROFINS

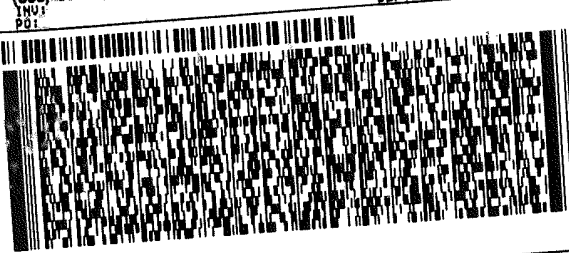
417 BOND ST.

UNIVERSITY PARK IL 60484

(666) 666-6666

REF:

DEPT:



FedEx
Express



REL#
3785346

6 of 6

MPS# 2774 0693 6137
0263

Mstr# 2774 0693 6089

XN JOTA

0201

WED - 31 AUG 10:30A
PRIORITY OVERNIGHT
AHS
60484
IL-US ORD



Part # 156297-435 RRDB? EXP 04/23

Part # 156297-435 RRDB? EXP 04/23

SHIP DATE: 31AUG22
ACTWGT: 48.00 LB
CAD: 6994780/SSFE2322
DIMS: 24x13x13 IN
BILL THIRD PARTY

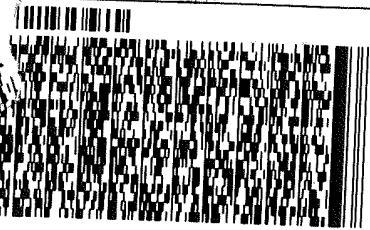
Part # 156297-433 RHDB2 EXP 04/23

AGO
AGO

PARK IL 60484

REF:

DEPT:



REL# 3785346

1 of 5

2774 5684 7044

MASTER

XN JOTA

THU - 01 SEP 10:30A
PRIORITY OVERNIGHT

AHS
60484

IL-US ORD



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

SHIP DATE: 31AUG22
ACTWGT: 48.00 LB
CAD: 6994780/SSFE2322
DIMS: 24x13x13 IN
BILL THIRD PARTY

500-221556 Waybi

Part # 156297-433 RHDB2 EXP 04/23

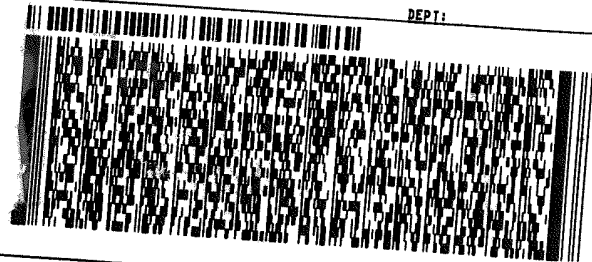
TO EUROFINS CHICAGO
EUROFINS CHICAGO
2417 BOND ST

UNIVERSITY PARK IL 60484

(708) 684-5200

REF:

DEPT:



REL# 3785346

3 of 5

MPS# 2774 5684 7066
0263

Metr# 2774 5684 7044

XN JOTA

THU - 01 SEP 10:30A
PRIORITY OVERNIGHT

AHS
60484

IL-US ORD



Chain of Custody Record



| Client Information (Sub Contract Lab) | | Lab PM: Mockler, Diana J | | Carrier Tracking No(s): | | COC No: 500-164793.1 | |
|---|--|---|--|---|--|---|--|
| 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 | | Job #: 500-221556-2 | | Preservation Codes: | |
| Address: 13715 Rider Trail North, | | Due Date Requested: 9/21/2022 | | Analysis Requested | | M - Hexane | |
| City: Earth City | | TAT Requested (days): | | Field Filtered Sample (Yes or No) | | N - None | |
| State/Zip: MO, 63045 | | PO #: | | 903.0/Precep_21 Standard Target List | | O - AsNaO2 | |
| Phone: 314-298-8566(Tel) 314-298-8757(Fax) | | WO #: | | 904.0/Precep_0 Standard Target List | | P - Na2O4S | |
| Email: | | Project #: | | 903.0/Precep_21 Standard Target List | | Q - Na2SO3 | |
| Project Name: Powerton CCR (RAD) | | 50011612 | | Performance MS/MSD (Yes or No) | | R - NaHSO4 | |
| Site: MWG - Powerton | | SSOW#: | | Field Filtered Sample (Yes or No) | | S - H2SO4 | |
| Sample Identification - Client ID (Lab ID) | | Sample Date | | Sample Time | | T - TSP Dodecahydrate | |
| Sample Type (C=Comp, G=grab) | | Sample Date | | Sample Time | | U - Acetone | |
| Matrix (Water, Sealed, Onwateroil, B1+Issue, A+Air) | | Sample Date | | Sample Time | | V - MCAA | |
| Preservation Code: | | Sample Date | | Sample Time | | W - pH 4-5 | |
| MW-01 (500-221556-1) | | 8/30/22 | | 09:32 Central | | Y - Trizma | |
| MW-08 (500-221556-2) | | 8/30/22 | | 14:13 Central | | Z - other (specify) | |
| MW-18 (500-221556-3) | | 8/30/22 | | 15:20 Central | | Total Number of containers | |
| MW-19 (500-221556-4) | | 8/30/22 | | 15:56 Central | | 3 | |
| Duplicate (500-221556-5) | | 8/30/22 | | Central | | 3 | |
| Special Instructions/Note: | | Special Instructions/Note: | | Special Instructions/Note: | | 3 | |
| 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 | |
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| 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/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
 Special Instructions/QC Requirements:

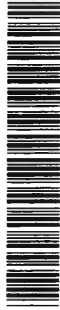
Empty Kit Relinquished by: _____ Date: _____
 Relinquished by: _____ Date/Time: 8/31/22 14:15
 Relinquished by: _____ Date/Time: _____
 Custody Seals Intact: _____ Custody Seal No.: _____
 Δ Yes Δ No

Method of Shipment: _____
 Date/Time: _____
 Received by: *Autumn R. Johnson*
 Date/Time: 01 SEP 2022 08:57C
 Company: *RAJTC*

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:



Chain of Custody Record



| | | | | | |
|--|-----------------------------------|--|--|------------------------------|---|
| Client Information (Sub Contract Lab) | | Lab PM: Mockler, Diana J | Carrier Tracking No(s): 500-164823.1 | | |
| Shipping/Receiving | | E-Mail: Diana.Mockler@et.eurofins.com | Page: Page 1 of 1 | | |
| Company: TestAmerica Laboratories, Inc. | | State of Origin: Illinois | Job #: 500-221556-1 | | |
| Address: 13715 Rider Trail North, | | Accreditations Required (See note): NELAP - Illinois | | | |
| City: Earth City | Due Date Requested: 9/21/2022 | Analysis Requested Total Number of Containers: 3 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: | | | |
| State, Zip: MO, 63045 | TAT Requested (days): | | | | |
| Phone: 314-298-8566(Tel) 314-298-8757(Fax) | PO #: | | | | |
| Email: | WO #: | | | | |
| Project Name: Powerton CCR | Project #: | | | | |
| Site: MWG - Powerton | SSOW#: | | | | |
| Sample Date | Sample Time | | | Sample Type (C=comp, G=grab) | Matrix (Weather, Sealed, Open, Biotic, A-M) |
| 8/31/22 | 09:03 Central | | | | Water |
| 8/31/22 | 10:14 Central | | | | Water |
| 8/31/22 | 11:25 Central | | | | Water |
| 8/31/22 | 12:31 Central | | Water | | |
| 8/31/22 | 14:04 Central | | Water | | |
| Sample Identification - Client ID (Lab ID) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | Special Instructions/Note: | | |
| MW-09 (500-221556-6) | X | X | Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume; | | |
| MW-11 (500-221556-7) | X | X | Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume; | | |
| MW-12 (500-221556-8) | X | X | Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume; | | |
| MW-15 (500-221556-9) | X | X | Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume; | | |
| MW-17 (500-221556-10) | X | X | Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume; | | |

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
 Special Instructions/QC Requirements: _____
 Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Empty Kit Relinquished by: _____ Date: _____ Time: _____
 Relinquished by: *Patricia Buckley* Date/Time: 9/1/22 1600 Company: *ETA*
 Relinquished by: **FED EX** Date/Time: _____ Company: _____
 Relinquished by: *Autumn R. Johnson* Date/Time: _____ Company: _____
 Custody Seal No.: _____ Custody Seal No.: _____
 Cooler Temperature(s) °C and Other Remarks: _____



Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-221556-2

Login Number: 221556

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 | 0.3,4.0,5.9,0.9 |
| 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: 500-221556-2

Login Number: 221556

List Number: 2

Creator: Booker, Autumn R

List Source: Eurofins St. Louis

List Creation: 09/01/22 10:59 AM

| 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: 500-221556-2

Login Number: 221556

List Number: 3

Creator: Booker, Autumn R

List Source: Eurofins St. Louis

List Creation: 09/02/22 11:54 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 (RAD)

Job ID: 500-221556-2

Client Sample ID: MW-01
Date Collected: 08/30/22 09:32
Date Received: 08/31/22 09:30

Lab Sample ID: 500-221556-1
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|--------|----------------------|
| Total/NA | Prep | PrecSep-21 | | | 581008 | TJ | EET SL | 09/06/22 15:03 |
| Total/NA | Analysis | 903.0 | | 1 | 583796 | CLP | EET SL | 09/28/22 14:43 |
| Total/NA | Prep | PrecSep_0 | | | 582886 | MLK | EET SL | 09/20/22 15:24 |
| Total/NA | Analysis | 904.0 | | 1 | 584234 | FLC | EET SL | 09/30/22 12:04 |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | 584450 | CAH | EET SL | 10/03/22 13:21 |

Client Sample ID: MW-08
Date Collected: 08/30/22 14:13
Date Received: 08/31/22 09:30

Lab Sample ID: 500-221556-2
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|--------|----------------------|
| Total/NA | Prep | PrecSep-21 | | | 581008 | TJ | EET SL | 09/06/22 15:03 |
| Total/NA | Analysis | 903.0 | | 1 | 583796 | CLP | EET SL | 09/28/22 14:44 |
| Total/NA | Prep | PrecSep_0 | | | 582886 | MLK | EET SL | 09/20/22 15:24 |
| Total/NA | Analysis | 904.0 | | 1 | 584234 | FLC | EET SL | 09/30/22 12:04 |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | 584450 | CAH | EET SL | 10/03/22 13:21 |

Client Sample ID: MW-18
Date Collected: 08/30/22 15:20
Date Received: 08/31/22 09:30

Lab Sample ID: 500-221556-3
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|--------|----------------------|
| Total/NA | Prep | PrecSep-21 | | | 581008 | TJ | EET SL | 09/06/22 15:03 |
| Total/NA | Analysis | 903.0 | | 1 | 583796 | CLP | EET SL | 09/28/22 14:44 |
| Total/NA | Prep | PrecSep_0 | | | 582886 | MLK | EET SL | 09/20/22 15:24 |
| Total/NA | Analysis | 904.0 | | 1 | 584234 | FLC | EET SL | 09/30/22 12:04 |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | 584450 | CAH | EET SL | 10/03/22 13:21 |

Client Sample ID: MW-19
Date Collected: 08/30/22 15:56
Date Received: 08/31/22 09:30

Lab Sample ID: 500-221556-4
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|--------|----------------------|
| Total/NA | Prep | PrecSep-21 | | | 581008 | TJ | EET SL | 09/06/22 15:03 |
| Total/NA | Analysis | 903.0 | | 1 | 583796 | CLP | EET SL | 09/28/22 14:44 |
| Total/NA | Prep | PrecSep_0 | | | 582886 | MLK | EET SL | 09/20/22 15:24 |
| Total/NA | Analysis | 904.0 | | 1 | 584234 | FLC | EET SL | 09/30/22 12:04 |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | 584450 | CAH | EET SL | 10/03/22 13:21 |

Lab Chronicle

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

Job ID: 500-221556-2

Client Sample ID: Duplicate
Date Collected: 08/30/22 00:00
Date Received: 08/31/22 09:30

Lab Sample ID: 500-221556-5
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|--------|----------------------|
| Total/NA | Prep | PrecSep-21 | | | 581008 | TJ | EET SL | 09/06/22 15:03 |
| Total/NA | Analysis | 903.0 | | 1 | 583796 | CLP | EET SL | 09/28/22 14:44 |
| Total/NA | Prep | PrecSep_0 | | | 582886 | MLK | EET SL | 09/20/22 15:24 |
| Total/NA | Analysis | 904.0 | | 1 | 584224 | FLC | EET SL | 09/30/22 12:08 |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | 584450 | CAH | EET SL | 10/03/22 13:21 |

Client Sample ID: MW-09
Date Collected: 08/31/22 09:03
Date Received: 09/01/22 09:30

Lab Sample ID: 500-221556-6
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|--------|----------------------|
| Total/NA | Prep | PrecSep-21 | | | 581008 | TJ | EET SL | 09/06/22 15:03 |
| Total/NA | Analysis | 903.0 | | 1 | 583796 | CLP | EET SL | 09/28/22 14:44 |
| Total/NA | Prep | PrecSep_0 | | | 582886 | MLK | EET SL | 09/20/22 15:24 |
| Total/NA | Analysis | 904.0 | | 1 | 584224 | FLC | EET SL | 09/30/22 12:08 |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | 584450 | CAH | EET SL | 10/03/22 13:21 |

Client Sample ID: MW-11
Date Collected: 08/31/22 10:14
Date Received: 09/01/22 09:30

Lab Sample ID: 500-221556-7
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|--------|----------------------|
| Total/NA | Prep | PrecSep-21 | | | 581008 | TJ | EET SL | 09/06/22 15:03 |
| Total/NA | Analysis | 903.0 | | 1 | 583796 | CLP | EET SL | 09/28/22 17:04 |
| Total/NA | Prep | PrecSep_0 | | | 582886 | MLK | EET SL | 09/20/22 15:24 |
| Total/NA | Analysis | 904.0 | | 1 | 584224 | FLC | EET SL | 09/30/22 12:08 |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | 584450 | CAH | EET SL | 10/03/22 13:21 |

Client Sample ID: MW-12
Date Collected: 08/31/22 11:25
Date Received: 09/01/22 09:30

Lab Sample ID: 500-221556-8
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|--------|----------------------|
| Total/NA | Prep | PrecSep-21 | | | 581008 | TJ | EET SL | 09/06/22 15:03 |
| Total/NA | Analysis | 903.0 | | 1 | 583796 | CLP | EET SL | 09/28/22 17:04 |
| Total/NA | Prep | PrecSep_0 | | | 582886 | MLK | EET SL | 09/20/22 15:24 |
| Total/NA | Analysis | 904.0 | | 1 | 584224 | FLC | EET SL | 09/30/22 12:09 |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | 584450 | CAH | EET SL | 10/03/22 13:21 |

Lab Chronicle

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

Job ID: 500-221556-2

Client Sample ID: MW-15

Lab Sample ID: 500-221556-9

Date Collected: 08/31/22 12:31

Matrix: Water

Date Received: 09/01/22 09:30

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|--------|----------------------|
| Total/NA | Prep | PrecSep-21 | | | 581008 | TJ | EET SL | 09/06/22 15:03 |
| Total/NA | Analysis | 903.0 | | 1 | 583796 | CLP | EET SL | 09/28/22 17:04 |
| Total/NA | Prep | PrecSep_0 | | | 582886 | MLK | EET SL | 09/20/22 15:24 |
| Total/NA | Analysis | 904.0 | | 1 | 584224 | FLC | EET SL | 09/30/22 12:09 |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | 584450 | CAH | EET SL | 10/03/22 13:21 |

Client Sample ID: MW-17

Lab Sample ID: 500-221556-10

Date Collected: 08/31/22 14:04

Matrix: Water

Date Received: 09/01/22 09:30

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|--------|----------------------|
| Total/NA | Prep | PrecSep-21 | | | 581008 | TJ | EET SL | 09/06/22 15:03 |
| Total/NA | Analysis | 903.0 | | 1 | 583796 | CLP | EET SL | 09/28/22 17:05 |
| Total/NA | Prep | PrecSep_0 | | | 582886 | MLK | EET SL | 09/20/22 15:24 |
| Total/NA | Analysis | 904.0 | | 1 | 584224 | FLC | EET SL | 09/30/22 12:09 |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | 584450 | CAH | EET SL | 10/03/22 13:21 |

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: 500-221556-2

Laboratory: Eurofins St. Louis

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

| Authority | Program | Identification Number | Expiration Date |
|-----------|---------|-----------------------|-----------------|
| Illinois | NELAP | 200023 | 11-30-22 |

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Tracer/Carrier Summary

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

Job ID: 500-221556-2

Method: 903.0 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

| | | Percent Yield (Acceptance Limits) | |
|------------------------------|--------------------|-----------------------------------|--|
| Lab Sample ID | Client Sample ID | Ba (40-110) | |
| 500-221556-1 | MW-01 | 92.6 | |
| 500-221556-1 DU | MW-01 | 88.9 | |
| 500-221556-2 | MW-08 | 93.1 | |
| 500-221556-3 | MW-18 | 84.2 | |
| 500-221556-4 | MW-19 | 95.3 | |
| 500-221556-5 | Duplicate | 97.0 | |
| 500-221556-6 | MW-09 | 83.7 | |
| 500-221556-7 | MW-11 | 93.8 | |
| 500-221556-8 | MW-12 | 92.3 | |
| 500-221556-9 | MW-15 | 95.3 | |
| 500-221556-10 | MW-17 | 94.6 | |
| LCS 160-581008/2-A | Lab Control Sample | 98.0 | |
| MB 160-581008/1-A | Method Blank | 99.0 | |
| 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 (40-110) | Y (40-110) |
| 500-221556-1 | MW-01 | 91.9 | 84.9 |
| 500-221556-2 | MW-08 | 88.9 | 85.6 |
| 500-221556-2 DU | MW-08 | 98.0 | 85.6 |
| 500-221556-3 | MW-18 | 85.5 | 85.6 |
| 500-221556-4 | MW-19 | 89.2 | 87.5 |
| 500-221556-5 | Duplicate | 94.6 | 87.5 |
| 500-221556-6 | MW-09 | 91.6 | 86.7 |
| 500-221556-7 | MW-11 | 90.9 | 86.4 |
| 500-221556-8 | MW-12 | 86.5 | 86.4 |
| 500-221556-9 | MW-15 | 88.9 | 86.7 |
| 500-221556-10 | MW-17 | 82.1 | 87.9 |
| LCS 160-582886/2-A | Lab Control Sample | 83.0 | 86.4 |
| MB 160-582886/1-A | Method Blank | 88.0 | 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 12/20/2022 10:42:03 AM

JOB DESCRIPTION

Powerton CCR ABB/SB

JOB NUMBER

500-225519-1

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



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12/20/2022 10:42:03 AM

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/SB

Job ID: 500-225519-1

Job ID: 500-225519-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-225519-1

Comments

No additional comments.

Receipt

The samples were received on 11/16/2022 10:30 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 -2.3° C, 0.6° C, 1.1° C and 1.1° C.

