



ENVIRONMENTAL CONSULTATION & REMEDIATION

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 Station
13082 E. Manito Rd.
Pekin, IL 61554**

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January 31, 2021

TABLE OF CONTENTS

OVERVIEW	1
1.0 INTRODUCTION	3
2.0 FIELD PROCEDURES AND GROUNDWATER FLOW EVALUATION	4
2.1 Field Procedures.....	4
2.2 Groundwater Flow Evaluation	4
3.0 ANALYTICAL DATA AND STATUS OF EVALUATIONS	6
3.1 Sampling Summary.....	6
3.2 Data Summary	6
3.3 Current Status.....	6
4.0 SUMMARY/CONCLUSIONS AND RECOMMENDATIONS.....	7
5.0 REFERENCES	8

FIGURES

- 1 – CCR Monitoring Wells Site Map
- 2 – CCR Groundwater Contour Silt/Clay Unit 04/2020
- 3 – CCR Groundwater Contour Gravelly Sand Unit 04/2020
- 4 – CCR Groundwater Contour Silt/Clay Unit 04/2020
- 5 – CCR Groundwater Contour Gravelly Sand Unit 04/2020

TABLES

- 1 – Groundwater Elevations
- 2 – Groundwater Flow Direction and Estimated Seepage Velocity/Flow Rate
- 3 – Groundwater Sampling Summary
- 4 – Assessment Monitoring Appendix III Groundwater Analytical Results – Ash Bypass Basin and Ash Surge Basin
- 5 – Assessment Monitoring Detected Appendix IV Groundwater Analytical Results – Ash Bypass Basin and Ash Surge Basin

APPENDICES

- A – Analytical Data Packages from 2020 Assessment Monitoring

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 2020 groundwater monitoring period is provided in accordance with revised 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 unit was 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 is continuing 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:
 - o MW-08 – chloride, fluoride
 - o MW-11 – boron (April 2020 only), chloride, fluoride sulfate, total dissolved solid (TDS; April only).
 - o MW-12 – chloride, fluoride, pH (April only), sulfate, TDS.
 - o MW-15 – boron, calcium, chloride, fluoride, sulfate, TDS.
 - o MW-17 – boron, calcium, chloride, fluoride, sulfate and TDS.
 - o MW-18 – chloride, fluoride, pH (April only), sulfate and TDS.
 - o MW-19 – chloride (April only).

These constituent SSIs have been previously addressed under and Alternate Source Demonstration (ASD) and based on that evaluation, the groundwater monitoring program was transitioned to assessment monitoring under Section 257.95 in April 2018.

- Section 257.90(e)(6)(iv) – There were no confirmed statistically significant levels (SSLs) above groundwater protection standards for the Appendix IV assessment monitoring constituents for these units recorded during this monitoring period with the exception of arsenic as wells MW-11, MW-12, MW-15 and MW-17. Arsenic was one of the parameters previously addressed under an Appendix IV ASD for these units.
- Section 257.90(e)(6)(v) – The subject unit is not under corrective action.
- Section 257.90(e)(6)(vi) – The subject unit is 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 2020 calendar year for the ASB and ABB. It does not duplicate information or activities previously reported for 2019. 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. The duplicate samples from the April and December 2020 sampling events were from monitoring wells MW-15 and MW-19, respectively.

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. 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 5.

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). The hydraulic conductivity of 3.81×10^{-3} (sandy unit) used in Table 2 was obtained from the Hydrogeologic Assessment Report dated February 2011 and prepared by Patrick Engineering. 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). The second 2019 semi-annual sampling event showed a decrease in gradient for the sand unit when compared to previous sampling events.

3.0 ANALYTICAL DATA AND STATUS OF EVALUATIONS

3.1 Sampling Summary

The groundwater sampling summary from 2020 is provided in Table 3, in accordance with 257.90 (e)(3).

3.2 Data Summary

In accordance with assessment monitoring requirements, a complete round of CCR well groundwater samples were collected on a semi-annual basis in April and December 2020. Wells were analyzed for both Appendix III and previously detected Appendix IV parameters.

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. 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). All duplicate values were within an acceptable range. The analytical data packages from these sampling events are provided in Appendix A.

3.3 Current Status

The ASB and ABB were transitioned from detection monitoring to assessment monitoring in April 2018 and currently remain in assessment monitoring.

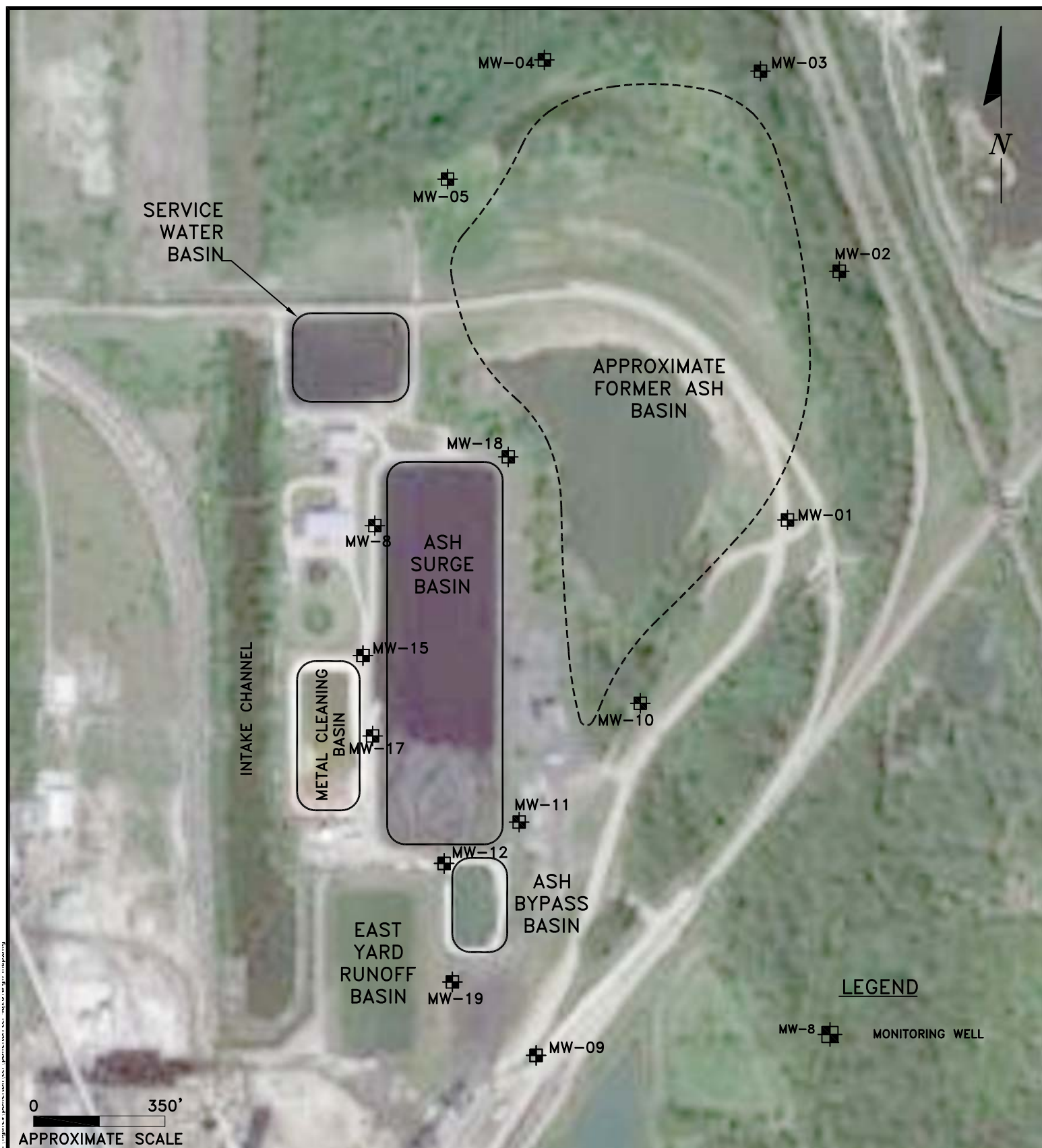
4.0 SUMMARY/CONCLUSIONS AND RECOMMENDATIONS

The assessment monitoring requirements in accordance with the CCR rule are being successfully met. At this time, it is recommended that the station remain in semi-annual 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.
- 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



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CCR MONITORING WELL SITE MAP

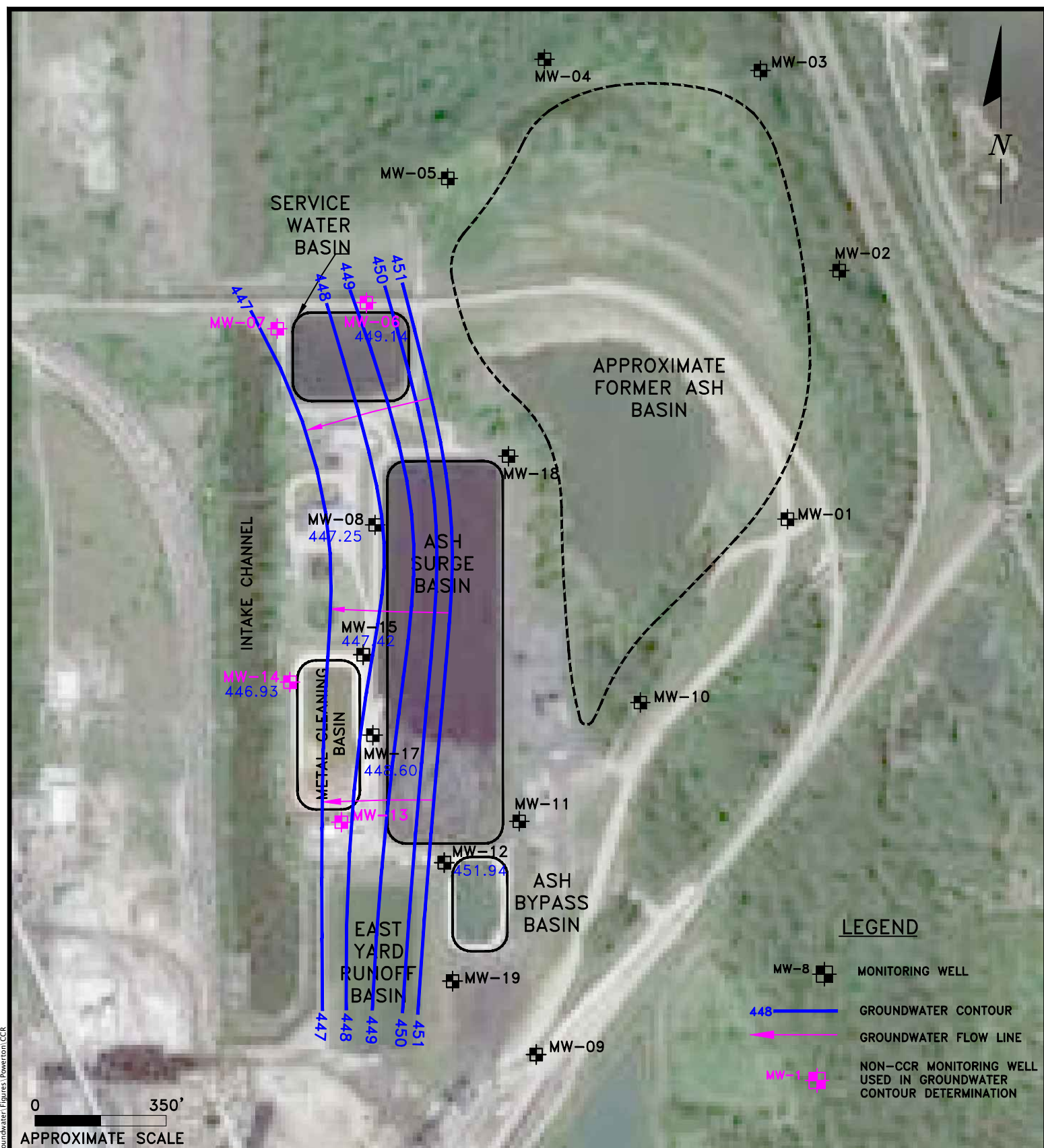
POWERTON STATION
PEKIN, ILLINOIS

Scale: 1" = 350'

Date: December 19, 2018

KPRG Project No. 12313.1

FIGURE 1



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CCR GROUNDWATER CONTOUR MAP FOR SILT/CLAY UNIT 04/2020

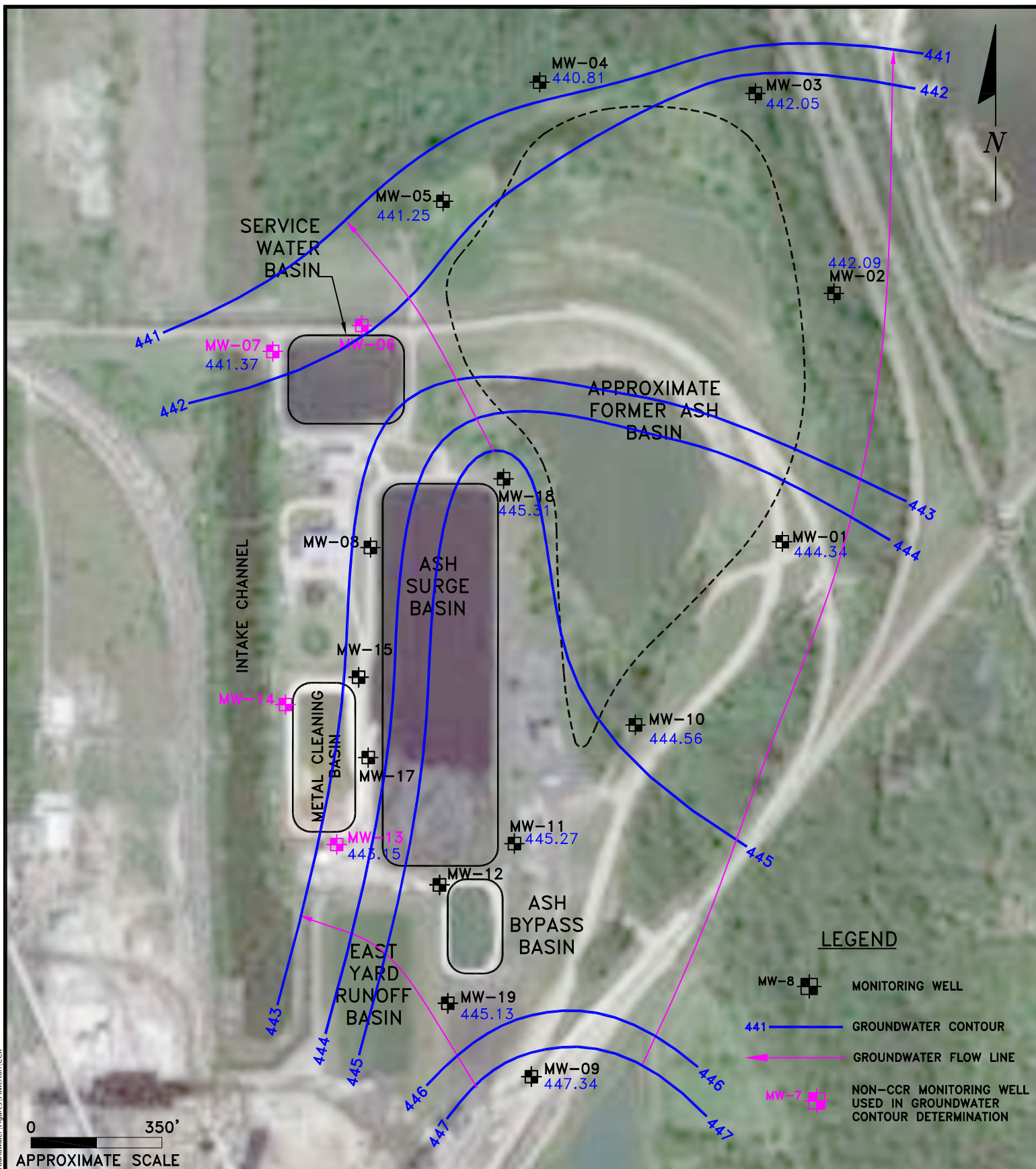
POWERTON STATION
PEKIN, ILLINOIS

Scale: 1" = 350'

Date: June 08, 2020

KPRG Project No. 12313.1

FIGURE 2



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CCR GROUNDWATER CONTOUR MAP FOR GRAVELLY SAND UNIT 04/2020

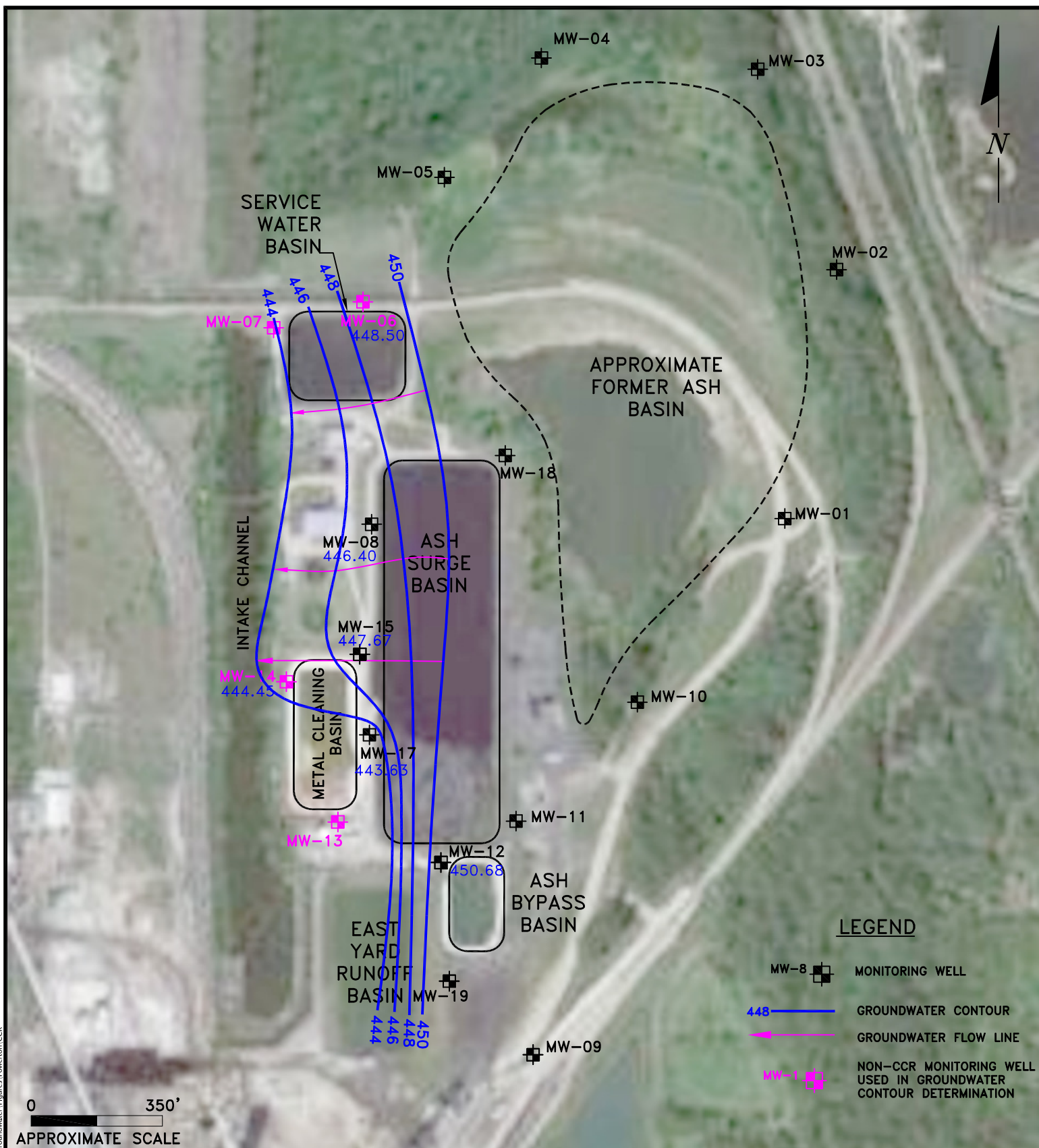
POWERTON STATION
PEKIN, ILLINOIS

Scale: 1" = 350'

Date: June 08, 2020

KPRG Project No. 12313.1

FIGURE 3



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CCR GROUNDWATER CONTOUR MAP FOR SILT/CLAY UNIT 12/2020

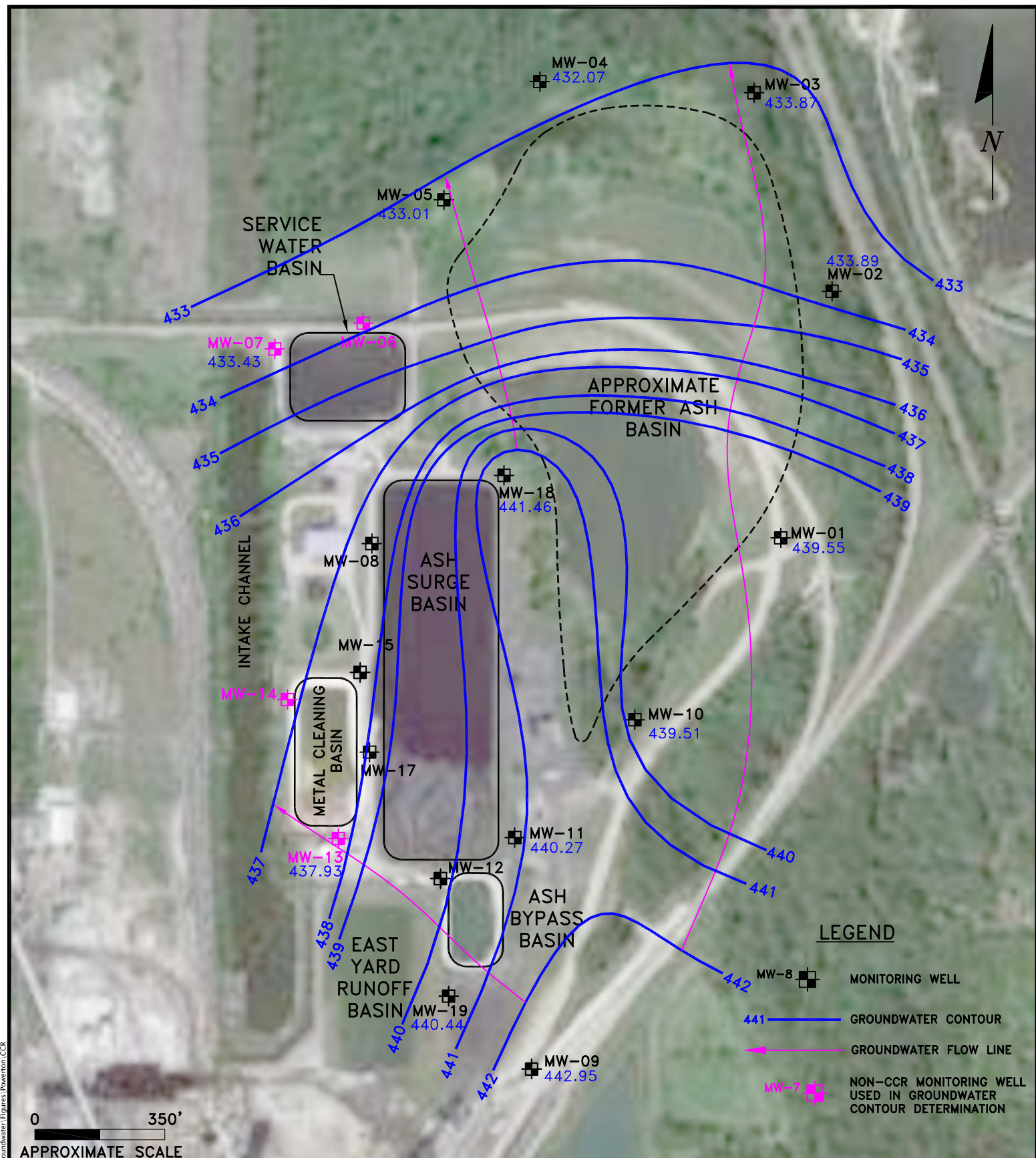
POWERTRON STATION
PEKIN, ILLINOIS

Scale: 1" = 350'

Date: December 30, 2020

KPRG Project No. 12313.1

FIGURE 4



ENVIRONMENTAL CONSULTATION & REMEDIATION		CCR GROUNDWATER CONTOUR MAP FOR GRAVELLY SAND UNIT 12/2020	
K P R G KPRG and Associates, inc.		POWERTON STATION PEKIN, ILLINOIS	
414 Plaza Drive, Suite 106 Westmont, Illinois 60559 Telephone 630-325-1300 Facsimile 630-325-1593		Scale: 1" = 350'	Date: December 30, 2020
14665 West Lisbon Road, Suite 1A Brookfield, Wisconsin 53005 Telephone 262-781-0475 Facsimile 262-781-0478		KPRG Project No. 12313.1	FIGURE 5

To: Projects (Midwest Generation) 12313.1 Ash Pond Groundwater Figures (Powerton) CCR

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
MW-08	4/27/2020	465.24	20.90	444.34
	12/7/2020	465.24	25.69	439.55
	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
MW-09	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
	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
MW-09	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

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-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
MW-12	4/27/2020	471.62	26.35	445.27
	12/7/2020	471.62	31.35	440.27
	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
MW-15	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
	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

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
MW-18	4/27/2020	467.75	19.15	448.60
	12/7/2020	467.75	24.12	443.63
	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
MW-19	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
	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
MW-19	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

MSL - Mean Sea Level
TOC - Top of Casing

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

DATE	Screened Unit	Groundwater Flow Direction	Kavg (ft/sec)*	Average Hydraulic Gradient (ft/ft)	Porosity (unitless)**	Estimated Seepage Velocity (ft/day)
11/16/2015	Silt/clay	Westerly	3.280E-07	0.0093	0.4	0.001
11/16/2015	Sandy	North-Northwest	3.810E-03	0.0026	0.35	2.40
2/22/2016	Silt/clay	Westerly	3.280E-07	0.0098	0.4	0.001
2/22/2016	Sandy	North-Northwest	3.810E-03	0.0030	0.35	2.82
5/16/2016	Silt/clay	Westerly	3.280E-07	0.0124	0.4	0.001
5/16/2016	Sandy	North-Northwest	3.810E-03	0.0021	0.35	1.98
8/15/2016	Silt/clay	Westerly	3.280E-07	0.0093	0.4	0.001
8/15/2016	Sandy	North-Northwest	3.810E-03	0.0014	0.35	1.32
11/14/2016	Silt/clay	Westerly	3.280E-07	0.0083	0.4	0.001
11/14/2016	Sandy	North-Northwest	3.810E-03	0.0014	0.35	1.32
2/13/2017	Silt/clay	Westerly	3.280E-07	0.0091	0.4	0.001
2/13/2017	Sandy	Northeasterly - Northwestern	3.810E-03	0.0049	0.35	4.61
5/1/2017	Silt/clay	Westerly	3.280E-07	0.0100	0.4	0.001
5/1/2017	Sandy	Northeasterly - Northwestern	3.810E-03	0.0021	0.35	1.98
6/20/2017	Silt/clay	Westerly	3.280E-07	0.0088	0.4	0.001
6/20/2017	Sandy	Northeasterly - Northwestern	3.810E-03	0.0057	0.35	5.36
8/25/2017	Silt/clay	Westerly	3.280E-07	0.0214	0.4	0.002
8/25/2017	Sandy	North-Northwest	3.810E-03	0.0174	0.35	16.37
11/8/2017	Silt/clay	Westerly	3.280E-07	0.0267	0.4	0.002
11/8/2017	Sandy	North-Northwest	3.810E-03	0.0157	0.35	14.77
5/17/2018	Silt/clay	Westerly	3.280E-07	0.0070	0.4	0.0005
5/17/2018	Sandy	North-Northwest	3.810E-03	0.0042	0.35	3.95
8/7/2018	Silt/clay	Westerly	3.280E-07	0.0263	0.4	0.002
8/7/2018	Sandy	North-Northwest	3.810E-03	0.0037	0.35	3.48
4/29/2019	Silt/clay	Westerly	3.280E-07	0.0129	0.4	0.0009
4/29/2019	Sandy	North-Northwest	3.810E-03	0.0022	0.35	2.07
11/11/2019	Silt/clay	Westerly	3.280E-07	0.0114	0.4	0.0008
11/11/2019	Sandy	North-Northwest	3.810E-03	0.0008	0.35	0.75
4/27/2020	Silt/clay	Westerly	3.280E-07	0.0114	0.4	0.0008
4/27/2020	Sandy	Northerly	3.810E-03	0.0023	0.35	2.16
12/7/2020	Silt/clay	Westerly	3.280E-07	0.0137	0.4	0.0010
12/7/2020	Sandy	Northerly	3.810E-03	0.0037	0.35	3.48

* Kavg - Average hydraulic conductivity for sandy unit (feet/second) from Hydrogeologic Assessment Report, Patrick Engineering, February 2011.
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 2020 - 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)	2	4/28/2020	A
		12/7/2020	A
MW-09 (Upgradient)	2	4/29/2020	A
		12/8/2020	A
MW-19 (Upgradient)	2	4/27/2020	A
		12/7/2020	A
MW-08 (Downgradient)	2	4/28/2020	A
		12/14/2020	A
MW-11 (Downgradient)	2	4/29/2020	A
		12/8/2020	A
MW-12 (Downgradient)	2	4/29/2020	A
		12/8/2020	A
MW-15 (Downgradient)	2	4/29/2020	A
		12/8/2020	A
MW-17 (Downgradient)	2	4/27/2020	A
		12/7/2020	A
MW-18 (Downgradient)	2	4/27/2020	A
		12/7/2020	A

Table 4. ASB/ABB Assessment Monitoring - Appendix III Groundwater Analytical Results through 2020 - Midwest Generation, LLC, Powerton Station, Pekin, IL.

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					
	11/13/2019	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						
MW-09 (S) up-gradient	11/18/2015	2.0	63	H	31	H	0.19	7.15	H	110	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		750	
	11/17/2016	4.5	85		38		0.13	7.37		110		630	
	2/15/2017	4.1	84		38		0.13	6.94		160		620	
	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	
12/8/2020	2.6	65		34		0.22	7.29		63		400		
MW-19^ (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	
	11/13/2019	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			
MW-08 (CL) down-gradient	11/18/2015	1.5	160	H	170	H	0.44	7.61		H	470	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					
	11/13/2019	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						

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 upgradient 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. ASB/ABB Assessment Monitoring - Appendix III Groundwater Analytical Results through 2020 - Midwest Generation, LLC, Powerton Station, Pekin, IL.

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	1.6	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
	11/14/2019	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	0.73	86	94	0.67	7.26	200	650
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	0.49	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
	11/10/2017	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
	11/14/2019	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	7.36	320	990
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	240	110	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	F1 170	0.54	6.96	660	1900
	11/17/2016	1.3	120	180	0.47	6.91	560	1900
	2/17/2017	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
	11/10/2017	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
	11/14/2019	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
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
	5/4/2017	1.2	170	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
	11/6/2017	1.7	190	240	0.62	7.27	840	1800
	5/14/2018	1.6	170	220	0.6	7.29	800	1700
	8/6/2018	1.3	170	230	0.6	7.12	620	1600
	4/29/2019	0.98	150	190	0.66	7.25	660	1500
	11/13/2019	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
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
	11/6/2017	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
	4/29/2019	0.54	120	180	0.61	7.77	170	1000
	11/13/2019	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	F1 150	0.7	7.70	160	910

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 upgradient 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 5. ASB/ABB Assessment Monitoring - Detected Appendix IV Groundwater Analytical Results through 2020 - Midwest Generation, LLC, Powerton Station, Pekin, IL.

Well	Date	Arsenic	Barium	Cadmium	Cobalt	Fluoride	Lead	Lithium	Mercury	Molybdenum	Radium 226 + 228 Combined	Selenium	Thallium
MW-01 up-gradient	11/16/2015	< 0.001	0.057	< 0.0005	< 0.001	0.17	* < 0.0005	< 0.01	< 0.0002	< 0.0050	0.744	< 0.0025	* < 0.002
	2/25/2016	0.0025	0.053	< 0.0005	0.0014	0.16	0.0019	< 0.01	< 0.0002	< 0.005	< 0.722	0.0029	< 0.002
	5/20/2016	0.0081	0.062	< 0.0005	0.0053	0.17	0.011	< 0.01	< 0.0002	< 0.005	< 0.953	< 0.0025	< 0.002
	9/17/2016	0.0014	0.048	< 0.0005	< 0.001	0.25	0.0014	< 0.010	< 0.0002	0.0057	< 0.491	< 0.0025	< 0.002
	11/16/2016	0.0051	0.056	< 0.0005	0.0044	0.21	0.0082	< 0.01	< 0.0002	0.0059	< 0.618	< 0.0025	< 0.002
	2/14/2017	0.0041	0.056	< 0.0005	0.0045	0.17	0.0076	< 0.01	< 0.0002	0.0056	< 0.837	< 0.0025	< 0.002
	5/3/2017	0.0015	0.045	< 0.0005	0.0033	0.16	0.0067	< 0.01	< 0.0002	< 0.005	0.574	< 0.0025	< 0.002
	6/21/2017	< 0.001	0.04	< 0.0005	< 0.001	0.18	< 0.0005	< 0.01	< 0.0002	0.0061	< 0.418	< 0.0025	< 0.002
	8/25/2017	< 0.001	0.049	< 0.0005	< 0.001	0.18	< 0.0005	< 0.01	< 0.0002	0.0059	0.775	< 0.0025	< 0.002
	11/8/2017	< 0.001	0.083	< 0.0005	< 0.001	0.12	< 0.0005	< 0.01	< 0.0002	< 0.005	0.343	< 0.0025	< 0.002
	GWPS	0.011	2.0	0.005	0.009	4.0	0.018	0.04	0.002	0.10	5.0	0.05	0.002
	5/17/2018	< 0.001	0.045	< 0.0005	< 0.001	0.12	0.00068	< 0.01	< 0.0002	< 0.005	< 0.396	< 0.0025	< 0.002
	8/8/2018	< 0.001	0.051	< 0.0005	< 0.001	0.13	< 0.0005	< 0.01	< 0.0002	< 0.005	0.579	< 0.0025	< 0.002
	4/30/2019	0.0014	0.039	< 0.0005	< 0.001	0.17	0.0017	< 0.01	< 0.0002	< 0.005	< 0.656	< 0.0025	< 0.002
	11/13/2019	0.029	0.091	0.00085	0.016	0.18	0.034	0.012	< 0.0002	0.0079	0.884	< 0.0025	< 0.002
	12/26/2019 (R)	NS	NS	NS	0.0021	NS	0.0041	NS	NS	NS	NS	NS	NS
	4/28/2020	< 0.001	0.051	< 0.0005	< 0.001	0.19	< 0.0005	< 0.01	< 0.0002	< 0.005	0.628	< 0.0025	< 0.002
	12/7/2020	< 0.001	0.058	< 0.0005	< 0.001	0.25	0.00055	< ^ 0.01	< 0.0002	0.0051	0.724	< 0.0025	< 0.002
MW-09 up-gradient	11/18/2015	< 0.001	0.027	< 0.0005	< 0.001	H 0.19	< 0.0005	< 0.01	H < 0.0002	0.043	< 0.655	< 0.0025	< 0.002
	2/25/2016	0.0042	0.036	< 0.0005	0.0011	0.19	< 0.0005	< 0.01	< 0.0002	0.053	< 0.361	< 0.0025	< 0.002
	5/19/2016	< 0.001	0.029	< 0.0005	< 0.001	0.17	< 0.0005	< 0.01	< 0.0002	0.042	< 0.394	0.0032	< 0.002
	8/17/2016	< 0.001	0.031	< 0.0005	< 0.001	0.15	< 0.0005	< 0.01	< 0.0002	0.036	< 0.498	< 0.0025	< 0.002
	11/17/2016	0.0038	0.039	< 0.0005	< 0.001	0.13	< 0.0005	< 0.010	< 0.0002	0.036	0.646	0.0025	< 0.002
	2/15/2017	0.0032	0.043	< 0.0005	< 0.001	0.13	< 0.0005	< 0.010	< 0.0002	0.035	< 0.377	0.0062	< 0.002
	5/3/2017	0.0012	0.034	< 0.0005	< 0.001	0.17	< 0.0005	< 0.010	< 0.0002	0.034	< 0.445	0.011	< 0.002
	6/21/2017	< 0.001	0.037	< 0.0005	< 0.001	0.14	< 0.0005	< 0.010	< 0.0002	0.033	< 0.380	0.0072	< 0.002
	8/25/2017	< 0.001	0.044	< 0.0005	< 0.001	0.14	< 0.0005	< 0.010	< 0.0002	0.028	< 0.160	0.0043	< 0.002
	11/8/2017	0.0012	0.048	< 0.0005	< 0.001	0.13	< 0.0005	< 0.010	< 0.0002	0.026	0.344	< 0.0025	< 0.002
	GWPS	0.011	2.0	0.005	0.009	4.0	0.018	0.04	0.002	0.10	5.0	0.05	0.002
	5/16/2018	< 0.001	0.038	< 0.0005	< 0.001	0.15	< 0.0005	< 0.010	0.00029	0.031	< 0.424	0.006	< 0.002
	8/8/2018	< 0.001	0.037	< 0.0005	< 0.001	0.14	< 0.0005	< 0.010	< 0.0002	0.032	0.44	0.0078	< 0.002
	5/1/2019	< 0.001	0.038	< 0.0005	< 0.001	0.17	< 0.0005	< 0.010	< 0.0002	0.031	< 0.66	0.0036	< 0.002
	11/14/2019	0.0056	0.057	< 0.0005	0.0032	0.18	0.00076	< 0.010	< 0.0002	0.026	< 0.457	< 0.0025	< 0.002
	4/29/2020	0.0012	0.031	< 0.0005	< 0.001	0.2	< 0.0005	< 0.010	< 0.0002	0.028	0.698	< 0.0025	< 0.002
	12/8/2020	0.0013	0.042	< 0.0005	< 0.001	0.22	< 0.0005	< 0.010	< 0.0002	0.025	< 0.479	< 0.0025	< 0.002
MW-19 up-gradient	11/18/2016	< 0.001	0.084	< 0.0005	0.001	0.13	0.00068	< 0.01	< 0.0002	0.035	< 0.476	0.0043	< 0.002
	2/15/2017	< 0.001	0.088	< 0.0005	< 0.001	0.13	0.00061	< 0.01	< 0.0002	0.046	< 0.482	0.0063	< 0.002
	5/5/2017	< 0.001	0.076	< 0.0005	0.0013	0.14	0.0012	< 0.01	< 0.0002	0.035	0.923	0.0068	< 0.002
	6/21/2017	< 0.001	0.089	< 0.0005	< 0.001	0.12	< 0.0005	< 0.01	< 0.0002	0.024	< 0.334	0.0028	< 0.002
	8/28/2017	< 0.001	0.073	< 0.0005	< 0.001	0.16	< 0.0005	< 0.01	< 0.0002	0.041	0.370	0.0035	< 0.002
	11/6/2017	< 0.001	0.071	< 0.0005	< 0.001	0.17	< 0.0005	< 0.01	< 0.0002	0.042	0.360	< 0.0025	< 0.002
	5/14/2018	< 0.001	0.079	< 0.0005	< 0.001	0.16	< 0.0005	< 0.01	< 0.0002	0.043	0.562	0.0044	< 0.002
	8/7/2018	< 0.001	0.078	< 0.0005	< 0.001	0.13	< 0.0005	< 0.01	< 0.0002	0.032	0.835	0.0052	< 0.002
	GWPS	0.011	2.0	0.005	0.009	4.0	0.018	0.04	0.002	0.10	5.0	0.05	0.002
	5/2/2019	< 0.001	0.1	< 0.0005	< 0.001	0.1	< 0.0005	< 0.01	< 0.0002	0.03	< 0.431	0.0035	< 0.002
	11/13/2019	0.0014	0.1	< 0.0005	< 0.001	0.2	0.00056	< 0.01	< 0.0002	0.04	< 0.447	< 0.0025	< 0.002
	4/27/2020	< 0.001	0.1	< 0.0005	< 0.001	0.2	< 0.0005	< 0.01	< 0.0002	0.04	0.630	< 0.0025	< 0.002
	12/7/2020	< 0.001	0.1	< 0.0005	< 0.001	0.2	< 0.0005	< ^ 0.01	< 0.0002	0.05	< 0.509	< 0.0025	< 0.002
MW-08 down-gradient	11/18/2015	0.0029	0.15	< 0.0005	< 0.001	H 0.44	< 0.0005	0.028	H < 0.0002	0.01	< 0.559	< 0.0025	< 0.002
	2/25/2016	0.0018	0.11	0.00052	< 0.001	0.30	0.00072	0.015	< 0.0002	0.02	0.535	< 0.0025	< 0.002
	5/18/2016	0.0029	0.16	< 0.0005	< 0.001	0.34	< 0.0005	0.036	< 0.0002	0.0069	0.417	< 0.0025	< 0.002
	8/17/2016	0.0032	0.15	< 0.0005	< 0.001	0.35	< 0.0005	0.023	< 0.0002	0.013	< 0.519	< 0.0025	< 0.002
	11/15/2016	0.0012	0.076	< 0.0005	< 0.001	0.33	< 0.0005	0.017	< 0.0002	0.016	0.583	< 0.0025	< 0.002
	2/16/2017	0.003	0.086	< 0.0005	< 0.001	0.28	0.00087	< 0.01	< 0.0002	0.026	< 0.375	< 0.0025	< 0.002
	5/2/2017	0.0029	0.13	< 0.0005	< 0.001	0.33	< 0.0005	0.022	< 0.0002	0.0083	< 0.480	< 0.0025	< 0.002
	6/21/2017	0.0045	0.14	< 0.0005	< 0.001	0.30	< 0.0005	0.017	< 0.0002	0.031	< 0.439	< 0.0025	< 0.002
	8/29/2017	0.0011	0.062	< 0.0005	< 0.001	0.47	< 0.0005	< 0.01	< 0.0002	0.034	0.699	< 0.0025	< 0.002
	11/8/2017	0.0027	0.10	< 0.0005	< 0.001	0.45	< 0.0005	0.019	< 0.0002	0.014	0.806	< 0.0025	< 0.002
	GWPS	0.011	2.0	0.005	0.009	4.0	0.018	0.04	0.002	0.10	5.0	0.05	0.002
	5/17/2018	0.003	0.07	< 0.0005	< 0.001	0.37	< 0.0005	< 0.01	< 0.0002	0.024	0.655	< 0.0025	< 0.002
	8/8/2018	0.0055	0.07	< 0.0005	< 0.001	0.32	< 0.0005	< 0.01	< 0.0002	0.019	< 0.410	< 0.0025	< 0.002
	5/1/2019	0.0018	0.07	< 0.0005	< 0.001	0.35	< 0.0005	0.021	< 0.0002	0.0069	0.892	< 0.0025	< 0.002
	11/13/2019	0.0025	0.087	< 0.0005	< 0.001	0.33	0.00094	0.022	< 0.0002	0.013	< 0.498	< 0.0025	< 0.002
	4/28/2020	0.0026	0.095	< 0.0005	< 0.001	0.38	< 0.0005	0.026	< 0.0002	0.011	< 0.450	< 0.0025	< 0.002
	12/14/2020	0.0024	0.11	< 0.0005	< 0.001	0.38	0.00093	0.03	< 0.0002	0.012	1.31	< 0.0025	< 0.002

Notes:

All units are in mg/l except Radium is in pCi/L as noted.

Italics - Assessment Monitoring Conducted After Identification of Detected Appendix IV Compounds.

GWPS - Groundwater Protection Standard based on Table 2 and discussion in text

BOLD - Exceeds established GWPS.

F1 - MS and/or MSD Recovery outside of limits.

H - Sample was prepped or analyzed beyond the specified holding time.

* - LCS or LCSD is outside acceptance limits.

^ - Denotes instrument related QC exceeds the control limits

DNYA - Data Not Yet Available

NS - Not Sampled

(R) - Resample Event

Table 5. ASB/ABB Assessment Monitoring - Detected Appendix IV Groundwater Analytical Results through 2020 - Midwest Generation, LLC, Powerton Station, Pekin, IL.

Well	Date	Arsenic	Barium	Cadmium	Cobalt	Fluoride	Lead	Lithium	Mercury	Molybdenum	Radium 226 + 228 Combined	Selenium	Thallium
MW-11 down-gradient	11/18/2015	0.017	0.18	< 0.0005	0.002	H 0.55	< 0.0005	< 0.01	H < 0.0002	0.0120	0.788	< 0.0025	< 0.002
	2/26/2016	0.023	0.23	< 0.0005	0.0023	0.55	< 0.0005	< 0.01	< 0.0002	0.013	0.562	< 0.0025	< 0.002
	5/20/2016	0.027	0.26	< 0.0005	0.0024	0.56	0.00076	< 0.01	< 0.0002	0.014	0.524	< 0.0025	< 0.002
	8/17/2016	F1 0.29	1.4	< 0.0005	0.0034	0.67	0.001	< 0.010	< 0.0002	0.011	1.130	< `	< 0.002
	11/17/2016	0.071	0.44	< 0.0005	0.0037	0.44	0.0013	< 0.01	< 0.0002	0.0088	0.734	< 0.0025	< 0.002
	2/16/2017	0.04	0.3	< 0.0005	0.003	0.40	0.00094	< 0.01	< 0.0002	0.013	0.341	< 0.0025	< 0.002
	5/3/2017	0.039	0.26	< 0.0005	0.0035	0.42	0.00093	< 0.01	< 0.0002	0.015	0.662	< 0.0025	< 0.002
	6/22/2017	0.07	0.36	< 0.0005	0.0025	0.60	< 0.0005	< 0.01	< 0.0002	0.014	< 0.418	< 0.0025	< 0.002
	8/29/2017	0.017	0.21	< 0.0005	0.0026	0.52	< 0.0005	< 0.01	< 0.0002	0.016	< 0.313	< 0.0025	< 0.002
	11/9/2017	0.092	0.54	< 0.0005	0.0034	0.59	< 0.0005	< 0.01	< 0.0002	0.014	1.24	< 0.0025	< 0.002
	GWPS	0.011	2.0	0.005	0.009	4.0	0.018	0.04	0.002	0.10	5.0	0.05	0.002
	5/16/2018	0.089	0.47	< 0.0005	0.0041	0.61	< 0.0005	< 0.01	< 0.0002	0.014	1.12	< 0.0025	< 0.002
	8/9/2018	0.68	3.0	0.0008	0.0053	0.65	0.0012	< 0.01	< 0.0002	0.013	1.48	< 0.0025	< 0.002
	5/1/2019	0.11	0.6	< 0.0005	0.0026	0.62	0.0011	< 0.01	< 0.0002	0.014	1.59	< 0.0025	< 0.002
	11/14/2019	0.14	0.72	< 0.0005	0.0041	0.55	0.0021	< 0.01	< 0.0002	0.02	2.64	< 0.0025	< 0.002
	4/29/2020	0.019	0.21	< 0.0005	0.0019	0.62	< 0.0005	< 0.01	< 0.0002	0.024	0.47	< 0.0025	< 0.002
	12/8/2020	0.027	0.26	< 0.0005	0.0021	0.67	< 0.0005	< 0.01	< 0.0002	0.03	< 0.523	< 0.0025	< 0.002
MW-12 down-gradient	11/19/2015	0.10	0.180	0.00068	< 0.001	H 0.57	0.00063	0.023	H < 0.0002	0.0280	< 0.685	< 0.0025	< 0.002
	2/26/2016	0.077	0.130	0.0016	< 0.001	0.40	0.0014	0.014	< 0.0002	0.0150	1.11	< 0.0025	< 0.002
	5/20/2016	0.065	0.16	0.00077	< 0.001	0.49	0.0016	0.013	< 0.0002	0.028	0.576	< 0.0025	< 0.002
	8/18/2016	0.33	0.88	0.007	0.001	0.49	0.0011	0.015	< 0.0002	0.011	3.68	< 0.0025	< 0.002
	11/18/2016	0.23	0.67	0.0028	< 0.001	0.46	< 0.0005	0.017	< 0.0002	< 0.01	1.86	< 0.0025	< 0.002
	2/16/2017	0.29	0.26	0.0057	0.0013	0.37	0.0042	0.010	< 0.0002	0.015	1.15	< 0.0025	< 0.002
	5/3/2017	0.10	0.17	0.0022	< 0.001	0.37	0.0038	0.011	< 0.0002	0.017	0.518	< 0.0025	< 0.002
	6/22/2017	0.025	0.11	< 0.0005	< 0.001	0.48	0.00096	< 0.010	< 0.0002	0.028	0.376	< 0.0025	< 0.002
	8/29/2017	0.02	0.095	< 0.0005	< 0.001	0.52	< 0.0005	0.014	< 0.0002	0.024	0.529	< 0.0025	< 0.002
	11/10/2017	0.50	0.45	0.0015	< 0.001	0.48	0.00097	0.018	< 0.0002	0.023	1.67	< 0.0025	< 0.002
	GWPS	0.011	2.0	0.005	0.009	4.0	0.018	0.04	0.002	0.10	5.0	0.05	0.002
	5/16/2018	0.09	0.1	0.00052	< 0.001	0.47	0.00067	0.012	< 0.0002	0.021	0.741	< 0.0025	< 0.002
	8/9/2018	0.12	0.15	0.00084	< 0.001	0.44	0.00072	< 0.010	< 0.0002	0.026	0.735	< 0.0025	< 0.002
	5/1/2019	0.04	0.13	0.00054	< 0.001	0.38	0.0012	0.014	< 0.0002	0.011	0.666	< 0.0025	< 0.002
	11/14/2019	0.026	0.072	< 0.0005	< 0.001	0.45	< 0.0005	0.014	< 0.0002	0.027	0.568	< 0.0025	< 0.002
	4/29/2020	0.003	0.034	< 0.0005	< 0.001	0.34	< 0.0005	0.012	< 0.0002	0.015	0.578	< 0.0025	< 0.002
	12/8/2020	0.025	0.069	< 0.0005	< 0.001	0.56	< 0.0005	0.012	< 0.0002	0.027	< 0.476	< 0.0025	< 0.002
MW-15 down-gradient	11/18/2015	0.03	0.096	0.00061	< 0.001	H 0.53	< 0.0005	0.042	H < 0.0002	0.023	< 0.599	0.0065	< 0.002
	2/25/2016	0.025	0.083	< 0.0005	< 0.001	0.61	< 0.0005	0.041	< 0.0002	0.035	0.870	0.045	< 0.002
	5/19/2016	0.04	0.097	0.00098	< 0.001	0.53	< 0.0005	0.044	< 0.0002	0.041	< 0.420	0.0067	< 0.002
	8/18/2016	0.13	0.11	0.0041	< 0.001	0.54	< 0.0005	0.028	< 0.0002	0.027	< 0.672	0.0061	< 0.002
	11/17/2016	0.0033	0.031	< 0.0005	< 0.0010	0.47	< 0.0005	0.016	< 0.0002	0.018	< 0.570	0.0078	< 0.002
	2/17/2017	0.02	0.056	< 0.0005	< 0.0010	0.43	< 0.0005	0.025	< 0.0002	0.027	< 0.392	0.0032	< 0.002
	5/4/2017	0.011	0.049	< 0.0005	< 0.0010	0.57	< 0.0005	0.023	< 0.0002	0.023	< 0.456	0.0034	< 0.002
	6/21/2017	0.0093	0.054	< 0.0005	< 0.0010	0.56	< 0.0005	0.027	< 0.0002	0.03	< 0.347	0.019	< 0.002
	8/29/2017	0.0018	0.044	< 0.0005	< 0.0010	0.53	< 0.0005	0.023	< 0.0002	0.032	0.377	0.0092	< 0.002
	11/10/2017	0.0063	0.046	< 0.0005	< 0.0010	0.63	< 0.0005	0.025	< 0.0002	0.02	< 0.313	0.016	< 0.002
	GWPS	0.011	2.0	0.005	0.009	4.0	0.018	0.04	0.002	0.10	5.0	0.05	0.002
	5/17/2018	0.0081	0.05	< 0.0005	< 0.0010	0.5	< 0.0005	0.029	< 0.0002	0.03	0.397	0.077	< 0.002
	8/9/2018	0.0083	0.048	< 0.0005	< 0.0010	0.48	< 0.0005	0.026	< 0.0002	0.033	0.566	0.06	< 0.002
	5/2/2019	0.0045	0.052	< 0.0005	< 0.0010	0.52	< 0.0005	0.027	< 0.0002	0.023	< 0.424	< 0.0025	< 0.002
	11/14/2019	0.0044	0.053	< 0.0005	< 0.0010	0.5	< 0.0005	0.029	< 0.0002	0.025	< 0.475	< 0.0025	< 0.002
	4/29/2020	0.0036	0.06	< 0.0005	< 0.0010	0.58	< 0.0005	0.027	< 0.0002	0.023	0.578	< 0.0025	< 0.002
	12/8/2020	0.02	0.1	0.00059	0.0012	0.55	< 0.0005	0.035	< 0.0002	0.02	0.626	0.012	< 0.002
MW-17 down-gradient	11/19/2015	0.0028	0.14	< 0.0005	0.0012	H 0.43	0.0012	0.019	H < 0.0002	0.035	< 0.790	< 0.0025	< 0.002
	2/22/2016	0.021	0.051	< 0.0005	0.0012	0.55	< 0.0005	0.038	< 0.0002	0.093	1.07	< 0.0025	< 0.002
	5/18/2016	0.32	0.12	0.0011	0.0015	0.64	< 0.0005	0.026	< 0.0002	0.12	8.27	< 0.0025	0.0028
	8/15/2016	0.34	0.12	0.001	0.0016	0.6	< 0.0005	0.022	< 0.0002	0.1	0.606	< 0.0025	0.0031
	11/14/2016	0.19	0.073	0.00051	0.0012	0.56	< 0.0005	0.022	< 0.0002	0.042	3.76	< 0.0025	0.0021
	2/13/2017	0.35	0.16	0.00093	0.0014	0.56	0.00079	0.019	< 0.0002	0.088	2.08	< 0.0025	0.0025
	5/4/2017	0.24	0.39	0.0023	0.0023	0.61	0.00066	0.016	< 0.0002	0.036	1.91	< 0.0025	0.0065
	6/22/2017	0.41	0.13	0.0007	0.0012	0.72	0.0011	0.022	< 0.0002	0.11	1.21	< 0.0025	0.0022
	8/29/2017	0.24	0.092	< 0.0005	< 0.001	0.64	0.00058	0.021	< 0.0002	0.13	3.32	< 0.0025	0.0025
	11/6/2017	0.17	0.38	0.0022	0.0015	0.62	< 0.0005	< 0.01	< 0.0002	0.019	2.54	< 0.0025	0.0075
	GWPS	0.011	2.0	0.005	0.009	4.0	0.018	0.04	0.002	0.10	5.0	0.05	0.002
	5/14/2018	0.42	0.17	0.002	0.0029	0.6	0.0021	0.015	< 0.0002	0.13	2.03	< 0.0025	0.0068
	8/6/2018	0.087	0.055	0.00094	0.0015	0.6	< 0.0005	0.019	< 0.0002	0.084	1.34	< 0.0025	0.0023
	4/29/2019	0.042	0.04	0.00052	< 0.001	0.66	0.00069	0.015	< 0.0002	0.06	0.517	< 0.0025	< 0.002
	11/13/2019	0.088	0.1	0.0015	0.0011	0.55	0.00093	0.021	< 0.0002	0.058	0.643	< 0.0025	0.0029
	4/27/2020	0.026	0.036	< 0.0005	< 0.001	0.79	0.00081	0.021	< 0.0002	0.075	0.498	< 0.0025	< 0.002
	12/7/2020	0.08	0.05	0.001	< 0								

Appendix A
Analytical Data Packages from 2020 Assessment Monitoring

ANALYTICAL REPORT

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

Laboratory Job ID: 500-181249-1
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:
5/19/2020 3:10:06 PM

Diana Mockler, Project Manager I
(219)252-7570
diana.mockler@testamericainc.com

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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.

Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Detection Summary	4
Method Summary	9
Sample Summary	10
Client Sample Results	11
Definitions	26
QC Association	27
QC Sample Results	33
Chronicle	41
Certification Summary	47
Chain of Custody	48
Receipt Checklists	60



Case Narrative

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

Job ID: 500-181249-1

Job ID: 500-181249-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative 500-181249-1

Comments

No additional comments.

Receipt

The samples were received on 4/28/2020 9:35 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 6 coolers at receipt time were 1.6° C, 2.4° C, 2.6° C, 2.8° C, 3.3° C and 5.8° C.

Metals

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

General Chemistry

Methods 375.4, SM 4500 SO4 E: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-18 (500-181249-1), MW-17 (500-181249-2), MW-19 (500-181249-3), (500-180998-C-6), (500-180998-C-6 MS) and (500-180998-C-6 MSD). Elevated reporting limits (RLs) are provided.

Method SM 4500 SO4 E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 400-487586 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.

Method SM 4500 SO4 E: Due to the concentration of sulfates in the parent sample the MS/MSD was diluted after the spike. The spike amount was adjusted by the dilution factor.

(500-180998-C-6 MS) and (500-180998-C-6 MSD)

Method SM 4500 SO4 E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for analytical batch 400-487903 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Methods 375.4, SM 4500 SO4 E: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-01 (500-181249-4), MW-02 (500-181249-5), MW-03 (500-181249-6), MW-04 (500-181249-7), MW-05 (500-181249-8), MW-10 (500-181249-9), MW-08 (500-181249-10), MW-09 (500-181249-11), MW-11 (500-181249-12), MW-12 (500-181249-13), MW-15 (500-181249-14), Duplicate (500-181249-15), (500-181249-A-6 MS) and (500-181249-A-6 MSD). Elevated reporting limits (RLs) are provided.