Metals

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

General Chemistry

Methods 9038, SM 4500 SO4 E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 500-687313 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was 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/SB

Job ID: 500-225519-1

| 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 PEN |
| 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

EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Sample Summary

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

Job ID: 500-225519-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 500-225519-1 | MW-01 | Water | 11/15/22 09:56 | 11/16/22 10:30 |
| 500-225519-2 | MW-08 | Water | 11/15/22 12:22 | 11/16/22 10:30 |
| 500-225519-3 | MW-09 | Water | 11/15/22 13:18 | 11/16/22 10:30 |
| 500-225519-4 | MW-11 | Water | 11/15/22 16:20 | 11/16/22 10:30 |
| 500-225519-5 | MW-12 | Water | 11/15/22 15:16 | 11/16/22 10:30 |
| 500-225519-6 | MW-18 | Water | 11/16/22 09:45 | 11/17/22 10:10 |
| 500-225519-7 | MW-19 | Water | 11/16/22 08:45 | 11/17/22 10:10 |
| 500-225519-8 | Duplicate | Water | 11/16/22 00:00 | 11/17/22 10:10 |
| 500-225519-9 | MW-15 | Water | 11/16/22 10:30 | 11/18/22 10:00 |
| 500-225519-10 | MW-17 | Water | 11/16/22 12:20 | 11/18/22 10:00 |

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Client Sample Results

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

Job ID: 500-225519-1

Client Sample ID: MW-01

Lab Sample ID: 500-225519-1

Date Collected: 11/15/22 09:56

Matrix: Water

Date Received: 11/16/22 10:30

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 | | 12/01/22 09:40 | 12/01/22 18:29 | 1 |
| Arsenic | <0.0010 | | 0.0010 | | mg/L | | 12/01/22 09:40 | 12/01/22 18:29 | 1 |
| Barium | 0.088 | | 0.0025 | | mg/L | | 12/01/22 09:40 | 12/01/22 18:29 | 1 |
| Beryllium | <0.0010 | | 0.0010 | | mg/L | | 12/01/22 09:40 | 12/01/22 18:29 | 1 |
| Boron | 0.71 | | 0.050 | | mg/L | | 12/01/22 09:40 | 12/01/22 18:29 | 1 |
| Cadmium | <0.00050 | | 0.00050 | | mg/L | | 12/01/22 09:40 | 12/01/22 18:29 | 1 |
| Calcium | 110 | | 0.20 | | mg/L | | 12/01/22 09:40 | 12/01/22 18:29 | 1 |
| Chromium | <0.0050 | | 0.0050 | | mg/L | | 12/01/22 09:40 | 12/01/22 18:29 | 1 |
| Cobalt | <0.0010 | | 0.0010 | | mg/L | | 12/01/22 09:40 | 12/01/22 18:29 | 1 |
| Lead | <0.00050 | | 0.00050 | | mg/L | | 12/01/22 09:40 | 12/01/22 18:29 | 1 |
| Lithium | <0.010 | | 0.010 | | mg/L | | 12/01/22 09:40 | 12/01/22 18:29 | 1 |
| Molybdenum | <0.0050 | | 0.0050 | | mg/L | | 12/01/22 09:40 | 12/01/22 18:29 | 1 |
| Selenium | <0.0025 | | 0.0025 | | mg/L | | 12/01/22 09:40 | 12/01/22 18:29 | 1 |
| Thallium | <0.0020 | | 0.0020 | | mg/L | | 12/01/22 09:40 | 12/01/22 18:29 | 1 |

Method: SW846 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|----------|-----------|---------|-----|------|---|----------------|----------------|---------|
| Mercury | <0.00020 | | 0.00020 | | mg/L | | 11/22/22 10:10 | 11/23/22 06:17 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|-------------|-----------|------|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids (SM 2540C) | 520 | | 10 | | mg/L | | | 11/18/22 05:46 | 1 |
| Chloride (SM 4500 Cl- E) | 45 | | 4.0 | | mg/L | | | 11/30/22 12:45 | 2 |
| Fluoride (SM 4500 F C) | 0.10 | | 0.10 | | mg/L | | | 12/01/22 13:15 | 1 |
| Sulfate (SM 4500 SO4 E) | 44 | | 25 | | mg/L | | | 11/29/22 09:51 | 5 |

Client Sample Results

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

Job ID: 500-225519-1

Client Sample ID: MW-08
Date Collected: 11/15/22 12:22
Date Received: 11/16/22 10:30

Lab Sample ID: 500-225519-2
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 | | 12/01/22 09:40 | 12/01/22 18:47 | 1 |
| Arsenic | 0.0030 | | 0.0010 | | mg/L | | 12/01/22 09:40 | 12/01/22 18:47 | 1 |
| Barium | 0.13 | | 0.0025 | | mg/L | | 12/01/22 09:40 | 12/01/22 18:47 | 1 |
| Beryllium | <0.0010 | | 0.0010 | | mg/L | | 12/01/22 09:40 | 12/01/22 18:47 | 1 |
| Boron | 0.68 | | 0.050 | | mg/L | | 12/01/22 09:40 | 12/01/22 18:47 | 1 |
| Cadmium | <0.00050 | | 0.00050 | | mg/L | | 12/01/22 09:40 | 12/01/22 18:47 | 1 |
| Calcium | 130 | | 0.20 | | mg/L | | 12/01/22 09:40 | 12/01/22 18:47 | 1 |
| Chromium | <0.0050 | | 0.0050 | | mg/L | | 12/01/22 09:40 | 12/01/22 18:47 | 1 |
| Cobalt | <0.0010 | | 0.0010 | | mg/L | | 12/01/22 09:40 | 12/01/22 18:47 | 1 |
| Lead | <0.00050 | | 0.00050 | | mg/L | | 12/01/22 09:40 | 12/01/22 18:47 | 1 |
| Lithium | 0.023 | | 0.010 | | mg/L | | 12/01/22 09:40 | 12/01/22 18:47 | 1 |
| Molybdenum | 0.0083 | | 0.0050 | | mg/L | | 12/01/22 09:40 | 12/01/22 18:47 | 1 |
| Selenium | <0.0025 | | 0.0025 | | mg/L | | 12/01/22 09:40 | 12/01/22 18:47 | 1 |
| Thallium | <0.0020 | | 0.0020 | | mg/L | | 12/01/22 09:40 | 12/01/22 18:47 | 1 |

Method: SW846 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|----------|-----------|---------|-----|------|---|----------------|----------------|---------|
| Mercury | <0.00020 | | 0.00020 | | mg/L | | 11/22/22 10:10 | 11/23/22 06:19 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|-------------|-----------|------|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids (SM 2540C) | 780 | | 10 | | mg/L | | | 11/18/22 05:48 | 1 |
| Chloride (SM 4500 Cl- E) | 200 | | 20 | | mg/L | | | 11/30/22 12:46 | 10 |
| Fluoride (SM 4500 F C) | 0.45 | | 0.10 | | mg/L | | | 12/01/22 10:09 | 1 |
| Sulfate (SM 4500 SO4 E) | 41 | | 25 | | mg/L | | | 11/29/22 09:51 | 5 |

Client Sample Results

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

Job ID: 500-225519-1

Client Sample ID: MW-09
Date Collected: 11/15/22 13:18
Date Received: 11/16/22 10:30

Lab Sample ID: 500-225519-3
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 | | 12/01/22 09:40 | 12/01/22 18:50 | 1 |
| Arsenic | <0.0010 | | 0.0010 | | mg/L | | 12/01/22 09:40 | 12/01/22 18:50 | 1 |
| Barium | 0.039 | | 0.0025 | | mg/L | | 12/01/22 09:40 | 12/01/22 18:50 | 1 |
| Beryllium | <0.0010 | | 0.0010 | | mg/L | | 12/01/22 09:40 | 12/01/22 18:50 | 1 |
| Boron | 3.7 | | 0.050 | | mg/L | | 12/01/22 09:40 | 12/01/22 18:50 | 1 |
| Cadmium | <0.00050 | | 0.00050 | | mg/L | | 12/01/22 09:40 | 12/01/22 18:50 | 1 |
| Calcium | 77 | | 0.20 | | mg/L | | 12/01/22 09:40 | 12/01/22 18:50 | 1 |
| Chromium | <0.0050 | | 0.0050 | | mg/L | | 12/01/22 09:40 | 12/01/22 18:50 | 1 |
| Cobalt | <0.0010 | | 0.0010 | | mg/L | | 12/01/22 09:40 | 12/01/22 18:50 | 1 |
| Lead | <0.00050 | | 0.00050 | | mg/L | | 12/01/22 09:40 | 12/01/22 18:50 | 1 |
| Lithium | <0.010 | | 0.010 | | mg/L | | 12/01/22 09:40 | 12/01/22 18:50 | 1 |
| Molybdenum | 0.031 | | 0.0050 | | mg/L | | 12/01/22 09:40 | 12/01/22 18:50 | 1 |
| Selenium | <0.0025 | | 0.0025 | | mg/L | | 12/01/22 09:40 | 12/01/22 18:50 | 1 |
| Thallium | <0.0020 | | 0.0020 | | mg/L | | 12/01/22 09:40 | 12/01/22 18:50 | 1 |

Method: SW846 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|----------|-----------|---------|-----|------|---|----------------|----------------|---------|
| Mercury | <0.00020 | | 0.00020 | | mg/L | | 11/22/22 10:10 | 11/23/22 06:21 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|-------------|-----------|------|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids (SM 2540C) | 490 | | 10 | | mg/L | | | 11/18/22 05:51 | 1 |
| Chloride (SM 4500 Cl- E) | 32 | | 2.0 | | mg/L | | | 11/30/22 12:44 | 1 |
| Fluoride (SM 4500 F C) | 0.25 | | 0.10 | | mg/L | | | 12/01/22 13:56 | 1 |
| Sulfate (SM 4500 SO4 E) | 130 | | 50 | | mg/L | | | 11/29/22 09:51 | 10 |

Client Sample Results

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

Job ID: 500-225519-1

Client Sample ID: MW-11
Date Collected: 11/15/22 16:20
Date Received: 11/16/22 10:30

Lab Sample ID: 500-225519-4
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 | | 12/01/22 09:40 | 12/01/22 18:53 | 1 |
| Arsenic | 0.015 | | 0.0010 | | mg/L | | 12/01/22 09:40 | 12/01/22 18:53 | 1 |
| Barium | 0.16 | | 0.0025 | | mg/L | | 12/01/22 09:40 | 12/01/22 18:53 | 1 |
| Beryllium | <0.0010 | | 0.0010 | | mg/L | | 12/01/22 09:40 | 12/01/22 18:53 | 1 |
| Boron | 2.2 | | 0.050 | | mg/L | | 12/01/22 09:40 | 12/01/22 18:53 | 1 |
| Cadmium | <0.00050 | | 0.00050 | | mg/L | | 12/01/22 09:40 | 12/01/22 18:53 | 1 |
| Calcium | 110 | | 0.20 | | mg/L | | 12/01/22 09:40 | 12/01/22 18:53 | 1 |
| Chromium | <0.0050 | | 0.0050 | | mg/L | | 12/01/22 09:40 | 12/01/22 18:53 | 1 |
| Cobalt | 0.0017 | | 0.0010 | | mg/L | | 12/01/22 09:40 | 12/01/22 18:53 | 1 |
| Lead | <0.00050 | | 0.00050 | | mg/L | | 12/01/22 09:40 | 12/01/22 18:53 | 1 |
| Lithium | <0.010 | | 0.010 | | mg/L | | 12/01/22 09:40 | 12/01/22 18:53 | 1 |
| Molybdenum | 0.016 | | 0.0050 | | mg/L | | 12/01/22 09:40 | 12/01/22 18:53 | 1 |
| Selenium | <0.0025 | | 0.0025 | | mg/L | | 12/01/22 09:40 | 12/01/22 18:53 | 1 |
| Thallium | <0.0020 | | 0.0020 | | mg/L | | 12/01/22 09:40 | 12/01/22 18:53 | 1 |

Method: SW846 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|----------|-----------|---------|-----|------|---|----------------|----------------|---------|
| Mercury | <0.00020 | | 0.00020 | | mg/L | | 11/22/22 10:10 | 11/23/22 06:23 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|-------------|-----------|------|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids (SM 2540C) | 690 | | 10 | | mg/L | | | 11/18/22 05:54 | 1 |
| Chloride (SM 4500 Cl- E) | 61 | | 20 | | mg/L | | | 11/30/22 12:46 | 10 |
| Fluoride (SM 4500 F C) | 0.84 | | 0.10 | | mg/L | | | 12/01/22 10:09 | 1 |
| Sulfate (SM 4500 SO4 E) | 110 | | 50 | | mg/L | | | 11/29/22 09:52 | 10 |

Client Sample Results

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

Job ID: 500-225519-1

Client Sample ID: MW-12
Date Collected: 11/15/22 15:16
Date Received: 11/16/22 10:30

Lab Sample ID: 500-225519-5
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 | | 12/01/22 09:40 | 12/01/22 19:04 | 1 |
| Arsenic | 0.032 | | 0.0010 | | mg/L | | 12/01/22 09:40 | 12/01/22 19:04 | 1 |
| Barium | 0.072 | | 0.0025 | | mg/L | | 12/01/22 09:40 | 12/01/22 19:04 | 1 |
| Beryllium | <0.0010 | | 0.0010 | | mg/L | | 12/01/22 09:40 | 12/01/22 19:04 | 1 |
| Boron | 0.58 | | 0.050 | | mg/L | | 12/01/22 09:40 | 12/01/22 19:04 | 1 |
| Cadmium | <0.00050 | | 0.00050 | | mg/L | | 12/01/22 09:40 | 12/01/22 19:04 | 1 |
| Calcium | 90 | | 0.20 | | mg/L | | 12/01/22 09:40 | 12/01/22 19:04 | 1 |
| Chromium | <0.0050 | | 0.0050 | | mg/L | | 12/01/22 09:40 | 12/01/22 19:04 | 1 |
| Cobalt | <0.0010 | | 0.0010 | | mg/L | | 12/01/22 09:40 | 12/01/22 19:04 | 1 |
| Lead | <0.00050 | | 0.00050 | | mg/L | | 12/01/22 09:40 | 12/01/22 19:04 | 1 |
| Lithium | 0.014 | | 0.010 | | mg/L | | 12/01/22 09:40 | 12/01/22 19:04 | 1 |
| Molybdenum | 0.020 | | 0.0050 | | mg/L | | 12/01/22 09:40 | 12/01/22 19:04 | 1 |
| Selenium | <0.0025 | | 0.0025 | | mg/L | | 12/01/22 09:40 | 12/01/22 19:04 | 1 |
| Thallium | <0.0020 | | 0.0020 | | mg/L | | 12/01/22 09:40 | 12/01/22 19:04 | 1 |

Method: SW846 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|----------|-----------|---------|-----|------|---|----------------|----------------|---------|
| Mercury | <0.00020 | | 0.00020 | | mg/L | | 11/22/22 10:10 | 11/23/22 06:51 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|-------------|-----------|------|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids (SM 2540C) | 810 | | 10 | | mg/L | | | 11/18/22 05:56 | 1 |
| Chloride (SM 4500 Cl- E) | 150 | | 20 | | mg/L | | | 11/30/22 12:47 | 10 |
| Fluoride (SM 4500 F C) | 0.74 | | 0.10 | | mg/L | | | 12/01/22 10:09 | 1 |
| Sulfate (SM 4500 SO4 E) | 220 | | 50 | | mg/L | | | 11/29/22 09:52 | 10 |

Client Sample Results

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

Job ID: 500-225519-1

Client Sample ID: MW-18
Date Collected: 11/16/22 09:45
Date Received: 11/17/22 10:10

Lab Sample ID: 500-225519-6
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 | | 12/01/22 09:40 | 12/01/22 19:07 | 1 |
| Arsenic | 0.0069 | | 0.0010 | | mg/L | | 12/01/22 09:40 | 12/01/22 19:07 | 1 |
| Barium | 0.28 | | 0.0025 | | mg/L | | 12/01/22 09:40 | 12/01/22 19:07 | 1 |
| Beryllium | <0.0010 | | 0.0010 | | mg/L | | 12/01/22 09:40 | 12/01/22 19:07 | 1 |
| Boron | 0.54 | | 0.050 | | mg/L | | 12/01/22 09:40 | 12/01/22 19:07 | 1 |
| Cadmium | <0.00050 | | 0.00050 | | mg/L | | 12/01/22 09:40 | 12/01/22 19:07 | 1 |
| Calcium | 110 | | 0.20 | | mg/L | | 12/01/22 09:40 | 12/01/22 19:07 | 1 |
| Chromium | 0.017 | | 0.0050 | | mg/L | | 12/01/22 09:40 | 12/01/22 19:07 | 1 |
| Cobalt | 0.0056 | | 0.0010 | | mg/L | | 12/01/22 09:40 | 12/01/22 19:07 | 1 |
| Lead | 0.0092 | | 0.00050 | | mg/L | | 12/01/22 09:40 | 12/01/22 19:07 | 1 |
| Lithium | 0.019 | | 0.010 | | mg/L | | 12/01/22 09:40 | 12/01/22 19:07 | 1 |
| Molybdenum | 0.0070 | | 0.0050 | | mg/L | | 12/01/22 09:40 | 12/01/22 19:07 | 1 |
| Selenium | <0.0025 | | 0.0025 | | mg/L | | 12/01/22 09:40 | 12/01/22 19:07 | 1 |
| Thallium | <0.0020 | | 0.0020 | | mg/L | | 12/01/22 09:40 | 12/01/22 19:07 | 1 |

Method: SW846 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|----------|-----------|---------|-----|------|---|----------------|----------------|---------|
| Mercury | <0.00020 | | 0.00020 | | mg/L | | 11/22/22 10:10 | 11/23/22 07:00 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|-------------|-----------|------|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids (SM 2540C) | 1100 | | 10 | | mg/L | | | 11/21/22 05:08 | 1 |
| Chloride (SM 4500 Cl- E) | 160 | | 20 | | mg/L | | | 11/30/22 12:47 | 10 |
| Fluoride (SM 4500 F C) | 0.63 | | 0.10 | | mg/L | | | 12/01/22 10:09 | 1 |
| Sulfate (SM 4500 SO4 E) | 220 | | 50 | | mg/L | | | 11/29/22 09:53 | 10 |