Method SM 4500 SO4 E: Due to the concentration of sulfates in the parent sample the MS/MSD was diluted after the spike. Then spike amount was adjusted by the dilution factor.
(500-181249-A-6 MS) and (500-181249-A-6 MSD)

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

Detection Summary

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

Job ID: 500-181249-1

Client Sample ID: MW-18

Lab Sample ID: 500-181249-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.016		0.010		mg/L	1		6010C	Total Recoverable
Barium	0.12		0.0025		mg/L	1		6020A	Total Recoverable
Boron	0.60		0.050		mg/L	1		6020A	Total Recoverable
Calcium	120		0.20		mg/L	1		6020A	Total Recoverable
Total Dissolved Solids	1000		10		mg/L	1		SM 2540C	Total/NA
Chloride	170		10		mg/L	5		SM 4500 Cl- E	Total/NA
Fluoride	0.69		0.10		mg/L	1		SM 4500 F C	Total/NA
Sulfate	180		50		mg/L	10		SM 4500 SO4 E	Total/NA

Client Sample ID: MW-17

Lab Sample ID: 500-181249-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.021		0.010		mg/L	1		6010C	Total Recoverable
Arsenic	0.026		0.0010		mg/L	1		6020A	Total Recoverable
Barium	0.036		0.0025		mg/L	1		6020A	Total Recoverable
Boron	1.2		0.25		mg/L	5		6020A	Total Recoverable
Calcium	150		0.20		mg/L	1		6020A	Total Recoverable
Lead	0.00081		0.00050		mg/L	1		6020A	Total Recoverable
Molybdenum	0.075		0.0050		mg/L	1		6020A	Total Recoverable
Total Dissolved Solids	1300		10		mg/L	1		SM 2540C	Total/NA
Chloride	170		10		mg/L	5		SM 4500 Cl- E	Total/NA
Fluoride	0.79		0.10		mg/L	1		SM 4500 F C	Total/NA
Sulfate	520		100		mg/L	20		SM 4500 SO4 E	Total/NA

Client Sample ID: MW-19

Lab Sample ID: 500-181249-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.077		0.0025		mg/L	1		6020A	Total Recoverable
Boron	2.3		0.25		mg/L	5		6020A	Total Recoverable
Calcium	100		0.20		mg/L	1		6020A	Total Recoverable
Molybdenum	0.042		0.0050		mg/L	1		6020A	Total Recoverable
Total Dissolved Solids	570		10		mg/L	1		SM 2540C	Total/NA
Chloride	43		2.0		mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.17		0.10		mg/L	1		SM 4500 F C	Total/NA
Sulfate	110		25		mg/L	5		SM 4500 SO4 E	Total/NA

Client Sample ID: MW-01

Lab Sample ID: 500-181249-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.051		0.0025		mg/L	1		6020A	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

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

Job ID: 500-181249-1

Client Sample ID: MW-01 (Continued)

Lab Sample ID: 500-181249-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.33		0.050		mg/L	1		6020A	Total
Calcium	110		0.20		mg/L	1		6020A	Recoverable
Total Dissolved Solids	470		10		mg/L	1		SM 2540C	Total/NA
Chloride	46		2.0		mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.19		0.10		mg/L	1		SM 4500 F C	Total/NA
Sulfate	41		10		mg/L	2		SM 4500 SO4 E	Total/NA

Client Sample ID: MW-02

Lab Sample ID: 500-181249-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0016		0.0010		mg/L	1		6020A	Total
Barium	0.060		0.0025		mg/L	1		6020A	Recoverable
Boron	0.33		0.050		mg/L	1		6020A	Total
Calcium	90		0.20		mg/L	1		6020A	Recoverable
Total Dissolved Solids	430		10		mg/L	1		SM 2540C	Total/NA
Chloride	50		2.0		mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.20		0.10		mg/L	1		SM 4500 F C	Total/NA
Sulfate	41		10		mg/L	2		SM 4500 SO4 E	Total/NA

Client Sample ID: MW-03

Lab Sample ID: 500-181249-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0013		0.0010		mg/L	1		6020A	Total
Barium	0.066		0.0025		mg/L	1		6020A	Recoverable
Boron	0.24		0.050		mg/L	1		6020A	Total
Calcium	86		0.20		mg/L	1		6020A	Recoverable
Selenium	0.0036		0.0025		mg/L	1		6020A	Total
Total Dissolved Solids	410		10		mg/L	1		SM 2540C	Recoverable
Chloride	46		2.0		mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.22		0.10		mg/L	1		SM 4500 F C	Total/NA
Sulfate	79		25		mg/L	5		SM 4500 SO4 E	Total/NA

Client Sample ID: MW-04

Lab Sample ID: 500-181249-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.025		0.0025		mg/L	1		6020A	Total
Boron	0.55		0.050		mg/L	1		6020A	Recoverable
Calcium	76		0.20		mg/L	1		6020A	Total
Total Dissolved Solids	380		10		mg/L	1		SM 2540C	Recoverable
Chloride	52		2.0		mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.27		0.10		mg/L	1		SM 4500 F C	Total/NA
Sulfate	47		25		mg/L	5		SM 4500 SO4 E	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

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

Job ID: 500-181249-1

Client Sample ID: MW-05

Lab Sample ID: 500-181249-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0010		0.0010		mg/L	1		6020A	Total Recoverable
Barium	0.052		0.0025		mg/L	1		6020A	Total Recoverable
Boron	0.49		0.050		mg/L	1		6020A	Total Recoverable
Calcium	110		0.20		mg/L	1		6020A	Total Recoverable
Molybdenum	0.0074		0.0050		mg/L	1		6020A	Total Recoverable
Total Dissolved Solids	620		10		mg/L	1		SM 2540C	Total/NA
Chloride	56		2.0		mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.37		0.10		mg/L	1		SM 4500 F C	Total/NA
Sulfate	130		25		mg/L	5		SM 4500 SO4 E	Total/NA

Client Sample ID: MW-10

Lab Sample ID: 500-181249-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0022		0.0010		mg/L	1		6020A	Total Recoverable
Barium	0.25		0.0025		mg/L	1		6020A	Total Recoverable
Boron	1.0		0.050		mg/L	1		6020A	Total Recoverable
Calcium	110		0.20		mg/L	1		6020A	Total Recoverable
Cobalt	0.0065		0.0010		mg/L	1		6020A	Total Recoverable
Lead	0.0017		0.00050		mg/L	1		6020A	Total Recoverable
Selenium	0.0054		0.0025		mg/L	1		6020A	Total Recoverable
Total Dissolved Solids	550		10		mg/L	1		SM 2540C	Total/NA
Chloride	41		2.0		mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.24		0.10		mg/L	1		SM 4500 F C	Total/NA
Sulfate	64		25		mg/L	5		SM 4500 SO4 E	Total/NA

Client Sample ID: MW-08

Lab Sample ID: 500-181249-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.026		0.010		mg/L	1		6010C	Total Recoverable
Arsenic	0.0026		0.0010		mg/L	1		6020A	Total Recoverable
Barium	0.095		0.0025		mg/L	1		6020A	Total Recoverable
Boron	0.74		0.050		mg/L	1		6020A	Total Recoverable
Calcium	110		0.20		mg/L	1		6020A	Total Recoverable
Molybdenum	0.011		0.0050		mg/L	1		6020A	Total Recoverable
Total Dissolved Solids	660		10		mg/L	1		SM 2540C	Total/NA
Chloride	120		10		mg/L	5		SM 4500 Cl- E	Total/NA
Fluoride	0.38		0.10		mg/L	1		SM 4500 F C	Total/NA
Sulfate	58		10		mg/L	2		SM 4500 SO4 E	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

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

Job ID: 500-181249-1

Client Sample ID: MW-09

Lab Sample ID: 500-181249-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0012		0.0010		mg/L	1		6020A	Total Recoverable
Barium	0.031		0.0025		mg/L	1		6020A	Total Recoverable
Boron	2.0		0.050		mg/L	1		6020A	Total Recoverable
Calcium	71		0.20		mg/L	1		6020A	Total Recoverable
Molybdenum	0.028		0.0050		mg/L	1		6020A	Total Recoverable
Total Dissolved Solids	510		10		mg/L	1		SM 2540C	Total/NA
Chloride	34		2.0		mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.20		0.10		mg/L	1		SM 4500 F C	Total/NA
Sulfate	140		25		mg/L	5		SM 4500 SO4 E	Total/NA

Client Sample ID: MW-11

Lab Sample ID: 500-181249-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.019		0.0010		mg/L	1		6020A	Total Recoverable
Barium	0.21		0.0025		mg/L	1		6020A	Total Recoverable
Boron	1.2		0.050		mg/L	1		6020A	Total Recoverable
Calcium	100		0.20		mg/L	1		6020A	Total Recoverable
Cobalt	0.0019		0.0010		mg/L	1		6020A	Total Recoverable
Molybdenum	0.024		0.0050		mg/L	1		6020A	Total Recoverable
Total Dissolved Solids	950		10		mg/L	1		SM 2540C	Total/NA
Chloride	110		10		mg/L	5		SM 4500 Cl- E	Total/NA
Fluoride	0.62		0.10		mg/L	1		SM 4500 F C	Total/NA
Sulfate	320		50		mg/L	10		SM 4500 SO4 E	Total/NA

Client Sample ID: MW-12

Lab Sample ID: 500-181249-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.012		0.010		mg/L	1		6010C	Total Recoverable
Arsenic	0.0029		0.0010		mg/L	1		6020A	Total Recoverable
Barium	0.034		0.0025		mg/L	1		6020A	Total Recoverable
Boron	0.34		0.050		mg/L	1		6020A	Total Recoverable
Calcium	71		0.20		mg/L	1		6020A	Total Recoverable
Molybdenum	0.015		0.0050		mg/L	1		6020A	Total Recoverable
Total Dissolved Solids	980		10		mg/L	1		SM 2540C	Total/NA
Chloride	150		10		mg/L	5		SM 4500 Cl- E	Total/NA
Fluoride	0.34		0.10		mg/L	1		SM 4500 F C	Total/NA
Sulfate	360		50		mg/L	10		SM 4500 SO4 E	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

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

Job ID: 500-181249-1

Client Sample ID: MW-15

Lab Sample ID: 500-181249-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.027		0.010		mg/L	1		6010C	Total
Arsenic	0.0036		0.0010		mg/L	1		6020A	Recoverable
Barium	0.060		0.0025		mg/L	1		6020A	Total
Boron	1.2		0.050		mg/L	1		6020A	Recoverable
Calcium	160		0.20		mg/L	1		6020A	Total
Molybdenum	0.023		0.0050		mg/L	1		6020A	Recoverable
Total Dissolved Solids	1300		10		mg/L	1		SM 2540C	Total/NA
Chloride	200		10		mg/L	5		SM 4500 Cl- E	Total/NA
Fluoride	0.58		0.10		mg/L	1		SM 4500 F C	Total/NA
Sulfate	370		50		mg/L	10		SM 4500 SO4 E	Total/NA

Client Sample ID: Duplicate

Lab Sample ID: 500-181249-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.027		0.010		mg/L	1		6010C	Total
Arsenic	0.0027		0.0010		mg/L	1		6020A	Recoverable
Barium	0.061		0.0025		mg/L	1		6020A	Total
Boron	1.2		0.050		mg/L	1		6020A	Recoverable
Calcium	170		0.20		mg/L	1		6020A	Total
Molybdenum	0.024		0.0050		mg/L	1		6020A	Recoverable
Total Dissolved Solids	1300		10		mg/L	1		SM 2540C	Total/NA
Chloride	200		10		mg/L	5		SM 4500 Cl- E	Total/NA
Fluoride	0.56		0.10		mg/L	1		SM 4500 F C	Total/NA
Sulfate	370		50		mg/L	10		SM 4500 SO4 E	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Method Summary

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

Job ID: 500-181249-1

Method	Method Description	Protocol	Laboratory
6010C	Metals (ICP)	SW846	TAL CHI
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 PEN
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 TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

TAL PEN = Eurofins TestAmerica, Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Sample Summary

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

Job ID: 500-181249-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-181249-1	MW-18	Water	04/27/20 10:49	04/28/20 09:35	
500-181249-2	MW-17	Water	04/27/20 11:32	04/28/20 09:35	
500-181249-3	MW-19	Water	04/27/20 12:19	04/28/20 09:35	
500-181249-4	MW-01	Water	04/28/20 08:32	04/29/20 11:30	
500-181249-5	MW-02	Water	04/28/20 09:56	04/29/20 11:30	
500-181249-6	MW-03	Water	04/28/20 10:46	04/29/20 11:30	
500-181249-7	MW-04	Water	04/28/20 11:43	04/29/20 11:30	
500-181249-8	MW-05	Water	04/28/20 12:36	04/29/20 11:30	
500-181249-9	MW-10	Water	04/28/20 13:39	04/29/20 11:30	
500-181249-10	MW-08	Water	04/28/20 14:38	04/29/20 11:30	
500-181249-11	MW-09	Water	04/29/20 09:43	04/30/20 09:40	
500-181249-12	MW-11	Water	04/29/20 08:41	04/30/20 09:40	
500-181249-13	MW-12	Water	04/29/20 10:58	04/30/20 09:40	
500-181249-14	MW-15	Water	04/29/20 12:16	04/30/20 09:40	
500-181249-15	Duplicate	Water	04/29/20 00:00	04/30/20 09:40	

Client Sample Results

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

Job ID: 500-181249-1

Client Sample ID: MW-18

Lab Sample ID: 500-181249-1

Date Collected: 04/27/20 10:49

Matrix: Water

Date Received: 04/28/20 09:35

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.016		0.010		mg/L		04/28/20 17:57	04/29/20 10:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0010		0.0010		mg/L		04/28/20 17:57	04/30/20 11:55	1
Barium	0.12		0.0025		mg/L		04/28/20 17:57	04/30/20 11:55	1
Boron	0.60		0.050		mg/L		04/28/20 17:57	05/05/20 11:12	1
Cadmium	<0.00050		0.00050		mg/L		04/28/20 17:57	04/30/20 11:55	1
Calcium	120		0.20		mg/L		04/28/20 17:57	04/30/20 11:55	1
Cobalt	<0.0010		0.0010		mg/L		04/28/20 17:57	04/30/20 11:55	1
Lead	<0.00050		0.00050		mg/L		04/28/20 17:57	04/30/20 11:55	1
Molybdenum	<0.0050		0.0050		mg/L		04/28/20 17:57	04/30/20 11:55	1
Selenium	<0.0025		0.0025		mg/L		04/28/20 17:57	04/30/20 11:55	1
Thallium	<0.0020		0.0020		mg/L		04/28/20 17:57	04/30/20 11:55	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/04/20 10:40	05/05/20 09:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1000		10		mg/L			05/01/20 01:49	1
Chloride	170		10		mg/L			05/05/20 21:56	5
Fluoride	0.69		0.10		mg/L			05/19/20 08:38	1
Sulfate	180		50		mg/L			04/30/20 13:01	10

Client Sample Results

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

Job ID: 500-181249-1

Client Sample ID: MW-17

Lab Sample ID: 500-181249-2

Date Collected: 04/27/20 11:32

Matrix: Water

Date Received: 04/28/20 09:35

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.021		0.010		mg/L		04/28/20 17:57	04/29/20 10:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.026		0.0010		mg/L		04/28/20 17:57	04/30/20 11:59	1
Barium	0.036		0.0025		mg/L		04/28/20 17:57	04/30/20 11:59	1
Boron	1.2		0.25		mg/L		04/28/20 17:57	05/05/20 11:16	5
Cadmium	<0.00050		0.00050		mg/L		04/28/20 17:57	04/30/20 11:59	1
Calcium	150		0.20		mg/L		04/28/20 17:57	04/30/20 11:59	1
Cobalt	<0.0010		0.0010		mg/L		04/28/20 17:57	04/30/20 11:59	1
Lead	0.00081		0.00050		mg/L		04/28/20 17:57	04/30/20 11:59	1
Molybdenum	0.075		0.0050		mg/L		04/28/20 17:57	04/30/20 11:59	1
Selenium	<0.0025		0.0025		mg/L		04/28/20 17:57	04/30/20 11:59	1
Thallium	<0.0020		0.0020		mg/L		04/28/20 17:57	04/30/20 11:59	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/04/20 10:40	05/05/20 09:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1300		10		mg/L			05/01/20 01:54	1
Chloride	170		10		mg/L			05/05/20 21:57	5
Fluoride	0.79		0.10		mg/L			05/19/20 08:58	1
Sulfate	520		100		mg/L			04/30/20 13:04	20

Client Sample Results

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

Job ID: 500-181249-1

Client Sample ID: MW-19

Lab Sample ID: 500-181249-3

Date Collected: 04/27/20 12:19

Matrix: Water

Date Received: 04/28/20 09:35

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		04/28/20 17:57	04/29/20 10:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0010		0.0010		mg/L		04/28/20 17:57	04/30/20 12:03	1
Barium	0.077		0.0025		mg/L		04/28/20 17:57	04/30/20 12:03	1
Boron	2.3		0.25		mg/L		04/28/20 17:57	05/05/20 11:20	5
Cadmium	<0.00050		0.00050		mg/L		04/28/20 17:57	04/30/20 12:03	1
Calcium	100		0.20		mg/L		04/28/20 17:57	04/30/20 12:03	1
Cobalt	<0.0010		0.0010		mg/L		04/28/20 17:57	04/30/20 12:03	1
Lead	<0.00050		0.00050		mg/L		04/28/20 17:57	04/30/20 12:03	1
Molybdenum	0.042		0.0050		mg/L		04/28/20 17:57	04/30/20 12:03	1
Selenium	<0.0025		0.0025		mg/L		04/28/20 17:57	04/30/20 12:03	1
Thallium	<0.0020		0.0020		mg/L		04/28/20 17:57	04/30/20 12:03	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/04/20 10:40	05/05/20 09:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	570		10		mg/L			05/01/20 01:56	1
Chloride	43		2.0		mg/L			05/02/20 14:05	1
Fluoride	0.17		0.10		mg/L			05/19/20 09:05	1
Sulfate	110		25		mg/L			04/30/20 13:04	5

Client Sample Results

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

Job ID: 500-181249-1

Client Sample ID: MW-01

Lab Sample ID: 500-181249-4

Date Collected: 04/28/20 08:32

Matrix: Water

Date Received: 04/29/20 11:30

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		04/29/20 17:08	04/30/20 09:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0010		0.0010		mg/L		04/29/20 17:08	05/04/20 19:19	1
Barium	0.051		0.0025		mg/L		04/29/20 17:08	05/04/20 19:19	1
Boron	0.33		0.050		mg/L		04/29/20 17:08	05/05/20 11:38	1
Cadmium	<0.00050		0.00050		mg/L		04/29/20 17:08	05/04/20 19:19	1
Calcium	110		0.20		mg/L		04/29/20 17:08	05/04/20 19:19	1
Chromium	<0.0050		0.0050		mg/L		04/29/20 17:08	05/04/20 19:19	1
Cobalt	<0.0010		0.0010		mg/L		04/29/20 17:08	05/04/20 19:19	1
Lead	<0.00050		0.00050		mg/L		04/29/20 17:08	05/04/20 19:19	1
Molybdenum	<0.0050		0.0050		mg/L		04/29/20 17:08	05/04/20 19:19	1
Selenium	<0.0025		0.0025		mg/L		04/29/20 17:08	05/04/20 19:19	1
Thallium	<0.0020		0.0020		mg/L		04/29/20 17:08	05/04/20 19:19	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/04/20 10:40	05/05/20 09:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	470		10		mg/L			05/01/20 01:59	1
Chloride	46		2.0		mg/L			05/02/20 14:05	1
Fluoride	0.19		0.10		mg/L			05/19/20 09:12	1
Sulfate	41		10		mg/L			05/04/20 11:53	2

Client Sample Results

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

Job ID: 500-181249-1

Client Sample ID: MW-02

Date Collected: 04/28/20 09:56

Date Received: 04/29/20 11:30

Lab Sample ID: 500-181249-5

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0016		0.0010		mg/L		04/29/20 17:08	05/04/20 19:22	1
Barium	0.060		0.0025		mg/L		04/29/20 17:08	05/04/20 19:22	1
Boron	0.33		0.050		mg/L		04/29/20 17:08	05/05/20 11:49	1
Calcium	90		0.20		mg/L		04/29/20 17:08	05/04/20 19:22	1
Chromium	<0.0050		0.0050		mg/L		04/29/20 17:08	05/04/20 19:22	1
Cobalt	<0.0010		0.0010		mg/L		04/29/20 17:08	05/04/20 19:22	1
Lead	<0.00050		0.00050		mg/L		04/29/20 17:08	05/04/20 19:22	1
Molybdenum	<0.0050		0.0050		mg/L		04/29/20 17:08	05/04/20 19:22	1
Selenium	<0.0025		0.0025		mg/L		04/29/20 17:08	05/04/20 19:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	430		10		mg/L			05/01/20 02:02	1
Chloride	50		2.0		mg/L			05/02/20 14:06	1
Fluoride	0.20		0.10		mg/L			05/19/20 09:19	1
Sulfate	41		10		mg/L			05/04/20 11:57	2

Client Sample Results

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

Job ID: 500-181249-1

Client Sample ID: MW-03

Date Collected: 04/28/20 10:46

Date Received: 04/29/20 11:30

Lab Sample ID: 500-181249-6

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0013		0.0010		mg/L		04/29/20 17:08	05/04/20 19:26	1
Barium	0.066		0.0025		mg/L		04/29/20 17:08	05/04/20 19:26	1
Boron	0.24		0.050		mg/L		04/29/20 17:08	05/05/20 11:52	1
Calcium	86		0.20		mg/L		04/29/20 17:08	05/04/20 19:26	1
Chromium	<0.0050		0.0050		mg/L		04/29/20 17:08	05/04/20 19:26	1
Cobalt	<0.0010		0.0010		mg/L		04/29/20 17:08	05/04/20 19:26	1
Lead	<0.00050		0.00050		mg/L		04/29/20 17:08	05/04/20 19:26	1
Molybdenum	<0.0050		0.0050		mg/L		04/29/20 17:08	05/04/20 19:26	1
Selenium	0.0036		0.0025		mg/L		04/29/20 17:08	05/04/20 19:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	410		10		mg/L			05/01/20 02:04	1
Chloride	46		2.0		mg/L			05/02/20 13:03	1
Fluoride	0.22		0.10		mg/L			05/19/20 09:25	1
Sulfate	79		25		mg/L			05/04/20 11:57	5

Client Sample Results

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

Job ID: 500-181249-1

Client Sample ID: MW-04

Date Collected: 04/28/20 11:43

Date Received: 04/29/20 11:30

Lab Sample ID: 500-181249-7

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0010		0.0010		mg/L		04/29/20 17:08	05/04/20 19:30	1
Barium	0.025		0.0025		mg/L		04/29/20 17:08	05/04/20 19:30	1
Boron	0.55		0.050		mg/L		04/29/20 17:08	05/05/20 11:56	1
Calcium	76		0.20		mg/L		04/29/20 17:08	05/04/20 19:30	1
Chromium	<0.0050		0.0050		mg/L		04/29/20 17:08	05/04/20 19:30	1
Cobalt	<0.0010		0.0010		mg/L		04/29/20 17:08	05/04/20 19:30	1
Lead	<0.00050		0.00050		mg/L		04/29/20 17:08	05/04/20 19:30	1
Molybdenum	<0.0050		0.0050		mg/L		04/29/20 17:08	05/04/20 19:30	1
Selenium	<0.0025		0.0025		mg/L		04/29/20 17:08	05/04/20 19:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	380		10		mg/L			05/01/20 02:07	1
Chloride	52		2.0		mg/L			05/05/20 19:45	1
Fluoride	0.27		0.10		mg/L			05/19/20 09:46	1
Sulfate	47		25		mg/L			05/04/20 12:01	5

Client Sample Results

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

Job ID: 500-181249-1

Client Sample ID: MW-05

Date Collected: 04/28/20 12:36

Date Received: 04/29/20 11:30

Lab Sample ID: 500-181249-8

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0010		0.0010		mg/L		04/29/20 17:08	05/04/20 19:34	1
Barium	0.052		0.0025		mg/L		04/29/20 17:08	05/04/20 19:34	1
Boron	0.49		0.050		mg/L		04/29/20 17:08	05/05/20 11:59	1
Calcium	110		0.20		mg/L		04/29/20 17:08	05/04/20 19:34	1
Chromium	<0.0050		0.0050		mg/L		04/29/20 17:08	05/04/20 19:34	1
Cobalt	<0.0010		0.0010		mg/L		04/29/20 17:08	05/04/20 19:34	1
Lead	<0.00050		0.00050		mg/L		04/29/20 17:08	05/04/20 19:34	1
Molybdenum	0.0074		0.0050		mg/L		04/29/20 17:08	05/04/20 19:34	1
Selenium	<0.0025		0.0025		mg/L		04/29/20 17:08	05/04/20 19:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	620		10		mg/L			05/01/20 02:09	1
Chloride	56		2.0		mg/L			05/05/20 21:58	1
Fluoride	0.37		0.10		mg/L			05/19/20 09:53	1
Sulfate	130		25		mg/L			05/04/20 12:01	5

Client Sample Results

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

Job ID: 500-181249-1

Client Sample ID: MW-10

Lab Sample ID: 500-181249-9

Date Collected: 04/28/20 13:39

Matrix: Water

Date Received: 04/29/20 11:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0022		0.0010		mg/L		04/29/20 17:08	05/04/20 19:37	1
Barium	0.25		0.0025		mg/L		04/29/20 17:08	05/04/20 19:37	1
Boron	1.0		0.050		mg/L		04/29/20 17:08	05/05/20 12:03	1
Calcium	110		0.20		mg/L		04/29/20 17:08	05/04/20 19:37	1
Chromium	<0.0050		0.0050		mg/L		04/29/20 17:08	05/04/20 19:37	1
Cobalt	0.0065		0.0010		mg/L		04/29/20 17:08	05/04/20 19:37	1
Lead	0.0017		0.00050		mg/L		04/29/20 17:08	05/04/20 19:37	1
Molybdenum	<0.0050		0.0050		mg/L		04/29/20 17:08	05/04/20 19:37	1
Selenium	0.0054		0.0025		mg/L		04/29/20 17:08	05/04/20 19:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	550		10		mg/L			05/01/20 02:12	1
Chloride	41		2.0		mg/L			05/05/20 22:01	1
Fluoride	0.24		0.10		mg/L			05/19/20 09:59	1
Sulfate	64		25		mg/L			05/04/20 12:01	5

Client Sample Results

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

Job ID: 500-181249-1

Client Sample ID: MW-08

Lab Sample ID: 500-181249-10

Date Collected: 04/28/20 14:38

Matrix: Water

Date Received: 04/29/20 11:30

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.026		0.010		mg/L		04/29/20 17:08	04/30/20 09:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0026		0.0010		mg/L		04/29/20 17:08	05/04/20 19:41	1
Barium	0.095		0.0025		mg/L		04/29/20 17:08	05/04/20 19:41	1
Boron	0.74		0.050		mg/L		04/29/20 17:08	05/05/20 12:07	1
Cadmium	<0.00050		0.00050		mg/L		04/29/20 17:08	05/04/20 19:41	1
Calcium	110		0.20		mg/L		04/29/20 17:08	05/04/20 19:41	1
Cobalt	<0.0010		0.0010		mg/L		04/29/20 17:08	05/04/20 19:41	1
Lead	<0.00050		0.00050		mg/L		04/29/20 17:08	05/04/20 19:41	1
Molybdenum	0.011		0.0050		mg/L		04/29/20 17:08	05/04/20 19:41	1
Selenium	<0.0025		0.0025		mg/L		04/29/20 17:08	05/04/20 19:41	1
Thallium	<0.0020		0.0020		mg/L		04/29/20 17:08	05/04/20 19:41	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/05/20 10:05	05/06/20 09:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	660		10		mg/L			05/01/20 02:15	1
Chloride	120		10		mg/L			05/06/20 00:16	5
Fluoride	0.38		0.10		mg/L			05/19/20 10:06	1
Sulfate	58		10		mg/L			05/04/20 12:01	2

Client Sample Results

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

Job ID: 500-181249-1

Client Sample ID: MW-09

Lab Sample ID: 500-181249-11

Date Collected: 04/29/20 09:43

Matrix: Water

Date Received: 04/30/20 09:40

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		05/01/20 07:00	05/01/20 19:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0012		0.0010		mg/L		05/01/20 07:00	05/01/20 16:36	1
Barium	0.031		0.0025		mg/L		05/01/20 07:00	05/01/20 16:36	1
Boron	2.0		0.050		mg/L		05/01/20 07:00	05/01/20 16:36	1
Cadmium	<0.00050		0.00050		mg/L		05/01/20 07:00	05/01/20 16:36	1
Calcium	71		0.20		mg/L		05/01/20 07:00	05/01/20 16:36	1
Cobalt	<0.0010		0.0010		mg/L		05/01/20 07:00	05/01/20 16:36	1
Lead	<0.00050		0.00050		mg/L		05/01/20 07:00	05/01/20 16:36	1
Molybdenum	0.028		0.0050		mg/L		05/01/20 07:00	05/01/20 16:36	1
Selenium	<0.0025		0.0025		mg/L		05/01/20 07:00	05/01/20 16:36	1
Thallium	<0.0020		0.0020		mg/L		05/01/20 07:00	05/01/20 16:36	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/05/20 10:05	05/06/20 09:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	510		10		mg/L			05/01/20 02:17	1
Chloride	34		2.0		mg/L			05/06/20 00:16	1
Fluoride	0.20		0.10		mg/L			05/19/20 10:13	1
Sulfate	140		25		mg/L			05/04/20 12:06	5

Client Sample Results

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

Job ID: 500-181249-1

Client Sample ID: MW-11

Lab Sample ID: 500-181249-12

Date Collected: 04/29/20 08:41

Matrix: Water

Date Received: 04/30/20 09:40

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		05/01/20 07:00	05/01/20 19:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.019		0.0010		mg/L		05/01/20 07:00	05/01/20 16:40	1
Barium	0.21		0.0025		mg/L		05/01/20 07:00	05/01/20 16:40	1
Boron	1.2		0.050		mg/L		05/01/20 07:00	05/01/20 16:40	1
Cadmium	<0.00050		0.00050		mg/L		05/01/20 07:00	05/01/20 16:40	1
Calcium	100		0.20		mg/L		05/01/20 07:00	05/01/20 16:40	1
Cobalt	0.0019		0.0010		mg/L		05/01/20 07:00	05/01/20 16:40	1
Lead	<0.00050		0.00050		mg/L		05/01/20 07:00	05/01/20 16:40	1
Molybdenum	0.024		0.0050		mg/L		05/01/20 07:00	05/01/20 16:40	1
Selenium	<0.0025		0.0025		mg/L		05/01/20 07:00	05/01/20 16:40	1
Thallium	<0.0020		0.0020		mg/L		05/01/20 07:00	05/01/20 16:40	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/05/20 10:05	05/06/20 09:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	950		10		mg/L			05/01/20 02:20	1
Chloride	110		10		mg/L			05/06/20 00:18	5
Fluoride	0.62		0.10		mg/L			05/19/20 10:20	1
Sulfate	320		50		mg/L			05/04/20 12:06	10

Client Sample Results

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

Job ID: 500-181249-1

Client Sample ID: MW-12

Lab Sample ID: 500-181249-13

Date Collected: 04/29/20 10:58

Matrix: Water

Date Received: 04/30/20 09:40

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.012		0.010		mg/L		05/01/20 07:00	05/01/20 19:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0029		0.0010		mg/L		05/01/20 07:00	05/01/20 16:43	1
Barium	0.034		0.0025		mg/L		05/01/20 07:00	05/01/20 16:43	1
Boron	0.34		0.050		mg/L		05/01/20 07:00	05/01/20 16:43	1
Cadmium	<0.00050		0.00050		mg/L		05/01/20 07:00	05/01/20 16:43	1
Calcium	71		0.20		mg/L		05/01/20 07:00	05/01/20 16:43	1
Cobalt	<0.0010		0.0010		mg/L		05/01/20 07:00	05/01/20 16:43	1
Lead	<0.00050		0.00050		mg/L		05/01/20 07:00	05/01/20 16:43	1
Molybdenum	0.015		0.0050		mg/L		05/01/20 07:00	05/01/20 16:43	1
Selenium	<0.0025		0.0025		mg/L		05/01/20 07:00	05/01/20 16:43	1
Thallium	<0.0020		0.0020		mg/L		05/01/20 07:00	05/01/20 16:43	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/05/20 10:05	05/06/20 09:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	980		10		mg/L			05/01/20 02:22	1
Chloride	150		10		mg/L			05/06/20 00:18	5
Fluoride	0.34		0.10		mg/L			05/19/20 10:27	1
Sulfate	360		50		mg/L			05/04/20 12:23	10

Client Sample Results

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

Job ID: 500-181249-1

Client Sample ID: MW-15

Lab Sample ID: 500-181249-14

Date Collected: 04/29/20 12:16

Matrix: Water

Date Received: 04/30/20 09:40

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.027		0.010		mg/L		05/01/20 07:00	05/01/20 20:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0036		0.0010		mg/L		05/01/20 07:00	05/01/20 16:47	1
Barium	0.060		0.0025		mg/L		05/01/20 07:00	05/01/20 16:47	1
Boron	1.2		0.050		mg/L		05/01/20 07:00	05/01/20 16:47	1
Cadmium	<0.00050		0.00050		mg/L		05/01/20 07:00	05/01/20 16:47	1
Calcium	160		0.20		mg/L		05/01/20 07:00	05/01/20 16:47	1
Cobalt	<0.0010		0.0010		mg/L		05/01/20 07:00	05/01/20 16:47	1
Lead	<0.00050		0.00050		mg/L		05/01/20 07:00	05/01/20 16:47	1
Molybdenum	0.023		0.0050		mg/L		05/01/20 07:00	05/01/20 16:47	1
Selenium	<0.0025		0.0025		mg/L		05/01/20 07:00	05/01/20 16:47	1
Thallium	<0.0020		0.0020		mg/L		05/01/20 07:00	05/01/20 16:47	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/05/20 10:05	05/06/20 09:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1300		10		mg/L			05/01/20 02:25	1
Chloride	200		10		mg/L			05/06/20 00:19	5
Fluoride	0.58		0.10		mg/L			05/19/20 10:33	1
Sulfate	370		50		mg/L			05/04/20 12:23	10

Client Sample Results

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

Job ID: 500-181249-1

Client Sample ID: Duplicate

Lab Sample ID: 500-181249-15

Date Collected: 04/29/20 00:00

Matrix: Water

Date Received: 04/30/20 09:40

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.027		0.010		mg/L		05/01/20 07:00	05/01/20 20:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0027		0.0010		mg/L		05/01/20 07:00	05/01/20 16:51	1
Barium	0.061		0.0025		mg/L		05/01/20 07:00	05/01/20 16:51	1
Boron	1.2		0.050		mg/L		05/01/20 07:00	05/01/20 16:51	1
Cadmium	<0.00050		0.00050		mg/L		05/01/20 07:00	05/01/20 16:51	1
Calcium	170		0.20		mg/L		05/01/20 07:00	05/01/20 16:51	1
Cobalt	<0.0010		0.0010		mg/L		05/01/20 07:00	05/01/20 16:51	1
Lead	<0.00050		0.00050		mg/L		05/01/20 07:00	05/01/20 16:51	1
Molybdenum	0.024		0.0050		mg/L		05/01/20 07:00	05/01/20 16:51	1
Selenium	<0.0025		0.0025		mg/L		05/01/20 07:00	05/01/20 16:51	1
Thallium	<0.0020		0.0020		mg/L		05/01/20 07:00	05/01/20 16:51	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/05/20 10:05	05/06/20 09:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1300		10		mg/L			05/01/20 02:27	1
Chloride	200		10		mg/L			05/06/20 00:19	5
Fluoride	0.56		0.10		mg/L			05/19/20 10:38	1
Sulfate	370		50		mg/L			05/04/20 12:08	10

Definitions/Glossary

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

Job ID: 500-181249-1

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
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

QC Association Summary

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

Job ID: 500-181249-1

Metals

Prep Batch: 540154

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-181249-1	MW-18	Total Recoverable	Water	3005A	
500-181249-2	MW-17	Total Recoverable	Water	3005A	
500-181249-3	MW-19	Total Recoverable	Water	3005A	
MB 500-540154/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-540154/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 540335

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-181249-1	MW-18	Total Recoverable	Water	6010C	540154
500-181249-2	MW-17	Total Recoverable	Water	6010C	540154
500-181249-3	MW-19	Total Recoverable	Water	6010C	540154
MB 500-540154/1-A	Method Blank	Total Recoverable	Water	6010C	540154
LCS 500-540154/2-A	Lab Control Sample	Total Recoverable	Water	6010C	540154

Prep Batch: 540361

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-181249-4	MW-01	Total Recoverable	Water	3005A	
500-181249-5	MW-02	Total Recoverable	Water	3005A	
500-181249-6	MW-03	Total Recoverable	Water	3005A	
500-181249-7	MW-04	Total Recoverable	Water	3005A	
500-181249-8	MW-05	Total Recoverable	Water	3005A	
500-181249-9	MW-10	Total Recoverable	Water	3005A	
500-181249-10	MW-08	Total Recoverable	Water	3005A	
MB 500-540361/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-540361/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 540533

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-181249-4	MW-01	Total Recoverable	Water	6010C	540361
500-181249-10	MW-08	Total Recoverable	Water	6010C	540361
MB 500-540361/1-A	Method Blank	Total Recoverable	Water	6010C	540361
LCS 500-540361/2-A	Lab Control Sample	Total Recoverable	Water	6010C	540361

Analysis Batch: 540544

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-181249-1	MW-18	Total Recoverable	Water	6020A	540154
500-181249-2	MW-17	Total Recoverable	Water	6020A	540154
500-181249-3	MW-19	Total Recoverable	Water	6020A	540154
MB 500-540154/1-A	Method Blank	Total Recoverable	Water	6020A	540154
LCS 500-540154/2-A	Lab Control Sample	Total Recoverable	Water	6020A	540154

Prep Batch: 540624

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-181249-11	MW-09	Total Recoverable	Water	3005A	
500-181249-12	MW-11	Total Recoverable	Water	3005A	
500-181249-13	MW-12	Total Recoverable	Water	3005A	
500-181249-14	MW-15	Total Recoverable	Water	3005A	
500-181249-15	Duplicate	Total Recoverable	Water	3005A	
MB 500-540624/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-540624/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

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QC Association Summary

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

Job ID: 500-181249-1

Metals

Analysis Batch: 540772

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-181249-11	MW-09	Total Recoverable	Water	6010C	540624
500-181249-12	MW-11	Total Recoverable	Water	6010C	540624
500-181249-13	MW-12	Total Recoverable	Water	6010C	540624
500-181249-14	MW-15	Total Recoverable	Water	6010C	540624
500-181249-15	Duplicate	Total Recoverable	Water	6010C	540624
MB 500-540624/1-A	Method Blank	Total Recoverable	Water	6010C	540624
LCS 500-540624/2-A	Lab Control Sample	Total Recoverable	Water	6010C	540624

Analysis Batch: 540865

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-181249-11	MW-09	Total Recoverable	Water	6020A	540624
500-181249-12	MW-11	Total Recoverable	Water	6020A	540624
500-181249-13	MW-12	Total Recoverable	Water	6020A	540624
500-181249-14	MW-15	Total Recoverable	Water	6020A	540624
500-181249-15	Duplicate	Total Recoverable	Water	6020A	540624
MB 500-540624/1-A	Method Blank	Total Recoverable	Water	6020A	540624
LCS 500-540624/2-A	Lab Control Sample	Total Recoverable	Water	6020A	540624

Prep Batch: 540885

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-181249-1	MW-18	Total/NA	Water	7470A	
500-181249-2	MW-17	Total/NA	Water	7470A	
500-181249-3	MW-19	Total/NA	Water	7470A	
500-181249-4	MW-01	Total/NA	Water	7470A	
MB 500-540885/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-540885/13-A	Lab Control Sample	Total/NA	Water	7470A	
500-181249-1 MS	MW-18	Total/NA	Water	7470A	
500-181249-1 MSD	MW-18	Total/NA	Water	7470A	
500-181249-1 DU	MW-18	Total/NA	Water	7470A	

Analysis Batch: 541048

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-181249-4	MW-01	Total Recoverable	Water	6020A	540361
500-181249-5	MW-02	Total Recoverable	Water	6020A	540361
500-181249-6	MW-03	Total Recoverable	Water	6020A	540361
500-181249-7	MW-04	Total Recoverable	Water	6020A	540361
500-181249-8	MW-05	Total Recoverable	Water	6020A	540361
500-181249-9	MW-10	Total Recoverable	Water	6020A	540361
500-181249-10	MW-08	Total Recoverable	Water	6020A	540361
MB 500-540361/1-A	Method Blank	Total Recoverable	Water	6020A	540361
LCS 500-540361/2-A	Lab Control Sample	Total Recoverable	Water	6020A	540361

Prep Batch: 541074

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-181249-10	MW-08	Total/NA	Water	7470A	
500-181249-11	MW-09	Total/NA	Water	7470A	
500-181249-12	MW-11	Total/NA	Water	7470A	
500-181249-13	MW-12	Total/NA	Water	7470A	
500-181249-14	MW-15	Total/NA	Water	7470A	
500-181249-15	Duplicate	Total/NA	Water	7470A	
MB 500-541074/12-A	Method Blank	Total/NA	Water	7470A	

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QC Association Summary

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

Job ID: 500-181249-1

Metals (Continued)

Prep Batch: 541074 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-541074/13-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 541085

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-181249-1	MW-18	Total/NA	Water	7470A	540885
500-181249-2	MW-17	Total/NA	Water	7470A	540885
500-181249-3	MW-19	Total/NA	Water	7470A	540885
500-181249-4	MW-01	Total/NA	Water	7470A	540885
MB 500-540885/12-A	Method Blank	Total/NA	Water	7470A	540885
LCS 500-540885/13-A	Lab Control Sample	Total/NA	Water	7470A	540885
500-181249-1 MS	MW-18	Total/NA	Water	7470A	540885
500-181249-1 MSD	MW-18	Total/NA	Water	7470A	540885
500-181249-1 DU	MW-18	Total/NA	Water	7470A	540885

Analysis Batch: 541102

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-181249-1	MW-18	Total Recoverable	Water	6020A	540154
500-181249-2	MW-17	Total Recoverable	Water	6020A	540154
500-181249-3	MW-19	Total Recoverable	Water	6020A	540154
500-181249-4	MW-01	Total Recoverable	Water	6020A	540361
500-181249-5	MW-02	Total Recoverable	Water	6020A	540361
500-181249-6	MW-03	Total Recoverable	Water	6020A	540361
500-181249-7	MW-04	Total Recoverable	Water	6020A	540361
500-181249-8	MW-05	Total Recoverable	Water	6020A	540361
500-181249-9	MW-10	Total Recoverable	Water	6020A	540361
500-181249-10	MW-08	Total Recoverable	Water	6020A	540361
MB 500-540154/1-A	Method Blank	Total Recoverable	Water	6020A	540154
MB 500-540361/1-A	Method Blank	Total Recoverable	Water	6020A	540361
LCS 500-540154/2-A	Lab Control Sample	Total Recoverable	Water	6020A	540154
LCS 500-540361/2-A	Lab Control Sample	Total Recoverable	Water	6020A	540361

Analysis Batch: 541287

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-181249-10	MW-08	Total/NA	Water	7470A	541074
500-181249-11	MW-09	Total/NA	Water	7470A	541074
500-181249-12	MW-11	Total/NA	Water	7470A	541074
500-181249-13	MW-12	Total/NA	Water	7470A	541074
500-181249-14	MW-15	Total/NA	Water	7470A	541074
500-181249-15	Duplicate	Total/NA	Water	7470A	541074
MB 500-541074/12-A	Method Blank	Total/NA	Water	7470A	541074
LCS 500-541074/13-A	Lab Control Sample	Total/NA	Water	7470A	541074

General Chemistry

Analysis Batch: 487586

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-181249-1	MW-18	Total/NA	Water	SM 4500 SO4 E	
500-181249-2	MW-17	Total/NA	Water	SM 4500 SO4 E	
500-181249-3	MW-19	Total/NA	Water	SM 4500 SO4 E	
MB 400-487586/5	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 400-487586/6	Lab Control Sample	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: 500-181249-1

General Chemistry (Continued)

Analysis Batch: 487586 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 400-487586/26	Lab Control Sample Dup	Total/NA	Water	SM 4500 SO4 E	
MRL 400-487586/3	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 487903

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-181249-4	MW-01	Total/NA	Water	SM 4500 SO4 E	
500-181249-5	MW-02	Total/NA	Water	SM 4500 SO4 E	
500-181249-6	MW-03	Total/NA	Water	SM 4500 SO4 E	
500-181249-7	MW-04	Total/NA	Water	SM 4500 SO4 E	
500-181249-8	MW-05	Total/NA	Water	SM 4500 SO4 E	
500-181249-9	MW-10	Total/NA	Water	SM 4500 SO4 E	
500-181249-10	MW-08	Total/NA	Water	SM 4500 SO4 E	
500-181249-11	MW-09	Total/NA	Water	SM 4500 SO4 E	
500-181249-12	MW-11	Total/NA	Water	SM 4500 SO4 E	
500-181249-13	MW-12	Total/NA	Water	SM 4500 SO4 E	
500-181249-14	MW-15	Total/NA	Water	SM 4500 SO4 E	
500-181249-15	Duplicate	Total/NA	Water	SM 4500 SO4 E	
MB 400-487903/6	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 400-487903/7	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MRL 400-487903/3	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
500-181249-6 MS	MW-03	Total/NA	Water	SM 4500 SO4 E	
500-181249-6 MSD	MW-03	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 540620

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-181249-1	MW-18	Total/NA	Water	SM 2540C	
500-181249-2	MW-17	Total/NA	Water	SM 2540C	
500-181249-3	MW-19	Total/NA	Water	SM 2540C	
500-181249-4	MW-01	Total/NA	Water	SM 2540C	
500-181249-5	MW-02	Total/NA	Water	SM 2540C	
500-181249-6	MW-03	Total/NA	Water	SM 2540C	
500-181249-7	MW-04	Total/NA	Water	SM 2540C	
500-181249-8	MW-05	Total/NA	Water	SM 2540C	
500-181249-9	MW-10	Total/NA	Water	SM 2540C	
500-181249-10	MW-08	Total/NA	Water	SM 2540C	
500-181249-11	MW-09	Total/NA	Water	SM 2540C	
500-181249-12	MW-11	Total/NA	Water	SM 2540C	
500-181249-13	MW-12	Total/NA	Water	SM 2540C	
500-181249-14	MW-15	Total/NA	Water	SM 2540C	
500-181249-15	Duplicate	Total/NA	Water	SM 2540C	
MB 500-540620/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-540620/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-181249-1 DU	MW-18	Total/NA	Water	SM 2540C	

Analysis Batch: 540788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-181249-6	MW-03	Total/NA	Water	SM 4500 Cl- E	
MB 500-540788/50	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 500-540788/51	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	

Eurofins TestAmerica, Chicago

QC Association Summary

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

Job ID: 500-181249-1

General Chemistry

Analysis Batch: 540918

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-181249-3	MW-19	Total/NA	Water	SM 4500 Cl- E	
500-181249-4	MW-01	Total/NA	Water	SM 4500 Cl- E	
500-181249-5	MW-02	Total/NA	Water	SM 4500 Cl- E	
MB 500-540918/12	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 500-540918/13	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 541151

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-181249-7	MW-04	Total/NA	Water	SM 4500 Cl- E	
MB 500-541151/12	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 500-541151/13	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 541164

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-181249-1	MW-18	Total/NA	Water	SM 4500 Cl- E	
500-181249-2	MW-17	Total/NA	Water	SM 4500 Cl- E	
500-181249-8	MW-05	Total/NA	Water	SM 4500 Cl- E	
500-181249-9	MW-10	Total/NA	Water	SM 4500 Cl- E	
500-181249-10	MW-08	Total/NA	Water	SM 4500 Cl- E	
500-181249-11	MW-09	Total/NA	Water	SM 4500 Cl- E	
500-181249-12	MW-11	Total/NA	Water	SM 4500 Cl- E	
500-181249-13	MW-12	Total/NA	Water	SM 4500 Cl- E	
500-181249-14	MW-15	Total/NA	Water	SM 4500 Cl- E	
500-181249-15	Duplicate	Total/NA	Water	SM 4500 Cl- E	
MB 500-541164/4	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 500-541164/5	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
500-181249-8 MS	MW-05	Total/NA	Water	SM 4500 Cl- E	
500-181249-8 MSD	MW-05	Total/NA	Water	SM 4500 Cl- E	
500-181249-11 MS	MW-09	Total/NA	Water	SM 4500 Cl- E	
500-181249-11 MSD	MW-09	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 543368

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-181249-1	MW-18	Total/NA	Water	SM 4500 F C	
500-181249-2	MW-17	Total/NA	Water	SM 4500 F C	
500-181249-3	MW-19	Total/NA	Water	SM 4500 F C	
500-181249-4	MW-01	Total/NA	Water	SM 4500 F C	
500-181249-5	MW-02	Total/NA	Water	SM 4500 F C	
500-181249-6	MW-03	Total/NA	Water	SM 4500 F C	
500-181249-7	MW-04	Total/NA	Water	SM 4500 F C	
500-181249-8	MW-05	Total/NA	Water	SM 4500 F C	
500-181249-9	MW-10	Total/NA	Water	SM 4500 F C	
500-181249-10	MW-08	Total/NA	Water	SM 4500 F C	
500-181249-11	MW-09	Total/NA	Water	SM 4500 F C	
500-181249-12	MW-11	Total/NA	Water	SM 4500 F C	
500-181249-13	MW-12	Total/NA	Water	SM 4500 F C	
500-181249-14	MW-15	Total/NA	Water	SM 4500 F C	
500-181249-15	Duplicate	Total/NA	Water	SM 4500 F C	
MB 500-543368/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-543368/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
500-181249-1 MS	MW-18	Total/NA	Water	SM 4500 F C	

Eurofins TestAmerica, Chicago

QC Association Summary

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

Job ID: 500-181249-1

General Chemistry (Continued)

Analysis Batch: 543368 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-181249-1 MSD	MW-18	Total/NA	Water	SM 4500 F C	

1

2

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QC Sample Results

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

Job ID: 500-181249-1

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 500-540154/1-A
Matrix: Water
Analysis Batch: 540335

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 540154

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		04/28/20 17:57	04/29/20 10:07	1

Lab Sample ID: LCS 500-540154/2-A
Matrix: Water
Analysis Batch: 540335

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 540154

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lithium	0.500	0.481		mg/L		96	80 - 120

Lab Sample ID: MB 500-540361/1-A
Matrix: Water
Analysis Batch: 540533

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 540361

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		04/29/20 17:08	04/30/20 09:18	1

Lab Sample ID: LCS 500-540361/2-A
Matrix: Water
Analysis Batch: 540533

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 540361

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lithium	0.500	0.516		mg/L		103	80 - 120

Lab Sample ID: MB 500-540624/1-A
Matrix: Water
Analysis Batch: 540772

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 540624

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		05/01/20 07:00	05/01/20 19:31	1

Lab Sample ID: LCS 500-540624/2-A
Matrix: Water
Analysis Batch: 540772

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 540624

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lithium	0.100	0.107		mg/L		107	80 - 120

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 500-540154/1-A
Matrix: Water
Analysis Batch: 540544

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 540154

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0010		0.0010		mg/L		04/28/20 17:57	04/30/20 11:48	1
Barium	<0.0025		0.0025		mg/L		04/28/20 17:57	04/30/20 11:48	1
Cadmium	<0.00050		0.00050		mg/L		04/28/20 17:57	04/30/20 11:48	1
Calcium	<0.20		0.20		mg/L		04/28/20 17:57	04/30/20 11:48	1
Cobalt	<0.0010		0.0010		mg/L		04/28/20 17:57	04/30/20 11:48	1
Lead	<0.00050		0.00050		mg/L		04/28/20 17:57	04/30/20 11:48	1

Eurofins TestAmerica, Chicago

QC Sample Results

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

Job ID: 500-181249-1

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

Lab Sample ID: MB 500-540154/1-A

Matrix: Water

Analysis Batch: 540544

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 540154

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Molybdenum	<0.0050		0.0050		mg/L		04/28/20 17:57	04/30/20 11:48	1
Selenium	<0.0025		0.0025		mg/L		04/28/20 17:57	04/30/20 11:48	1
Thallium	<0.0020		0.0020		mg/L		04/28/20 17:57	04/30/20 11:48	1

Lab Sample ID: MB 500-540154/1-A

Matrix: Water

Analysis Batch: 541102

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 540154

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.050		0.050		mg/L		04/28/20 17:57	05/05/20 11:05	1

Lab Sample ID: LCS 500-540154/2-A

Matrix: Water

Analysis Batch: 540544

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 540154

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.100	0.0995		mg/L		100	80 - 120
Barium	2.00	2.01		mg/L		100	80 - 120
Cadmium	0.0500	0.0512		mg/L		102	80 - 120
Calcium	10.0	10.3		mg/L		103	80 - 120
Cobalt	0.500	0.529		mg/L		106	80 - 120
Lead	0.100	0.110		mg/L		110	80 - 120
Molybdenum	1.00	1.01		mg/L		101	80 - 120
Selenium	0.100	0.103		mg/L		103	80 - 120
Thallium	0.100	0.109		mg/L		109	80 - 120

Lab Sample ID: LCS 500-540154/2-A

Matrix: Water

Analysis Batch: 541102

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 540154

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	1.00	1.00		mg/L		100	80 - 120

Lab Sample ID: MB 500-540361/1-A

Matrix: Water

Analysis Batch: 541048

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 540361

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0010		0.0010		mg/L		04/29/20 17:08	05/04/20 18:34	1
Barium	<0.0025		0.0025		mg/L		04/29/20 17:08	05/04/20 18:34	1
Cadmium	<0.00050		0.00050		mg/L		04/29/20 17:08	05/04/20 18:34	1
Calcium	<0.20		0.20		mg/L		04/29/20 17:08	05/04/20 18:34	1
Chromium	<0.0050		0.0050		mg/L		04/29/20 17:08	05/04/20 18:34	1
Cobalt	<0.0010		0.0010		mg/L		04/29/20 17:08	05/04/20 18:34	1
Lead	<0.00050		0.00050		mg/L		04/29/20 17:08	05/04/20 18:34	1
Molybdenum	<0.0050		0.0050		mg/L		04/29/20 17:08	05/04/20 18:34	1
Selenium	<0.0025		0.0025		mg/L		04/29/20 17:08	05/04/20 18:34	1
Thallium	<0.0020		0.0020		mg/L		04/29/20 17:08	05/04/20 18:34	1

Eurofins TestAmerica, Chicago

QC Sample Results

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

Job ID: 500-181249-1

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

Lab Sample ID: MB 500-540361/1-A

Matrix: Water

Analysis Batch: 541102

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 540361

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.050		0.050		mg/L		04/29/20 17:08	05/05/20 11:23	1

Lab Sample ID: LCS 500-540361/2-A

Matrix: Water

Analysis Batch: 541048

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 540361

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.100	0.0954		mg/L		95	80 - 120
Barium	2.00	1.93		mg/L		96	80 - 120
Cadmium	0.0500	0.0472		mg/L		94	80 - 120
Calcium	10.0	10.0		mg/L		100	80 - 120
Chromium	0.200	0.198		mg/L		99	80 - 120
Cobalt	0.500	0.494		mg/L		99	80 - 120
Lead	0.100	0.104		mg/L		104	80 - 120
Molybdenum	1.00	0.951		mg/L		95	80 - 120
Selenium	0.100	0.100		mg/L		100	80 - 120
Thallium	0.100	0.105		mg/L		105	80 - 120

Lab Sample ID: LCS 500-540361/2-A

Matrix: Water

Analysis Batch: 541102

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 540361

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	1.00	0.992		mg/L		99	80 - 120

Lab Sample ID: MB 500-540624/1-A

Matrix: Water

Analysis Batch: 540865

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 540624

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0010		0.0010		mg/L		05/01/20 07:00	05/01/20 16:28	1
Barium	<0.0025		0.0025		mg/L		05/01/20 07:00	05/01/20 16:28	1
Boron	<0.050		0.050		mg/L		05/01/20 07:00	05/01/20 16:28	1
Cadmium	<0.00050		0.00050		mg/L		05/01/20 07:00	05/01/20 16:28	1
Calcium	<0.20		0.20		mg/L		05/01/20 07:00	05/01/20 16:28	1
Cobalt	<0.0010		0.0010		mg/L		05/01/20 07:00	05/01/20 16:28	1
Lead	<0.00050		0.00050		mg/L		05/01/20 07:00	05/01/20 16:28	1
Molybdenum	<0.0050		0.0050		mg/L		05/01/20 07:00	05/01/20 16:28	1
Selenium	<0.0025		0.0025		mg/L		05/01/20 07:00	05/01/20 16:28	1
Thallium	<0.0020		0.0020		mg/L		05/01/20 07:00	05/01/20 16:28	1

Lab Sample ID: LCS 500-540624/2-A

Matrix: Water

Analysis Batch: 540865

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 540624

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.100	0.0943		mg/L		94	80 - 120
Barium	0.500	0.505		mg/L		101	80 - 120
Boron	1.00	0.932		mg/L		93	80 - 120

Eurofins TestAmerica, Chicago

QC Sample Results

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

Job ID: 500-181249-1

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

Lab Sample ID: LCS 500-540624/2-A

Matrix: Water

Analysis Batch: 540865

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 540624

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	0.0500	0.0481		mg/L		96	80 - 120
Calcium	10.0	10.2		mg/L		102	80 - 120
Cobalt	0.500	0.484		mg/L		97	80 - 120
Lead	0.100	0.106		mg/L		106	80 - 120
Molybdenum	1.00	0.960		mg/L		96	80 - 120
Selenium	0.100	0.0980		mg/L		98	80 - 120
Thallium	0.100	0.102		mg/L		102	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-540885/12-A

Matrix: Water

Analysis Batch: 541085

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 540885

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/04/20 10:40	05/05/20 08:49	1

Lab Sample ID: LCS 500-540885/13-A

Matrix: Water

Analysis Batch: 541085

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 540885

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00200	0.00199		mg/L		99	80 - 120

Lab Sample ID: 500-181249-1 MS

Matrix: Water

Analysis Batch: 541085

Client Sample ID: MW-18

Prep Type: Total/NA

Prep Batch: 540885

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	<0.00020		0.00100	0.00113		mg/L		113	75 - 125

Lab Sample ID: 500-181249-1 MSD

Matrix: Water

Analysis Batch: 541085

Client Sample ID: MW-18

Prep Type: Total/NA

Prep Batch: 540885

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	<0.00020		0.00100	0.00113		mg/L		113	75 - 125	0	20

Lab Sample ID: 500-181249-1 DU

Matrix: Water

Analysis Batch: 541085

Client Sample ID: MW-18

Prep Type: Total/NA

Prep Batch: 540885

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

QC Sample Results

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

Job ID: 500-181249-1

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: MB 500-541074/12-A
Matrix: Water
Analysis Batch: 541287

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 541074

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/05/20 10:05	05/06/20 08:45	1

Lab Sample ID: LCS 500-541074/13-A
Matrix: Water
Analysis Batch: 541287

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 541074

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00200	0.00197		mg/L		98	80 - 120

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

Lab Sample ID: MB 500-540620/1
Matrix: Water
Analysis Batch: 540620

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10		mg/L			05/01/20 01:44	1

Lab Sample ID: LCS 500-540620/2
Matrix: Water
Analysis Batch: 540620

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: 500-181249-1 DU
Matrix: Water
Analysis Batch: 540620

Client Sample ID: MW-18
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	1000		1010		mg/L		0.6	5

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 500-540788/50
Matrix: Water
Analysis Batch: 540788

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<2.0		2.0		mg/L			05/02/20 12:42	1

Lab Sample ID: LCS 500-540788/51
Matrix: Water
Analysis Batch: 540788

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	52.5		mg/L		105	85 - 115

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QC Sample Results

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

Job ID: 500-181249-1

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

Lab Sample ID: MB 500-540918/12

Matrix: Water

Analysis Batch: 540918

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<2.0		2.0		mg/L			05/02/20 13:46	1

Lab Sample ID: LCS 500-540918/13

Matrix: Water

Analysis Batch: 540918

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	53.8		mg/L		108	85 - 115

Lab Sample ID: MB 500-541151/12

Matrix: Water

Analysis Batch: 541151

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<2.0		2.0		mg/L			05/05/20 19:23	1

Lab Sample ID: LCS 500-541151/13

Matrix: Water

Analysis Batch: 541151

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	51.6		mg/L		103	85 - 115

Lab Sample ID: MB 500-541164/4

Matrix: Water

Analysis Batch: 541164

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<2.0		2.0		mg/L			05/05/20 21:54	1

Lab Sample ID: LCS 500-541164/5

Matrix: Water

Analysis Batch: 541164

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	52.7		mg/L		105	85 - 115

Lab Sample ID: 500-181249-8 MS

Matrix: Water

Analysis Batch: 541164

Client Sample ID: MW-05

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	56		50.0	104		mg/L		94	75 - 125

Lab Sample ID: 500-181249-8 MSD

Matrix: Water

Analysis Batch: 541164

Client Sample ID: MW-05

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	56		50.0	105		mg/L		98	75 - 125	2	20

Eurofins TestAmerica, Chicago

QC Sample Results

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

Job ID: 500-181249-1

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: 500-181249-11 MS

Matrix: Water

Analysis Batch: 541164

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	34		50.0	85.8		mg/L		103	75 - 125

Lab Sample ID: 500-181249-11 MSD

Matrix: Water

Analysis Batch: 541164

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	34		50.0	83.7		mg/L		98	75 - 125	3	20

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-543368/3

Matrix: Water

Analysis Batch: 543368

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10		mg/L			05/19/20 08:29	1

Lab Sample ID: LCS 500-543368/4

Matrix: Water

Analysis Batch: 543368

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	11.0		mg/L		110	80 - 120

Lab Sample ID: 500-181249-1 MS

Matrix: Water

Analysis Batch: 543368

Client Sample ID: MW-18

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	0.69		5.00	6.14		mg/L		109	75 - 125

Lab Sample ID: 500-181249-1 MSD

Matrix: Water

Analysis Batch: 543368

Client Sample ID: MW-18

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	0.69		5.00	6.14		mg/L		109	75 - 125	0	20

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 400-487586/5

Matrix: Water

Analysis Batch: 487586

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			04/30/20 12:12	1

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QC Sample Results

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

Job ID: 500-181249-1

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

Lab Sample ID: LCS 400-487586/6

Matrix: Water

Analysis Batch: 487586

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	15.0	14.7		mg/L		98	90 - 110

Lab Sample ID: MRL 400-487586/3

Matrix: Water

Analysis Batch: 487586

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	5.00	<5.0		mg/L		97	50 - 150

Lab Sample ID: MB 400-487903/6

Matrix: Water

Analysis Batch: 487903

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<5.0		5.0		mg/L			05/04/20 11:20	1

Lab Sample ID: LCS 400-487903/7

Matrix: Water

Analysis Batch: 487903

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	15.0	15.0		mg/L		100	90 - 110