Client Sample Results

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

Job ID: 500-225519-1

Client Sample ID: MW-19

Lab Sample ID: 500-225519-7

Date Collected: 11/16/22 08:45

Matrix: Water

Date Received: 11/17/22 10:10

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 | | 12/01/22 09:40 | 12/01/22 19:11 | 1 |
| Arsenic | <0.0010 | | 0.0010 | | mg/L | | 12/01/22 09:40 | 12/01/22 19:11 | 1 |
| Barium | 0.064 | | 0.0025 | | mg/L | | 12/01/22 09:40 | 12/01/22 19:11 | 1 |
| Beryllium | <0.0010 | | 0.0010 | | mg/L | | 12/01/22 09:40 | 12/01/22 19:11 | 1 |
| Boron | 4.3 | | 0.050 | | mg/L | | 12/01/22 09:40 | 12/01/22 19:11 | 1 |
| Cadmium | <0.00050 | | 0.00050 | | mg/L | | 12/01/22 09:40 | 12/01/22 19:11 | 1 |
| Calcium | 80 | | 0.20 | | mg/L | | 12/01/22 09:40 | 12/01/22 19:11 | 1 |
| Chromium | <0.0050 | | 0.0050 | | mg/L | | 12/01/22 09:40 | 12/01/22 19:11 | 1 |
| Cobalt | <0.0010 | | 0.0010 | | mg/L | | 12/01/22 09:40 | 12/01/22 19:11 | 1 |
| Lead | <0.00050 | | 0.00050 | | mg/L | | 12/01/22 09:40 | 12/01/22 19:11 | 1 |
| Lithium | <0.010 | | 0.010 | | mg/L | | 12/01/22 09:40 | 12/01/22 19:11 | 1 |
| Molybdenum | 0.041 | | 0.0050 | | mg/L | | 12/01/22 09:40 | 12/01/22 19:11 | 1 |
| Selenium | 0.0029 | | 0.0025 | | mg/L | | 12/01/22 09:40 | 12/01/22 19:11 | 1 |
| Thallium | <0.0020 | | 0.0020 | | mg/L | | 12/01/22 09:40 | 12/01/22 19:11 | 1 |

Method: SW846 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|----------|-----------|---------|-----|------|---|----------------|----------------|---------|
| Mercury | <0.00020 | | 0.00020 | | mg/L | | 11/22/22 10:10 | 11/23/22 07:02 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|-------------|-----------|------|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids (SM 2540C) | 580 | | 10 | | mg/L | | | 11/21/22 05:10 | 1 |
| Chloride (SM 4500 Cl- E) | 34 | | 10 | | mg/L | | | 11/30/22 12:47 | 5 |
| Fluoride (SM 4500 F C) | 0.22 | | 0.10 | | mg/L | | | 12/01/22 10:09 | 1 |
| Sulfate (SM 4500 SO4 E) | 160 | | 25 | | mg/L | | | 11/29/22 09:54 | 5 |

Client Sample Results

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

Job ID: 500-225519-1

Client Sample ID: Duplicate
Date Collected: 11/16/22 00:00
Date Received: 11/17/22 10:10

Lab Sample ID: 500-225519-8
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 | | 12/01/22 09:40 | 12/01/22 19:14 | 1 |
| Arsenic | <0.0010 | | 0.0010 | | mg/L | | 12/01/22 09:40 | 12/01/22 19:14 | 1 |
| Barium | 0.064 | | 0.0025 | | mg/L | | 12/01/22 09:40 | 12/01/22 19:14 | 1 |
| Beryllium | <0.0010 | | 0.0010 | | mg/L | | 12/01/22 09:40 | 12/01/22 19:14 | 1 |
| Boron | 4.4 | | 0.050 | | mg/L | | 12/01/22 09:40 | 12/01/22 19:14 | 1 |
| Cadmium | <0.00050 | | 0.00050 | | mg/L | | 12/01/22 09:40 | 12/01/22 19:14 | 1 |
| Calcium | 81 | | 0.20 | | mg/L | | 12/01/22 09:40 | 12/01/22 19:14 | 1 |
| Chromium | <0.0050 | | 0.0050 | | mg/L | | 12/01/22 09:40 | 12/01/22 19:14 | 1 |
| Cobalt | <0.0010 | | 0.0010 | | mg/L | | 12/01/22 09:40 | 12/01/22 19:14 | 1 |
| Lead | <0.00050 | | 0.00050 | | mg/L | | 12/01/22 09:40 | 12/01/22 19:14 | 1 |
| Lithium | <0.010 | | 0.010 | | mg/L | | 12/01/22 09:40 | 12/01/22 19:14 | 1 |
| Molybdenum | 0.042 | | 0.0050 | | mg/L | | 12/01/22 09:40 | 12/01/22 19:14 | 1 |
| Selenium | 0.0028 | | 0.0025 | | mg/L | | 12/01/22 09:40 | 12/01/22 19:14 | 1 |
| Thallium | <0.0020 | | 0.0020 | | mg/L | | 12/01/22 09:40 | 12/01/22 19:14 | 1 |

Method: SW846 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|----------|-----------|---------|-----|------|---|----------------|----------------|---------|
| Mercury | <0.00020 | | 0.00020 | | mg/L | | 11/22/22 10:10 | 11/23/22 07:05 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|-------------|-----------|------|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids (SM 2540C) | 610 | | 10 | | mg/L | | | 11/21/22 05:13 | 1 |
| Chloride (SM 4500 Cl- E) | 34 | | 4.0 | | mg/L | | | 11/30/22 12:48 | 2 |
| Fluoride (SM 4500 F C) | 0.22 | | 0.10 | | mg/L | | | 12/01/22 10:09 | 1 |
| Sulfate (SM 4500 SO4 E) | 160 | | 25 | | mg/L | | | 11/29/22 09:54 | 5 |

Client Sample Results

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

Job ID: 500-225519-1

Client Sample ID: MW-15
Date Collected: 11/16/22 10:30
Date Received: 11/18/22 10:00

Lab Sample ID: 500-225519-9
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 | | 12/01/22 09:40 | 12/01/22 19:18 | 1 |
| Arsenic | 0.0071 | | 0.0010 | | mg/L | | 12/01/22 09:40 | 12/01/22 19:18 | 1 |
| Barium | 0.060 | | 0.0025 | | mg/L | | 12/01/22 09:40 | 12/01/22 19:18 | 1 |
| Beryllium | <0.0010 | | 0.0010 | | mg/L | | 12/01/22 09:40 | 12/01/22 19:18 | 1 |
| Boron | 1.3 | | 0.050 | | mg/L | | 12/01/22 09:40 | 12/01/22 19:18 | 1 |
| Cadmium | <0.00050 | | 0.00050 | | mg/L | | 12/01/22 09:40 | 12/01/22 19:18 | 1 |
| Calcium | 190 | | 0.20 | | mg/L | | 12/01/22 09:40 | 12/01/22 19:18 | 1 |
| Chromium | <0.0050 | | 0.0050 | | mg/L | | 12/01/22 09:40 | 12/01/22 19:18 | 1 |
| Cobalt | <0.0010 | | 0.0010 | | mg/L | | 12/01/22 09:40 | 12/01/22 19:18 | 1 |
| Lead | <0.00050 | | 0.00050 | | mg/L | | 12/01/22 09:40 | 12/01/22 19:18 | 1 |
| Lithium | 0.025 | | 0.010 | | mg/L | | 12/01/22 09:40 | 12/01/22 19:18 | 1 |
| Molybdenum | 0.055 | | 0.0050 | | mg/L | | 12/01/22 09:40 | 12/01/22 19:18 | 1 |
| Selenium | <0.0025 | | 0.0025 | | mg/L | | 12/01/22 09:40 | 12/01/22 19:18 | 1 |
| Thallium | <0.0020 | | 0.0020 | | mg/L | | 12/01/22 09:40 | 12/01/22 19:18 | 1 |

Method: SW846 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|----------|-----------|---------|-----|------|---|----------------|----------------|---------|
| Mercury | <0.00020 | | 0.00020 | | mg/L | | 11/22/22 10:10 | 11/23/22 07:07 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|-------------|-----------|------|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids (SM 2540C) | 1500 | | 10 | | mg/L | | | 11/21/22 05:15 | 1 |
| Chloride (SM 4500 Cl- E) | 230 | | 20 | | mg/L | | | 11/30/22 12:48 | 10 |
| Fluoride (SM 4500 F C) | 0.71 | | 0.10 | | mg/L | | | 12/01/22 10:09 | 1 |
| Sulfate (SM 4500 SO4 E) | 450 | | 100 | | mg/L | | | 11/29/22 09:54 | 20 |

Client Sample Results

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

Job ID: 500-225519-1

Client Sample ID: MW-17

Lab Sample ID: 500-225519-10

Date Collected: 11/16/22 12:20

Matrix: Water

Date Received: 11/18/22 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 | | 12/01/22 09:40 | 12/01/22 19:21 | 1 |
| Arsenic | 0.0058 | | 0.0010 | | mg/L | | 12/01/22 09:40 | 12/01/22 19:21 | 1 |
| Barium | 0.040 | | 0.0025 | | mg/L | | 12/01/22 09:40 | 12/01/22 19:21 | 1 |
| Beryllium | <0.0010 | | 0.0010 | | mg/L | | 12/01/22 09:40 | 12/01/22 19:21 | 1 |
| Boron | 1.1 | | 0.050 | | mg/L | | 12/01/22 09:40 | 12/01/22 19:21 | 1 |
| Cadmium | <0.00050 | | 0.00050 | | mg/L | | 12/01/22 09:40 | 12/01/22 19:21 | 1 |
| Calcium | 150 | | 0.20 | | mg/L | | 12/01/22 09:40 | 12/01/22 19:21 | 1 |
| Chromium | <0.0050 | | 0.0050 | | mg/L | | 12/01/22 09:40 | 12/01/22 19:21 | 1 |
| Cobalt | <0.0010 | | 0.0010 | | mg/L | | 12/01/22 09:40 | 12/01/22 19:21 | 1 |
| Lead | <0.00050 | | 0.00050 | | mg/L | | 12/01/22 09:40 | 12/01/22 19:21 | 1 |
| Lithium | 0.013 | | 0.010 | | mg/L | | 12/01/22 09:40 | 12/01/22 19:21 | 1 |
| Molybdenum | 0.028 | | 0.0050 | | mg/L | | 12/01/22 09:40 | 12/01/22 19:21 | 1 |
| Selenium | <0.0025 | | 0.0025 | | mg/L | | 12/01/22 09:40 | 12/01/22 19:21 | 1 |
| Thallium | <0.0020 | | 0.0020 | | mg/L | | 12/01/22 09:40 | 12/01/22 19:21 | 1 |

Method: SW846 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|----------|-----------|---------|-----|------|---|----------------|----------------|---------|
| Mercury | <0.00020 | | 0.00020 | | mg/L | | 11/22/22 10:10 | 11/23/22 07:09 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|-------------|-----------|------|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids (SM 2540C) | 1400 | | 10 | | mg/L | | | 11/21/22 05:18 | 1 |
| Chloride (SM 4500 Cl- E) | 170 | | 20 | | mg/L | | | 11/30/22 12:48 | 10 |
| Fluoride (SM 4500 F C) | 0.98 | | 0.10 | | mg/L | | | 12/01/22 10:09 | 1 |
| Sulfate (SM 4500 SO4 E) | 530 | | 250 | | mg/L | | | 11/29/22 10:27 | 50 |

Definitions/Glossary

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

Job ID: 500-225519-1

Qualifiers

Metals

| 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. |

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/SB

Job ID: 500-225519-1

Metals

Prep Batch: 686509

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|--------------------|-----------|--------|--------|------------|
| 500-225519-1 | MW-01 | Total/NA | Water | 7470A | |
| 500-225519-2 | MW-08 | Total/NA | Water | 7470A | |
| 500-225519-3 | MW-09 | Total/NA | Water | 7470A | |
| 500-225519-4 | MW-11 | Total/NA | Water | 7470A | |
| 500-225519-5 | MW-12 | Total/NA | Water | 7470A | |
| 500-225519-6 | MW-18 | Total/NA | Water | 7470A | |
| 500-225519-7 | MW-19 | Total/NA | Water | 7470A | |
| 500-225519-8 | Duplicate | Total/NA | Water | 7470A | |
| 500-225519-9 | MW-15 | Total/NA | Water | 7470A | |
| 500-225519-10 | MW-17 | Total/NA | Water | 7470A | |
| MB 500-686509/12-A | Method Blank | Total/NA | Water | 7470A | |
| LCS 500-686509/13-A | Lab Control Sample | Total/NA | Water | 7470A | |
| 500-225519-4 MS | MW-11 | Total/NA | Water | 7470A | |
| 500-225519-4 MSD | MW-11 | Total/NA | Water | 7470A | |
| 500-225519-4 DU | MW-11 | Total/NA | Water | 7470A | |

Analysis Batch: 686793

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|--------------------|-----------|--------|--------|------------|
| 500-225519-1 | MW-01 | Total/NA | Water | 7470A | 686509 |
| 500-225519-2 | MW-08 | Total/NA | Water | 7470A | 686509 |
| 500-225519-3 | MW-09 | Total/NA | Water | 7470A | 686509 |
| 500-225519-4 | MW-11 | Total/NA | Water | 7470A | 686509 |
| 500-225519-5 | MW-12 | Total/NA | Water | 7470A | 686509 |
| 500-225519-6 | MW-18 | Total/NA | Water | 7470A | 686509 |
| 500-225519-7 | MW-19 | Total/NA | Water | 7470A | 686509 |
| 500-225519-8 | Duplicate | Total/NA | Water | 7470A | 686509 |
| 500-225519-9 | MW-15 | Total/NA | Water | 7470A | 686509 |
| 500-225519-10 | MW-17 | Total/NA | Water | 7470A | 686509 |
| MB 500-686509/12-A | Method Blank | Total/NA | Water | 7470A | 686509 |
| LCS 500-686509/13-A | Lab Control Sample | Total/NA | Water | 7470A | 686509 |
| 500-225519-4 MS | MW-11 | Total/NA | Water | 7470A | 686509 |
| 500-225519-4 MSD | MW-11 | Total/NA | Water | 7470A | 686509 |
| 500-225519-4 DU | MW-11 | Total/NA | Water | 7470A | 686509 |

Prep Batch: 687711

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-------------------|--------|--------|------------|
| 500-225519-1 | MW-01 | Total Recoverable | Water | 3005A | |
| 500-225519-2 | MW-08 | Total Recoverable | Water | 3005A | |
| 500-225519-3 | MW-09 | Total Recoverable | Water | 3005A | |
| 500-225519-4 | MW-11 | Total Recoverable | Water | 3005A | |
| 500-225519-5 | MW-12 | Total Recoverable | Water | 3005A | |
| 500-225519-6 | MW-18 | Total Recoverable | Water | 3005A | |
| 500-225519-7 | MW-19 | Total Recoverable | Water | 3005A | |
| 500-225519-8 | Duplicate | Total Recoverable | Water | 3005A | |
| 500-225519-9 | MW-15 | Total Recoverable | Water | 3005A | |
| 500-225519-10 | MW-17 | Total Recoverable | Water | 3005A | |
| MB 500-687711/1-A | Method Blank | Total Recoverable | Water | 3005A | |
| LCS 500-687711/2-A | Lab Control Sample | Total Recoverable | Water | 3005A | |
| 500-225519-1 MS | MW-01 | Total Recoverable | Water | 3005A | |
| 500-225519-1 MSD | MW-01 | Total Recoverable | Water | 3005A | |
| 500-225519-1 DU | MW-01 | Total Recoverable | Water | 3005A | |

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QC Association Summary

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

Job ID: 500-225519-1

Metals

Analysis Batch: 687931

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-------------------|--------|--------|------------|
| 500-225519-1 | MW-01 | Total Recoverable | Water | 6020A | 687711 |
| 500-225519-2 | MW-08 | Total Recoverable | Water | 6020A | 687711 |
| 500-225519-3 | MW-09 | Total Recoverable | Water | 6020A | 687711 |
| 500-225519-4 | MW-11 | Total Recoverable | Water | 6020A | 687711 |
| 500-225519-5 | MW-12 | Total Recoverable | Water | 6020A | 687711 |
| 500-225519-6 | MW-18 | Total Recoverable | Water | 6020A | 687711 |
| 500-225519-7 | MW-19 | Total Recoverable | Water | 6020A | 687711 |
| 500-225519-8 | Duplicate | Total Recoverable | Water | 6020A | 687711 |
| 500-225519-9 | MW-15 | Total Recoverable | Water | 6020A | 687711 |
| 500-225519-10 | MW-17 | Total Recoverable | Water | 6020A | 687711 |
| MB 500-687711/1-A | Method Blank | Total Recoverable | Water | 6020A | 687711 |
| LCS 500-687711/2-A | Lab Control Sample | Total Recoverable | Water | 6020A | 687711 |
| 500-225519-1 MS | MW-01 | Total Recoverable | Water | 6020A | 687711 |
| 500-225519-1 MSD | MW-01 | Total Recoverable | Water | 6020A | 687711 |
| 500-225519-1 DU | MW-01 | Total Recoverable | Water | 6020A | 687711 |

General Chemistry

Analysis Batch: 603148

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|-------------|------------|
| 500-225519-1 | MW-01 | Total/NA | Water | SM 4500 F C | |
| 500-225519-3 | MW-09 | Total/NA | Water | SM 4500 F C | |
| MB 400-603148/10 | Method Blank | Total/NA | Water | SM 4500 F C | |
| LCS 400-603148/13 | Lab Control Sample | Total/NA | Water | SM 4500 F C | |
| MRL 400-603148/12 | Lab Control Sample | Total/NA | Water | SM 4500 F C | |
| 500-225519-1 MS | MW-01 | Total/NA | Water | SM 4500 F C | |
| 500-225519-1 MSD | MW-01 | Total/NA | Water | SM 4500 F C | |
| 500-225519-3 DU | MW-09 | Total/NA | Water | SM 4500 F C | |

Analysis Batch: 603174

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|-------------|------------|
| 500-225519-2 | MW-08 | Total/NA | Water | SM 4500 F C | |
| 500-225519-4 | MW-11 | Total/NA | Water | SM 4500 F C | |
| 500-225519-5 | MW-12 | Total/NA | Water | SM 4500 F C | |
| 500-225519-6 | MW-18 | Total/NA | Water | SM 4500 F C | |
| 500-225519-7 | MW-19 | Total/NA | Water | SM 4500 F C | |
| 500-225519-8 | Duplicate | Total/NA | Water | SM 4500 F C | |
| 500-225519-9 | MW-15 | Total/NA | Water | SM 4500 F C | |
| 500-225519-10 | MW-17 | Total/NA | Water | SM 4500 F C | |
| MB 400-603174/10 | Method Blank | Total/NA | Water | SM 4500 F C | |
| LCS 400-603174/13 | Lab Control Sample | Total/NA | Water | SM 4500 F C | |
| MRL 400-603174/12 | Lab Control Sample | Total/NA | Water | SM 4500 F C | |
| 500-225519-2 MS | MW-08 | Total/NA | Water | SM 4500 F C | |
| 500-225519-2 MSD | MW-08 | Total/NA | Water | SM 4500 F C | |
| 500-225519-4 DU | MW-11 | Total/NA | Water | SM 4500 F C | |

Analysis Batch: 685755

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|----------|------------|
| 500-225519-1 | MW-01 | Total/NA | Water | SM 2540C | |
| 500-225519-2 | MW-08 | Total/NA | Water | SM 2540C | |
| 500-225519-3 | MW-09 | Total/NA | Water | SM 2540C | |

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QC Association Summary

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

Job ID: 500-225519-1

General Chemistry (Continued)

Analysis Batch: 685755 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|----------|------------|
| 500-225519-4 | MW-11 | Total/NA | Water | SM 2540C | |
| 500-225519-5 | MW-12 | Total/NA | Water | SM 2540C | |
| MB 500-685755/1 | Method Blank | Total/NA | Water | SM 2540C | |
| LCS 500-685755/2 | Lab Control Sample | Total/NA | Water | SM 2540C | |

Analysis Batch: 686167

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|----------|------------|
| 500-225519-6 | MW-18 | Total/NA | Water | SM 2540C | |
| 500-225519-7 | MW-19 | Total/NA | Water | SM 2540C | |
| 500-225519-8 | Duplicate | Total/NA | Water | SM 2540C | |
| 500-225519-9 | MW-15 | Total/NA | Water | SM 2540C | |
| 500-225519-10 | MW-17 | Total/NA | Water | SM 2540C | |
| MB 500-686167/1 | Method Blank | Total/NA | Water | SM 2540C | |
| LCS 500-686167/2 | Lab Control Sample | Total/NA | Water | SM 2540C | |

Analysis Batch: 687313

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|---------------|------------|
| 500-225519-1 | MW-01 | Total/NA | Water | SM 4500 SO4 E | |
| 500-225519-2 | MW-08 | Total/NA | Water | SM 4500 SO4 E | |
| 500-225519-3 | MW-09 | Total/NA | Water | SM 4500 SO4 E | |
| 500-225519-4 | MW-11 | Total/NA | Water | SM 4500 SO4 E | |
| 500-225519-5 | MW-12 | Total/NA | Water | SM 4500 SO4 E | |
| 500-225519-6 | MW-18 | Total/NA | Water | SM 4500 SO4 E | |
| 500-225519-7 | MW-19 | Total/NA | Water | SM 4500 SO4 E | |
| 500-225519-8 | Duplicate | Total/NA | Water | SM 4500 SO4 E | |
| 500-225519-9 | MW-15 | Total/NA | Water | SM 4500 SO4 E | |
| 500-225519-10 | MW-17 | Total/NA | Water | SM 4500 SO4 E | |
| MB 500-687313/130 | Method Blank | Total/NA | Water | SM 4500 SO4 E | |
| MB 500-687313/94 | Method Blank | Total/NA | Water | SM 4500 SO4 E | |
| LCS 500-687313/131 | Lab Control Sample | Total/NA | Water | SM 4500 SO4 E | |
| LCS 500-687313/95 | Lab Control Sample | Total/NA | Water | SM 4500 SO4 E | |
| 500-225519-10 MS | MW-17 | Total/NA | Water | SM 4500 SO4 E | |
| 500-225519-10 MSD | MW-17 | Total/NA | Water | SM 4500 SO4 E | |

Analysis Batch: 687566

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|---------------|------------|
| 500-225519-1 | MW-01 | Total/NA | Water | SM 4500 Cl- E | |
| 500-225519-2 | MW-08 | Total/NA | Water | SM 4500 Cl- E | |
| 500-225519-3 | MW-09 | Total/NA | Water | SM 4500 Cl- E | |
| 500-225519-4 | MW-11 | Total/NA | Water | SM 4500 Cl- E | |
| 500-225519-5 | MW-12 | Total/NA | Water | SM 4500 Cl- E | |
| 500-225519-6 | MW-18 | Total/NA | Water | SM 4500 Cl- E | |
| 500-225519-7 | MW-19 | Total/NA | Water | SM 4500 Cl- E | |
| 500-225519-8 | Duplicate | Total/NA | Water | SM 4500 Cl- E | |
| 500-225519-9 | MW-15 | Total/NA | Water | SM 4500 Cl- E | |
| 500-225519-10 | MW-17 | Total/NA | Water | SM 4500 Cl- E | |
| MB 500-687566/181 | Method Blank | Total/NA | Water | SM 4500 Cl- E | |
| LCS 500-687566/182 | Lab Control Sample | Total/NA | Water | SM 4500 Cl- E | |
| 500-225519-3 MS | MW-09 | Total/NA | Water | SM 4500 Cl- E | |
| 500-225519-3 MSD | MW-09 | Total/NA | Water | SM 4500 Cl- E | |

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QC Sample Results

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

Job ID: 500-225519-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 500-687711/1-A
Matrix: Water
Analysis Batch: 687931

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 687711

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|-----------|--------------|---------|-----|------|---|----------------|----------------|---------|
| Antimony | <0.0030 | | 0.0030 | | mg/L | | 12/01/22 09:40 | 12/01/22 18:22 | 1 |
| Arsenic | <0.0010 | | 0.0010 | | mg/L | | 12/01/22 09:40 | 12/01/22 18:22 | 1 |
| Barium | <0.0025 | | 0.0025 | | mg/L | | 12/01/22 09:40 | 12/01/22 18:22 | 1 |
| Beryllium | <0.0010 | | 0.0010 | | mg/L | | 12/01/22 09:40 | 12/01/22 18:22 | 1 |
| Boron | <0.050 | | 0.050 | | mg/L | | 12/01/22 09:40 | 12/01/22 18:22 | 1 |
| Cadmium | <0.00050 | | 0.00050 | | mg/L | | 12/01/22 09:40 | 12/01/22 18:22 | 1 |
| Calcium | <0.20 | | 0.20 | | mg/L | | 12/01/22 09:40 | 12/01/22 18:22 | 1 |
| Chromium | <0.0050 | | 0.0050 | | mg/L | | 12/01/22 09:40 | 12/01/22 18:22 | 1 |
| Cobalt | <0.0010 | | 0.0010 | | mg/L | | 12/01/22 09:40 | 12/01/22 18:22 | 1 |
| Lead | <0.00050 | | 0.00050 | | mg/L | | 12/01/22 09:40 | 12/01/22 18:22 | 1 |
| Lithium | <0.010 | | 0.010 | | mg/L | | 12/01/22 09:40 | 12/01/22 18:22 | 1 |
| Molybdenum | <0.0050 | | 0.0050 | | mg/L | | 12/01/22 09:40 | 12/01/22 18:22 | 1 |
| Selenium | <0.0025 | | 0.0025 | | mg/L | | 12/01/22 09:40 | 12/01/22 18:22 | 1 |
| Thallium | <0.0020 | | 0.0020 | | mg/L | | 12/01/22 09:40 | 12/01/22 18:22 | 1 |

Lab Sample ID: LCS 500-687711/2-A
Matrix: Water
Analysis Batch: 687931

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 687711

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|------------|-------------|------------|---------------|------|---|------|-------------|
| Antimony | 0.500 | 0.533 | | mg/L | | 107 | 80 - 120 |
| Arsenic | 0.100 | 0.0962 | | mg/L | | 96 | 80 - 120 |
| Barium | 2.00 | 2.06 | | mg/L | | 103 | 80 - 120 |
| Beryllium | 0.0500 | 0.0486 | | mg/L | | 97 | 80 - 120 |
| Boron | 1.00 | 1.00 | | mg/L | | 100 | 80 - 120 |
| Cadmium | 0.0500 | 0.0503 | | mg/L | | 101 | 80 - 120 |
| Calcium | 10.0 | 10.1 | | mg/L | | 101 | 80 - 120 |
| Chromium | 0.200 | 0.205 | | mg/L | | 103 | 80 - 120 |
| Cobalt | 0.500 | 0.527 | | mg/L | | 105 | 80 - 120 |
| Lead | 0.100 | 0.106 | | mg/L | | 106 | 80 - 120 |
| Lithium | 0.500 | 0.501 | | mg/L | | 100 | 80 - 120 |
| Molybdenum | 1.00 | 0.961 | | mg/L | | 96 | 80 - 120 |
| Selenium | 0.100 | 0.102 | | mg/L | | 102 | 80 - 120 |
| Thallium | 0.100 | 0.105 | | mg/L | | 105 | 80 - 120 |

Lab Sample ID: 500-225519-1 MS
Matrix: Water
Analysis Batch: 687931

Client Sample ID: MW-01
Prep Type: Total Recoverable
Prep Batch: 687711

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|-----------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Antimony | <0.0030 | | 0.500 | 0.545 | | mg/L | | 109 | 75 - 125 |
| Arsenic | <0.0010 | | 0.100 | 0.0984 | | mg/L | | 98 | 75 - 125 |
| Barium | 0.088 | | 2.00 | 2.09 | | mg/L | | 100 | 75 - 125 |
| Beryllium | <0.0010 | | 0.0500 | 0.0471 | | mg/L | | 94 | 75 - 125 |
| Boron | 0.71 | | 1.00 | 1.70 | | mg/L | | 98 | 75 - 125 |
| Cadmium | <0.00050 | | 0.0500 | 0.0497 | | mg/L | | 99 | 75 - 125 |
| Calcium | 110 | | 10.0 | 121 | 4 | mg/L | | 80 | 75 - 125 |
| Chromium | <0.0050 | | 0.200 | 0.197 | | mg/L | | 98 | 75 - 125 |
| Cobalt | <0.0010 | | 0.500 | 0.500 | | mg/L | | 100 | 75 - 125 |

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QC Sample Results

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

Job ID: 500-225519-1

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

Lab Sample ID: 500-225519-1 MS
Matrix: Water
Analysis Batch: 687931

Client Sample ID: MW-01
Prep Type: Total Recoverable
Prep Batch: 687711

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|------------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Lead | <0.00050 | | 0.100 | 0.103 | | mg/L | | 103 | 75 - 125 |
| Lithium | <0.010 | | 0.500 | 0.491 | | mg/L | | 97 | 75 - 125 |
| Molybdenum | <0.0050 | | 1.00 | 0.990 | | mg/L | | 99 | 75 - 125 |
| Selenium | <0.0025 | | 0.100 | 0.103 | | mg/L | | 102 | 75 - 125 |
| Thallium | <0.0020 | | 0.100 | 0.104 | | mg/L | | 104 | 75 - 125 |

Lab Sample ID: 500-225519-1 MSD
Matrix: Water
Analysis Batch: 687931

Client Sample ID: MW-01
Prep Type: Total Recoverable
Prep Batch: 687711

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|------------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| Antimony | <0.0030 | | 0.500 | 0.545 | | mg/L | | 109 | 75 - 125 | 0 | 20 |
| Arsenic | <0.0010 | | 0.100 | 0.0974 | | mg/L | | 97 | 75 - 125 | 1 | 20 |
| Barium | 0.088 | | 2.00 | 2.15 | | mg/L | | 103 | 75 - 125 | 3 | 20 |
| Beryllium | <0.0010 | | 0.0500 | 0.0466 | | mg/L | | 93 | 75 - 125 | 1 | 20 |
| Boron | 0.71 | | 1.00 | 1.73 | | mg/L | | 102 | 75 - 125 | 2 | 20 |
| Cadmium | <0.00050 | | 0.0500 | 0.0492 | | mg/L | | 98 | 75 - 125 | 1 | 20 |
| Calcium | 110 | | 10.0 | 124 | 4 | mg/L | | 116 | 75 - 125 | 3 | 20 |
| Chromium | <0.0050 | | 0.200 | 0.207 | | mg/L | | 104 | 75 - 125 | 5 | 20 |
| Cobalt | <0.0010 | | 0.500 | 0.507 | | mg/L | | 101 | 75 - 125 | 1 | 20 |
| Lead | <0.00050 | | 0.100 | 0.105 | | mg/L | | 105 | 75 - 125 | 2 | 20 |
| Lithium | <0.010 | | 0.500 | 0.501 | | mg/L | | 99 | 75 - 125 | 2 | 20 |
| Molybdenum | <0.0050 | | 1.00 | 0.996 | | mg/L | | 100 | 75 - 125 | 1 | 20 |
| Selenium | <0.0025 | | 0.100 | 0.102 | | mg/L | | 101 | 75 - 125 | 1 | 20 |
| Thallium | <0.0020 | | 0.100 | 0.107 | | mg/L | | 107 | 75 - 125 | 3 | 20 |

Lab Sample ID: 500-225519-1 DU
Matrix: Water
Analysis Batch: 687931

Client Sample ID: MW-01
Prep Type: Total Recoverable
Prep Batch: 687711

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|------------|---------------|------------------|-----------|--------------|------|---|-----|-----------|
| Antimony | <0.0030 | | <0.0030 | | mg/L | | NC | 20 |
| Arsenic | <0.0010 | | <0.0010 | | mg/L | | NC | 20 |
| Barium | 0.088 | | 0.0881 | | mg/L | | 0.3 | 20 |
| Beryllium | <0.0010 | | <0.0010 | | mg/L | | NC | 20 |
| Boron | 0.71 | | 0.738 | | mg/L | | 4 | 20 |
| Cadmium | <0.00050 | | <0.00050 | | mg/L | | NC | 20 |
| Calcium | 110 | | 114 | | mg/L | | 1 | 20 |
| Chromium | <0.0050 | | <0.0050 | | mg/L | | NC | 20 |
| Cobalt | <0.0010 | | <0.0010 | | mg/L | | NC | 20 |
| Lead | <0.00050 | | <0.00050 | | mg/L | | NC | 20 |
| Lithium | <0.010 | | <0.010 | | mg/L | | NC | 20 |
| Molybdenum | <0.0050 | | <0.0050 | | mg/L | | NC | 20 |
| Selenium | <0.0025 | | <0.0025 | | mg/L | | NC | 20 |
| Thallium | <0.0020 | | <0.0020 | | mg/L | | NC | 20 |

QC Sample Results

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

Job ID: 500-225519-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-686509/12-A
Matrix: Water
Analysis Batch: 686793

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 686509

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|--------------|---------|-----|------|---|----------------|----------------|---------|
| Mercury | <0.00020 | | 0.00020 | | mg/L | | 11/22/22 10:10 | 11/23/22 06:08 | 1 |

Lab Sample ID: LCS 500-686509/13-A
Matrix: Water
Analysis Batch: 686793

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 686509

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------|-------------|------------|---------------|------|---|------|-------------|
| Mercury | 0.00198 | 0.00175 | | mg/L | | 88 | 80 - 120 |

Lab Sample ID: 500-225519-4 MS
Matrix: Water
Analysis Batch: 686793

Client Sample ID: MW-11
Prep Type: Total/NA
Prep Batch: 686509

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Mercury | <0.00020 | | 0.00100 | 0.00100 | | mg/L | | 100 | 75 - 125 |

Lab Sample ID: 500-225519-4 MSD
Matrix: Water
Analysis Batch: 686793

Client Sample ID: MW-11
Prep Type: Total/NA
Prep Batch: 686509

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| Mercury | <0.00020 | | 0.00100 | 0.00101 | | mg/L | | 101 | 75 - 125 | 1 | 20 |

Lab Sample ID: 500-225519-4 DU
Matrix: Water
Analysis Batch: 686793

Client Sample ID: MW-11
Prep Type: Total/NA
Prep Batch: 686509

| 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 500-685755/1
Matrix: Water
Analysis Batch: 685755

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 | | | 11/18/22 05:23 | 1 |

Lab Sample ID: LCS 500-685755/2
Matrix: Water
Analysis Batch: 685755

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 | 272 | | mg/L | | 109 | 80 - 120 |

QC Sample Results

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

Job ID: 500-225519-1

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

Lab Sample ID: MB 500-686167/1
Matrix: Water
Analysis Batch: 686167

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 | | | 11/21/22 04:19 | 1 |

Lab Sample ID: LCS 500-686167/2
Matrix: Water
Analysis Batch: 686167

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 | 260 | | mg/L | | 104 | 80 - 120 |

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 500-687566/181
Matrix: Water
Analysis Batch: 687566

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 | | | 11/30/22 12:44 | 1 |

Lab Sample ID: LCS 500-687566/182
Matrix: Water
Analysis Batch: 687566

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 | 22.0 | | mg/L | | 110 | 85 - 115 |

Lab Sample ID: 500-225519-3 MS
Matrix: Water
Analysis Batch: 687566

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 |
|----------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Chloride | 32 | | 20.0 | 52.9 | | mg/L | | 104 | 75 - 125 |

Lab Sample ID: 500-225519-3 MSD
Matrix: Water
Analysis Batch: 687566

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 |
|----------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| Chloride | 32 | | 20.0 | 53.2 | | mg/L | | 105 | 75 - 125 | 1 | 20 |

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 400-603148/10
Matrix: Water
Analysis Batch: 603148

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 | | | 12/01/22 13:04 | 1 |

QC Sample Results

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

Job ID: 500-225519-1

Method: SM 4500 F C - Fluoride (Continued)

Lab Sample ID: LCS 400-603148/13
Matrix: Water
Analysis Batch: 603148

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------|-------------|------------|---------------|------|---|------|-------------|
| Fluoride | 5.00 | 5.02 | | mg/L | | 100 | 90 - 110 |

Lab Sample ID: MRL 400-603148/12
Matrix: Water
Analysis Batch: 603148

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

| Analyte | Spike Added | MRL Result | MRL Qualifier | Unit | D | %Rec | %Rec Limits |
|----------|-------------|------------|---------------|------|---|------|-------------|
| Fluoride | 0.100 | 0.109 | | mg/L | | 109 | |

Lab Sample ID: 500-225519-1 MS
Matrix: Water
Analysis Batch: 603148

Client Sample ID: MW-01
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Fluoride | 0.10 | | 0.100 | 0.201 | | mg/L | | 96 | 75 - 125 |

Lab Sample ID: 500-225519-1 MSD
Matrix: Water
Analysis Batch: 603148

Client Sample ID: MW-01
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| Fluoride | 0.10 | | 0.100 | 0.201 | | mg/L | | 96 | 75 - 125 | 0 | 4 |

Lab Sample ID: 500-225519-3 DU
Matrix: Water
Analysis Batch: 603148

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

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|----------|---------------|------------------|-----------|--------------|------|---|-----|-----------|
| Fluoride | 0.25 | | 0.256 | | mg/L | | 4 | 4 |

Lab Sample ID: MB 400-603174/10
Matrix: Water
Analysis Batch: 603174

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 | | | 12/01/22 10:09 | 1 |

Lab Sample ID: LCS 400-603174/13
Matrix: Water
Analysis Batch: 603174

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------|-------------|------------|---------------|------|---|------|-------------|
| Fluoride | 5.00 | 5.02 | | mg/L | | 100 | 90 - 110 |

Lab Sample ID: MRL 400-603174/12
Matrix: Water
Analysis Batch: 603174

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

| Analyte | Spike Added | MRL Result | MRL Qualifier | Unit | D | %Rec | %Rec Limits |
|----------|-------------|------------|---------------|------|---|------|-------------|
| Fluoride | 0.100 | 0.100 | | mg/L | | 100 | |

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QC Sample Results

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

Job ID: 500-225519-1

Method: SM 4500 F C - Fluoride

Lab Sample ID: 500-225519-2 MS
Matrix: Water
Analysis Batch: 603174

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 |
|----------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Fluoride | 0.45 | | 0.100 | 0.556 | 4 | mg/L | | 102 | 75 - 125 |

Lab Sample ID: 500-225519-2 MSD
Matrix: Water
Analysis Batch: 603174

Client Sample ID: MW-08
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| Fluoride | 0.45 | | 0.100 | 0.556 | 4 | mg/L | | 102 | 75 - 125 | 0 | 4 |

Lab Sample ID: 500-225519-4 DU
Matrix: Water
Analysis Batch: 603174

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

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|----------|---------------|------------------|-----------|--------------|------|---|-----|-----------|
| Fluoride | 0.84 | | 0.870 | | mg/L | | 4 | 4 |