Lab Sample ID: MRL 400-487903/3

Matrix: Water

Analysis Batch: 487903

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	5.00	5.89		mg/L		118	50 - 150

Lab Sample ID: 500-181249-6 MS

Matrix: Water

Analysis Batch: 487903

Client Sample ID: MW-03

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	79		10.0	86.4	4	mg/L		74	77 - 128

Lab Sample ID: 500-181249-6 MSD

Matrix: Water

Analysis Batch: 487903

Client Sample ID: MW-03

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	79		10.0	83.2	4	mg/L		42	77 - 128	4	5

Lab Chronicle

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

Job ID: 500-181249-1

Client Sample ID: MW-18

Date Collected: 04/27/20 10:49

Date Received: 04/28/20 09:35

Lab Sample ID: 500-181249-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			540154	04/28/20 17:57	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	540335	04/29/20 10:20	JEF	TAL CHI
Total Recoverable	Prep	3005A			540154	04/28/20 17:57	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	540544	04/30/20 11:55	FXG	TAL CHI
Total Recoverable	Prep	3005A			540154	04/28/20 17:57	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	541102	05/05/20 11:12	FXG	TAL CHI
Total/NA	Prep	7470A			540885	05/04/20 10:40	MJG	TAL CHI
Total/NA	Analysis	7470A		1	541085	05/05/20 09:18	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	540620	05/01/20 01:49	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		5	541164	05/05/20 21:56	EAT	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	543368	05/19/20 08:38	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	487586	04/30/20 13:01	HES	TAL PEN

Client Sample ID: MW-17

Date Collected: 04/27/20 11:32

Date Received: 04/28/20 09:35

Lab Sample ID: 500-181249-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			540154	04/28/20 17:57	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	540335	04/29/20 10:24	JEF	TAL CHI
Total Recoverable	Prep	3005A			540154	04/28/20 17:57	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	540544	04/30/20 11:59	FXG	TAL CHI
Total Recoverable	Prep	3005A			540154	04/28/20 17:57	BDE	TAL CHI
Total Recoverable	Analysis	6020A		5	541102	05/05/20 11:16	FXG	TAL CHI
Total/NA	Prep	7470A			540885	05/04/20 10:40	MJG	TAL CHI
Total/NA	Analysis	7470A		1	541085	05/05/20 09:24	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	540620	05/01/20 01:54	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		5	541164	05/05/20 21:57	EAT	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	543368	05/19/20 08:58	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	487586	04/30/20 13:04	HES	TAL PEN

Client Sample ID: MW-19

Date Collected: 04/27/20 12:19

Date Received: 04/28/20 09:35

Lab Sample ID: 500-181249-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			540154	04/28/20 17:57	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	540335	04/29/20 10:29	JEF	TAL CHI
Total Recoverable	Prep	3005A			540154	04/28/20 17:57	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	540544	04/30/20 12:03	FXG	TAL CHI
Total Recoverable	Prep	3005A			540154	04/28/20 17:57	BDE	TAL CHI
Total Recoverable	Analysis	6020A		5	541102	05/05/20 11:20	FXG	TAL CHI
Total/NA	Prep	7470A			540885	05/04/20 10:40	MJG	TAL CHI
Total/NA	Analysis	7470A		1	541085	05/05/20 09:26	MJG	TAL CHI

Eurofins TestAmerica, Chicago

Lab Chronicle

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

Job ID: 500-181249-1

Client Sample ID: MW-19

Date Collected: 04/27/20 12:19

Date Received: 04/28/20 09:35

Lab Sample ID: 500-181249-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	540620	05/01/20 01:56	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		1	540918	05/02/20 14:05	EAT	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	543368	05/19/20 09:05	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		5	487586	04/30/20 13:04	HES	TAL PEN

Client Sample ID: MW-01

Date Collected: 04/28/20 08:32

Date Received: 04/29/20 11:30

Lab Sample ID: 500-181249-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			540361	04/29/20 17:08	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	540533	04/30/20 09:27	JEF	TAL CHI
Total Recoverable	Prep	3005A			540361	04/29/20 17:08	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	541048	05/04/20 19:19	FXG	TAL CHI
Total Recoverable	Prep	3005A			540361	04/29/20 17:08	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	541102	05/05/20 11:38	FXG	TAL CHI
Total/NA	Prep	7470A			540885	05/04/20 10:40	MJG	TAL CHI
Total/NA	Analysis	7470A		1	541085	05/05/20 09:32	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	540620	05/01/20 01:59	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		1	540918	05/02/20 14:05	EAT	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	543368	05/19/20 09:12	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		2	487903	05/04/20 11:53	HES	TAL PEN

Client Sample ID: MW-02

Date Collected: 04/28/20 09:56

Date Received: 04/29/20 11:30

Lab Sample ID: 500-181249-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			540361	04/29/20 17:08	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	541048	05/04/20 19:22	FXG	TAL CHI
Total Recoverable	Prep	3005A			540361	04/29/20 17:08	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	541102	05/05/20 11:49	FXG	TAL CHI
Total/NA	Analysis	SM 2540C		1	540620	05/01/20 02:02	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		1	540918	05/02/20 14:06	EAT	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	543368	05/19/20 09:19	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		2	487903	05/04/20 11:57	HES	TAL PEN

Client Sample ID: MW-03

Date Collected: 04/28/20 10:46

Date Received: 04/29/20 11:30

Lab Sample ID: 500-181249-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			540361	04/29/20 17:08	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	541048	05/04/20 19:26	FXG	TAL CHI

Eurofins TestAmerica, Chicago

Lab Chronicle

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

Job ID: 500-181249-1

Client Sample ID: MW-03

Date Collected: 04/28/20 10:46

Date Received: 04/29/20 11:30

Lab Sample ID: 500-181249-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			540361	04/29/20 17:08	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	541102	05/05/20 11:52	FXG	TAL CHI
Total/NA	Analysis	SM 2540C		1	540620	05/01/20 02:04	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		1	540788	05/02/20 13:03	EAT	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	543368	05/19/20 09:25	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		5	487903	05/04/20 11:57	HES	TAL PEN

Client Sample ID: MW-04

Date Collected: 04/28/20 11:43

Date Received: 04/29/20 11:30

Lab Sample ID: 500-181249-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			540361	04/29/20 17:08	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	541048	05/04/20 19:30	FXG	TAL CHI
Total Recoverable	Prep	3005A			540361	04/29/20 17:08	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	541102	05/05/20 11:56	FXG	TAL CHI
Total/NA	Analysis	SM 2540C		1	540620	05/01/20 02:07	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		1	541151	05/05/20 19:45	EAT	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	543368	05/19/20 09:46	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		5	487903	05/04/20 12:01	HES	TAL PEN

Client Sample ID: MW-05

Date Collected: 04/28/20 12:36

Date Received: 04/29/20 11:30

Lab Sample ID: 500-181249-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			540361	04/29/20 17:08	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	541048	05/04/20 19:34	FXG	TAL CHI
Total Recoverable	Prep	3005A			540361	04/29/20 17:08	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	541102	05/05/20 11:59	FXG	TAL CHI
Total/NA	Analysis	SM 2540C		1	540620	05/01/20 02:09	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		1	541164	05/05/20 21:58	EAT	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	543368	05/19/20 09:53	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		5	487903	05/04/20 12:01	HES	TAL PEN

Client Sample ID: MW-10

Date Collected: 04/28/20 13:39

Date Received: 04/29/20 11:30

Lab Sample ID: 500-181249-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			540361	04/29/20 17:08	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	541048	05/04/20 19:37	FXG	TAL CHI
Total Recoverable	Prep	3005A			540361	04/29/20 17:08	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	541102	05/05/20 12:03	FXG	TAL CHI

Eurofins TestAmerica, Chicago

Lab Chronicle

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

Job ID: 500-181249-1

Client Sample ID: MW-10

Lab Sample ID: 500-181249-9

Date Collected: 04/28/20 13:39

Matrix: Water

Date Received: 04/29/20 11:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	540620	05/01/20 02:12	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		1	541164	05/05/20 22:01	EAT	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	543368	05/19/20 09:59	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		5	487903	05/04/20 12:01	HES	TAL PEN

Client Sample ID: MW-08

Lab Sample ID: 500-181249-10

Date Collected: 04/28/20 14:38

Matrix: Water

Date Received: 04/29/20 11:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			540361	04/29/20 17:08	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	540533	04/30/20 09:31	JEF	TAL CHI
Total Recoverable	Prep	3005A			540361	04/29/20 17:08	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	541048	05/04/20 19:41	FXG	TAL CHI
Total Recoverable	Prep	3005A			540361	04/29/20 17:08	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	541102	05/05/20 12:07	FXG	TAL CHI
Total/NA	Prep	7470A			541074	05/05/20 10:05	MJG	TAL CHI
Total/NA	Analysis	7470A		1	541287	05/06/20 09:12	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	540620	05/01/20 02:15	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	541164	05/06/20 00:16	EAT	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	543368	05/19/20 10:06	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		2	487903	05/04/20 12:01	HES	TAL PEN

Client Sample ID: MW-09

Lab Sample ID: 500-181249-11

Date Collected: 04/29/20 09:43

Matrix: Water

Date Received: 04/30/20 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			540624	05/01/20 07:00	LMN	TAL CHI
Total Recoverable	Analysis	6010C		1	540772	05/01/20 19:39	EEN	TAL CHI
Total Recoverable	Prep	3005A			540624	05/01/20 07:00	LMN	TAL CHI
Total Recoverable	Analysis	6020A		1	540865	05/01/20 16:36	FXG	TAL CHI
Total/NA	Prep	7470A			541074	05/05/20 10:05	MJG	TAL CHI
Total/NA	Analysis	7470A		1	541287	05/06/20 09:18	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	540620	05/01/20 02:17	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		1	541164	05/06/20 00:16	EAT	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	543368	05/19/20 10:13	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		5	487903	05/04/20 12:06	HES	TAL PEN

Lab Chronicle

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

Job ID: 500-181249-1

Client Sample ID: MW-11

Date Collected: 04/29/20 08:41

Date Received: 04/30/20 09:40

Lab Sample ID: 500-181249-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			540624	05/01/20 07:00	LMN	TAL CHI
Total Recoverable	Analysis	6010C		1	540772	05/01/20 19:43	EEN	TAL CHI
Total Recoverable	Prep	3005A			540624	05/01/20 07:00	LMN	TAL CHI
Total Recoverable	Analysis	6020A		1	540865	05/01/20 16:40	FXG	TAL CHI
Total/NA	Prep	7470A			541074	05/05/20 10:05	MJG	TAL CHI
Total/NA	Analysis	7470A		1	541287	05/06/20 09:20	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	540620	05/01/20 02:20	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	541164	05/06/20 00:18	EAT	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	543368	05/19/20 10:20	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	487903	05/04/20 12:06	HES	TAL PEN

Client Sample ID: MW-12

Date Collected: 04/29/20 10:58

Date Received: 04/30/20 09:40

Lab Sample ID: 500-181249-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			540624	05/01/20 07:00	LMN	TAL CHI
Total Recoverable	Analysis	6010C		1	540772	05/01/20 19:47	EEN	TAL CHI
Total Recoverable	Prep	3005A			540624	05/01/20 07:00	LMN	TAL CHI
Total Recoverable	Analysis	6020A		1	540865	05/01/20 16:43	FXG	TAL CHI
Total/NA	Prep	7470A			541074	05/05/20 10:05	MJG	TAL CHI
Total/NA	Analysis	7470A		1	541287	05/06/20 09:21	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	540620	05/01/20 02:22	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	541164	05/06/20 00:18	EAT	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	543368	05/19/20 10:27	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	487903	05/04/20 12:23	HES	TAL PEN

Client Sample ID: MW-15

Date Collected: 04/29/20 12:16

Date Received: 04/30/20 09:40

Lab Sample ID: 500-181249-14

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			540624	05/01/20 07:00	LMN	TAL CHI
Total Recoverable	Analysis	6010C		1	540772	05/01/20 20:00	EEN	TAL CHI
Total Recoverable	Prep	3005A			540624	05/01/20 07:00	LMN	TAL CHI
Total Recoverable	Analysis	6020A		1	540865	05/01/20 16:47	FXG	TAL CHI
Total/NA	Prep	7470A			541074	05/05/20 10:05	MJG	TAL CHI
Total/NA	Analysis	7470A		1	541287	05/06/20 09:23	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	540620	05/01/20 02:25	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	541164	05/06/20 00:19	EAT	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	543368	05/19/20 10:33	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	487903	05/04/20 12:23	HES	TAL PEN

Eurofins TestAmerica, Chicago

Lab Chronicle

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

Job ID: 500-181249-1

Client Sample ID: Duplicate

Lab Sample ID: 500-181249-15

Date Collected: 04/29/20 00:00

Matrix: Water

Date Received: 04/30/20 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			540624	05/01/20 07:00	LMN	TAL CHI
Total Recoverable	Analysis	6010C		1	540772	05/01/20 20:04	EEN	TAL CHI
Total Recoverable	Prep	3005A			540624	05/01/20 07:00	LMN	TAL CHI
Total Recoverable	Analysis	6020A		1	540865	05/01/20 16:51	FXG	TAL CHI
Total/NA	Prep	7470A			541074	05/05/20 10:05	MJG	TAL CHI
Total/NA	Analysis	7470A		1	541287	05/06/20 09:24	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	540620	05/01/20 02:27	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		5	541164	05/06/20 00:19	EAT	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	543368	05/19/20 10:38	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	487903	05/04/20 12:08	HES	TAL PEN

Laboratory References:

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

TAL PEN = Eurofins TestAmerica, Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Accreditation/Certification Summary

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

Job ID: 500-181249-1

Laboratory: Eurofins TestAmerica, Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-20 *

Laboratory: Eurofins TestAmerica, 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	07-01-20
ANAB	ISO/IEC 17025	L2471	02-23-23
Arizona	State	AZ0710	01-13-21
Arkansas DEQ	State	88-0689	09-01-20
California	State	2510	07-01-20
Florida	NELAP	E81010	06-30-20
Georgia	State	E81010(FL)	06-30-20
Illinois	NELAP	004586	10-09-20
Iowa	State	367	08-01-20
Kansas	NELAP	E-10253	08-16-20
Kentucky (UST)	State	53	06-30-20
Kentucky (WW)	State	KY98030	12-31-20
Louisiana	NELAP	30976	06-30-20
Louisiana (DW)	State	LA017	12-31-20
Maryland	State	233	09-30-20
Massachusetts	State	M-FL094	06-30-20
Michigan	State	9912	05-06-20
Minnesota	NELAP	012-999-481	12-31-20
New Jersey	NELAP	FL006	06-30-20
New York	NELAP	12115	04-01-21
North Carolina (WW/SW)	State	314	12-31-20
Oklahoma	State	9810-186	08-31-20
Pennsylvania	NELAP	68-00467	01-31-21
Rhode Island	State	LAO00307	12-30-20
South Carolina	State	96026002	06-30-20
Tennessee	State	TN02907	06-30-20
Texas	NELAP	T104704286	09-30-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	US Federal Programs	P330-18-00148	05-17-21
Virginia	NELAP	460166	06-14-20
Washington	State	C915	05-15-20
West Virginia DEP	State	136	06-30-20

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins TestAmerica, Chicago

TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 61
Phone: 708.534.5200 Fax: 708.534.5201



500-181249 COC

Report To _____ (optional)	Bill To _____ (optional)
Contact: _____	Contact: _____
Company: _____	Company: _____
Address: _____	Address: _____
Address: _____	Address: _____
Phone: _____	Phone: _____
Fax: _____	Fax: _____
E-Mail: _____	PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-181249

Chain of Custody Number: _____

Page 1 of 1

Temperature °C of Cooler: 0.6-7.6

Client		Client Project #		Preservative		Parameter		Matrix		Comments	
Project Name		Lab Project #		Date		Time		# of Containers		Matrix	
KPRG		12313.1		3		3		8		8	
Powerton CCR		50011612		9030, 904.0		6010, 6020A, 770A		Total Cl, F, TDS		Sulfate	
Project Location/State		Lab PM		Date		Time		# of Containers		Matrix	
Pekin, IL		Diana Mockler		4/27		1049		6		W	
Sampler		Lab PM		Date		Time		# of Containers		Matrix	
M. Mitchell Dolan		Diana Mockler		4/27		1132		6		W	
M. Mitchell Dolan		Diana Mockler		4/27		1219		6		W	

Turnaround Time Required (Business Days)

___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days ___ Other

Sample Disposal

☐ Return to Client

☐ Disposal by Lab

☐ Archive for ___ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time	Lab Courier
Mitchel Dolan	KPRG	4/27/20	1630	FEDEX		4/27/20	1630	
Relinquished By	Company	Date	Time	Received By	Company	Date	Time	Shipped
				Shirley Scott	TA-CR	4/28/20	0935	FedEx
Relinquished By	Company	Date	Time	Received By	Company	Date	Time	Hand Delivered

Matrix Key
 WW - Wastewater
 W - Water
 S - Soil
 SL - Sludge
 MS - Miscellaneous
 OL - Oil
 A - Air
 SE - Sediment
 SO - Soil
 L - Leachate
 WI - Wipe
 DW - Drinking Water
 O - Other

Client Comments:

Lab Comments:

 eurofins laboratory solutions



500-181249 COC

Client Information		Sampler: Mitchell Dolan	Lab PM: Mockler, Diana J	Car									
Client Contact: Mitchel Dolan		Phone: 262-622-1143	E-Mail: diana.mockler@testamericainc.com	COC No: 500-80728-36997.1 Page: Page 1 of 1									
Company: KPRG and Associates, Inc.		Analysis Requested											
Address: 14665 West Lisbon Road, Suite 1A		Due Date Requested:											
City: Brookfield		TAT Requested (days):											
State, Zip: WI, 53005													
Phone: 309-477-5240(Tel)		PO #: 4501908159											
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, BT=tissue, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0, 904.0	6010C, 6020A, 7470A	2540C, 4500_F_C, SM4500_CI_E, SM4500_SO4_E	SM4500_SO4_E - Local Method	Total Number of containers	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:
				Preservation Code:		X	X	D	D	N	N		
MW-01	4/28/20	0832	G	Water		X	X	X	X				
MW-02		0956		Water									
MW-03		1046		Water									
MW-04		1143		Water									
MW-05		1236		Water									
MW-10		1339		Water									
				Water									
Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)											
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological		☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months											
Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/QC Requirements: Powerton FAB App IV Parameters											
Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:									
Relinquished by: [Signature]	Date/Time: 4/28/20 / 1600	Company: KPRG	Received by: FEDEX	Date/Time: 4/28/20 / 1600	Company:								
Relinquished by:	Date/Time:	Company:	Received by: [Signature]	Date/Time: 4/29/20 1130	Company: TH-CRT								
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time: 1130	Company:								
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 5.8 33											

Report To _____

Contact: _____

Company: _____

Address: _____

Address: _____

Phone: _____

Fax: _____

E-Mail: _____

Bill To _____
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 PO#/Reference# _____

Lab Job #: 500-181249

Page 1 of 1

Temperature °C of Cooler: _____

Preservative Key

1. HCL, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. NaHSO4
7. Cool to 4°
8. None
9. Other

☐ 1 Day ☐ 2 Days ☐ 5 Days ☐ 7 Days ☐ 10 Days ☐ 15 Days ☐ Other _____
 Requested Due Date

Return to Client

☐ Disposal by Lab

Archive for _____ Months

(A fee may be assessed if samples are retained longer than 1 month)

Lab Courier	
Shipped	FXG
Hand Delivered	

Client Comments

Powerton ABB/ASB App. IV Parameters.

*One set of CCR samples collected for MW-01 well falls under both ABB/ASB + FAIB

Lab Comments:

eurofins | Experience in using Testosterone

Ver: 01.16/2019 5/19/2020

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

SHIP DATE: 27APR20
ACTWGT: 41.05 LB
CAD: 6994780/SSFE2102
DIMS: 24x13x14 IN
BILL THIRD PARTY

TO **EUROFINS TEST AMERICA**
EUROFINS TEST AMERICA
2417 BOND ST

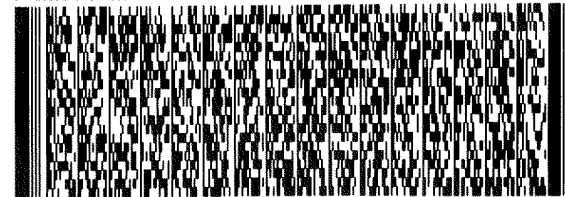


UNIVERSITY PARK IL 60484 500-181249 Wayt

(000) 000-0000
INVT
PO:

REF:

DEPT:



FedEx
Express



J20111004202102

2 of 3

MPS# 3922 9282 8776
0263

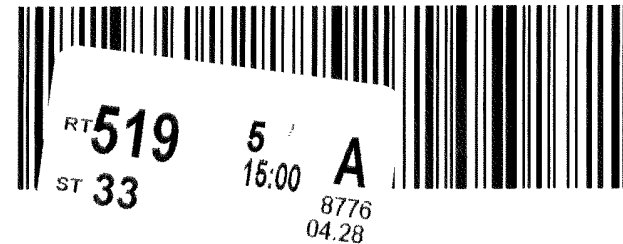
Mstr# 3922 9282 8765

0201

TUE - 28 APR 3:00P
STANDARD OVERNIGHT

XH JOTA

60484
IL-US ORD



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

WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 29APR20
ACTWGT: 47.45 LB
CAD: 6994780/SSFEZ102
DIMS: 25x14x13 IN

BILL THIRD PARTY

Part # 15529 JED

TO EUROFINS TEST AMERICA
EUROFINS TEST AMERICA
2417 BOND ST



UNIVERSITY PARK IL 60484

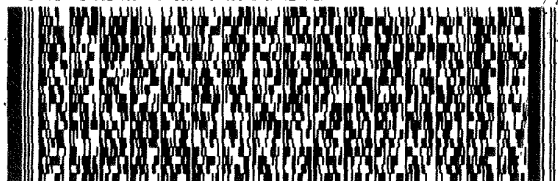
500-181249 Wayt

(000) 000-0000

REF:

INV:

DEPT:



FedEx
Express



#201120042301NY

1 of 4

TRK# 3923 6795 1735

MASTER

XH JOTA

THU - 30 APR 3:00P
STANDARD OVERNIGHT

AHS
60484

IL-US ORD



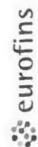
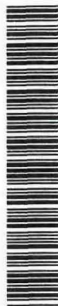
48gt

Chain of Custody Record



Client Information (Sub Contract Lab)		Lab PM:		Carrier Tracking No(s):		COC No:					
Client Contact: Shipping/Receiving		Mockler, Diana J				500-134621.1					
Company: TestAmerica Laboratories, Inc.		E-Mail: diana.mockler@testamerica.com		State of Origin: Illinois		Page: Page 1 of 1					
Address: 13715 Rider Trail North,		Accreditations Required (See note): NELAP - Illinois		Job #:		500-181249-1					
City: Earth City		Due Date Requested: 5/8/2020		Analysis Requested		Preservation Codes:					
State, Zip: MO, 63045		TAT Requested (days):				A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Anchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:					
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		PO #:				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 Z - other (specify)					
Email:		WO #:									
Project Name: Powertron CCR		Project #: 50011612									
Site: MWG - Powerton		SSOW#:									
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastewater, BT=biomass, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	90.3/PreSep_21 Standard Target List	90.4/PreSep_0 Standard Target List	Ra226Ra228_GFPc	Total Number of containers	Special Instructions/Note:
MW-01 (500-181249-4)	4/28/20	08:32 Central		Water	X	X	X	X		3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMs
MW-02 (500-181249-5)	4/28/20	09:56 Central		Water	X	X	X	X		3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMs
MW-03 (500-181249-6)	4/28/20	10:46 Central		Water	X	X	X	X		3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMs
MW-04 (500-181249-7)	4/28/20	11:43 Central		Water	X	X	X	X		3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMs
MW-05 (500-181249-8)	4/28/20	12:36 Central		Water	X	X	X	X		3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMs
MW-10 (500-181249-9)	4/28/20	13:39 Central		Water	X	X	X	X		3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMs
MW-08 (500-181249-10)	4/28/20	14:38 Central		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 TestAmerica 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 TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.											
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: _____ Date/Time: _____ Company: _____ Relinquished by: _____ Date/Time: _____ Company: _____ Relinquished by: _____ Date/Time: _____ Company: _____ Custody Seals Intact: _____ Custody Seal No.: _____ Δ Yes Δ 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:	
Client Contact:		Mockler, Diana J		500-134616.1					
Shipping/Receiving		E-Mail:		diana.mockler@testamericainc.com		State of Origin:		Page:	
Company:		TestAmerica Laboratories, Inc.		NELAP - Illinois		Illinois		Page 1 of 1	
Address:		3355 McLemore Drive,		Due Date Requested:		Job #:		500-181249-1	
City:		Pensacola		5/8/2020		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:	
State, Zip:		FL, 32514		TAT Requested (days):		Analysis Requested		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 Z - other (specify)	
Phone:		850-474-1001(Tel) 850-478-2671(Fax)		PO #:					
Email:				WO #:					
Project Name:		Powerton CCR		Project #:					
Site:		MWG - Powerton		SSOW#:					
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Blank, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SM4500_S04_E	Total Number of Containers	Special Instructions/Note:
MW-01 (500-181249-4)	4/28/20	08:32 Central	Water	Water	X	X		1	
MW-02 (500-181249-5)	4/28/20	09:56 Central	Water	Water	X	X		1	
MW-03 (500-181249-6)	4/28/20	10:46 Central	Water	Water	X	X		1	
MW-04 (500-181249-7)	4/28/20	11:43 Central	Water	Water	X	X		1	
MW-05 (500-181249-8)	4/28/20	12:36 Central	Water	Water	X	X		1	
MW-10 (500-181249-9)	4/28/20	13:39 Central	Water	Water	X	X		1	
MW-08 (500-181249-10)	4/28/20	14:38 Central	Water	Water	X	X		1	
Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica 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 TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.									
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:									
Relinquished by: Stephanie Hernandez Date/Time: 4/29/20 1600 Company: TA-CH									
Relinquished by: Date/Time: Company:									
Relinquished by: Date/Time: Company:									
Custody Seal No.: Custody Seal Intact: Δ Yes Δ No Cooler Temperature(s) °C and Other Remarks: 4:30-20 9:27 0.02 127									

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-181249-1

Login Number: 181249

List Source: Eurofins TestAmerica, Chicago

List Number: 1

Creator: Scott, Sherri L

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	1.6,5.8,3.3,2.6,2.4,2.85
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	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: 500-181249-1

Login Number: 181249

List Number: 2

Creator: Gore, Beija K

List Source: Eurofins TestAmerica, Pensacola

List Creation: 04/29/20 02:02 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	1007369
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	1.0 °C IR 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 $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Client: KPRG and Associates, Inc.

Job Number: 500-181249-1

Login Number: 181249

List Number: 6

Creator: Conrady, Hank W

List Source: Eurofins TestAmerica, Pensacola

List Creation: 04/30/20 05:18 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.0°C IR-7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-181249-1

Login Number: 181249

List Number: 7

Creator: Avery, Kathy R

List Source: Eurofins TestAmerica, Pensacola

List Creation: 05/01/20 11:07 AM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.0°IR 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 $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

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

Laboratory Job ID: 500-181249-2
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:
6/2/2020 3:32:37 PM

Diana Mockler, Project Manager I
(219)252-7570
diana.mockler@testamericainc.com

LINKS

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results through
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www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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.

Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Method Summary	5
Sample Summary	6
Client Sample Results	7
Definitions	22
QC Association	23
QC Sample Results	24
Chronicle	27
Certification Summary	31
Chain of Custody	32
Receipt Checklists	42
Tracer Carrier Summary	47



Case Narrative

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

Job ID: 500-181249-2

Job ID: 500-181249-2

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative 500-181249-2

Comments

No additional comments.

Receipt

The samples were received on 4/28/2020 9:35 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 6 coolers at receipt time were 1.6° C, 2.4° C, 2.6° C, 2.8° C, 3.3° C and 5.8° C.

RAD

Methods 903.0, 9315: Radium-226 Prep Batch 160-470017

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-15 (500-181249-14), (LCS 160-470017/1-A), (MB 160-470017/22-A), (160-37998-J-1-A) and (160-37998-J-1-B DU)

Methods 903.0, 9315: Radium-226 Prep Batch 160-469993

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

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

MW-18 (500-181249-1), MW-17 (500-181249-2), MW-19 (500-181249-3), MW-01 (500-181249-4), MW-02 (500-181249-5), MW-03 (500-181249-6), MW-04 (500-181249-7), MW-05 (500-181249-8), MW-10 (500-181249-9), MW-08 (500-181249-10), MW-09 (500-181249-11), MW-11 (500-181249-12), MW-12 (500-181249-13), Duplicate (500-181249-15), (LCS 160-469993/1-A), (MB 160-469993/23-A) and (500-181249-D-1-B DU)

Methods 904.0, 9320: Ra-228 Prep Batch 160-470021

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-15 (500-181249-14), (LCS 160-470021/1-A), (MB 160-470021/22-A), (160-37998-J-1-C) and (160-37998-J-1-D DU)

Methods 904.0, 9320: Radium-228 Prep Batch 160-469995

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

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

MW-18 (500-181249-1), MW-17 (500-181249-2), MW-19 (500-181249-3), MW-01 (500-181249-4), MW-02 (500-181249-5), MW-03 (500-181249-6), MW-04 (500-181249-7), MW-05 (500-181249-8), MW-10 (500-181249-9), MW-08 (500-181249-10), MW-09 (500-181249-11), MW-11 (500-181249-12), MW-12 (500-181249-13), Duplicate (500-181249-15), (LCS 160-469995/1-A), (MB 160-469995/23-A) and (500-181249-D-1-D DU)

Method PrecSep_0: Radium 228 Prep Batch 160-469995:

The following samples were prepared at a reduced aliquot due to discoloration and cloudy appearance: MW-10 (500-181249-9). Samples 500-181249-9 and 160-37961-1 have a yellow discoloration and cloudy appearance. Sample 160-37961-2 has a cloudy appearance.

Method PrecSep-21: Radium 226 Prep Batch 160-469993:

The following samples were prepared at a reduced aliquot due to discoloration and cloudy appearance: MW-10 (500-181249-9). Samples

Case Narrative

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

Job ID: 500-181249-2

Job ID: 500-181249-2 (Continued)

Laboratory: Eurofins TestAmerica, Chicago (Continued)

500-181249-9 and 160-37961-1 have a yellow discoloration and cloudy appearance. Sample 160-37961-2 has a cloudy appearance.