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 500-687313/130
Matrix: Water
Analysis Batch: 687313

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 | | | 11/29/22 10:11 | 1 |

Lab Sample ID: MB 500-687313/94
Matrix: Water
Analysis Batch: 687313

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 | | | 11/29/22 09:45 | 1 |

Lab Sample ID: LCS 500-687313/131
Matrix: Water
Analysis Batch: 687313

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 | 22.7 | | mg/L | | 114 | 88 - 123 |

Lab Sample ID: LCS 500-687313/95
Matrix: Water
Analysis Batch: 687313

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 | 22.2 | | mg/L | | 111 | 88 - 123 |

QC Sample Results

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

Job ID: 500-225519-1

Method: SM 4500 SO4 E - Sulfate, Total (Continued)

Lab Sample ID: 500-225519-10 MS
Matrix: Water
Analysis Batch: 687313

Client Sample ID: MW-17
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Sulfate | 530 | | 20.0 | 561 | 4 | mg/L | | 130 | 75 - 125 |

Lab Sample ID: 500-225519-10 MSD
Matrix: Water
Analysis Batch: 687313

Client Sample ID: MW-17
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| Sulfate | 530 | | 20.0 | 541 | 4 | mg/L | | 32 | 75 - 125 | 4 | 20 |



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

Chain of Custody Record

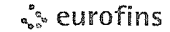
eurofins | L n n m e n n r

| | | | | | | | | | | | |
|--|--|--|--|--|--|----------------------------|--|-----------------------------------|--|------------|--|
| Client Information | | Sampler: <u>Kaelyn Sperle</u> | | Lab PM: <u>Mockler, Diana J</u> | | Carrier Tracking No(s): | | COC No: <u>500-106663-43259 1</u> | | | |
| Client Contact: <u>Mitchel Dolan</u> | | Phone: <u>262-278-1621</u> | | E-Mail: <u>Diana.Mockler@eurofinsus.com</u> | | State of Origin: <u>IL</u> | | Page: <u>Page 1 of 1</u> | | | |
| Company: <u>KPRG and Associates, Inc.</u> | | PWSID: | | Analysis Requested | | | | Job #: <u>500-225519</u> | | | |
| Address: <u>14665 West Lisbon Road, Suite 1A</u> | | 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_LE - Sulfate | | Total Number of containers | | Preservation Codes: | | | |
| City: <u>Brookfield</u> | | TAT Requested (days): <u>Standard</u> | | | | | | A - HCL | | M - Hexane | |
| State, Zip: <u>WI, 53005</u> | | Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No | | | | | | B - NaOH | | N - None | |
| Phone: <u>262-781-0475 (Tel)</u> | | PO #: <u>4502081030</u> | | | | | | C - Zn Acetate | | O AsNaO2 | |
| Email: <u>mitcheld@kprginc.com</u> | | WO #: | | | | | | D - Nitric Acid | | P Na2O4S | |
| Project Name: <u>Powerton CCR Event Desc. Quarterly Powerton CCR Sampling</u> | | Project #: <u>50011612</u> | | E - NaHSO4 | | Q Na2SO3 | | R Na2S2O3 | | | |
| Site: <u>Illinois</u> | | SSOW#: | | F MeOH | | S - H2SO4 | | T - TSP Dodecahydrate | | | |
| Sample Identification 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) | | Other: | | | |
| | | | | | | | | Special Instructions/Note | | | |
| MW-01 | | 11/15/22 0956 | | G | | Water | | N X X X X | | | |
| MW-08 | | 11/15/22 1222 | | G | | Water | | N X X X X | | | |
| MW-09 | | 11/15/22 1318 | | G | | Water | | N X X X X | | | |
| MW-11 | | 11/15/22 1620 | | G | | Water | | N X X X X | | | |
| MW-12 | | 11/15/22 1516 | | G | | Water | | N X X X X | | | |
| MW-13 | | | | | | Water | | | | | |
| MW-14 | | | | | | Water | | | | | |
| MW-15 | | | | | | Water | | | | | |
| MW-16 | | | | | | Water | | | | | |
| MW-17 | | | | | | Water | | | | | |
| MW-18 | | | | | | Water | | | | | |
| MW-19 | | | | | | Water | | | | | |
| MW-20 | | | | | | Water | | | | | |
| MW-21 | | | | | | Water | | | | | |
| MW-22 | | | | | | Water | | | | | |
| MW-23 | | | | | | Water | | | | | |
| MW-24 | | | | | | Water | | | | | |
| MW-25 | | | | | | Water | | | | | |
| MW-26 | | | | | | Water | | | | | |
| MW-27 | | | | | | Water | | | | | |
| MW-28 | | | | | | Water | | | | | |
| MW-29 | | | | | | Water | | | | | |
| MW-30 | | | | | | Water | | | | | |
| MW-31 | | | | | | Water | | | | | |
| MW-32 | | | | | | Water | | | | | |
| MW-33 | | | | | | Water | | | | | |
| MW-34 | | | | | | Water | | | | | |
| MW-35 | | | | | | Water | | | | | |
| MW-36 | | | | | | Water | | | | | |
| MW-37 | | | | | | Water | | | | | |
| MW-38 | | | | | | Water | | | | | |
| MW-39 | | | | | | Water | | | | | |
| MW-40 | | | | | | Water | | | | | |
| MW-41 | | | | | | Water | | | | | |
| MW-42 | | | | | | Water | | | | | |
| MW-43 | | | | | | Water | | | | | |
| MW-44 | | | | | | Water | | | | | |
| MW-45 | | | | | | Water | | | | | |
| MW-46 | | | | | | Water | | | | | |
| MW-47 | | | | | | Water | | | | | |
| MW-48 | | | | | | Water | | | | | |
| MW-49 | | | | | | Water | | | | | |
| MW-50 | | | | | | Water | | | | | |
| MW-51 | | | | | | Water | | | | | |
| MW-52 | | | | | | Water | | | | | |
| MW-53 | | | | | | Water | | | | | |
| MW-54 | | | | | | Water | | | | | |
| MW-55 | | | | | | Water | | | | | |
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| MW-189 | | | | | | Water | | | | | |
| MW-190 | | | | | | Water | | | | | |
| MW-191 | | | | | | Water | | | | | |
| MW-192 | | | | | | | | | | | |

Eurofins Chicago

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

Chain of Custody Record



| | | | | | | | | | |
|---|--|--|--|---|---|-------------------------------------|--|---|--|
| Client Information | | Sampler: <u>Kaelyn Sperle</u> | | Lab PM: <u>Mockler, Diana J</u> | | Carrier Tracking No(s) | | COC No: <u>500-106663-43259 1</u> | |
| Client Contact: <u>Mitchel Dolan</u> | | Phone: <u>262-278-1621</u> | | E-Mail: <u>Diana Mockler@et.eurofinsus.com</u> | | State of Origin | | Page: <u>Page 1 of 1</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> | | Field Filtered Sample (Yes or No) | | Total Number of containers | | Job #: <u>500-225519</u> | |
| City: <u>Brookfield</u> | | TAT Requested (days): <u>Standard</u> | | Perform: MS/MSD (Yes or No) | | | | Preservation Codes | |
| State, Zip: <u>WI, 53005</u> | | Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No | | 903.0, 904.0 | | | | A - HCL M - Hexane | |
| Phone: <u>262-781-0475(Tel)</u> 500-225519 COC | | PO #: <u>4502081030</u> | | 6020A, 7470A | | | | B - NaOH N - None | |
| Email: <u>mitcheld@kprginc.com</u> | | WO #: | | 2540C, 4500_F_C, SM4500_CL_E | | | | C - Zn Acetate O - AsNaO2 | |
| Project Name: <u>Powerton CCR Event Desc Quarterly Powerton CCR Sampling</u> | | Project #: <u>50011612</u> | | SM4500_SO4_E - Sulfate | | | | D - Nitric Acid Q - Na2SO3 | |
| Site: <u>Illinois</u> | | SSOW#: | | | | | | E - NaHSO4 R - Na2S2O3 | |
| | | | | | | | | F - MeOH S - H2SO4 | |
| | | | | | | | | 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 - EDTA Z - other (specify) | |
| | | | | | | | | Other: | |
| | | | | | | | | Special Instructions/Note | |
| Sample Identification | | Sample Date | | Sample Time | | Sample Type (C=comp, G=grab) | | Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air) | |
| | | | | | | | | Preservation Code | |
| MW-04 | | | | | | | | Water | |
| MW-06 | | | | | | | | Water | |
| MW-08 | | | | | | | | Water | |
| MW-11 | | | | | | | | Water | |
| MW-12 | | | | | | | | Water | |
| MW-13 | | | | | | | | Water | |
| MW-14 | | | | | | | | Water | |
| 6 MW-18 | | 11/16/22 | | 0945 | | G | | Water | |
| 7 MW-19 | | 11/16/22 | | 0845 | | G | | Water | |
| 8 Duplicate | | 11/16/22 | | - | | G | | 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 Sperle</u> | | Date/Time: <u>11/16/22/1715</u> | | Company: <u>KPRG</u> | | Received by: <u>FedEx</u> | | Date/Time: <u>11/16/22/1715</u> | |
| Relinquished by: | | Date/Time: | | Company: | | Received by: <u>[Signature]</u> | | Date/Time: <u>11/17/22 1010</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>-18 to -20</u> | | | | | |

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

SHIP DATE: 15N
ACTWGT: 48.45
CAD: 6994780/S
DIMS: 24x13x14

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:

500-225519 Waybi

INU:

PO:

DEPT:



FedEx
Express



REL#
3785346

J224222101801UY

1 of 7

TRK# 3906 9224 8909
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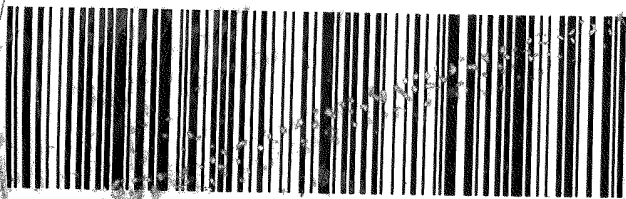
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AHS

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

SHIP DATE: 15NOV22
ACTWGT: 48.45 LB
CAD: 6994780/SSFE2341
DIMS: 24x13x14 IN

WESTMONT, IL 60559
UNITED STATES US

BILL THIRDP PARTY

TO EUROFINS CHICAGO
EUROFINS CHICAGO
2417 BOND ST

UNIVERSITY PARK IL 60484

(708) 534-5200

REF:

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Part# 1562974359
RPN# 1562974359
EXP 06/23



500-225519 Waybl

ORIGIN ID:PIAA (262) 278-621
KAELYN
KPRG AND ASSOCIATES
414 PLAZA DR STE 106
WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 16NOV22
ACTWTG: 57.55 LB
CAD: 6994780/SSFE2341
DIMS: 24x13x14 IN

BILL THIRD PARTY

TO EUROFINS CHICAGO
EUROFINS CHICAGO
2417 BOND ST

UNIVERSITY PARK IL 60484

(708) 634-5200
PHU:
PO:

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DEPT:



FedEx
Express



REL#
3785346

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MPS# 3907 4264 9753
0263
Mstr# 3907 4264 9742

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PRIORITY OVERNIGHT

XN JOTA

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IL-US ORD



Part # 156297-495
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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: 17NOV22
ACTWGT: 38.00 LB
CAD: 6994779/SSFE2341
DIMS: 24x18x12 IN

BILL THIRD PARTY

Part # 156287 (23) 48321 EXP 06/23

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



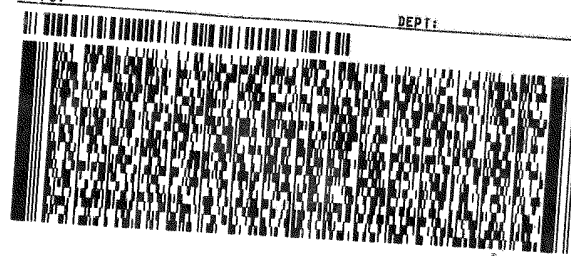
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PRIORITY OVERNIGHT

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Chain of Custody Record



| Client Information (Sub Contract Lab) | | Lab PM: Mockler, Diana J | Carrier Tracking No(s): 500-167594-1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--------------------------------|---|--------------------------------------|--|------------------------------|---|-----------------------------------|---|--------------------------------------|-------------------------------------|---|-------------------------------------|----------------------------|----------------------------|----------------------------|----------------------|----------|---------------|--|-------|---|---|---|---|---|---|---|----------------------|----------|---------------|--|-------|---|---|---|---|---|---|---|----------------------|----------|---------------|--|-------|---|---|---|---|---|---|---|----------------------|----------|---------------|--|-------|---|---|---|---|---|---|---|----------------------|----------|---------------|--|-------|---|---|---|---|---|---|---|
| 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 #: 500-225519-2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Address: 13715 Rider Trail North, | | 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: 12/19/2022 | Analysis Requested | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| State, Zip: MO, 63045 | TAT Requested (days): | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Phone: 314-298-8566(Tel) 314-298-8757(Fax) | PO #: | <table border="1"> <thead> <tr> <th>Sample Identification - Client ID (Lab ID)</th> <th>Sample Date</th> <th>Sample Time</th> <th>Sample Type (C=comp, G=grab)</th> <th>Matrix (W=water, S=solid, O=organic, B=biological, A=air)</th> <th>Field Filtered Sample (Yes or No)</th> <th>Perform MS/MSD (Yes or No)</th> <th>903.0/PreSep_21 Standard Target List</th> <th>904.0/PreSep_0 Standard Target List</th> <th>R226R228_GPC</th> <th>Total Number of Containers</th> <th>Special Instructions/Note:</th> </tr> </thead> <tbody> <tr> <td>MW-01 (500-225519-1)</td> <td>11/15/22</td> <td>09:56 Central</td> <td></td> <td>Water</td> <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>MW-08 (500-225519-2)</td> <td>11/15/22</td> <td>12:22 Central</td> <td></td> <td>Water</td> <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>MW-09 (500-225519-3)</td> <td>11/15/22</td> <td>13:18 Central</td> <td></td> <td>Water</td> <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>MW-11 (500-225519-4)</td> <td>11/15/22</td> <td>16:20 Central</td> <td></td> <td>Water</td> <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>MW-12 (500-225519-5)</td> <td>11/15/22</td> <td>15:16 Central</td> <td></td> <td>Water</td> <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> | | Sample Identification - Client ID (Lab ID) | Sample Date | Sample Time | Sample Type (C=comp, G=grab) | Matrix (W=water, S=solid, O=organic, B=biological, A=air) | 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 | R226R228_GPC | Total Number of Containers | Special Instructions/Note: | MW-01 (500-225519-1) | 11/15/22 | 09:56 Central | | Water | X | X | X | X | X | 3 | Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no | MW-08 (500-225519-2) | 11/15/22 | 12:22 Central | | Water | X | X | X | X | X | 3 | Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no | MW-09 (500-225519-3) | 11/15/22 | 13:18 Central | | Water | X | X | X | X | X | 3 | Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no | MW-11 (500-225519-4) | 11/15/22 | 16:20 Central | | Water | X | X | X | X | X | 3 | Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no | MW-12 (500-225519-5) | 11/15/22 | 15:16 Central | | Water | X | 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) | Sample Date | | | Sample Time | Sample Type (C=comp, G=grab) | Matrix (W=water, S=solid, O=organic, B=biological, A=air) | 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 | R226R228_GPC | Total Number of Containers | Special Instructions/Note: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MW-01 (500-225519-1) | 11/15/22 | 09:56 Central | | Water | X | X | X | X | X | 3 | Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MW-08 (500-225519-2) | 11/15/22 | 12:22 Central | | Water | X | X | X | X | X | 3 | Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MW-09 (500-225519-3) | 11/15/22 | 13:18 Central | | Water | X | X | X | X | X | 3 | Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MW-11 (500-225519-4) | 11/15/22 | 16:20 Central | | Water | X | X | X | X | X | 3 | Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MW-12 (500-225519-5) | 11/15/22 | 15:16 Central | | Water | X | X | X | X | X | 3 | Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project Name: Powerton CCR | Project #: 50011612 | Special Instructions/Note: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Site: MWG - Powerton | SSOW#: | Special Instructions/Note: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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

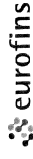
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Special Instructions/QC Requirements:

| | | | |
|--|-------------------|---|--------------------------------------|
| Empty Kit Relinquished by: | Date: | Time: | Method of Shipment: |
| Relinquished by: <i>Helene Cawsey</i> | 11/16/22 | 1600 | FED EX |
| Relinquished by: | Date/Time: | Date/Time: | Company |
| Relinquished by: | | | Company |
| Relinquished by: | | | Company |
| Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No | Custody Seal No.: | Received by: <i>Suzanne Weatherston</i> | Received by: <i>NOV 17 2022 0910</i> |
| | | Received by: | Company: <i>GYSA</i> |
| | | Received by: | Company: |
| Cooler Temperature(s) °C and Other Remarks: | | | |



Chain of Custody Record



| | | | | |
|--|--|--|---|--|
| Client Information (Sub Contract Lab) | | Lab PM: Mockler, Diana J | Carrier Tracking No(s): 500-167586.1 | |
| Client Contact: Shipping/Receiving | | E-Mail: Diana.Mockler@et.eurofins.com | Page: Page 1 of 1 | |
| Company: Eurofins Environment Testing Southeast, | | Accreditations Required (See note): NELAP - Illinois | Job #: 500-225519-1 | |
| Address: 3355 McLemore Drive, | | Due Date Requested: 12/8/2022 | Analysis Requested 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 Y - EDTA Z - other (specify) Other: | |
| City: Pensacola | | TAT Requested (days): | | |
| State, Zip: FL, 32514 | | PO #: | | |
| Phone: 850-474-1001(Tel) 850-478-2671(Fax) | | WO #: | | |
| Email: | | Project #: | | |
| Project Name: Powerton CCR | | SSOW#: | | |
| Site: MWG - Powerton | | Sample Date | | Sample Time |
| Sample Identification - Client ID (Lab ID) | | Sample Type (C=comp, G=grab) | | Matrix (W=water, S=solid, O=wastewater, B=tissue, A=Air) |
| MW-01 (500-225519-1) | | 09:56 Central | | Water |
| MW-08 (500-225519-2) | | 11/15/22 Central | | Water |
| MW-09 (500-225519-3) | | 11/15/22 13:18 Central | Water | |
| MW-11 (500-225519-4) | | 11/15/22 16:20 Central | Water | |
| MW-12 (500-225519-5) | | 11/15/22 15:16 Central | Water | |
| Special Instructions/Note: | | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | |
| Total Number of containers | | 4500 F.C | | |

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:
 Relinquished by: Date/Time: 11/16/22 1600 Company: EETA
 Relinquished by: Date/Time: Company:
 Relinquished by: Date/Time: 11/17/22 842 Company:
 Custody Seals intact: Custody Seal No.:
 Δ Yes Δ No

Special Instructions/QC Requirements:
 Return To Client Disposal By Lab Archive For _____ Months
 Method of Shipment:
 Received by: Date/Time: Company:
 Received by: Date/Time: Company:
 Received by: Date/Time: 11/17/22 842 Company:
 Cooler Temperature(s) °C and Other Remarks: 1.0°C 180



Chain of Custody Record



| | | | | | |
|---|-------|---|---------------|---|---|
| Client Information (Sub Contract Lab) | | Sampler: Mockler, Diana J | | Carrier Tracking No(s): 500-167750.1 | |
| Client Contact: Shipping/Receiving | | E-Mail: Diana.Mockler@et.eurofins.com | | Page: Page 1 of 1 | |
| Company: Eurofins Environment Testing Southeast, | | Accreditations Required (See note): NELAP - Illinois | | Job #: 500-225519-1 | |
| Address: 3355 McLemore Drive, | | Due Date Requested: 12/8/2022 | | Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify) Other: | |
| City: Pensacola | | TAT Requested (days): | | Analysis Requested | |
| State, Zip: FL, 32514 | | PO #: | | Total Number of containers | |
| Phone: 850-474-1001(Tel) 850-478-2671(Fax) | | WO #: | | Field Filtered Sample (Yes or No) | |
| Email: | | Project #: | | Perform MS/MSD (Yes or No) | |
| Project Name: Powerton CCR ABB/SB | | 50011612 | | 4500_F_C | |
| Site: MWG - Powerton | | SSOW#: | | Special Instructions/Note: | |
| Sample Identification - Client ID (Lab ID) | | Sample Date | | Sample Time | |
| Sample Type (C=Comp, G=grab) | | Preservation Code: | | Matrix (W=water, S=solid, O=water/oil, BT=Tissue, A=Air) | |
| MW-18 (500-225519-6) | Water | 11/16/22 | 09:45 Central | X | 1 |
| MW-19 (500-225519-7) | Water | 11/16/22 | 08:45 Central | X | 1 |
| Duplicate (500-225519-8) | Water | 11/16/22 | Central | X | 1 |
| MW-15 (500-225519-9) | Water | 11/16/22 | 10:30 Central | X | 1 |
| MW-17 (500-225519-10) | Water | 11/16/22 | 12:20 Central | X | 1 |
| <p>Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon out 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.</p> | | | | | |
| Possible Hazard Identification | | | | | |
| <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: _____ Relinquished by: <u>Hulme Custody</u> Date: <u>11/18/22</u> 1600 Company: <u>EFTA</u> Relinquished by: _____ Date/Time: _____ Company: _____ Relinquished by: _____ Date/Time: _____ Company: _____ Custody Seals Intact: _____ Custody Seal No.: _____ Δ Yes Δ No | | | | | |
| Received by: _____ Date/Time: _____ Company: _____ Received by: _____ Date/Time: _____ Company: _____ Received by: _____ Date/Time: <u>11.19.22 08:39</u> Company: _____ Cooler Temperature(s) °C and Other Remarks: <u>1.3°C ILS</u> | | | | | |



Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-225519-1

Login Number: 225519

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 | 1.1,0.6,-2.3 SAMPLES NOT FROZEN,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 | |



Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-225519-1

Login Number: 225519
List Number: 3
Creator: Whitley, Adrian

List Source: Eurofins Pensacola
List Creation: 11/17/22 07:49 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. | N/A | |
| 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 | 1.8°C IR8 |
| 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. | N/A | |
| 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: 500-225519-1

Login Number: 225519

List Number: 4

Creator: Roberts, Alexis J

List Source: Eurofins Pensacola

List Creation: 11/19/22 11:04 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. | N/A | |
| 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 | 1.3°C IR8 |
| 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. | N/A | |
| 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/SB

Job ID: 500-225519-1

Client Sample ID: MW-01
Date Collected: 11/15/22 09:56
Date Received: 11/16/22 10:30

Lab Sample ID: 500-225519-1
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-------------------|------------|---------------|-----|-----------------|--------------|---------|---------|--|
| Total Recoverable | Prep | 3005A | | | 687711 | BDE | EET CHI | 12/01/22 09:40 - 12/01/22 10:10 ¹ |
| Total Recoverable | Analysis | 6020A | | 1 | 687931 | FXG | EET CHI | 12/01/22 18:29 |
| Total/NA | Prep | 7470A | | | 686509 | MJG | EET CHI | 11/22/22 10:10 - 11/22/22 12:10 ¹ |
| Total/NA | Analysis | 7470A | | 1 | 686793 | MJG | EET CHI | 11/23/22 06:17 |
| Total/NA | Analysis | SM 2540C | | 1 | 685755 | CLB | EET CHI | 11/18/22 05:46 |
| Total/NA | Analysis | SM 4500 CI- E | | 2 | 687566 | LP | EET CHI | 11/30/22 12:45 |
| Total/NA | Analysis | SM 4500 F C | | 1 | 603148 | JP | EET PEN | 12/01/22 13:15 |
| Total/NA | Analysis | SM 4500 SO4 E | | 5 | 687313 | LP | EET CHI | 11/29/22 09:51 |

Client Sample ID: MW-08
Date Collected: 11/15/22 12:22
Date Received: 11/16/22 10:30

Lab Sample ID: 500-225519-2
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-------------------|------------|---------------|-----|-----------------|--------------|---------|---------|--|
| Total Recoverable | Prep | 3005A | | | 687711 | BDE | EET CHI | 12/01/22 09:40 - 12/01/22 10:10 ¹ |
| Total Recoverable | Analysis | 6020A | | 1 | 687931 | FXG | EET CHI | 12/01/22 18:47 |
| Total/NA | Prep | 7470A | | | 686509 | MJG | EET CHI | 11/22/22 10:10 - 11/22/22 12:10 ¹ |
| Total/NA | Analysis | 7470A | | 1 | 686793 | MJG | EET CHI | 11/23/22 06:19 |
| Total/NA | Analysis | SM 2540C | | 1 | 685755 | CLB | EET CHI | 11/18/22 05:48 |
| Total/NA | Analysis | SM 4500 CI- E | | 10 | 687566 | LP | EET CHI | 11/30/22 12:46 |
| Total/NA | Analysis | SM 4500 F C | | 1 | 603174 | JP | EET PEN | 12/01/22 10:09 |
| Total/NA | Analysis | SM 4500 SO4 E | | 5 | 687313 | LP | EET CHI | 11/29/22 09:51 |

Client Sample ID: MW-09
Date Collected: 11/15/22 13:18
Date Received: 11/16/22 10:30

Lab Sample ID: 500-225519-3
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-------------------|------------|---------------|-----|-----------------|--------------|---------|---------|--|
| Total Recoverable | Prep | 3005A | | | 687711 | BDE | EET CHI | 12/01/22 09:40 - 12/01/22 10:10 ¹ |
| Total Recoverable | Analysis | 6020A | | 1 | 687931 | FXG | EET CHI | 12/01/22 18:50 |
| Total/NA | Prep | 7470A | | | 686509 | MJG | EET CHI | 11/22/22 10:10 - 11/22/22 12:10 ¹ |
| Total/NA | Analysis | 7470A | | 1 | 686793 | MJG | EET CHI | 11/23/22 06:21 |
| Total/NA | Analysis | SM 2540C | | 1 | 685755 | CLB | EET CHI | 11/18/22 05:51 |
| Total/NA | Analysis | SM 4500 CI- E | | 1 | 687566 | LP | EET CHI | 11/30/22 12:44 |
| Total/NA | Analysis | SM 4500 F C | | 1 | 603148 | JP | EET PEN | 12/01/22 13:56 |
| Total/NA | Analysis | SM 4500 SO4 E | | 10 | 687313 | LP | EET CHI | 11/29/22 09:51 |

Client Sample ID: MW-11
Date Collected: 11/15/22 16:20
Date Received: 11/16/22 10:30

Lab Sample ID: 500-225519-4
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-------------------|------------|--------------|-----|-----------------|--------------|---------|---------|--|
| Total Recoverable | Prep | 3005A | | | 687711 | BDE | EET CHI | 12/01/22 09:40 - 12/01/22 10:10 ¹ |
| Total Recoverable | Analysis | 6020A | | 1 | 687931 | FXG | EET CHI | 12/01/22 18:53 |

Eurofins Chicago

Lab Chronicle

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

Job ID: 500-225519-1

Client Sample ID: MW-11

Date Collected: 11/15/22 16:20

Date Received: 11/16/22 10:30

Lab Sample ID: 500-225519-4

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|---------------|-----|-----------------|--------------|---------|---------|--|
| Total/NA | Prep | 7470A | | | 686509 | MJG | EET CHI | 11/22/22 10:10 - 11/22/22 12:10 ¹ |
| Total/NA | Analysis | 7470A | | 1 | 686793 | MJG | EET CHI | 11/23/22 06:23 |
| Total/NA | Analysis | SM 2540C | | 1 | 685755 | CLB | EET CHI | 11/18/22 05:54 |
| Total/NA | Analysis | SM 4500 CI- E | | 10 | 687566 | LP | EET CHI | 11/30/22 12:46 |
| Total/NA | Analysis | SM 4500 F C | | 1 | 603174 | JP | EET PEN | 12/01/22 10:09 |
| Total/NA | Analysis | SM 4500 SO4 E | | 10 | 687313 | LP | EET CHI | 11/29/22 09:52 |

Client Sample ID: MW-12

Date Collected: 11/15/22 15:16

Date Received: 11/16/22 10:30

Lab Sample ID: 500-225519-5

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-------------------|------------|---------------|-----|-----------------|--------------|---------|---------|--|
| Total Recoverable | Prep | 3005A | | | 687711 | BDE | EET CHI | 12/01/22 09:40 - 12/01/22 10:10 ¹ |
| Total Recoverable | Analysis | 6020A | | 1 | 687931 | FXG | EET CHI | 12/01/22 19:04 |
| Total/NA | Prep | 7470A | | | 686509 | MJG | EET CHI | 11/22/22 10:10 - 11/22/22 12:10 ¹ |
| Total/NA | Analysis | 7470A | | 1 | 686793 | MJG | EET CHI | 11/23/22 06:51 |
| Total/NA | Analysis | SM 2540C | | 1 | 685755 | CLB | EET CHI | 11/18/22 05:56 |
| Total/NA | Analysis | SM 4500 CI- E | | 10 | 687566 | LP | EET CHI | 11/30/22 12:47 |
| Total/NA | Analysis | SM 4500 F C | | 1 | 603174 | JP | EET PEN | 12/01/22 10:09 |
| Total/NA | Analysis | SM 4500 SO4 E | | 10 | 687313 | LP | EET CHI | 11/29/22 09:52 |

Client Sample ID: MW-18

Date Collected: 11/16/22 09:45

Date Received: 11/17/22 10:10

Lab Sample ID: 500-225519-6

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-------------------|------------|---------------|-----|-----------------|--------------|---------|---------|--|
| Total Recoverable | Prep | 3005A | | | 687711 | BDE | EET CHI | 12/01/22 09:40 - 12/01/22 10:10 ¹ |
| Total Recoverable | Analysis | 6020A | | 1 | 687931 | FXG | EET CHI | 12/01/22 19:07 |
| Total/NA | Prep | 7470A | | | 686509 | MJG | EET CHI | 11/22/22 10:10 - 11/22/22 12:10 ¹ |
| Total/NA | Analysis | 7470A | | 1 | 686793 | MJG | EET CHI | 11/23/22 07:00 |
| Total/NA | Analysis | SM 2540C | | 1 | 686167 | CLB | EET CHI | 11/21/22 05:08 |
| Total/NA | Analysis | SM 4500 CI- E | | 10 | 687566 | LP | EET CHI | 11/30/22 12:47 |
| Total/NA | Analysis | SM 4500 F C | | 1 | 603174 | JP | EET PEN | 12/01/22 10:09 |
| Total/NA | Analysis | SM 4500 SO4 E | | 10 | 687313 | LP | EET CHI | 11/29/22 09:53 |

Client Sample ID: MW-19

Date Collected: 11/16/22 08:45

Date Received: 11/17/22 10:10

Lab Sample ID: 500-225519-7

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-------------------|------------|--------------|-----|-----------------|--------------|---------|---------|--|
| Total Recoverable | Prep | 3005A | | | 687711 | BDE | EET CHI | 12/01/22 09:40 - 12/01/22 10:10 ¹ |
| Total Recoverable | Analysis | 6020A | | 1 | 687931 | FXG | EET CHI | 12/01/22 19:11 |
| Total/NA | Prep | 7470A | | | 686509 | MJG | EET CHI | 11/22/22 10:10 - 11/22/22 12:10 ¹ |
| Total/NA | Analysis | 7470A | | 1 | 686793 | MJG | EET CHI | 11/23/22 07:02 |

Eurofins Chicago

Lab Chronicle

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

Job ID: 500-225519-1

Client Sample ID: MW-19

Date Collected: 11/16/22 08:45

Date Received: 11/17/22 10:10

Lab Sample ID: 500-225519-7

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|---------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA | Analysis | SM 2540C | | 1 | 686167 | CLB | EET CHI | 11/21/22 05:10 |
| Total/NA | Analysis | SM 4500 CI- E | | 5 | 687566 | LP | EET CHI | 11/30/22 12:47 |
| Total/NA | Analysis | SM 4500 F C | | 1 | 603174 | JP | EET PEN | 12/01/22 10:09 |
| Total/NA | Analysis | SM 4500 SO4 E | | 5 | 687313 | LP | EET CHI | 11/29/22 09:54 |

Client Sample ID: Duplicate

Date Collected: 11/16/22 00:00

Date Received: 11/17/22 10:10

Lab Sample ID: 500-225519-8

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-------------------|------------|---------------|-----|-----------------|--------------|---------|---------|--|
| Total Recoverable | Prep | 3005A | | | 687711 | BDE | EET CHI | 12/01/22 09:40 - 12/01/22 10:10 ¹ |
| Total Recoverable | Analysis | 6020A | | 1 | 687931 | FXG | EET CHI | 12/01/22 19:14 |
| Total/NA | Prep | 7470A | | | 686509 | MJG | EET CHI | 11/22/22 10:10 - 11/22/22 12:10 ¹ |
| Total/NA | Analysis | 7470A | | 1 | 686793 | MJG | EET CHI | 11/23/22 07:05 |
| Total/NA | Analysis | SM 2540C | | 1 | 686167 | CLB | EET CHI | 11/21/22 05:13 |
| Total/NA | Analysis | SM 4500 CI- E | | 2 | 687566 | LP | EET CHI | 11/30/22 12:48 |
| Total/NA | Analysis | SM 4500 F C | | 1 | 603174 | JP | EET PEN | 12/01/22 10:09 |
| Total/NA | Analysis | SM 4500 SO4 E | | 5 | 687313 | LP | EET CHI | 11/29/22 09:54 |

Client Sample ID: MW-15

Date Collected: 11/16/22 10:30

Date Received: 11/18/22 10:00

Lab Sample ID: 500-225519-9

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-------------------|------------|---------------|-----|-----------------|--------------|---------|---------|--|
| Total Recoverable | Prep | 3005A | | | 687711 | BDE | EET CHI | 12/01/22 09:40 - 12/01/22 10:10 ¹ |
| Total Recoverable | Analysis | 6020A | | 1 | 687931 | FXG | EET CHI | 12/01/22 19:18 |
| Total/NA | Prep | 7470A | | | 686509 | MJG | EET CHI | 11/22/22 10:10 - 11/22/22 12:10 ¹ |
| Total/NA | Analysis | 7470A | | 1 | 686793 | MJG | EET CHI | 11/23/22 07:07 |
| Total/NA | Analysis | SM 2540C | | 1 | 686167 | CLB | EET CHI | 11/21/22 05:15 |
| Total/NA | Analysis | SM 4500 CI- E | | 10 | 687566 | LP | EET CHI | 11/30/22 12:48 |
| Total/NA | Analysis | SM 4500 F C | | 1 | 603174 | JP | EET PEN | 12/01/22 10:09 |
| Total/NA | Analysis | SM 4500 SO4 E | | 20 | 687313 | LP | EET CHI | 11/29/22 09:54 |

Client Sample ID: MW-17

Date Collected: 11/16/22 12:20

Date Received: 11/18/22 10:00

Lab Sample ID: 500-225519-10

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-------------------|------------|---------------|-----|-----------------|--------------|---------|---------|--|
| Total Recoverable | Prep | 3005A | | | 687711 | BDE | EET CHI | 12/01/22 09:40 - 12/01/22 10:10 ¹ |
| Total Recoverable | Analysis | 6020A | | 1 | 687931 | FXG | EET CHI | 12/01/22 19:21 |
| Total/NA | Prep | 7470A | | | 686509 | MJG | EET CHI | 11/22/22 10:10 - 11/22/22 12:10 ¹ |
| Total/NA | Analysis | 7470A | | 1 | 686793 | MJG | EET CHI | 11/23/22 07:09 |
| Total/NA | Analysis | SM 2540C | | 1 | 686167 | CLB | EET CHI | 11/21/22 05:18 |
| Total/NA | Analysis | SM 4500 CI- E | | 10 | 687566 | LP | EET CHI | 11/30/22 12:48 |

Eurofins Chicago

Lab Chronicle

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

Job ID: 500-225519-1

Client Sample ID: MW-17

Lab Sample ID: 500-225519-10

Date Collected: 11/16/22 12:20

Matrix: Water

Date Received: 11/18/22 10:00

| <u>Prep Type</u> | <u>Batch Type</u> | <u>Batch Method</u> | <u>Run</u> | <u>Dilution Factor</u> | <u>Batch Number</u> | <u>Analyst</u> | <u>Lab</u> | <u>Prepared or Analyzed</u> |
|------------------|-------------------|---------------------|------------|------------------------|---------------------|----------------|------------|-----------------------------|
| Total/NA | Analysis | SM 4500 F C | | 1 | 603174 | JP | EET PEN | 12/01/22 10:09 |
| Total/NA | Analysis | SM 4500 SO4 E | | 50 | 687313 | LP | EET CHI | 11/29/22 10:27 |

* 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

EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Accreditation/Certification Summary

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

Job ID: 500-225519-1

Laboratory: Eurofins Chicago

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

| Authority | Program | Identification Number | Expiration Date |
|-----------|---------|-----------------------|-----------------|
| Illinois | NELAP | IL00035 | 04-30-23 |

Laboratory: Eurofins Pensacola

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

| Authority | Program | Identification Number | Expiration Date |
|------------------------|---------------------|-----------------------|-----------------|
| Alabama | State | 40150 | 06-30-23 |
| ANAB | ISO/IEC 17025 | L2471 | 02-23-23 |
| Arkansas DEQ | State | 88-0689 | 09-01-23 |
| California | State | 2510 | 06-30-23 |
| Florida | NELAP | E81010 | 06-30-23 |
| Georgia | State | E81010(FL) | 06-30-23 |
| Illinois | NELAP | 200041 | 10-09-23 |
| Kansas | NELAP | E-10253 | 10-31-23 |
| Kentucky (UST) | State | 53 | 06-30-23 |
| Kentucky (WW) | State | KY98030 | 12-31-22 |
| Louisiana (All) | NELAP | 30976 | 06-30-23 |
| Louisiana (DW) | State | LA017 | 12-31-22 |
| Maryland | State | 233 | 09-30-23 |
| Michigan | State | 9912 | 06-30-23 |
| North Carolina (WW/SW) | State | 314 | 12-31-22 |
| Oklahoma | NELAP | 9810 | 08-31-23 |
| Pennsylvania | NELAP | 68-00467 | 01-31-23 |
| South Carolina | State | 96026 | 06-30-23 |
| Tennessee | State | TN02907 | 06-30-23 |
| Texas | NELAP | T104704286 | 09-30-23 |
| US Fish & Wildlife | US Federal Programs | A22340 | 06-30-23 |
| USDA | US Federal Programs | P330-21-00056 | 05-17-24 |
| Virginia | NELAP | 460166 | 06-14-23 |
| West Virginia DEP | State | 136 | 03-31-23 |

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

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

Generated 12/20/2022 8:25:44 AM

JOB DESCRIPTION

Powerton CCR ABB/ASB (RAD)

JOB NUMBER

500-225519-2

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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12/20/2022 8:25:44 AM

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: 500-225519-2

Job ID: 500-225519-2

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-225519-2

Comments

No additional comments.