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

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Method Summary

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

Job ID: 500-181249-2

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 TestAmerica, 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: 500-181249-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-181249-1	MW-18	Water	04/27/20 10:49	04/28/20 09:35	
500-181249-2	MW-17	Water	04/27/20 11:32	04/28/20 09:35	
500-181249-3	MW-19	Water	04/27/20 12:19	04/28/20 09:35	
500-181249-4	MW-01	Water	04/28/20 08:32	04/29/20 11:30	
500-181249-5	MW-02	Water	04/28/20 09:56	04/29/20 11:30	
500-181249-6	MW-03	Water	04/28/20 10:46	04/29/20 11:30	
500-181249-7	MW-04	Water	04/28/20 11:43	04/29/20 11:30	
500-181249-8	MW-05	Water	04/28/20 12:36	04/29/20 11:30	
500-181249-9	MW-10	Water	04/28/20 13:39	04/29/20 11:30	
500-181249-10	MW-08	Water	04/28/20 14:38	04/29/20 11:30	
500-181249-11	MW-09	Water	04/29/20 09:43	04/30/20 09:40	
500-181249-12	MW-11	Water	04/29/20 08:41	04/30/20 09:40	
500-181249-13	MW-12	Water	04/29/20 10:58	04/30/20 09:40	
500-181249-14	MW-15	Water	04/29/20 12:16	04/30/20 09:40	
500-181249-15	Duplicate	Water	04/29/20 00:00	04/30/20 09:40	

Client Sample Results

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

Job ID: 500-181249-2

Client Sample ID: MW-18

Date Collected: 04/27/20 10:49

Date Received: 04/28/20 09:35

Lab Sample ID: 500-181249-1

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	0.179		0.113	0.115	1.00	0.158	pCi/L	05/11/20 10:44	06/02/20 06:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.0		40 - 110					05/11/20 10:44	06/02/20 06:04	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	0.157	U	0.310	0.310	1.00	0.526	pCi/L	05/11/20 11:12	05/27/20 10:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.0		40 - 110					05/11/20 11:12	05/27/20 10:59	1
Y Carrier	84.9		40 - 110					05/11/20 11:12	05/27/20 10:59	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	0.336	U	0.330	0.331	5.00	0.526	pCi/L		06/02/20 12:48	1

Client Sample Results

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

Job ID: 500-181249-2

Client Sample ID: MW-17

Lab Sample ID: 500-181249-2

Date Collected: 04/27/20 11:32

Matrix: Water

Date Received: 04/28/20 09:35

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.155		0.0862	0.0873	1.00	0.101	pCi/L	05/11/20 10:44	06/02/20 06:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.8		40 - 110					05/11/20 10:44	06/02/20 06:05	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	-0.208	U	0.265	0.266	1.00	0.498	pCi/L	05/11/20 11:12	05/27/20 11:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.8		40 - 110					05/11/20 11:12	05/27/20 11:00	1
Y Carrier	90.1		40 - 110					05/11/20 11:12	05/27/20 11:00	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	-0.0538	U	0.279	0.280	5.00	0.498	pCi/L		06/02/20 12:48	1

Client Sample Results

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

Job ID: 500-181249-2

Client Sample ID: MW-19

Date Collected: 04/27/20 12:19

Date Received: 04/28/20 09:35

Lab Sample ID: 500-181249-3

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	0.146		0.0847	0.0857	1.00	0.0995	pCi/L	05/11/20 10:44	06/02/20 06:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.7		40 - 110					05/11/20 10:44	06/02/20 06:05	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	0.484		0.292	0.296	1.00	0.446	pCi/L	05/11/20 11:12	05/27/20 11:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.7		40 - 110					05/11/20 11:12	05/27/20 11:00	1
Y Carrier	88.6		40 - 110					05/11/20 11:12	05/27/20 11:00	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	0.630		0.304	0.308	5.00	0.446	pCi/L		06/02/20 12:48	1

Client Sample Results

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

Job ID: 500-181249-2

Client Sample ID: MW-01

Lab Sample ID: 500-181249-4

Date Collected: 04/28/20 08:32

Matrix: Water

Date Received: 04/29/20 11:30

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.114		0.0768	0.0775	1.00	0.0939	pCi/L	05/11/20 10:44	06/02/20 06:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.4		40 - 110					05/11/20 10:44	06/02/20 06:05	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	0.514		0.304	0.308	1.00	0.462	pCi/L	05/11/20 11:12	05/27/20 11:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.4		40 - 110					05/11/20 11:12	05/27/20 11:00	1
Y Carrier	87.1		40 - 110					05/11/20 11:12	05/27/20 11:00	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		0.314	0.318	5.00	0.462	pCi/L		06/02/20 12:48	1

Client Sample Results

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

Job ID: 500-181249-2

Client Sample ID: MW-02

Date Collected: 04/28/20 09:56

Date Received: 04/29/20 11:30

Lab Sample ID: 500-181249-5

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	0.0240	U	0.0562	0.0563	1.00	0.107	pCi/L	05/11/20 10:44	06/02/20 06:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	75.6		40 - 110					05/11/20 10:44	06/02/20 06:05	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	0.0440	U	0.308	0.308	1.00	0.540	pCi/L	05/11/20 11:12	05/27/20 11:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	75.6		40 - 110					05/11/20 11:12	05/27/20 11:00	1
Y Carrier	87.9		40 - 110					05/11/20 11:12	05/27/20 11:00	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	0.0680	U	0.313	0.313	5.00	0.540	pCi/L		06/02/20 12:48	1

Client Sample Results

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

Job ID: 500-181249-2

Client Sample ID: MW-03

Date Collected: 04/28/20 10:46

Date Received: 04/29/20 11:30

Lab Sample ID: 500-181249-6

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	-0.0127	U	0.0385	0.0385	1.00	0.0996	pCi/L	05/11/20 10:44	06/02/20 06:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.3		40 - 110					05/11/20 10:44	06/02/20 06:05	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	0.201	U	0.297	0.298	1.00	0.498	pCi/L	05/11/20 11:12	05/27/20 11:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.3		40 - 110					05/11/20 11:12	05/27/20 11:00	1
Y Carrier	90.1		40 - 110					05/11/20 11:12	05/27/20 11:00	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	0.189	U	0.299	0.300	5.00	0.498	pCi/L		06/02/20 12:48	1

Client Sample Results

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

Job ID: 500-181249-2

Client Sample ID: MW-04

Date Collected: 04/28/20 11:43

Date Received: 04/29/20 11:30

Lab Sample ID: 500-181249-7

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	0.0695	U	0.0692	0.0695	1.00	0.105	pCi/L	05/11/20 10:44	06/02/20 06:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.3		40 - 110					05/11/20 10:44	06/02/20 06:05	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	0.145	U	0.274	0.274	1.00	0.465	pCi/L	05/11/20 11:12	05/27/20 11:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.3		40 - 110					05/11/20 11:12	05/27/20 11:00	1
Y Carrier	90.8		40 - 110					05/11/20 11:12	05/27/20 11:00	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	0.215	U	0.283	0.283	5.00	0.465	pCi/L		06/02/20 12:48	1

Client Sample Results

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

Job ID: 500-181249-2

Client Sample ID: MW-05

Date Collected: 04/28/20 12:36

Date Received: 04/29/20 11:30

Lab Sample ID: 500-181249-8

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	0.105	U	0.0812	0.0817	1.00	0.113	pCi/L	05/11/20 10:44	06/02/20 06:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.1		40 - 110					05/11/20 10:44	06/02/20 06:06	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	0.402	U	0.297	0.300	1.00	0.466	pCi/L	05/11/20 11:12	05/27/20 11:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.1		40 - 110					05/11/20 11:12	05/27/20 11:00	1
Y Carrier	86.4		40 - 110					05/11/20 11:12	05/27/20 11:00	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	0.508		0.308	0.311	5.00	0.466	pCi/L		06/02/20 12:48	1

Client Sample Results

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

Job ID: 500-181249-2

Client Sample ID: MW-10

Lab Sample ID: 500-181249-9

Date Collected: 04/28/20 13:39

Matrix: Water

Date Received: 04/29/20 11:30

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.223		0.126	0.128	1.00	0.164	pCi/L	05/11/20 10:44	06/02/20 06:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.0		40 - 110					05/11/20 10:44	06/02/20 06:06	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	0.416	U	0.348	0.350	1.00	0.557	pCi/L	05/11/20 11:12	05/27/20 11:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.0		40 - 110					05/11/20 11:12	05/27/20 11:00	1
Y Carrier	88.6		40 - 110					05/11/20 11:12	05/27/20 11:00	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	0.639		0.370	0.373	5.00	0.557	pCi/L		06/02/20 12:48	1

Client Sample Results

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

Job ID: 500-181249-2

Client Sample ID: MW-08

Date Collected: 04/28/20 14:38

Date Received: 04/29/20 11:30

Lab Sample ID: 500-181249-10

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	0.0660	U	0.0739	0.0742	1.00	0.118	pCi/L	05/11/20 10:44	06/02/20 06:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.0		40 - 110					05/11/20 10:44	06/02/20 06:06	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	0.0805	U	0.259	0.259	1.00	0.450	pCi/L	05/11/20 11:12	05/27/20 11:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.0		40 - 110					05/11/20 11:12	05/27/20 11:00	1
Y Carrier	91.2		40 - 110					05/11/20 11:12	05/27/20 11:00	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	0.147	U	0.269	0.269	5.00	0.450	pCi/L		06/02/20 12:48	1

Client Sample Results

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

Job ID: 500-181249-2

Client Sample ID: MW-09

Date Collected: 04/29/20 09:43

Date Received: 04/30/20 09:40

Lab Sample ID: 500-181249-11

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	0.0472	U	0.0631	0.0632	1.00	0.105	pCi/L	05/11/20 10:44	06/02/20 08:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	70.2		40 - 110					05/11/20 10:44	06/02/20 08:10	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	0.267	U	0.415	0.416	1.00	0.698	pCi/L	05/11/20 11:12	05/27/20 11:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	70.2		40 - 110					05/11/20 11:12	05/27/20 11:00	1
Y Carrier	65.8		40 - 110					05/11/20 11:12	05/27/20 11:00	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	0.314	U	0.420	0.421	5.00	0.698	pCi/L		06/02/20 12:27	1

Client Sample Results

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

Job ID: 500-181249-2

Client Sample ID: MW-11

Lab Sample ID: 500-181249-12

Date Collected: 04/29/20 08:41

Matrix: Water

Date Received: 04/30/20 09:40

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		0.104	0.106	1.00	0.0964	pCi/L	05/11/20 10:44	06/02/20 08:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.7		40 - 110					05/11/20 10:44	06/02/20 08:10	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	0.218	U	0.266	0.267	1.00	0.440	pCi/L	05/11/20 11:12	05/27/20 11:01	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.7		40 - 110					05/11/20 11:12	05/27/20 11:01	1
Y Carrier	89.7		40 - 110					05/11/20 11:12	05/27/20 11:01	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	0.470		0.286	0.287	5.00	0.440	pCi/L		06/02/20 12:27	1

Client Sample Results

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

Job ID: 500-181249-2

Client Sample ID: MW-12

Date Collected: 04/29/20 10:58

Date Received: 04/30/20 09:40

Lab Sample ID: 500-181249-13

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	0.0714	U	0.0906	0.0909	1.00	0.151	pCi/L	05/11/20 10:44	06/02/20 08:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.1		40 - 110					05/11/20 10:44	06/02/20 08:11	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	0.506		0.285	0.289	1.00	0.429	pCi/L	05/11/20 11:12	05/27/20 11:01	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.1		40 - 110					05/11/20 11:12	05/27/20 11:01	1
Y Carrier	89.0		40 - 110					05/11/20 11:12	05/27/20 11:01	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	0.578		0.299	0.303	5.00	0.429	pCi/L		06/02/20 12:27	1

Client Sample Results

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

Job ID: 500-181249-2

Client Sample ID: MW-15

Date Collected: 04/29/20 12:16

Date Received: 04/30/20 09:40

Lab Sample ID: 500-181249-14

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	0.183		0.0787	0.0804	1.00	0.0730	pCi/L	05/11/20 14:42	06/02/20 04:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.5		40 - 110					05/11/20 14:42	06/02/20 04:06	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	0.156	U	0.261	0.261	1.00	0.441	pCi/L	05/11/20 15:09	05/21/20 12:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.5		40 - 110					05/11/20 15:09	05/21/20 12:21	1
Y Carrier	92.0		40 - 110					05/11/20 15:09	05/21/20 12:21	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	0.339	U	0.273	0.273	5.00	0.441	pCi/L		06/02/20 12:27	1

Client Sample Results

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

Job ID: 500-181249-2

Client Sample ID: Duplicate

Lab Sample ID: 500-181249-15

Date Collected: 04/29/20 00:00

Matrix: Water

Date Received: 04/30/20 09:40

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.124		0.0880	0.0887	1.00	0.120	pCi/L	05/11/20 10:44	06/02/20 08:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.3		40 - 110					05/11/20 10:44	06/02/20 08:11	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	0.193	U	0.304	0.304	1.00	0.510	pCi/L	05/11/20 11:12	05/27/20 11:01	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.3		40 - 110					05/11/20 11:12	05/27/20 11:01	1
Y Carrier	87.1		40 - 110					05/11/20 11:12	05/27/20 11:01	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	0.317	U	0.316	0.317	5.00	0.510	pCi/L		06/02/20 12:28	1

Definitions/Glossary

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

Job ID: 500-181249-2

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.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

QC Association Summary

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

Job ID: 500-181249-2

Rad

Prep Batch: 469993

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-181249-1	MW-18	Total/NA	Water	PrecSep-21	
500-181249-2	MW-17	Total/NA	Water	PrecSep-21	
500-181249-3	MW-19	Total/NA	Water	PrecSep-21	
500-181249-4	MW-01	Total/NA	Water	PrecSep-21	
500-181249-5	MW-02	Total/NA	Water	PrecSep-21	
500-181249-6	MW-03	Total/NA	Water	PrecSep-21	
500-181249-7	MW-04	Total/NA	Water	PrecSep-21	
500-181249-8	MW-05	Total/NA	Water	PrecSep-21	
500-181249-9	MW-10	Total/NA	Water	PrecSep-21	
500-181249-10	MW-08	Total/NA	Water	PrecSep-21	
500-181249-11	MW-09	Total/NA	Water	PrecSep-21	
500-181249-12	MW-11	Total/NA	Water	PrecSep-21	
500-181249-13	MW-12	Total/NA	Water	PrecSep-21	
500-181249-15	Duplicate	Total/NA	Water	PrecSep-21	
MB 160-469993/23-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-469993/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-181249-1 DU	MW-18	Total/NA	Water	PrecSep-21	

Prep Batch: 469995

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-181249-1	MW-18	Total/NA	Water	PrecSep_0	
500-181249-2	MW-17	Total/NA	Water	PrecSep_0	
500-181249-3	MW-19	Total/NA	Water	PrecSep_0	
500-181249-4	MW-01	Total/NA	Water	PrecSep_0	
500-181249-5	MW-02	Total/NA	Water	PrecSep_0	
500-181249-6	MW-03	Total/NA	Water	PrecSep_0	
500-181249-7	MW-04	Total/NA	Water	PrecSep_0	
500-181249-8	MW-05	Total/NA	Water	PrecSep_0	
500-181249-9	MW-10	Total/NA	Water	PrecSep_0	
500-181249-10	MW-08	Total/NA	Water	PrecSep_0	
500-181249-11	MW-09	Total/NA	Water	PrecSep_0	
500-181249-12	MW-11	Total/NA	Water	PrecSep_0	
500-181249-13	MW-12	Total/NA	Water	PrecSep_0	
500-181249-15	Duplicate	Total/NA	Water	PrecSep_0	
MB 160-469995/23-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-469995/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-181249-1 DU	MW-18	Total/NA	Water	PrecSep_0	

Prep Batch: 470017

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-181249-14	MW-15	Total/NA	Water	PrecSep-21	
MB 160-470017/22-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-470017/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 470021

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-181249-14	MW-15	Total/NA	Water	PrecSep_0	
MB 160-470021/22-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-470021/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Eurofins TestAmerica, Chicago

QC Sample Results

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

Job ID: 500-181249-2

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-469993/23-A

Matrix: Water

Analysis Batch: 471667

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 469993

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.04301	U	0.0527	0.0529	1.00	0.0852	pCi/L	05/11/20 10:44	06/02/20 08:12	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.4		40 - 110					05/11/20 10:44	06/02/20 08:12	1

Lab Sample ID: LCS 160-469993/1-A

Matrix: Water

Analysis Batch: 471667

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 469993

Analyte		Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-226		11.3	9.701		1.05	1.00	0.101	pCi/L	85	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits							
Ba Carrier	87.0		40 - 110							

Lab Sample ID: 500-181249-1 DU

Matrix: Water

Analysis Batch: 471667

Client Sample ID: MW-18

Prep Type: Total/NA

Prep Batch: 469993

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-226	0.179		0.1546		0.0962	1.00	0.117	pCi/L	0.12	1
Carrier	DU %Yield	DU Qualifier	Limits							
Ba Carrier	69.6		40 - 110							

Lab Sample ID: MB 160-470017/22-A

Matrix: Water

Analysis Batch: 471667

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 470017

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.01108	U	0.0358	0.0358	1.00	0.0713	pCi/L	05/11/20 14:42	06/02/20 06:03	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.9		40 - 110					05/11/20 14:42	06/02/20 06:03	1

Lab Sample ID: LCS 160-470017/1-A

Matrix: Water

Analysis Batch: 471667

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 470017

Analyte		Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-226		11.3	10.89		1.11	1.00	0.0668	pCi/L	96	75 - 125

Eurofins TestAmerica, Chicago

QC Sample Results

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

Job ID: 500-181249-2

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

Lab Sample ID: LCS 160-470017/1-A
Matrix: Water
Analysis Batch: 471667

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 470017

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	96.1		40 - 110

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-469995/23-A
Matrix: Water
Analysis Batch: 471336

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 469995

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.02092	U	0.186	0.186	1.00	0.333	pCi/L	05/11/20 11:12	05/27/20 11:03	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.4		40 - 110					05/11/20 11:12	05/27/20 11:03	1
Y Carrier	95.7		40 - 110					05/11/20 11:12	05/27/20 11:03	1

Lab Sample ID: LCS 160-469995/1-A
Matrix: Water
Analysis Batch: 471338

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 469995

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	8.80	9.582		1.13	1.00	0.484	pCi/L	109	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	87.0		40 - 110						
Y Carrier	86.7		40 - 110						

Lab Sample ID: 500-181249-1 DU
Matrix: Water
Analysis Batch: 471338

Client Sample ID: MW-18
Prep Type: Total/NA
Prep Batch: 469995

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-228	0.157	U	0.02472	U	0.347	1.00	0.608	pCi/L	0.20	1
Carrier	DU %Yield	DU Qualifier	Limits							
Ba Carrier	69.6		40 - 110							
Y Carrier	89.0		40 - 110							

Lab Sample ID: MB 160-470021/22-A
Matrix: Water
Analysis Batch: 471097

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 470021

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.01685	U	0.247	0.247	1.00	0.440	pCi/L	05/11/20 15:09	05/21/20 12:18	1

Eurofins TestAmerica, Chicago

QC Sample Results

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

Job ID: 500-181249-2

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

Lab Sample ID: MB 160-470021/22-A

Matrix: Water

Analysis Batch: 471097

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 470021

Carrier	MB MB		Limits			Dil Fac
	%Yield	Qualifier		Prepared	Analyzed	
Ba Carrier	94.9		40 - 110	05/11/20 15:09	05/21/20 12:18	1
Y Carrier	93.5		40 - 110	05/11/20 15:09	05/21/20 12:18	1

Lab Sample ID: LCS 160-470021/1-A

Matrix: Water

Analysis Batch: 471096

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 470021

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	8.82	8.132		0.976	1.00	0.400	pCi/L	92	75 - 125

Carrier	LCS LCS		Limits
	%Yield	Qualifier	
Ba Carrier	96.1		40 - 110
Y Carrier	89.7		40 - 110

Lab Chronicle

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

Job ID: 500-181249-2

Client Sample ID: MW-18

Date Collected: 04/27/20 10:49

Date Received: 04/28/20 09:35

Lab Sample ID: 500-181249-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			469993	05/11/20 10:44	RBR	TAL SL
Total/NA	Analysis	903.0		1	471667	06/02/20 06:04	KLS	TAL SL
Total/NA	Prep	PrecSep_0			469995	05/11/20 11:12	RBR	TAL SL
Total/NA	Analysis	904.0		1	471338	05/27/20 10:59	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471698	06/02/20 12:48	SMP	TAL SL

Client Sample ID: MW-17

Date Collected: 04/27/20 11:32

Date Received: 04/28/20 09:35

Lab Sample ID: 500-181249-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			469993	05/11/20 10:44	RBR	TAL SL
Total/NA	Analysis	903.0		1	471667	06/02/20 06:05	KLS	TAL SL
Total/NA	Prep	PrecSep_0			469995	05/11/20 11:12	RBR	TAL SL
Total/NA	Analysis	904.0		1	471338	05/27/20 11:00	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471698	06/02/20 12:48	SMP	TAL SL

Client Sample ID: MW-19

Date Collected: 04/27/20 12:19

Date Received: 04/28/20 09:35

Lab Sample ID: 500-181249-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			469993	05/11/20 10:44	RBR	TAL SL
Total/NA	Analysis	903.0		1	471667	06/02/20 06:05	KLS	TAL SL
Total/NA	Prep	PrecSep_0			469995	05/11/20 11:12	RBR	TAL SL
Total/NA	Analysis	904.0		1	471338	05/27/20 11:00	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471698	06/02/20 12:48	SMP	TAL SL

Client Sample ID: MW-01

Date Collected: 04/28/20 08:32

Date Received: 04/29/20 11:30

Lab Sample ID: 500-181249-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			469993	05/11/20 10:44	RBR	TAL SL
Total/NA	Analysis	903.0		1	471667	06/02/20 06:05	KLS	TAL SL
Total/NA	Prep	PrecSep_0			469995	05/11/20 11:12	RBR	TAL SL
Total/NA	Analysis	904.0		1	471338	05/27/20 11:00	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471698	06/02/20 12:48	SMP	TAL SL

Lab Chronicle

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

Job ID: 500-181249-2

Client Sample ID: MW-02

Date Collected: 04/28/20 09:56

Date Received: 04/29/20 11:30

Lab Sample ID: 500-181249-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			469993	05/11/20 10:44	RBR	TAL SL
Total/NA	Analysis	903.0		1	471667	06/02/20 06:05	KLS	TAL SL
Total/NA	Prep	PrecSep_0			469995	05/11/20 11:12	RBR	TAL SL
Total/NA	Analysis	904.0		1	471338	05/27/20 11:00	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471698	06/02/20 12:48	SMP	TAL SL

Client Sample ID: MW-03

Date Collected: 04/28/20 10:46

Date Received: 04/29/20 11:30

Lab Sample ID: 500-181249-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			469993	05/11/20 10:44	RBR	TAL SL
Total/NA	Analysis	903.0		1	471667	06/02/20 06:05	KLS	TAL SL
Total/NA	Prep	PrecSep_0			469995	05/11/20 11:12	RBR	TAL SL
Total/NA	Analysis	904.0		1	471338	05/27/20 11:00	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471698	06/02/20 12:48	SMP	TAL SL

Client Sample ID: MW-04

Date Collected: 04/28/20 11:43

Date Received: 04/29/20 11:30

Lab Sample ID: 500-181249-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			469993	05/11/20 10:44	RBR	TAL SL
Total/NA	Analysis	903.0		1	471667	06/02/20 06:05	KLS	TAL SL
Total/NA	Prep	PrecSep_0			469995	05/11/20 11:12	RBR	TAL SL
Total/NA	Analysis	904.0		1	471338	05/27/20 11:00	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471698	06/02/20 12:48	SMP	TAL SL

Client Sample ID: MW-05

Date Collected: 04/28/20 12:36

Date Received: 04/29/20 11:30

Lab Sample ID: 500-181249-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			469993	05/11/20 10:44	RBR	TAL SL
Total/NA	Analysis	903.0		1	471667	06/02/20 06:06	KLS	TAL SL
Total/NA	Prep	PrecSep_0			469995	05/11/20 11:12	RBR	TAL SL
Total/NA	Analysis	904.0		1	471338	05/27/20 11:00	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471698	06/02/20 12:48	SMP	TAL SL

Lab Chronicle

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

Job ID: 500-181249-2

Client Sample ID: MW-10

Date Collected: 04/28/20 13:39

Date Received: 04/29/20 11:30

Lab Sample ID: 500-181249-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			469993	05/11/20 10:44	RBR	TAL SL
Total/NA	Analysis	903.0		1	471667	06/02/20 06:06	KLS	TAL SL
Total/NA	Prep	PrecSep_0			469995	05/11/20 11:12	RBR	TAL SL
Total/NA	Analysis	904.0		1	471338	05/27/20 11:00	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471698	06/02/20 12:48	SMP	TAL SL

Client Sample ID: MW-08

Date Collected: 04/28/20 14:38

Date Received: 04/29/20 11:30

Lab Sample ID: 500-181249-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			469993	05/11/20 10:44	RBR	TAL SL
Total/NA	Analysis	903.0		1	471667	06/02/20 06:06	KLS	TAL SL
Total/NA	Prep	PrecSep_0			469995	05/11/20 11:12	RBR	TAL SL
Total/NA	Analysis	904.0		1	471338	05/27/20 11:00	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471698	06/02/20 12:48	SMP	TAL SL

Client Sample ID: MW-09

Date Collected: 04/29/20 09:43

Date Received: 04/30/20 09:40

Lab Sample ID: 500-181249-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			469993	05/11/20 10:44	RBR	TAL SL
Total/NA	Analysis	903.0		1	471667	06/02/20 08:10	KLS	TAL SL
Total/NA	Prep	PrecSep_0			469995	05/11/20 11:12	RBR	TAL SL
Total/NA	Analysis	904.0		1	471338	05/27/20 11:00	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471690	06/02/20 12:27	SMP	TAL SL

Client Sample ID: MW-11

Date Collected: 04/29/20 08:41

Date Received: 04/30/20 09:40

Lab Sample ID: 500-181249-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			469993	05/11/20 10:44	RBR	TAL SL
Total/NA	Analysis	903.0		1	471667	06/02/20 08:10	KLS	TAL SL
Total/NA	Prep	PrecSep_0			469995	05/11/20 11:12	RBR	TAL SL
Total/NA	Analysis	904.0		1	471338	05/27/20 11:01	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471690	06/02/20 12:27	SMP	TAL SL

Lab Chronicle

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

Job ID: 500-181249-2

Client Sample ID: MW-12

Date Collected: 04/29/20 10:58

Date Received: 04/30/20 09:40

Lab Sample ID: 500-181249-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			469993	05/11/20 10:44	RBR	TAL SL
Total/NA	Analysis	903.0		1	471667	06/02/20 08:11	KLS	TAL SL
Total/NA	Prep	PrecSep_0			469995	05/11/20 11:12	RBR	TAL SL
Total/NA	Analysis	904.0		1	471338	05/27/20 11:01	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471690	06/02/20 12:27	SMP	TAL SL

Client Sample ID: MW-15

Date Collected: 04/29/20 12:16

Date Received: 04/30/20 09:40

Lab Sample ID: 500-181249-14

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			470017	05/11/20 14:42	MNH	TAL SL
Total/NA	Analysis	903.0		1	471667	06/02/20 04:06	KLS	TAL SL
Total/NA	Prep	PrecSep_0			470021	05/11/20 15:09	MNH	TAL SL
Total/NA	Analysis	904.0		1	471096	05/21/20 12:21	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471690	06/02/20 12:27	SMP	TAL SL

Client Sample ID: Duplicate

Date Collected: 04/29/20 00:00

Date Received: 04/30/20 09:40

Lab Sample ID: 500-181249-15

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			469993	05/11/20 10:44	RBR	TAL SL
Total/NA	Analysis	903.0		1	471667	06/02/20 08:11	KLS	TAL SL
Total/NA	Prep	PrecSep_0			469995	05/11/20 11:12	RBR	TAL SL
Total/NA	Analysis	904.0		1	471338	05/27/20 11:01	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471690	06/02/20 12:28	SMP	TAL SL

Laboratory References:

TAL SL = Eurofins TestAmerica, 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: 500-181249-2

Laboratory: Eurofins TestAmerica, Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-20 *

Laboratory: Eurofins TestAmerica, St. Louis

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	004553	11-30-20

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins TestAmerica, Chicago

TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 61
Phone: 708.534.5200 Fax: 708.534.5201



500-181249 COC

Report To _____ (optional)	Bill To _____ (optional)
Contact: _____	Contact: _____
Company: _____	Company: _____
Address: _____	Address: _____
Address: _____	Address: _____
Phone: _____	Phone: _____
Fax: _____	Fax: _____
E-Mail: _____	PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-181249

Chain of Custody Number: _____

Page 1 of 1

Temperature °C of Cooler: 0.6-7.6

Client KPRG		Client Project # 12313.1		Preservative		3	3	8	8							Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other
Project Name Powerston CCR				Parameter												
Project Location/State Pekin, IL		Lab Project # 50011612														
Sampler M.itchel Dolan		Lab PM Diana Mockler														
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix										Comments
			Date	Time												
1		MW-18	4/27	1049	6 W		X	X		X	X					
2		MW-17	4/27	1132	6 W		X	X		X	X					
3		MW-19	4/27	1219	6 W		X	X		X	X					

Turnaround Time Required (Business Days)

☐ 1 Day ☐ 2 Days ☐ 5 Days ☐ 7 Days ☐ 10 Days ☐ 15 Days ☐ Other

Sample Disposal

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By Mitchel Dolan Company KPRG Date 4/27/20 Time 1630	Received By FEDEX Company _____ Date 4/27/20 Time 1630	Lab Courier _____
Relinquished By _____ Company _____ Date _____ Time _____	Received By Shirley Scott Company TA-CH Date 4/28/20 Time 0935	Shipped FedEx
Relinquished By _____ Company _____ Date _____ Time _____	Received By _____ Company _____ Date _____ Time _____	Hand Delivered _____

Matrix Key
 WW - Wastewater SE - Sediment
 W - Water SO - Soil
 S - Soil L - Leachate
 SL - Sludge WI - Wipe
 MS - Miscellaneous DW - Drinking Water
 OL - Oil O - Other
 A - Air

Client Comments:

Lab Comments:

eurolins EUROPEAN LOGISTICS



500-181249 COC

[illegible]

Report To _____

Contact: _____

Company: _____

Address: _____

Address: _____

Phone: _____

Fax: _____

E-Mail: _____

Bill To _____
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 PO#/Reference# _____

Lab Job #: 500-181249

Chain of Custody Number:

Page 1 of 1

Temperature °C of Cooler: _____

Preservative Key

1. HCL, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. NaHSO4
7. Cool to 4°
8. None
9. Other

☐ 1 Day ☐ 2 Days ☐ 5 Days ☐ 7 Days ☐ 10 Days ☐ 15 Days ☐ Other _____
 Requested Due Date

Return to Client

☐ Disposal by Lab

Archive for Months

(A fee may be assessed if samples are retained longer than 1 month)

Lab Courier	
Shipped	FXG
Hand Delivered	

Client Comments

Powerton ABB/ASB App. IV Parameters.