Receipt

The samples were received on 11/16/2022 10:30 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 -2.3° C, 0.6° C, 1.1° C and 1.1° C.

RAD

Method 903.0: Radium-226 batch 591051

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 (500-225519-1), MW-08 (500-225519-2), MW-09 (500-225519-3), MW-11 (500-225519-4), MW-12 (500-225519-5), MW-18 (500-225519-6), MW-19 (500-225519-7), Duplicate (500-225519-8), MW-15 (500-225519-9), MW-17 (500-225519-10), (LCS 160-591051/2-A), (MB 160-591051/1-A) and (500-225519-G-1-A DU)

Method 904.0: Radium-228 batch 591060

The detection goal was not met for the following sample(s). Sample was prepped at a reduced volume due to the presence of matrix interferences: MW-18 (500-225519-6). Analytical results are reported with the detection limit achieved.

Method 904.0: Radium-228 batch 591060

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 (500-225519-1), MW-08 (500-225519-2), MW-09 (500-225519-3), MW-11 (500-225519-4), MW-12 (500-225519-5), MW-18 (500-225519-6), MW-19 (500-225519-7), Duplicate (500-225519-8), MW-15 (500-225519-9), MW-17 (500-225519-10), (LCS 160-591060/2-A), (MB 160-591060/1-A) and (500-225519-G-1-B 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 ABB/ASB (RAD)

Job ID: 500-225519-2

| 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: 500-225519-2

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 500-225519-1 | MW-01 | Water | 11/15/22 09:56 | 11/16/22 10:30 |
| 500-225519-2 | MW-08 | Water | 11/15/22 12:22 | 11/16/22 10:30 |
| 500-225519-3 | MW-09 | Water | 11/15/22 13:18 | 11/16/22 10:30 |
| 500-225519-4 | MW-11 | Water | 11/15/22 16:20 | 11/16/22 10:30 |
| 500-225519-5 | MW-12 | Water | 11/15/22 15:16 | 11/16/22 10:30 |
| 500-225519-6 | MW-18 | Water | 11/16/22 09:45 | 11/17/22 10:10 |
| 500-225519-7 | MW-19 | Water | 11/16/22 08:45 | 11/17/22 10:10 |
| 500-225519-8 | Duplicate | Water | 11/16/22 00:00 | 11/17/22 10:10 |
| 500-225519-9 | MW-15 | Water | 11/16/22 10:30 | 11/18/22 10:00 |
| 500-225519-10 | MW-17 | Water | 11/16/22 12:20 | 11/18/22 10:00 |

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Client Sample Results

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

Job ID: 500-225519-2

Client Sample ID: MW-01
Date Collected: 11/15/22 09:56
Date Received: 11/16/22 10:30

Lab Sample ID: 500-225519-1
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 | 0.0289 | U | 0.0772 | 0.0772 | 1.00 | 0.142 | pCi/L | 11/23/22 08:18 | 12/19/22 12:31 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 93.0 | | 40 - 110 | | | | | 11/23/22 08:18 | 12/19/22 12:31 | 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 | 0.128 | U | 0.255 | 0.255 | 1.00 | 0.446 | pCi/L | 11/23/22 08:43 | 12/14/22 11:37 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 93.0 | | 40 - 110 | | | | | 11/23/22 08:43 | 12/14/22 11:37 | 1 |
| Y Carrier | 83.0 | | 40 - 110 | | | | | 11/23/22 08:43 | 12/14/22 11:37 | 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 | 0.157 | U | 0.266 | 0.266 | 5.00 | 0.446 | pCi/L | | 12/19/22 17:29 | 1 |

Client Sample Results

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

Job ID: 500-225519-2

Client Sample ID: MW-08
Date Collected: 11/15/22 12:22
Date Received: 11/16/22 10:30

Lab Sample ID: 500-225519-2
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 | 0.222 | | 0.111 | 0.113 | 1.00 | 0.140 | pCi/L | 11/23/22 08:18 | 12/19/22 12:31 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 97.8 | | 40 - 110 | | | | | 11/23/22 08:18 | 12/19/22 12:31 | 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 | 0.229 | U | 0.252 | 0.253 | 1.00 | 0.410 | pCi/L | 11/23/22 08:43 | 12/14/22 11:38 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 97.8 | | 40 - 110 | | | | | 11/23/22 08:43 | 12/14/22 11:38 | 1 |
| Y Carrier | 89.0 | | 40 - 110 | | | | | 11/23/22 08:43 | 12/14/22 11:38 | 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 | 0.451 | | 0.275 | 0.277 | 5.00 | 0.410 | pCi/L | | 12/19/22 17:29 | 1 |

Client Sample Results

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

Job ID: 500-225519-2

Client Sample ID: MW-09

Lab Sample ID: 500-225519-3

Date Collected: 11/15/22 13:18

Matrix: Water

Date Received: 11/16/22 10:30

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 | 0.00275 | U | 0.0608 | 0.0608 | 1.00 | 0.126 | pCi/L | 11/23/22 08:18 | 12/19/22 12:32 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 90.3 | | 40 - 110 | | | | | 11/23/22 08:18 | 12/19/22 12:32 | 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 | 0.369 | U | 0.295 | 0.297 | 1.00 | 0.448 | pCi/L | 11/23/22 08:43 | 12/14/22 11:38 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 90.3 | | 40 - 110 | | | | | 11/23/22 08:43 | 12/14/22 11:38 | 1 |
| Y Carrier | 81.9 | | 40 - 110 | | | | | 11/23/22 08:43 | 12/14/22 11:38 | 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 | 0.372 | U | 0.301 | 0.303 | 5.00 | 0.448 | pCi/L | | 12/19/22 17:29 | 1 |

Client Sample Results

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

Job ID: 500-225519-2

Client Sample ID: MW-11

Lab Sample ID: 500-225519-4

Date Collected: 11/15/22 16:20

Matrix: Water

Date Received: 11/16/22 10:30

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 | 0.157 | | 0.0988 | 0.0998 | 1.00 | 0.133 | pCi/L | 11/23/22 08:18 | 12/19/22 12:32 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 91.3 | | 40 - 110 | | | | | 11/23/22 08:18 | 12/19/22 12:32 | 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 | 0.629 | | 0.348 | 0.353 | 1.00 | 0.490 | pCi/L | 11/23/22 08:43 | 12/14/22 11:38 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 91.3 | | 40 - 110 | | | | | 11/23/22 08:43 | 12/14/22 11:38 | 1 |
| Y Carrier | 84.1 | | 40 - 110 | | | | | 11/23/22 08:43 | 12/14/22 11:38 | 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 | 0.785 | | 0.362 | 0.367 | 5.00 | 0.490 | pCi/L | | 12/19/22 17:29 | 1 |

Client Sample Results

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

Job ID: 500-225519-2

Client Sample ID: MW-12
Date Collected: 11/15/22 15:16
Date Received: 11/16/22 10:30

Lab Sample ID: 500-225519-5
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 | 0.208 | | 0.119 | 0.121 | 1.00 | 0.160 | pCi/L | 11/23/22 08:18 | 12/19/22 12:32 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 87.4 | | 40 - 110 | | | | | 11/23/22 08:18 | 12/19/22 12:32 | 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 | 0.200 | U | 0.362 | 0.363 | 1.00 | 0.622 | pCi/L | 11/23/22 08:43 | 12/14/22 11:39 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 87.4 | | 40 - 110 | | | | | 11/23/22 08:43 | 12/14/22 11:39 | 1 |
| Y Carrier | 82.2 | | 40 - 110 | | | | | 11/23/22 08:43 | 12/14/22 11:39 | 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 | 0.408 | U | 0.381 | 0.383 | 5.00 | 0.622 | pCi/L | | 12/19/22 17:29 | 1 |

Client Sample Results

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

Job ID: 500-225519-2

Client Sample ID: MW-18
Date Collected: 11/16/22 09:45
Date Received: 11/17/22 10:10

Lab Sample ID: 500-225519-6
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 | 0.446 | U | 0.581 | 0.582 | 1.00 | 0.969 | pCi/L | 11/23/22 08:18 | 12/19/22 12:32 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 49.5 | | 40 - 110 | | | | | 11/23/22 08:18 | 12/19/22 12:32 | 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 | 4.48 | G | 2.38 | 2.42 | 1.00 | 3.30 | pCi/L | 11/23/22 08:43 | 12/14/22 11:39 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 49.5 | | 40 - 110 | | | | | 11/23/22 08:43 | 12/14/22 11:39 | 1 |
| Y Carrier | 89.3 | | 40 - 110 | | | | | 11/23/22 08:43 | 12/14/22 11:39 | 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 | 4.93 | | 2.45 | 2.49 | 5.00 | 3.30 | pCi/L | | 12/19/22 17:29 | 1 |

Client Sample Results

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

Job ID: 500-225519-2

Client Sample ID: MW-19
Date Collected: 11/16/22 08:45
Date Received: 11/17/22 10:10

Lab Sample ID: 500-225519-7
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 | 0.119 | U | 0.0949 | 0.0955 | 1.00 | 0.139 | pCi/L | 11/23/22 08:18 | 12/19/22 12:32 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 88.1 | | 40 - 110 | | | | | 11/23/22 08:18 | 12/19/22 12:32 | 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 | 0.627 | | 0.389 | 0.393 | 1.00 | 0.575 | pCi/L | 11/23/22 08:43 | 12/14/22 11:40 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 88.1 | | 40 - 110 | | | | | 11/23/22 08:43 | 12/14/22 11:40 | 1 |
| Y Carrier | 85.2 | | 40 - 110 | | | | | 11/23/22 08:43 | 12/14/22 11:40 | 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 | 0.746 | | 0.400 | 0.404 | 5.00 | 0.575 | pCi/L | | 12/19/22 17:29 | 1 |

Client Sample Results

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

Job ID: 500-225519-2

Client Sample ID: Duplicate

Lab Sample ID: 500-225519-8

Date Collected: 11/16/22 00:00

Matrix: Water

Date Received: 11/17/22 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 | 0.0853 | U | 0.0984 | 0.0987 | 1.00 | 0.161 | pCi/L | 11/23/22 08:18 | 12/19/22 12:32 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 90.8 | | 40 - 110 | | | | | 11/23/22 08:18 | 12/19/22 12:32 | 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 | 0.501 | U | 0.354 | 0.357 | 1.00 | 0.535 | pCi/L | 11/23/22 08:43 | 12/14/22 11:40 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 90.8 | | 40 - 110 | | | | | 11/23/22 08:43 | 12/14/22 11:40 | 1 |
| Y Carrier | 83.4 | | 40 - 110 | | | | | 11/23/22 08:43 | 12/14/22 11:40 | 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 | 0.586 | | 0.367 | 0.370 | 5.00 | 0.535 | pCi/L | | 12/19/22 17:29 | 1 |

Client Sample Results

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

Job ID: 500-225519-2

Client Sample ID: MW-15

Lab Sample ID: 500-225519-9

Date Collected: 11/16/22 10:30

Matrix: Water

Date Received: 11/18/22 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 | 0.0862 | U | 0.0906 | 0.0909 | 1.00 | 0.145 | pCi/L | 11/23/22 08:18 | 12/19/22 12:32 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 93.0 | | 40 - 110 | | | | | 11/23/22 08:18 | 12/19/22 12:32 | 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 | 0.404 | U | 0.310 | 0.312 | 1.00 | 0.472 | pCi/L | 11/23/22 08:43 | 12/14/22 11:40 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 93.0 | | 40 - 110 | | | | | 11/23/22 08:43 | 12/14/22 11:40 | 1 |
| Y Carrier | 82.2 | | 40 - 110 | | | | | 11/23/22 08:43 | 12/14/22 11:40 | 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 | 0.490 | | 0.323 | 0.325 | 5.00 | 0.472 | pCi/L | | 12/19/22 17:29 | 1 |

Client Sample Results

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

Job ID: 500-225519-2

Client Sample ID: MW-17

Lab Sample ID: 500-225519-10

Date Collected: 11/16/22 12:20

Matrix: Water

Date Received: 11/18/22 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 | 0.0665 | U | 0.0829 | 0.0831 | 1.00 | 0.137 | pCi/L | 11/23/22 08:18 | 12/19/22 12:32 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 93.0 | | 40 - 110 | | | | | 11/23/22 08:18 | 12/19/22 12:32 | 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 | 0.445 | U | 0.302 | 0.305 | 1.00 | 0.448 | pCi/L | 11/23/22 08:43 | 12/14/22 11:41 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 93.0 | | 40 - 110 | | | | | 11/23/22 08:43 | 12/14/22 11:41 | 1 |
| Y Carrier | 90.8 | | 40 - 110 | | | | | 11/23/22 08:43 | 12/14/22 11:41 | 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 | 0.512 | | 0.313 | 0.316 | 5.00 | 0.448 | pCi/L | | 12/19/22 17:29 | 1 |

Definitions/Glossary

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

Job ID: 500-225519-2

Qualifiers

Rad

| Qualifier | Qualifier Description |
|-----------|--|
| G | The Sample MDC is greater than the requested RL. |
| 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: 500-225519-2

Rad

Prep Batch: 591051

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|------------|------------|
| 500-225519-1 | MW-01 | Total/NA | Water | PrecSep-21 | |
| 500-225519-2 | MW-08 | Total/NA | Water | PrecSep-21 | |
| 500-225519-3 | MW-09 | Total/NA | Water | PrecSep-21 | |
| 500-225519-4 | MW-11 | Total/NA | Water | PrecSep-21 | |
| 500-225519-5 | MW-12 | Total/NA | Water | PrecSep-21 | |
| 500-225519-6 | MW-18 | Total/NA | Water | PrecSep-21 | |
| 500-225519-7 | MW-19 | Total/NA | Water | PrecSep-21 | |
| 500-225519-8 | Duplicate | Total/NA | Water | PrecSep-21 | |
| 500-225519-9 | MW-15 | Total/NA | Water | PrecSep-21 | |
| 500-225519-10 | MW-17 | Total/NA | Water | PrecSep-21 | |
| MB 160-591051/1-A | Method Blank | Total/NA | Water | PrecSep-21 | |
| LCS 160-591051/2-A | Lab Control Sample | Total/NA | Water | PrecSep-21 | |
| 500-225519-1 DU | MW-01 | Total/NA | Water | PrecSep-21 | |

Prep Batch: 591060

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|-----------|------------|
| 500-225519-1 | MW-01 | Total/NA | Water | PrecSep_0 | |
| 500-225519-2 | MW-08 | Total/NA | Water | PrecSep_0 | |
| 500-225519-3 | MW-09 | Total/NA | Water | PrecSep_0 | |
| 500-225519-4 | MW-11 | Total/NA | Water | PrecSep_0 | |
| 500-225519-5 | MW-12 | Total/NA | Water | PrecSep_0 | |
| 500-225519-6 | MW-18 | Total/NA | Water | PrecSep_0 | |
| 500-225519-7 | MW-19 | Total/NA | Water | PrecSep_0 | |
| 500-225519-8 | Duplicate | Total/NA | Water | PrecSep_0 | |
| 500-225519-9 | MW-15 | Total/NA | Water | PrecSep_0 | |
| 500-225519-10 | MW-17 | Total/NA | Water | PrecSep_0 | |
| MB 160-591060/1-A | Method Blank | Total/NA | Water | PrecSep_0 | |
| LCS 160-591060/2-A | Lab Control Sample | Total/NA | Water | PrecSep_0 | |
| 500-225519-1 DU | MW-01 | Total/NA | Water | PrecSep_0 | |

QC Sample Results

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

Job ID: 500-225519-2

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-591051/1-A
Matrix: Water
Analysis Batch: 594203

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 591051

| Analyte | MB MB | | Count | Total | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|---------|-----------|-----------------|-----------------|------|----------------|----------------|----------------|----------------|---------|
| | Result | Qualifier | Uncert. (2σ+/-) | Uncert. (2σ+/-) | | | | | | |
| Radium-226 | 0.03858 | U | 0.0668 | 0.0669 | 1.00 | 0.118 | pCi/L | 11/23/22 08:18 | 12/19/22 12:29 | 1 |
| Carrier | MB MB | | Limits | | | Prepared | Analyzed | Dil Fac | | |
| | %Yield | Qualifier | | | | | | | | |
| Ba Carrier | 94.7 | | 40 - 110 | | | 11/23/22 08:18 | 12/19/22 12:29 | 1 | | |

Lab Sample ID: LCS 160-591051/2-A
Matrix: Water
Analysis Batch: 594203

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 591051

| Analyte | Spike Added | LCS Result | LCS Qual | Total | RL | MDC | Unit | %Rec | %Rec Limits |
|------------|-------------|------------|----------|-----------------|------|----------|----------|---------|-------------|
| | | | | Uncert. (2σ+/-) | | | | | |
| Radium-226 | 11.3 | 9.330 | | 1.03 | 1.00 | 0.130 | pCi/L | 82 | 75 - 125 |
| Carrier | LCS LCS | | Limits | | | Prepared | Analyzed | Dil Fac | |
| | %Yield | Qualifier | | | | | | | |
| Ba Carrier | 92.7 | | 40 - 110 | | | | | | |

Lab Sample ID: 500-225519-1 DU
Matrix: Water
Analysis Batch: 594202

Client Sample ID: MW-01
Prep Type: Total/NA
Prep Batch: 591051

| Analyte | Sample Sample | | DU | DU | Total | RL | MDC | Unit | RER | RER Limit |
|------------|---------------|-----------|----------|------|-----------------|----------|----------|---------|------|-----------|
| | Result | Qual | Result | Qual | Uncert. (2σ+/-) | | | | | |
| Radium-226 | 0.0289 | U | 0.08766 | U | 0.0831 | 1.00 | 0.128 | pCi/L | 0.37 | 1 |
| Carrier | DU DU | | Limits | | | Prepared | Analyzed | Dil Fac | | |
| | %Yield | Qualifier | | | | | | | | |
| Ba Carrier | 95.9 | | 40 - 110 | | | | | | | |

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-591060/1-A
Matrix: Water
Analysis Batch: 593574