*One set of CCR samples collected for MW-01 well falls under both ABB/ASB + FAIB

Lab Comments:

eurofins | Experience in using Testosterone

Ver: 01.16/2019 6/2/2020

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

SHIP DATE: 27APR20
ACTWGT: 41.05 LB
CAD: 6994780/SSFE2102
DIMS: 24x13x14 IN
BILL THIRD PARTY

TO **EUROFINS TEST AMERICA**
EUROFINS TEST AMERICA
2417 BOND ST

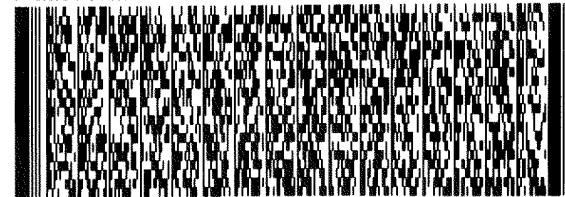


UNIVERSITY PARK IL 60484 500-181249 Wayt

(000) 000-0000
INVT
PO:

REF:

DEPT:



FedEx
Express



J201112004242301uv

2 of 3

MPS# 3922 9282 8776
0263

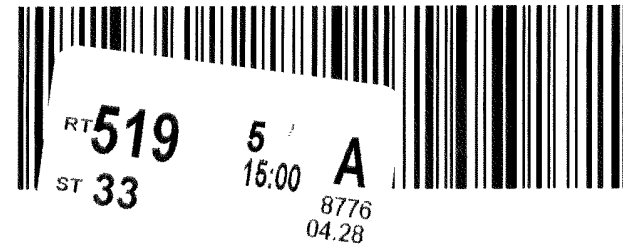
Mstr# 3922 9282 8765

0201

TUE - 28 APR 3:00P
STANDARD OVERNIGHT

XH JOTA

60484
IL-US ORD



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

WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 29APR20
ACTWGT: 47.45 LB
CAD: 6994780/SSFEZ102
DIMS: 25x14x13 IN

BILL THIRD PARTY

Part # 15529 JED

TO EUROFINS TEST AMERICA
EUROFINS TEST AMERICA
2417 BOND ST



UNIVERSITY PARK IL 60484

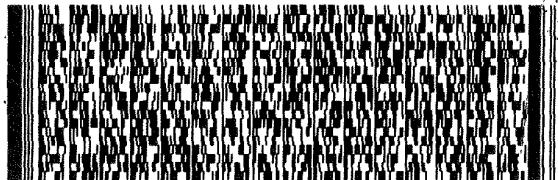
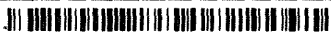
500-181249 Wayt

(000) 000-0000

REF:

INV:

DEPT:



FedEx
Express



201120042301NY

1 of 4

THU - 30 APR 3:00P
STANDARD OVERNIGHT

TRK# 3923 6795 1735

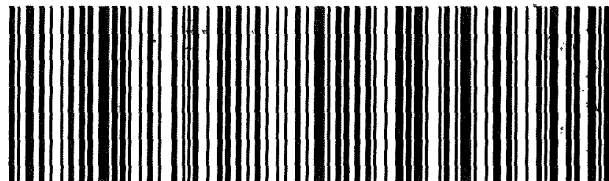
MASTER

XH JOTA

AHS

60484

IL-US ORD



48gt

[illegible]

Chain of Custody Record



Client Information (Sub Contract Lab)				Sampler:		Lab PM: Mockler, Diana J		Carrier Tracking No(s):		COC No: 500-134621.1	
Client Contact: Shipping/Receiving				Phone:		E-Mail: diana.mockler@testamerica.com		State of Origin: Illinois		Page: Page 1 of 1	
Company: TestAmerica Laboratories, Inc.				Address: 13715 Rider Trail North,		Accreditations Required (See note): NELAP - Illinois		Job #:		500-181249-1	
City: Earth City				State, Zip: MO, 63045		Due Date Requested: 5/8/2020		Analysis Requested		Preservation Codes:	
Phone: 314-298-8566(Tel) 314-298-8757(Fax)				PO #:		TAT Requested (days):		90.0/PreSep_0 Standard Target List		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Anchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:	
Email:				WO #:		Perform MS/MSD (Yes or No)		90.0/PreSep_21 Standard Target List		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 Z - other (specify)	
Project Name: Powertron CCR				Project #: 50011612		Field Filtered Sample (Yes or No)		90.0/PreSep_21 Standard Target List		Total Number of Containers	
Site: MWG - Powertron				SSOW#:		Preservation Code:		Ra226Ra228_GFPc		Special Instructions/Note:	
Sample Identification - Client ID (Lab ID)				Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=wastewater, BT=biomass, A=air)	
MW-01 (500-181249-4)				4/28/20		08:32 Central		Water		Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMs	
MW-02 (500-181249-5)				4/28/20		09:56 Central		Water		Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMs	
MW-03 (500-181249-6)				4/28/20		10:46 Central		Water		Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMs	
MW-04 (500-181249-7)				4/28/20		11:43 Central		Water		Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMs	
MW-05 (500-181249-8)				4/28/20		12:36 Central		Water		Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMs	
MW-10 (500-181249-9)				4/28/20		13:39 Central		Water		Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMs	
MW-08 (500-181249-10)				4/28/20		14:38 Central		Water		Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMs	
Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica 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 TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.											
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: _____											
Relinquished by: _____ Date/Time: _____ Company: _____											
Relinquished by: _____ Date/Time: _____ Company: _____											
Relinquished by: _____ Date/Time: _____ Company: _____											
Custody Seals Intact: _____ Custody Seal No.: _____											
Cooler Temperature(s) °C and Other Remarks:											

Chain of Custody Record

[illegible]

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-181249-2

Login Number: 181249

List Source: Eurofins TestAmerica, Chicago

List Number: 1

Creator: Scott, Sherri L

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	1.6,5.8,3.3,2.6,2.4,2.85
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	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: 500-181249-2

Login Number: 181249

List Number: 3

Creator: Korrinhizer, Micha L

List Source: Eurofins TestAmerica, St. Louis

List Creation: 04/29/20 08:31 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 $<6\text{mm}$ ($1/4''$).	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-181249-2

Login Number: 181249

List Number: 4

Creator: Korrinhizer, Micha L

List Source: Eurofins TestAmerica, St. Louis

List Creation: 04/29/20 08:35 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 $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-181249-2

Login Number: 181249

List Number: 5

Creator: Mazariegos, Leonel A

List Source: Eurofins TestAmerica, St. Louis

List Creation: 04/30/20 03:38 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
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 $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-181249-2

Login Number: 181249

List Number: 8

Creator: Korrinhizer, Micha L

List Source: Eurofins TestAmerica, St. Louis

List Creation: 05/01/20 07:38 PM

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

Tracer/Carrier Summary

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

Job ID: 500-181249-2

Method: 903.0 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)					
Lab Sample ID	Client Sample ID	Ba Carrier (40-110)					
500-181249-1	MW-18	78.0					
500-181249-1 DU	MW-18	69.6					
500-181249-2	MW-17	82.8					
500-181249-3	MW-19	80.7					
500-181249-4	MW-01	77.4					
500-181249-5	MW-02	75.6					
500-181249-6	MW-03	81.3					
500-181249-7	MW-04	78.3					
500-181249-8	MW-05	77.1					
500-181249-9	MW-10	94.0					
500-181249-10	MW-08	81.0					
500-181249-11	MW-09	70.2					
500-181249-12	MW-11	83.7					
500-181249-13	MW-12	80.1					
500-181249-14	MW-15	85.5					
500-181249-15	Duplicate	78.3					
LCS 160-469993/1-A	Lab Control Sample	87.0					
LCS 160-470017/1-A	Lab Control Sample	96.1					
MB 160-469993/23-A	Method Blank	86.4					
MB 160-470017/22-A	Method Blank	94.9					

Tracer/Carrier Legend

Ba Carrier = 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 Carrier (40-110)	Y Carrier (40-110)				
500-181249-1	MW-18	78.0	84.9				
500-181249-1 DU	MW-18	69.6	89.0				
500-181249-2	MW-17	82.8	90.1				
500-181249-3	MW-19	80.7	88.6				
500-181249-4	MW-01	77.4	87.1				
500-181249-5	MW-02	75.6	87.9				
500-181249-6	MW-03	81.3	90.1				
500-181249-7	MW-04	78.3	90.8				
500-181249-8	MW-05	77.1	86.4				
500-181249-9	MW-10	94.0	88.6				
500-181249-10	MW-08	81.0	91.2				
500-181249-11	MW-09	70.2	65.8				
500-181249-12	MW-11	83.7	89.7				
500-181249-13	MW-12	80.1	89.0				
500-181249-14	MW-15	85.5	92.0				
500-181249-15	Duplicate	78.3	87.1				
LCS 160-469995/1-A	Lab Control Sample	87.0	86.7				
LCS 160-470021/1-A	Lab Control Sample	96.1	89.7				
MB 160-469995/23-A	Method Blank	86.4	95.7				
MB 160-470021/22-A	Method Blank	94.9	93.5				

Eurofins TestAmerica, Chicago

Tracer/Carrier Summary

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

Job ID: 500-181249-2

Tracer/Carrier Legend

Ba Carrier = Ba Carrier

Y Carrier = Y Carrier

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ANALYTICAL REPORT

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

Laboratory Job ID: 500-192070-1
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:
12/18/2020 5:54:34 PM

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

Diana.Mockler@Eurofinset.com

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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.

Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Detection Summary	4
Method Summary	8
Sample Summary	9
Client Sample Results	10
Definitions	20
QC Association	21
QC Sample Results	27
Chronicle	38
Certification Summary	43
Chain of Custody	44
Receipt Checklists	51



Case Narrative

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

Job ID: 500-192070-1

Job ID: 500-192070-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative 500-192070-1

Comments

No additional comments.

Receipt

The samples were received on 12/8/2020 10:05 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 7 coolers at receipt time were -0.7° C, -0.4° C, -0.3° C, -0.1° C, -0.1° C, 0.3° C and 0.3° C.

Metals

Method 6010C: The interference check standard solution (ICSA) associated with Analytical batch 500-576167 had results for Lithium above the reporting limit (RL). Associated samples MW-19 (500-192070-1), MW-01 (500-192070-4) and Duplicate (500-192070-5) were non-detects for Lithium, therefore the data has been reported.

Method 6020A: The internal standard Terbium (Tb) was used to report the elements Lead and Thallium in batch 500-576644. This was due to the LCS being spiked with the trace digestion spike which contains Bismuth.

Method 6020A: The internal standard Terbium (Tb) was used to report the elements Lead and Thallium in batch 500-577089. This was due to the LCS being spiked with the trace digestion spike which contains Bismuth.

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

General Chemistry

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

Detection Summary

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

Job ID: 500-192070-1

Client Sample ID: MW-19

Lab Sample ID: 500-192070-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.062		0.0025		mg/L	1		6020A	Total Recoverable
Boron	3.3		1.0		mg/L	20		6020A	Total Recoverable
Calcium	74		0.20		mg/L	1		6020A	Total Recoverable
Molybdenum	0.053		0.0050		mg/L	1		6020A	Total Recoverable
Total Dissolved Solids	420		10		mg/L	1		SM 2540C	Total/NA
Chloride	34		2.0		mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.19		0.10		mg/L	1		SM 4500 F C	Total/NA
Sulfate	76	F1	25		mg/L	5		SM 4500 SO4 E	Total/NA

Client Sample ID: MW-17

Lab Sample ID: 500-192070-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.022		0.010		mg/L	1		6010C	Total Recoverable
Arsenic	0.080		0.0010		mg/L	1		6020A	Total Recoverable
Barium	0.050		0.0025		mg/L	1		6020A	Total Recoverable
Boron	1.3		0.25		mg/L	5		6020A	Total Recoverable
Cadmium	0.0010		0.00050		mg/L	1		6020A	Total Recoverable
Calcium	140		0.20		mg/L	1		6020A	Total Recoverable
Lead	0.0011		0.00050		mg/L	1		6020A	Total Recoverable
Molybdenum	0.056		0.0050		mg/L	1		6020A	Total Recoverable
Total Dissolved Solids	1100		10		mg/L	1		SM 2540C	Total/NA
Chloride	160		10		mg/L	5		SM 4500 Cl- E	Total/NA
Fluoride	0.80		0.10		mg/L	1		SM 4500 F C	Total/NA
Sulfate	430		100		mg/L	20		SM 4500 SO4 E	Total/NA

Client Sample ID: MW-18

Lab Sample ID: 500-192070-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.014		0.010		mg/L	1		6010C	Total Recoverable
Arsenic	0.0032		0.0010		mg/L	1		6020A	Total Recoverable
Barium	0.11		0.0025		mg/L	1		6020A	Total Recoverable
Boron	0.75		0.050		mg/L	1		6020A	Total Recoverable
Calcium	110		0.20		mg/L	1		6020A	Total Recoverable
Molybdenum	0.061		0.0050		mg/L	1		6020A	Total Recoverable
Total Dissolved Solids	910		10		mg/L	1		SM 2540C	Total/NA
Chloride	150	F1	10		mg/L	5		SM 4500 Cl- E	Total/NA
Fluoride	0.70		0.10		mg/L	1		SM 4500 F C	Total/NA
Sulfate	160		25		mg/L	5		SM 4500 SO4 E	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

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

Job ID: 500-192070-1

Client Sample ID: MW-01

Lab Sample ID: 500-192070-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.058		0.0025		mg/L	1		6020A	Total Recoverable
Boron	0.60		0.050		mg/L	1		6020A	Total Recoverable
Calcium	100		0.20		mg/L	1		6020A	Total Recoverable
Lead	0.00055		0.00050		mg/L	1		6020A	Total Recoverable
Molybdenum	0.0051		0.0050		mg/L	1		6020A	Total Recoverable
Total Dissolved Solids	490		10		mg/L	1		SM 2540C	Total/NA
Chloride	54		2.0		mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.25		0.10		mg/L	1		SM 4500 F C	Total/NA
Sulfate	55		25		mg/L	5		SM 4500 SO4 E	Total/NA

Client Sample ID: Duplicate

Lab Sample ID: 500-192070-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.062		0.0025		mg/L	1		6020A	Total Recoverable
Boron	3.5		0.50		mg/L	10		6020A	Total Recoverable
Calcium	74		0.20		mg/L	1		6020A	Total Recoverable
Molybdenum	0.051		0.0050		mg/L	1		6020A	Total Recoverable
Total Dissolved Solids	380		10		mg/L	1		SM 2540C	Total/NA
Chloride	35		2.0		mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.18		0.10		mg/L	1		SM 4500 F C	Total/NA
Sulfate	78		15		mg/L	3		SM 4500 SO4 E	Total/NA

Client Sample ID: MW-09

Lab Sample ID: 500-192070-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0013		0.0010		mg/L	1		6020A	Total Recoverable
Barium	0.042		0.0025		mg/L	1		6020A	Total Recoverable
Boron	2.6		0.50		mg/L	10		6020A	Total Recoverable
Calcium	65		0.20		mg/L	1		6020A	Total Recoverable
Molybdenum	0.025		0.0050		mg/L	1		6020A	Total Recoverable
Total Dissolved Solids	400		10		mg/L	1		SM 2540C	Total/NA
Chloride	34		2.0		mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.22		0.10		mg/L	1		SM 4500 F C	Total/NA
Sulfate	63		25		mg/L	5		SM 4500 SO4 E	Total/NA

Client Sample ID: MW-11

Lab Sample ID: 500-192070-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.027		0.0010		mg/L	1		6020A	Total Recoverable
Barium	0.26		0.0025		mg/L	1		6020A	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

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

Job ID: 500-192070-1

Client Sample ID: MW-11 (Continued)

Lab Sample ID: 500-192070-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.73		0.25		mg/L	5		6020A	Total Recoverable
Calcium	86		0.20		mg/L	1		6020A	Total Recoverable
Cobalt	0.0021		0.0010		mg/L	1		6020A	Total Recoverable
Molybdenum	0.030		0.0050		mg/L	1		6020A	Total Recoverable
Total Dissolved Solids	650		10		mg/L	1		SM 2540C	Total/NA
Chloride	94		10		mg/L	5		SM 4500 Cl- E	Total/NA
Fluoride	0.67		0.10		mg/L	1		SM 4500 F C	Total/NA
Sulfate	200		50		mg/L	10		SM 4500 SO4 E	Total/NA

Client Sample ID: MW-12

Lab Sample ID: 500-192070-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.012		0.010		mg/L	1		6010C	Total Recoverable
Arsenic	0.025		0.0010		mg/L	1		6020A	Total Recoverable
Barium	0.069		0.0025		mg/L	1		6020A	Total Recoverable
Boron	0.61		0.050		mg/L	1		6020A	Total Recoverable
Calcium	92		0.20		mg/L	1		6020A	Total Recoverable
Molybdenum	0.027		0.0050		mg/L	1		6020A	Total Recoverable
Total Dissolved Solids	990		10		mg/L	1		SM 2540C	Total/NA
Chloride	160		10		mg/L	5		SM 4500 Cl- E	Total/NA
Fluoride	0.56		0.10		mg/L	1		SM 4500 F C	Total/NA
Sulfate	320		50		mg/L	10		SM 4500 SO4 E	Total/NA

Client Sample ID: MW-15

Lab Sample ID: 500-192070-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.035		0.010		mg/L	1		6010C	Total Recoverable
Arsenic	0.020		0.0010		mg/L	1		6020A	Total Recoverable
Barium	0.10		0.0025		mg/L	1		6020A	Total Recoverable
Boron	1.5		0.25		mg/L	5		6020A	Total Recoverable
Cadmium	0.00059		0.00050		mg/L	1		6020A	Total Recoverable
Calcium	170		0.20		mg/L	1		6020A	Total Recoverable
Cobalt	0.0012		0.0010		mg/L	1		6020A	Total Recoverable
Molybdenum	0.020		0.0050		mg/L	1		6020A	Total Recoverable
Selenium	0.012		0.0025		mg/L	1		6020A	Total Recoverable
Total Dissolved Solids	1400		10		mg/L	1		SM 2540C	Total/NA
Chloride	200		10		mg/L	5		SM 4500 Cl- E	Total/NA
Fluoride	0.55		0.10		mg/L	1		SM 4500 F C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

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

Job ID: 500-192070-1

Client Sample ID: MW-15 (Continued)

Lab Sample ID: 500-192070-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	540		100		mg/L	20		SM 4500 SO4 E	Total/NA

Client Sample ID: MW-08

Lab Sample ID: 500-192070-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.030		0.010		mg/L	1		6010C	Total Recoverable
Arsenic	0.0024		0.0010		mg/L	1		6020A	Total Recoverable
Barium	0.11		0.0025		mg/L	1		6020A	Total Recoverable
Boron	0.73		0.25		mg/L	5		6020A	Total Recoverable
Calcium	120		0.20		mg/L	1		6020A	Total Recoverable
Lead	0.00093		0.00050		mg/L	1		6020A	Total Recoverable
Molybdenum	0.012		0.0050		mg/L	1		6020A	Total Recoverable
Total Dissolved Solids	530		10		mg/L	1		SM 2540C	Total/NA
Chloride	150		10		mg/L	5		SM 4500 Cl- E	Total/NA
Fluoride	0.38		0.10		mg/L	1		SM 4500 F C	Total/NA
Sulfate	92		20		mg/L	4		SM 4500 SO4 E	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Method Summary

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

Job ID: 500-192070-1

Method	Method Description	Protocol	Laboratory
6010C	Metals (ICP)	SW846	TAL CHI
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 TestAmerica, 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: 500-192070-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-192070-1	MW-19	Water	12/07/20 10:45	12/08/20 10:05	
500-192070-2	MW-17	Water	12/07/20 11:30	12/08/20 10:05	
500-192070-3	MW-18	Water	12/07/20 12:16	12/08/20 10:05	
500-192070-4	MW-01	Water	12/07/20 12:57	12/08/20 10:05	
500-192070-5	Duplicate	Water	12/07/20 00:00	12/08/20 10:05	
500-192070-6	MW-09	Water	12/08/20 08:42	12/09/20 10:30	
500-192070-7	MW-11	Water	12/08/20 09:51	12/09/20 10:30	
500-192070-8	MW-12	Water	12/08/20 11:00	12/09/20 10:30	
500-192070-9	MW-15	Water	12/08/20 12:03	12/09/20 10:30	
500-192070-10	MW-08	Water	12/14/20 10:20	12/15/20 14:40	

Client Sample Results

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

Job ID: 500-192070-1

Client Sample ID: MW-19

Lab Sample ID: 500-192070-1

Date Collected: 12/07/20 10:45

Matrix: Water

Date Received: 12/08/20 10:05

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010	^	0.010		mg/L		12/08/20 17:57	12/09/20 12:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0010		0.0010		mg/L		12/08/20 17:57	12/14/20 16:33	1
Barium	0.062		0.0025		mg/L		12/08/20 17:57	12/11/20 18:36	1
Boron	3.3		1.0		mg/L		12/08/20 17:57	12/15/20 15:20	20
Cadmium	<0.00050		0.00050		mg/L		12/08/20 17:57	12/11/20 18:36	1
Calcium	74		0.20		mg/L		12/08/20 17:57	12/11/20 18:36	1
Cobalt	<0.0010		0.0010		mg/L		12/08/20 17:57	12/11/20 18:36	1
Lead	<0.00050		0.00050		mg/L		12/08/20 17:57	12/11/20 18:36	1
Molybdenum	0.053		0.0050		mg/L		12/08/20 17:57	12/11/20 18:36	1
Selenium	<0.0025		0.0025		mg/L		12/08/20 17:57	12/14/20 16:33	1
Thallium	<0.0020		0.0020		mg/L		12/08/20 17:57	12/11/20 18:36	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/10/20 08:20	12/11/20 07:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	420		10		mg/L			12/09/20 03:06	1
Chloride	34		2.0		mg/L			12/11/20 14:58	1
Fluoride	0.19		0.10		mg/L			12/16/20 14:01	1
Sulfate	76	F1	25		mg/L			12/15/20 14:07	5

Client Sample Results

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

Job ID: 500-192070-1

Client Sample ID: MW-17

Lab Sample ID: 500-192070-2

Date Collected: 12/07/20 11:30

Matrix: Water

Date Received: 12/08/20 10:05

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.022		0.010		mg/L		12/08/20 17:57	12/10/20 10:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.080		0.0010		mg/L		12/08/20 17:57	12/14/20 16:42	1
Barium	0.050		0.0025		mg/L		12/08/20 17:57	12/11/20 18:54	1
Boron	1.3		0.25		mg/L		12/08/20 17:57	12/15/20 15:46	5
Cadmium	0.0010		0.00050		mg/L		12/08/20 17:57	12/11/20 18:54	1
Calcium	140		0.20		mg/L		12/08/20 17:57	12/11/20 18:54	1
Cobalt	<0.0010		0.0010		mg/L		12/08/20 17:57	12/11/20 18:54	1
Lead	0.0011		0.00050		mg/L		12/08/20 17:57	12/11/20 18:54	1
Molybdenum	0.056		0.0050		mg/L		12/08/20 17:57	12/11/20 18:54	1
Selenium	<0.0025		0.0025		mg/L		12/08/20 17:57	12/14/20 16:42	1
Thallium	<0.0020		0.0020		mg/L		12/08/20 17:57	12/11/20 18:54	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/10/20 08:20	12/11/20 07:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1100		10		mg/L			12/09/20 03:09	1
Chloride	160		10		mg/L			12/11/20 15:36	5
Fluoride	0.80		0.10		mg/L			12/16/20 14:15	1
Sulfate	430		100		mg/L			12/15/20 14:08	20

Client Sample Results

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

Job ID: 500-192070-1

Client Sample ID: MW-18

Lab Sample ID: 500-192070-3

Date Collected: 12/07/20 12:16

Matrix: Water

Date Received: 12/08/20 10:05

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.014		0.010		mg/L		12/08/20 17:57	12/10/20 10:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0032		0.0010		mg/L		12/08/20 17:57	12/14/20 16:44	1
Barium	0.11		0.0025		mg/L		12/08/20 17:57	12/11/20 18:57	1
Boron	0.75		0.050		mg/L		12/08/20 17:57	12/15/20 15:49	1
Cadmium	<0.00050		0.00050		mg/L		12/08/20 17:57	12/11/20 18:57	1
Calcium	110		0.20		mg/L		12/08/20 17:57	12/11/20 18:57	1
Cobalt	<0.0010		0.0010		mg/L		12/08/20 17:57	12/11/20 18:57	1
Lead	<0.00050		0.00050		mg/L		12/08/20 17:57	12/11/20 18:57	1
Molybdenum	0.061		0.0050		mg/L		12/08/20 17:57	12/11/20 18:57	1
Selenium	<0.0025		0.0025		mg/L		12/08/20 17:57	12/14/20 16:44	1
Thallium	<0.0020		0.0020		mg/L		12/08/20 17:57	12/11/20 18:57	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/10/20 08:20	12/11/20 07:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	910		10		mg/L			12/09/20 03:11	1
Chloride	150	F1	10		mg/L			12/11/20 15:36	5
Fluoride	0.70		0.10		mg/L			12/16/20 14:21	1
Sulfate	160		25		mg/L			12/15/20 14:08	5

Client Sample Results

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

Job ID: 500-192070-1

Client Sample ID: MW-01

Lab Sample ID: 500-192070-4

Date Collected: 12/07/20 12:57

Matrix: Water

Date Received: 12/08/20 10:05

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010	^	0.010		mg/L		12/08/20 17:57	12/09/20 13:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0010		0.0010		mg/L		12/08/20 17:57	12/14/20 16:50	1
Barium	0.058		0.0025		mg/L		12/08/20 17:57	12/11/20 19:00	1
Boron	0.60		0.050		mg/L		12/08/20 17:57	12/15/20 15:53	1
Cadmium	<0.00050		0.00050		mg/L		12/08/20 17:57	12/11/20 19:00	1
Calcium	100		0.20		mg/L		12/08/20 17:57	12/11/20 19:00	1
Chromium	<0.0050		0.0050		mg/L		12/08/20 17:57	12/11/20 19:00	1
Cobalt	<0.0010		0.0010		mg/L		12/08/20 17:57	12/11/20 19:00	1
Lead	0.00055		0.00050		mg/L		12/08/20 17:57	12/11/20 19:00	1
Molybdenum	0.0051		0.0050		mg/L		12/08/20 17:57	12/11/20 19:00	1
Selenium	<0.0025		0.0025		mg/L		12/08/20 17:57	12/14/20 16:50	1
Thallium	<0.0020		0.0020		mg/L		12/08/20 17:57	12/11/20 19:00	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/10/20 08:20	12/11/20 07:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	490		10		mg/L			12/09/20 03:14	1
Chloride	54		2.0		mg/L			12/11/20 15:02	1
Fluoride	0.25		0.10		mg/L			12/16/20 14:26	1
Sulfate	55		25		mg/L			12/15/20 14:14	5

Client Sample Results

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

Job ID: 500-192070-1

Client Sample ID: Duplicate

Lab Sample ID: 500-192070-5

Date Collected: 12/07/20 00:00

Matrix: Water

Date Received: 12/08/20 10:05

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010	^	0.010		mg/L		12/08/20 17:57	12/09/20 13:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0010		0.0010		mg/L		12/08/20 17:57	12/14/20 16:52	1
Barium	0.062		0.0025		mg/L		12/08/20 17:57	12/11/20 19:11	1
Boron	3.5		0.50		mg/L		12/08/20 17:57	12/15/20 15:56	10
Cadmium	<0.00050		0.00050		mg/L		12/08/20 17:57	12/11/20 19:11	1
Calcium	74		0.20		mg/L		12/08/20 17:57	12/11/20 19:11	1
Cobalt	<0.0010		0.0010		mg/L		12/08/20 17:57	12/11/20 19:11	1
Lead	<0.00050		0.00050		mg/L		12/08/20 17:57	12/11/20 19:11	1
Molybdenum	0.051		0.0050		mg/L		12/08/20 17:57	12/11/20 19:11	1
Selenium	<0.0025		0.0025		mg/L		12/08/20 17:57	12/14/20 16:52	1
Thallium	<0.0020		0.0020		mg/L		12/08/20 17:57	12/11/20 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		12/10/20 08:20	12/11/20 07:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	380		10		mg/L			12/09/20 03:17	1
Chloride	35		2.0		mg/L			12/11/20 15:08	1
Fluoride	0.18		0.10		mg/L			12/16/20 14:32	1
Sulfate	78		15		mg/L			12/15/20 14:29	3

Client Sample Results

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

Job ID: 500-192070-1

Client Sample ID: MW-09

Lab Sample ID: 500-192070-6

Date Collected: 12/08/20 08:42

Matrix: Water

Date Received: 12/09/20 10:30

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		12/10/20 07:37	12/12/20 00:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0013		0.0010		mg/L		12/10/20 07:37	12/14/20 17:11	1
Barium	0.042		0.0025		mg/L		12/10/20 07:37	12/14/20 17:11	1
Boron	2.6		0.50		mg/L		12/10/20 07:37	12/15/20 17:14	10
Cadmium	<0.00050		0.00050		mg/L		12/10/20 07:37	12/11/20 21:41	1
Calcium	65		0.20		mg/L		12/10/20 07:37	12/14/20 17:11	1
Cobalt	<0.0010		0.0010		mg/L		12/10/20 07:37	12/15/20 18:48	1
Lead	<0.00050		0.00050		mg/L		12/10/20 07:37	12/11/20 21:41	1
Molybdenum	0.025		0.0050		mg/L		12/10/20 07:37	12/11/20 21:41	1
Selenium	<0.0025		0.0025		mg/L		12/10/20 07:37	12/14/20 17:11	1
Thallium	<0.0020		0.0020		mg/L		12/10/20 07:37	12/11/20 21:41	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/11/20 09:10	12/14/20 07:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	400		10		mg/L			12/10/20 02:41	1
Chloride	34		2.0		mg/L			12/11/20 15:09	1
Fluoride	0.22		0.10		mg/L			12/16/20 14:37	1
Sulfate	63		25		mg/L			12/15/20 14:09	5