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 591060

| Analyte | MB MB | | Count | Total | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------|-----------------|------|----------------|----------------|----------------|----------------|---------|
| | Result | Qualifier | Uncert. (2σ+/-) | Uncert. (2σ+/-) | | | | | | |
| Radium-228 | 0.2855 | U | 0.293 | 0.294 | 1.00 | 0.473 | pCi/L | 11/23/22 08:43 | 12/14/22 11:35 | 1 |
| Carrier | MB MB | | Limits | | | Prepared | Analyzed | Dil Fac | | |
| | %Yield | Qualifier | | | | | | | | |
| Ba Carrier | 94.7 | | 40 - 110 | | | 11/23/22 08:43 | 12/14/22 11:35 | 1 | | |
| Y Carrier | 87.1 | | 40 - 110 | | | 11/23/22 08:43 | 12/14/22 11:35 | 1 | | |

QC Sample Results

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

Job ID: 500-225519-2

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

Lab Sample ID: LCS 160-591060/2-A
Matrix: Water
Analysis Batch: 593574

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 591060

| Analyte | Spike Added | LCS Result | LCS Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec Limits | |
|----------------|---------------|------------------|---------------|-----------------------|------|-------|-------|------|-------------|--|
| | | | | | | | | | | |
| Radium-228 | 8.36 | 10.27 | | 1.37 | 1.00 | 0.630 | pCi/L | 123 | 75 - 125 | |
| LCS LCS | | | | | | | | | | |
| Carrier | %Yield | Qualifier | Limits | | | | | | | |
| Ba Carrier | 92.7 | | 40 - 110 | | | | | | | |
| Y Carrier | 83.7 | | 40 - 110 | | | | | | | |

Lab Sample ID: 500-225519-1 DU
Matrix: Water
Analysis Batch: 593573

Client Sample ID: MW-01
Prep Type: Total/NA
Prep Batch: 591060

| Analyte | Sample Result | Sample Qual | DU Result | DU Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | RER | RER Limit |
|----------------|---------------|------------------|---------------|---------|-----------------------|------|-------|-------|------|-----------|
| | | | | | | | | | | 1 |
| Radium-228 | 0.128 | U | 0.6250 | | 0.335 | 1.00 | 0.458 | pCi/L | 0.84 | 1 |
| DU DU | | | | | | | | | | |
| Carrier | %Yield | Qualifier | Limits | | | | | | | |
| Ba Carrier | 95.9 | | 40 - 110 | | | | | | | |
| Y Carrier | 87.1 | | 40 - 110 | | | | | | | |

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

SHIP DATE: 15N
ACTWGT: 48.45
CAD: 6994780/S
DIMS: 24x13x14

WESTMONT, IL 60559
UNITED STATES US

BILL THIRD PARTY

TO EUROFINS CHICAGO
EUROFINS CHICAGO
2417 BOND ST

UNIVERSITY PARK IL 60484

(708) 534-5200

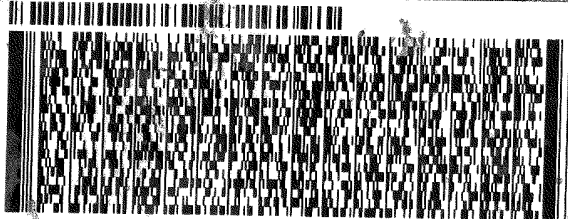
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500-225519 Waybi

INU:

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DEPT:



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Express



REL#
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J224222101801UY

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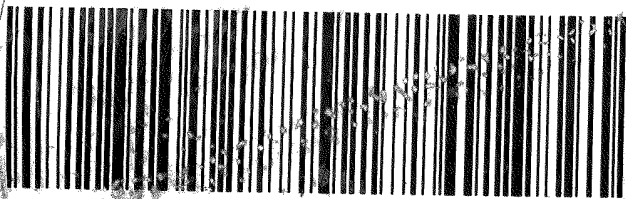
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PRIORITY OVERNIGHT

AHS

60484

IL-US ORD



519

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

SHIP DATE: 15NOV22
ACTWGT: 48.45 LB
CAD: 6994780/SSFE2341
DIMS: 24x13x14 IN

WESTMONT, IL 60559
UNITED STATES US

BILL THIRDP PARTY

TO EUROFINS CHICAGO
EUROFINS CHICAGO
2417 BOND ST

UNIVERSITY PARK IL 60484

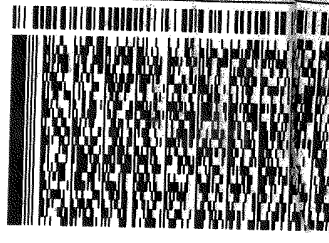
(708) 534-5200

REF:

INU:

PO:

DEPT:



FedEx
Express



REL#
3785346

J224222101801UY

2 of 7

MPS# 3906 9224 8910
0263

Mstr# 3906 9224 8909

201

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WED - 16 NOV 10:30A
PRIORITY OVERNIGHT

AHS

60484

IL-US ORD



Part# 1562974359
RPN# 1562974359
EXP 06/23



ORIGIN ID:PIAA (262) 278-621
KAELYN
KPRG AND ASSOCIATES
414 PLAZA DR STE 106
WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 16NOV22
ACTWT: 57.55 LB
CAD: 6994780/SSFE2341
DIMS: 24x13x14 IN
BILL THIRD PARTY

TO EUROFINS CHICAGO
EUROFINS CHICAGO
2417 BOND ST

UNIVERSITY PARK IL 60484

(708) 634-5200
PHU:
PO:

REF:

DEPT:



FedEx
Express



REL#
3785346

2 of 2
MPS# 3907 4264 9753
0263
Mstr# 3907 4264 9742

THU - 17 NOV 10:30A
PRIORITY OVERNIGHT

0201

XN JOTA

60484
IL-US ORD



Part # 156297-495
R009 RFP 08/23
421,809 of 185

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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: 17NOV22
ACTWGT: 38.00 LB
CAD: 6994779/SSFE2341
DIMS: 24x18x12 IN

BILL THIRD PARTY

Part # 156287 (23) 48321 EXP 06/23

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



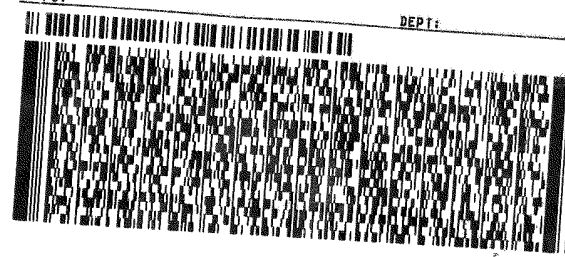
UNIVERSITY PARK IL 60484

500-225519 Waybi

(708) 634-5200
PH:
PO:

REF:

DEPT:



FedEx
Express



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TRK# 3907 9045 7427
[0201]

FRI - 18 NOV 10:30A
PRIORITY OVERNIGHT

XN JOTA

60484
IL-US ORD



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Chain of Custody Record



| | | | | | |
|--|--|-------------------------------------|---|-------------------------|--------------|
| Client Information (Sub Contract Lab) | | Sampler: | Lab PM: | Carrier Tracking No(s): | COC No: |
| Shipping/Receiving | | Phone: | Mockler, Diana J | 500-167594-1 | 500-167594-1 |
| Company: | | E-Mail: | Diana Mockler@et.eurofins.com | State of Origin: | Page: |
| TestAmerica Laboratories, Inc. | | Accreditations Required (See note): | | Illinois | Page 1 of 1 |
| Address: | | Due Date Requested: | Job #: | | |
| 13715 Rider Trail North, | | 12/19/2022 | 500-225519-2 | | |
| City: | | TAT Requested (days): | Preservation Codes: | | |
| Earth City | | | 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) | | |
| State, Zip: | | PO #: | Other: | | |
| MO, 63045 | | | | | |
| Phone: | | WO #: | | | |
| 314-298-8566(Tel) 314-298-8757(Fax) | | | | | |
| E-mail: | | Project #: | | | |
| | | 50011612 | | | |
| Project Name: | | SSOW#: | | | |
| Powerton CCR | | | | | |
| Site: | | | | | |
| MWG - Powerton | | | | | |

| Sample Identification - Client ID (Lab ID) | Sample Date | Sample Time | Sample Type (C=comp, G=grab) | Matrix (Wettest, Solid, Organic, BT, Inert, A=Air) | 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 | R226R228_GPC | Total Number of Containers | Special Instructions/Note: |
|--|-------------|---------------|------------------------------|--|-----------------------------------|----------------------------|--------------------------------------|-------------------------------------|--------------|----------------------------|---|
| MW-01 (500-225519-1) | 11/15/22 | 09:56 Central | | Water | X | X | X | X | X | 3 | Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no |
| MW-08 (500-225519-2) | 11/15/22 | 12:22 Central | | Water | X | X | X | X | X | 3 | Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no |
| MW-09 (500-225519-3) | 11/15/22 | 13:18 Central | | Water | X | X | X | X | X | 3 | Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no |
| MW-11 (500-225519-4) | 11/15/22 | 16:20 Central | | Water | X | X | X | X | X | 3 | Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no |
| MW-12 (500-225519-5) | 11/15/22 | 15:16 Central | | Water | X | X | X | X | X | 3 | 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/test/mainx 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) Return To Client Disposal By Lab Archive For Months

Primary Deliverable Rank: 2

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Special Instructions/QC Requirements:



Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-225519-2

Login Number: 225519

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 | 1.1,0.6,-2.3 SAMPLES NOT FROZEN,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 | |

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-225519-2

Login Number: 225519

List Number: 2

Creator: Worthington, Sierra M

List Source: Eurofins St. Louis

List Creation: 11/17/22 10:33 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 | |



Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-225519-2

Login Number: 225519

List Number: 5

Creator: Bohlmann, Jessica M

List Source: Eurofins St. Louis

List Creation: 11/21/22 01:47 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 | |

Lab Chronicle

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

Job ID: 500-225519-2

Client Sample ID: MW-01

Date Collected: 11/15/22 09:56

Date Received: 11/16/22 10:30

Lab Sample ID: 500-225519-1

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|--------|----------------------|
| Total/NA | Prep | PrecSep-21 | | | 591051 | DJP | EET SL | 11/23/22 08:18 |
| Total/NA | Analysis | 903.0 | | 1 | 594202 | FLC | EET SL | 12/19/22 12:31 |
| Total/NA | Prep | PrecSep_0 | | | 591060 | DJP | EET SL | 11/23/22 08:43 |
| Total/NA | Analysis | 904.0 | | 1 | 593573 | FLC | EET SL | 12/14/22 11:37 |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | 594216 | SCB | EET SL | 12/19/22 17:29 |

Client Sample ID: MW-08

Date Collected: 11/15/22 12:22

Date Received: 11/16/22 10:30

Lab Sample ID: 500-225519-2

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|--------|----------------------|
| Total/NA | Prep | PrecSep-21 | | | 591051 | DJP | EET SL | 11/23/22 08:18 |
| Total/NA | Analysis | 903.0 | | 1 | 594202 | FLC | EET SL | 12/19/22 12:31 |
| Total/NA | Prep | PrecSep_0 | | | 591060 | DJP | EET SL | 11/23/22 08:43 |
| Total/NA | Analysis | 904.0 | | 1 | 593572 | FLC | EET SL | 12/14/22 11:38 |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | 594216 | SCB | EET SL | 12/19/22 17:29 |

Client Sample ID: MW-09

Date Collected: 11/15/22 13:18

Date Received: 11/16/22 10:30

Lab Sample ID: 500-225519-3

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|--------|----------------------|
| Total/NA | Prep | PrecSep-21 | | | 591051 | DJP | EET SL | 11/23/22 08:18 |
| Total/NA | Analysis | 903.0 | | 1 | 594202 | FLC | EET SL | 12/19/22 12:32 |
| Total/NA | Prep | PrecSep_0 | | | 591060 | DJP | EET SL | 11/23/22 08:43 |
| Total/NA | Analysis | 904.0 | | 1 | 593572 | FLC | EET SL | 12/14/22 11:38 |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | 594216 | SCB | EET SL | 12/19/22 17:29 |

Client Sample ID: MW-11

Date Collected: 11/15/22 16:20

Date Received: 11/16/22 10:30

Lab Sample ID: 500-225519-4

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|--------|----------------------|
| Total/NA | Prep | PrecSep-21 | | | 591051 | DJP | EET SL | 11/23/22 08:18 |
| Total/NA | Analysis | 903.0 | | 1 | 594202 | FLC | EET SL | 12/19/22 12:32 |
| Total/NA | Prep | PrecSep_0 | | | 591060 | DJP | EET SL | 11/23/22 08:43 |
| Total/NA | Analysis | 904.0 | | 1 | 593572 | FLC | EET SL | 12/14/22 11:38 |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | 594216 | SCB | EET SL | 12/19/22 17:29 |

Lab Chronicle

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

Job ID: 500-225519-2

Client Sample ID: MW-12

Date Collected: 11/15/22 15:16

Date Received: 11/16/22 10:30

Lab Sample ID: 500-225519-5

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|--------|----------------------|
| Total/NA | Prep | PrecSep-21 | | | 591051 | DJP | EET SL | 11/23/22 08:18 |
| Total/NA | Analysis | 903.0 | | 1 | 594202 | FLC | EET SL | 12/19/22 12:32 |
| Total/NA | Prep | PrecSep_0 | | | 591060 | DJP | EET SL | 11/23/22 08:43 |
| Total/NA | Analysis | 904.0 | | 1 | 593572 | FLC | EET SL | 12/14/22 11:39 |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | 594216 | SCB | EET SL | 12/19/22 17:29 |

Client Sample ID: MW-18

Date Collected: 11/16/22 09:45

Date Received: 11/17/22 10:10

Lab Sample ID: 500-225519-6

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|--------|----------------------|
| Total/NA | Prep | PrecSep-21 | | | 591051 | DJP | EET SL | 11/23/22 08:18 |
| Total/NA | Analysis | 903.0 | | 1 | 594202 | FLC | EET SL | 12/19/22 12:32 |
| Total/NA | Prep | PrecSep_0 | | | 591060 | DJP | EET SL | 11/23/22 08:43 |
| Total/NA | Analysis | 904.0 | | 1 | 593572 | FLC | EET SL | 12/14/22 11:39 |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | 594216 | SCB | EET SL | 12/19/22 17:29 |

Client Sample ID: MW-19

Date Collected: 11/16/22 08:45

Date Received: 11/17/22 10:10

Lab Sample ID: 500-225519-7

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|--------|----------------------|
| Total/NA | Prep | PrecSep-21 | | | 591051 | DJP | EET SL | 11/23/22 08:18 |
| Total/NA | Analysis | 903.0 | | 1 | 594202 | FLC | EET SL | 12/19/22 12:32 |
| Total/NA | Prep | PrecSep_0 | | | 591060 | DJP | EET SL | 11/23/22 08:43 |
| Total/NA | Analysis | 904.0 | | 1 | 593572 | FLC | EET SL | 12/14/22 11:40 |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | 594216 | SCB | EET SL | 12/19/22 17:29 |

Client Sample ID: Duplicate

Date Collected: 11/16/22 00:00

Date Received: 11/17/22 10:10

Lab Sample ID: 500-225519-8

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|--------|----------------------|
| Total/NA | Prep | PrecSep-21 | | | 591051 | DJP | EET SL | 11/23/22 08:18 |
| Total/NA | Analysis | 903.0 | | 1 | 594202 | FLC | EET SL | 12/19/22 12:32 |
| Total/NA | Prep | PrecSep_0 | | | 591060 | DJP | EET SL | 11/23/22 08:43 |
| Total/NA | Analysis | 904.0 | | 1 | 593572 | FLC | EET SL | 12/14/22 11:40 |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | 594216 | SCB | EET SL | 12/19/22 17:29 |

Lab Chronicle

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

Job ID: 500-225519-2

Client Sample ID: MW-15

Date Collected: 11/16/22 10:30

Date Received: 11/18/22 10:00

Lab Sample ID: 500-225519-9

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|--------|----------------------|
| Total/NA | Prep | PrecSep-21 | | | 591051 | DJP | EET SL | 11/23/22 08:18 |
| Total/NA | Analysis | 903.0 | | 1 | 594202 | FLC | EET SL | 12/19/22 12:32 |
| Total/NA | Prep | PrecSep_0 | | | 591060 | DJP | EET SL | 11/23/22 08:43 |
| Total/NA | Analysis | 904.0 | | 1 | 593572 | FLC | EET SL | 12/14/22 11:40 |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | 594216 | SCB | EET SL | 12/19/22 17:29 |

Client Sample ID: MW-17

Date Collected: 11/16/22 12:20

Date Received: 11/18/22 10:00

Lab Sample ID: 500-225519-10

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|--------|----------------------|
| Total/NA | Prep | PrecSep-21 | | | 591051 | DJP | EET SL | 11/23/22 08:18 |
| Total/NA | Analysis | 903.0 | | 1 | 594202 | FLC | EET SL | 12/19/22 12:32 |
| Total/NA | Prep | PrecSep_0 | | | 591060 | DJP | EET SL | 11/23/22 08:43 |
| Total/NA | Analysis | 904.0 | | 1 | 593572 | FLC | EET SL | 12/14/22 11:41 |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | 594216 | SCB | EET SL | 12/19/22 17:29 |

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: 500-225519-2

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: 500-225519-2

Method: 903.0 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

| | | Percent Yield (Acceptance Limits) | |
|--------------------|--------------------|-----------------------------------|--|
| Lab Sample ID | Client Sample ID | Ba (40-110) | |
| 500-225519-1 | MW-01 | 93.0 | |
| 500-225519-1 DU | MW-01 | 95.9 | |
| 500-225519-2 | MW-08 | 97.8 | |
| 500-225519-3 | MW-09 | 90.3 | |
| 500-225519-4 | MW-11 | 91.3 | |
| 500-225519-5 | MW-12 | 87.4 | |
| 500-225519-6 | MW-18 | 49.5 | |
| 500-225519-7 | MW-19 | 88.1 | |
| 500-225519-8 | Duplicate | 90.8 | |
| 500-225519-9 | MW-15 | 93.0 | |
| 500-225519-10 | MW-17 | 93.0 | |
| LCS 160-591051/2-A | Lab Control Sample | 92.7 | |
| MB 160-591051/1-A | Method Blank | 94.7 | |

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 (40-110) | Y (40-110) |
| 500-225519-1 | MW-01 | 93.0 | 83.0 |
| 500-225519-1 DU | MW-01 | 95.9 | 87.1 |
| 500-225519-2 | MW-08 | 97.8 | 89.0 |
| 500-225519-3 | MW-09 | 90.3 | 81.9 |
| 500-225519-4 | MW-11 | 91.3 | 84.1 |
| 500-225519-5 | MW-12 | 87.4 | 82.2 |
| 500-225519-6 | MW-18 | 49.5 | 89.3 |
| 500-225519-7 | MW-19 | 88.1 | 85.2 |
| 500-225519-8 | Duplicate | 90.8 | 83.4 |
| 500-225519-9 | MW-15 | 93.0 | 82.2 |
| 500-225519-10 | MW-17 | 93.0 | 90.8 |
| LCS 160-591060/2-A | Lab Control Sample | 92.7 | 83.7 |
| MB 160-591060/1-A | Method Blank | 94.7 | 87.1 |

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