Client Sample Results

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

Job ID: 500-192070-1

Client Sample ID: MW-11

Lab Sample ID: 500-192070-7

Date Collected: 12/08/20 09:51

Matrix: Water

Date Received: 12/09/20 10:30

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		12/10/20 07:37	12/12/20 00:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.027		0.0010		mg/L		12/10/20 07:37	12/14/20 17:13	1
Barium	0.26		0.0025		mg/L		12/10/20 07:37	12/14/20 17:13	1
Boron	0.73		0.25		mg/L		12/10/20 07:37	12/15/20 17:18	5
Cadmium	<0.00050		0.00050		mg/L		12/10/20 07:37	12/11/20 21:45	1
Calcium	86		0.20		mg/L		12/10/20 07:37	12/14/20 17:13	1
Cobalt	0.0021		0.0010		mg/L		12/10/20 07:37	12/15/20 18:52	1
Lead	<0.00050		0.00050		mg/L		12/10/20 07:37	12/11/20 21:45	1
Molybdenum	0.030		0.0050		mg/L		12/10/20 07:37	12/11/20 21:45	1
Selenium	<0.0025		0.0025		mg/L		12/10/20 07:37	12/14/20 17:13	1
Thallium	<0.0020		0.0020		mg/L		12/10/20 07:37	12/11/20 21:45	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/11/20 09:10	12/14/20 07:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	650		10		mg/L			12/10/20 02:43	1
Chloride	94		10		mg/L			12/11/20 15:38	5
Fluoride	0.67		0.10		mg/L			12/16/20 14:52	1
Sulfate	200		50		mg/L			12/15/20 14:10	10

Client Sample Results

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

Job ID: 500-192070-1

Client Sample ID: MW-12

Lab Sample ID: 500-192070-8

Date Collected: 12/08/20 11:00

Matrix: Water

Date Received: 12/09/20 10:30

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.012		0.010		mg/L		12/10/20 07:37	12/12/20 00:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.025		0.0010		mg/L		12/10/20 07:37	12/14/20 17:15	1
Barium	0.069		0.0025		mg/L		12/10/20 07:37	12/14/20 17:15	1
Boron	0.61		0.050		mg/L		12/10/20 07:37	12/15/20 17:21	1
Cadmium	<0.00050		0.00050		mg/L		12/10/20 07:37	12/11/20 21:48	1
Calcium	92		0.20		mg/L		12/10/20 07:37	12/14/20 17:15	1
Cobalt	<0.0010		0.0010		mg/L		12/10/20 07:37	12/15/20 17:21	1
Lead	<0.00050		0.00050		mg/L		12/10/20 07:37	12/11/20 21:48	1
Molybdenum	0.027		0.0050		mg/L		12/10/20 07:37	12/11/20 21:48	1
Selenium	<0.0025		0.0025		mg/L		12/10/20 07:37	12/14/20 17:15	1
Thallium	<0.0020		0.0020		mg/L		12/10/20 07:37	12/11/20 21:48	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/11/20 09:10	12/14/20 07:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	990		10		mg/L			12/10/20 02:46	1
Chloride	160		10		mg/L			12/11/20 15:38	5
Fluoride	0.56		0.10		mg/L			12/16/20 14:54	1
Sulfate	320		50		mg/L			12/15/20 14:11	10

Client Sample Results

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

Job ID: 500-192070-1

Client Sample ID: MW-15

Lab Sample ID: 500-192070-9

Date Collected: 12/08/20 12:03

Matrix: Water

Date Received: 12/09/20 10:30

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.035		0.010		mg/L		12/10/20 07:37	12/12/20 00:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.020		0.0010		mg/L		12/10/20 07:37	12/14/20 17:17	1
Barium	0.10		0.0025		mg/L		12/10/20 07:37	12/14/20 17:17	1
Boron	1.5		0.25		mg/L		12/10/20 07:37	12/15/20 17:25	5
Cadmium	0.00059		0.00050		mg/L		12/10/20 07:37	12/11/20 21:52	1
Calcium	170		0.20		mg/L		12/10/20 07:37	12/14/20 17:17	1
Cobalt	0.0012		0.0010		mg/L		12/10/20 07:37	12/15/20 18:55	1
Lead	<0.00050		0.00050		mg/L		12/10/20 07:37	12/11/20 21:52	1
Molybdenum	0.020		0.0050		mg/L		12/10/20 07:37	12/11/20 21:52	1
Selenium	0.012		0.0025		mg/L		12/10/20 07:37	12/14/20 17:17	1
Thallium	<0.0020		0.0020		mg/L		12/10/20 07:37	12/11/20 21:52	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/11/20 09:10	12/14/20 07:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1400		10		mg/L			12/10/20 02:48	1
Chloride	200		10		mg/L			12/11/20 15:39	5
Fluoride	0.55		0.10		mg/L			12/16/20 15:00	1
Sulfate	540		100		mg/L			12/15/20 14:31	20

Client Sample Results

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

Job ID: 500-192070-1

Client Sample ID: MW-08

Lab Sample ID: 500-192070-10

Date Collected: 12/14/20 10:20

Matrix: Water

Date Received: 12/15/20 14:40

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.030		0.010		mg/L		12/15/20 17:29	12/16/20 10:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0024		0.0010		mg/L		12/15/20 17:29	12/16/20 14:51	1
Barium	0.11		0.0025		mg/L		12/15/20 17:29	12/16/20 14:51	1
Boron	0.73		0.25		mg/L		12/15/20 17:29	12/16/20 18:35	5
Cadmium	<0.00050		0.00050		mg/L		12/15/20 17:29	12/16/20 14:51	1
Calcium	120		0.20		mg/L		12/15/20 17:29	12/16/20 14:51	1
Cobalt	<0.0010		0.0010		mg/L		12/15/20 17:29	12/16/20 14:51	1
Lead	0.00093		0.00050		mg/L		12/15/20 17:29	12/16/20 14:51	1
Molybdenum	0.012		0.0050		mg/L		12/15/20 17:29	12/16/20 14:51	1
Selenium	<0.0025		0.0025		mg/L		12/15/20 17:29	12/16/20 14:51	1
Thallium	<0.0020		0.0020		mg/L		12/15/20 17:29	12/16/20 14:51	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/16/20 09:20	12/17/20 08:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	530		10		mg/L			12/17/20 01:43	1
Chloride	150		10		mg/L			12/16/20 11:38	5
Fluoride	0.38		0.10		mg/L			12/16/20 15:03	1
Sulfate	92		20		mg/L			12/17/20 14:47	4

Definitions/Glossary

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

Job ID: 500-192070-1

Qualifiers

Metals

Qualifier	Qualifier Description
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
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
F1	MS and/or MSD recovery exceeds control limits.

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: 500-192070-1

Metals

Prep Batch: 575895

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192070-1	MW-19	Total Recoverable	Water	3005A	
500-192070-2	MW-17	Total Recoverable	Water	3005A	
500-192070-3	MW-18	Total Recoverable	Water	3005A	
500-192070-4	MW-01	Total Recoverable	Water	3005A	
500-192070-5	Duplicate	Total Recoverable	Water	3005A	
MB 500-575895/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-575895/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
500-192070-1 MS	MW-19	Total Recoverable	Water	3005A	
500-192070-1 MSD	MW-19	Total Recoverable	Water	3005A	
500-192070-1 DU	MW-19	Total Recoverable	Water	3005A	

Prep Batch: 576150

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192070-6	MW-09	Total Recoverable	Water	3005A	
500-192070-7	MW-11	Total Recoverable	Water	3005A	
500-192070-8	MW-12	Total Recoverable	Water	3005A	
500-192070-9	MW-15	Total Recoverable	Water	3005A	
MB 500-576150/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-576150/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 576167

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192070-1	MW-19	Total Recoverable	Water	6010C	575895
500-192070-4	MW-01	Total Recoverable	Water	6010C	575895
500-192070-5	Duplicate	Total Recoverable	Water	6010C	575895
MB 500-575895/1-A	Method Blank	Total Recoverable	Water	6010C	575895
LCS 500-575895/2-A	Lab Control Sample	Total Recoverable	Water	6010C	575895
500-192070-1 MS	MW-19	Total Recoverable	Water	6010C	575895
500-192070-1 MSD	MW-19	Total Recoverable	Water	6010C	575895
500-192070-1 DU	MW-19	Total Recoverable	Water	6010C	575895

Prep Batch: 576172

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192070-1	MW-19	Total/NA	Water	7470A	
500-192070-2	MW-17	Total/NA	Water	7470A	
500-192070-3	MW-18	Total/NA	Water	7470A	
500-192070-4	MW-01	Total/NA	Water	7470A	
500-192070-5	Duplicate	Total/NA	Water	7470A	
MB 500-576172/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-576172/13-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 576224

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192070-2	MW-17	Total Recoverable	Water	6010C	575895
500-192070-3	MW-18	Total Recoverable	Water	6010C	575895

Prep Batch: 576393

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192070-6	MW-09	Total/NA	Water	7470A	
500-192070-7	MW-11	Total/NA	Water	7470A	
500-192070-8	MW-12	Total/NA	Water	7470A	

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QC Association Summary

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

Job ID: 500-192070-1

Metals (Continued)

Prep Batch: 576393 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192070-9	MW-15	Total/NA	Water	7470A	
MB 500-576393/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-576393/13-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 576405

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192070-1	MW-19	Total/NA	Water	7470A	576172
500-192070-2	MW-17	Total/NA	Water	7470A	576172
500-192070-3	MW-18	Total/NA	Water	7470A	576172
500-192070-4	MW-01	Total/NA	Water	7470A	576172
500-192070-5	Duplicate	Total/NA	Water	7470A	576172
MB 500-576172/12-A	Method Blank	Total/NA	Water	7470A	576172
LCS 500-576172/13-A	Lab Control Sample	Total/NA	Water	7470A	576172

Analysis Batch: 576582

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192070-6	MW-09	Total Recoverable	Water	6010C	576150
500-192070-7	MW-11	Total Recoverable	Water	6010C	576150
500-192070-8	MW-12	Total Recoverable	Water	6010C	576150
500-192070-9	MW-15	Total Recoverable	Water	6010C	576150
MB 500-576150/1-A	Method Blank	Total Recoverable	Water	6010C	576150
LCS 500-576150/2-A	Lab Control Sample	Total Recoverable	Water	6010C	576150

Analysis Batch: 576644

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192070-1	MW-19	Total Recoverable	Water	6020A	575895
500-192070-2	MW-17	Total Recoverable	Water	6020A	575895
500-192070-3	MW-18	Total Recoverable	Water	6020A	575895
500-192070-4	MW-01	Total Recoverable	Water	6020A	575895
500-192070-5	Duplicate	Total Recoverable	Water	6020A	575895
500-192070-6	MW-09	Total Recoverable	Water	6020A	576150
500-192070-7	MW-11	Total Recoverable	Water	6020A	576150
500-192070-8	MW-12	Total Recoverable	Water	6020A	576150
500-192070-9	MW-15	Total Recoverable	Water	6020A	576150
MB 500-575895/1-A	Method Blank	Total Recoverable	Water	6020A	575895
MB 500-576150/1-A	Method Blank	Total Recoverable	Water	6020A	576150
LCS 500-575895/2-A	Lab Control Sample	Total Recoverable	Water	6020A	575895
LCS 500-576150/2-A	Lab Control Sample	Total Recoverable	Water	6020A	576150
500-192070-1 MS	MW-19	Total Recoverable	Water	6020A	575895
500-192070-1 MSD	MW-19	Total Recoverable	Water	6020A	575895
500-192070-1 DU	MW-19	Total Recoverable	Water	6020A	575895

Analysis Batch: 576653

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192070-6	MW-09	Total/NA	Water	7470A	576393
500-192070-7	MW-11	Total/NA	Water	7470A	576393
500-192070-8	MW-12	Total/NA	Water	7470A	576393
500-192070-9	MW-15	Total/NA	Water	7470A	576393
MB 500-576393/12-A	Method Blank	Total/NA	Water	7470A	576393
LCS 500-576393/13-A	Lab Control Sample	Total/NA	Water	7470A	576393

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QC Association Summary

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

Job ID: 500-192070-1

Metals

Analysis Batch: 576866

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192070-1	MW-19	Total Recoverable	Water	6020A	575895
500-192070-2	MW-17	Total Recoverable	Water	6020A	575895
500-192070-3	MW-18	Total Recoverable	Water	6020A	575895
500-192070-4	MW-01	Total Recoverable	Water	6020A	575895
500-192070-5	Duplicate	Total Recoverable	Water	6020A	575895
500-192070-6	MW-09	Total Recoverable	Water	6020A	576150
500-192070-7	MW-11	Total Recoverable	Water	6020A	576150
500-192070-8	MW-12	Total Recoverable	Water	6020A	576150
500-192070-9	MW-15	Total Recoverable	Water	6020A	576150
MB 500-575895/1-A	Method Blank	Total Recoverable	Water	6020A	575895
MB 500-576150/1-A	Method Blank	Total Recoverable	Water	6020A	576150
LCS 500-575895/2-A	Lab Control Sample	Total Recoverable	Water	6020A	575895
LCS 500-576150/2-A	Lab Control Sample	Total Recoverable	Water	6020A	576150
500-192070-1 MS	MW-19	Total Recoverable	Water	6020A	575895
500-192070-1 MSD	MW-19	Total Recoverable	Water	6020A	575895
500-192070-1 DU	MW-19	Total Recoverable	Water	6020A	575895

Prep Batch: 576951

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192070-10	MW-08	Total Recoverable	Water	3005A	
MB 500-576951/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-576951/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 577085

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192070-10	MW-08	Total/NA	Water	7470A	
MB 500-577085/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-577085/13-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 577089

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192070-1	MW-19	Total Recoverable	Water	6020A	575895
500-192070-2	MW-17	Total Recoverable	Water	6020A	575895
500-192070-3	MW-18	Total Recoverable	Water	6020A	575895
500-192070-4	MW-01	Total Recoverable	Water	6020A	575895
500-192070-5	Duplicate	Total Recoverable	Water	6020A	575895
500-192070-6	MW-09	Total Recoverable	Water	6020A	576150
500-192070-6	MW-09	Total Recoverable	Water	6020A	576150
500-192070-7	MW-11	Total Recoverable	Water	6020A	576150
500-192070-7	MW-11	Total Recoverable	Water	6020A	576150
500-192070-8	MW-12	Total Recoverable	Water	6020A	576150
500-192070-9	MW-15	Total Recoverable	Water	6020A	576150
500-192070-9	MW-15	Total Recoverable	Water	6020A	576150
MB 500-575895/1-A	Method Blank	Total Recoverable	Water	6020A	575895
MB 500-576150/1-A	Method Blank	Total Recoverable	Water	6020A	576150
LCS 500-575895/2-A	Lab Control Sample	Total Recoverable	Water	6020A	575895
LCS 500-576150/2-A	Lab Control Sample	Total Recoverable	Water	6020A	576150
500-192070-1 MS	MW-19	Total Recoverable	Water	6020A	575895
500-192070-1 MSD	MW-19	Total Recoverable	Water	6020A	575895
500-192070-1 DU	MW-19	Total Recoverable	Water	6020A	575895

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QC Association Summary

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

Job ID: 500-192070-1

Metals

Analysis Batch: 577113

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192070-10	MW-08	Total Recoverable	Water	6010C	576951
MB 500-576951/1-A	Method Blank	Total Recoverable	Water	6010C	576951
LCS 500-576951/2-A	Lab Control Sample	Total Recoverable	Water	6010C	576951

Analysis Batch: 577145

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192070-10	MW-08	Total Recoverable	Water	6020A	576951
MB 500-576951/1-A	Method Blank	Total Recoverable	Water	6020A	576951
LCS 500-576951/2-A	Lab Control Sample	Total Recoverable	Water	6020A	576951

Analysis Batch: 577277

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192070-10	MW-08	Total Recoverable	Water	6020A	576951
MB 500-576951/1-A	Method Blank	Total Recoverable	Water	6020A	576951
LCS 500-576951/2-A	Lab Control Sample	Total Recoverable	Water	6020A	576951

Analysis Batch: 577293

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192070-10	MW-08	Total/NA	Water	7470A	577085
MB 500-577085/12-A	Method Blank	Total/NA	Water	7470A	577085
LCS 500-577085/13-A	Lab Control Sample	Total/NA	Water	7470A	577085

General Chemistry

Analysis Batch: 575962

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192070-1	MW-19	Total/NA	Water	SM 2540C	
500-192070-2	MW-17	Total/NA	Water	SM 2540C	
500-192070-3	MW-18	Total/NA	Water	SM 2540C	
500-192070-4	MW-01	Total/NA	Water	SM 2540C	
500-192070-5	Duplicate	Total/NA	Water	SM 2540C	
MB 500-575962/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-575962/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 576132

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192070-6	MW-09	Total/NA	Water	SM 2540C	
500-192070-7	MW-11	Total/NA	Water	SM 2540C	
500-192070-8	MW-12	Total/NA	Water	SM 2540C	
500-192070-9	MW-15	Total/NA	Water	SM 2540C	
MB 500-576132/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-576132/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 576457

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192070-1	MW-19	Total/NA	Water	SM 4500 Cl- E	
500-192070-2	MW-17	Total/NA	Water	SM 4500 Cl- E	
500-192070-3	MW-18	Total/NA	Water	SM 4500 Cl- E	
500-192070-4	MW-01	Total/NA	Water	SM 4500 Cl- E	
500-192070-5	Duplicate	Total/NA	Water	SM 4500 Cl- E	
500-192070-6	MW-09	Total/NA	Water	SM 4500 Cl- E	

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QC Association Summary

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

Job ID: 500-192070-1

General Chemistry (Continued)

Analysis Batch: 576457 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192070-7	MW-11	Total/NA	Water	SM 4500 Cl- E	
500-192070-8	MW-12	Total/NA	Water	SM 4500 Cl- E	
500-192070-9	MW-15	Total/NA	Water	SM 4500 Cl- E	
MB 500-576457/12	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 500-576457/13	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
500-192070-3 MS	MW-18	Total/NA	Water	SM 4500 Cl- E	
500-192070-3 MSD	MW-18	Total/NA	Water	SM 4500 Cl- E	
500-192070-4 MS	MW-01	Total/NA	Water	SM 4500 Cl- E	
500-192070-4 MSD	MW-01	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 576921

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192070-1	MW-19	Total/NA	Water	SM 4500 SO4 E	
500-192070-2	MW-17	Total/NA	Water	SM 4500 SO4 E	
500-192070-3	MW-18	Total/NA	Water	SM 4500 SO4 E	
500-192070-4	MW-01	Total/NA	Water	SM 4500 SO4 E	
500-192070-5	Duplicate	Total/NA	Water	SM 4500 SO4 E	
500-192070-6	MW-09	Total/NA	Water	SM 4500 SO4 E	
500-192070-7	MW-11	Total/NA	Water	SM 4500 SO4 E	
500-192070-8	MW-12	Total/NA	Water	SM 4500 SO4 E	
500-192070-9	MW-15	Total/NA	Water	SM 4500 SO4 E	
MB 500-576921/15	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-576921/16	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
500-192070-1 MS	MW-19	Total/NA	Water	SM 4500 SO4 E	
500-192070-1 MSD	MW-19	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 577109

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192070-10	MW-08	Total/NA	Water	SM 4500 Cl- E	
MB 500-577109/39	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 500-577109/40	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 577212

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192070-10	MW-08	Total/NA	Water	SM 2540C	
MB 500-577212/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-577212/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 577245

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192070-1	MW-19	Total/NA	Water	SM 4500 F C	
500-192070-2	MW-17	Total/NA	Water	SM 4500 F C	
500-192070-3	MW-18	Total/NA	Water	SM 4500 F C	
500-192070-4	MW-01	Total/NA	Water	SM 4500 F C	
500-192070-5	Duplicate	Total/NA	Water	SM 4500 F C	
500-192070-6	MW-09	Total/NA	Water	SM 4500 F C	
500-192070-7	MW-11	Total/NA	Water	SM 4500 F C	
500-192070-8	MW-12	Total/NA	Water	SM 4500 F C	
500-192070-9	MW-15	Total/NA	Water	SM 4500 F C	
500-192070-10	MW-08	Total/NA	Water	SM 4500 F C	
MB 500-577245/3	Method Blank	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: 500-192070-1

General Chemistry (Continued)

Analysis Batch: 577245 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-577245/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
500-192070-1 MS	MW-19	Total/NA	Water	SM 4500 F C	
500-192070-1 MSD	MW-19	Total/NA	Water	SM 4500 F C	

Analysis Batch: 577347

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192070-10	MW-08	Total/NA	Water	SM 4500 SO4 E	
MB 500-577347/40	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-577347/43	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	

QC Sample Results

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

Job ID: 500-192070-1

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 500-575895/1-A
Matrix: Water
Analysis Batch: 576167

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 575895

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010	^	0.010		mg/L		12/08/20 17:57	12/09/20 12:33	1

Lab Sample ID: LCS 500-575895/2-A
Matrix: Water
Analysis Batch: 576167

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 575895

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lithium	0.500	0.506	^	mg/L		101	80 - 120

Lab Sample ID: 500-192070-1 MS
Matrix: Water
Analysis Batch: 576167

Client Sample ID: MW-19
Prep Type: Total Recoverable
Prep Batch: 575895

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lithium	<0.010	^	0.500	0.542	^	mg/L		107	75 - 125

Lab Sample ID: 500-192070-1 MSD
Matrix: Water
Analysis Batch: 576167

Client Sample ID: MW-19
Prep Type: Total Recoverable
Prep Batch: 575895

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lithium	<0.010	^	0.500	0.561	^	mg/L		111	75 - 125	3	20

Lab Sample ID: 500-192070-1 DU
Matrix: Water
Analysis Batch: 576167

Client Sample ID: MW-19
Prep Type: Total Recoverable
Prep Batch: 575895

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Lithium	<0.010	^	<0.010	^	mg/L		NC	20

Lab Sample ID: MB 500-576150/1-A
Matrix: Water
Analysis Batch: 576582

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 576150

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		12/10/20 07:37	12/11/20 23:59	1

Lab Sample ID: LCS 500-576150/2-A
Matrix: Water
Analysis Batch: 576582

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 576150

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lithium	0.500	0.527		mg/L		105	80 - 120

Lab Sample ID: MB 500-576951/1-A
Matrix: Water
Analysis Batch: 577113

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 576951

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		12/15/20 17:29	12/16/20 10:05	1

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QC Sample Results

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

Job ID: 500-192070-1

Method: 6010C - Metals (ICP)

Lab Sample ID: LCS 500-576951/2-A
Matrix: Water
Analysis Batch: 577113

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 576951

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lithium	0.500	0.515		mg/L		103	80 - 120

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 500-575895/1-A
Matrix: Water
Analysis Batch: 576644

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 575895

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.0025		0.0025		mg/L		12/08/20 17:57	12/11/20 18:29	1
Cadmium	<0.00050		0.00050		mg/L		12/08/20 17:57	12/11/20 18:29	1
Calcium	<0.20		0.20		mg/L		12/08/20 17:57	12/11/20 18:29	1
Chromium	<0.0050		0.0050		mg/L		12/08/20 17:57	12/11/20 18:29	1
Cobalt	<0.0010		0.0010		mg/L		12/08/20 17:57	12/11/20 18:29	1
Lead	<0.00050		0.00050		mg/L		12/08/20 17:57	12/11/20 18:29	1
Molybdenum	<0.0050		0.0050		mg/L		12/08/20 17:57	12/11/20 18:29	1
Thallium	<0.0020		0.0020		mg/L		12/08/20 17:57	12/11/20 18:29	1

Lab Sample ID: MB 500-575895/1-A
Matrix: Water
Analysis Batch: 576866

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 575895

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0010		0.0010		mg/L		12/08/20 17:57	12/14/20 16:27	1
Selenium	<0.0025		0.0025		mg/L		12/08/20 17:57	12/14/20 16:27	1

Lab Sample ID: MB 500-575895/1-A
Matrix: Water
Analysis Batch: 577089

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 575895

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.050		0.050		mg/L		12/08/20 17:57	12/15/20 15:13	1

Lab Sample ID: LCS 500-575895/2-A
Matrix: Water
Analysis Batch: 576644

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 575895

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	2.00	2.05		mg/L		103	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	0.200		mg/L		100	80 - 120
Cobalt	0.500	0.488		mg/L		98	80 - 120
Lead	0.100	0.101		mg/L		101	80 - 120
Molybdenum	1.00	0.992		mg/L		99	80 - 120
Thallium	0.100	0.109		mg/L		109	80 - 120

QC Sample Results

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

Job ID: 500-192070-1

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

Lab Sample ID: LCS 500-575895/2-A
Matrix: Water
Analysis Batch: 576866

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 575895

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.100	0.0998		mg/L		100	80 - 120
Selenium	0.100	0.0971		mg/L		97	80 - 120

Lab Sample ID: LCS 500-575895/2-A
Matrix: Water
Analysis Batch: 577089

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 575895

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	1.00	1.07		mg/L		107	80 - 120

Lab Sample ID: 500-192070-1 MS
Matrix: Water
Analysis Batch: 576644

Client Sample ID: MW-19
Prep Type: Total Recoverable
Prep Batch: 575895

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	0.062		2.00	2.20		mg/L		107	75 - 125
Cadmium	<0.00050		0.0500	0.0492		mg/L		98	75 - 125
Calcium	74		10.0	84.2	4	mg/L		100	75 - 125
Chromium	<0.0050		0.200	0.201		mg/L		100	75 - 125
Cobalt	<0.0010		0.500	0.478		mg/L		96	75 - 125
Lead	<0.00050		0.100	0.102		mg/L		102	75 - 125
Molybdenum	0.053		1.00	1.08		mg/L		103	75 - 125
Thallium	<0.0020		0.100	0.111		mg/L		111	75 - 125

Lab Sample ID: 500-192070-1 MS
Matrix: Water
Analysis Batch: 576866

Client Sample ID: MW-19
Prep Type: Total Recoverable
Prep Batch: 575895

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	<0.0010		0.100	0.103		mg/L		103	75 - 125
Selenium	<0.0025		0.100	0.100		mg/L		100	75 - 125

Lab Sample ID: 500-192070-1 MS
Matrix: Water
Analysis Batch: 577089

Client Sample ID: MW-19
Prep Type: Total Recoverable
Prep Batch: 575895

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	3.3		1.00	4.56		mg/L		125	75 - 125

Lab Sample ID: 500-192070-1 MSD
Matrix: Water
Analysis Batch: 576644

Client Sample ID: MW-19
Prep Type: Total Recoverable
Prep Batch: 575895

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Barium	0.062		2.00	2.17		mg/L		106	75 - 125	1	20
Cadmium	<0.00050		0.0500	0.0485		mg/L		97	75 - 125	1	20
Calcium	74		10.0	82.6	4	mg/L		83	75 - 125	2	20
Chromium	<0.0050		0.200	0.202		mg/L		101	75 - 125	1	20
Cobalt	<0.0010		0.500	0.479		mg/L		96	75 - 125	0	20
Lead	<0.00050		0.100	0.100		mg/L		100	75 - 125	2	20

Eurofins TestAmerica, Chicago

QC Sample Results

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

Job ID: 500-192070-1

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

Lab Sample ID: 500-192070-1 MSD

Matrix: Water

Analysis Batch: 576644

Client Sample ID: MW-19

Prep Type: Total Recoverable

Prep Batch: 575895

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Molybdenum	0.053		1.00	1.08		mg/L		103	75 - 125	0	20
Thallium	<0.0020		0.100	0.110		mg/L		110	75 - 125	1	20

Lab Sample ID: 500-192070-1 MSD

Matrix: Water

Analysis Batch: 576866

Client Sample ID: MW-19

Prep Type: Total Recoverable

Prep Batch: 575895

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	<0.0010		0.100	0.106		mg/L		105	75 - 125	2	20
Selenium	<0.0025		0.100	0.101		mg/L		101	75 - 125	1	20

Lab Sample ID: 500-192070-1 MSD

Matrix: Water

Analysis Batch: 577089

Client Sample ID: MW-19

Prep Type: Total Recoverable

Prep Batch: 575895

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Boron	3.3		1.00	4.43		mg/L		112	75 - 125	3	20

Lab Sample ID: 500-192070-1 DU

Matrix: Water

Analysis Batch: 576644

Client Sample ID: MW-19

Prep Type: Total Recoverable

Prep Batch: 575895

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Barium	0.062		0.0616		mg/L		1	20
Cadmium	<0.00050		<0.00050		mg/L		NC	20
Calcium	74		72.7		mg/L		2	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
Molybdenum	0.053		0.0510		mg/L		3	20
Thallium	<0.0020		<0.0020		mg/L		NC	20

Lab Sample ID: 500-192070-1 DU

Matrix: Water

Analysis Batch: 576866

Client Sample ID: MW-19

Prep Type: Total Recoverable

Prep Batch: 575895

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Arsenic	<0.0010		<0.0010		mg/L		NC	20
Selenium	<0.0025		<0.0025		mg/L		NC	20

Lab Sample ID: 500-192070-1 DU

Matrix: Water

Analysis Batch: 577089

Client Sample ID: MW-19

Prep Type: Total Recoverable

Prep Batch: 575895

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Boron	3.3		3.38		mg/L		2	20

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QC Sample Results

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

Job ID: 500-192070-1

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

Lab Sample ID: MB 500-576150/1-A

Matrix: Water

Analysis Batch: 576644

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 576150

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.00050		0.00050		mg/L		12/10/20 07:37	12/11/20 21:34	1
Lead	<0.00050		0.00050		mg/L		12/10/20 07:37	12/11/20 21:34	1
Molybdenum	<0.0050		0.0050		mg/L		12/10/20 07:37	12/11/20 21:34	1
Thallium	<0.0020		0.0020		mg/L		12/10/20 07:37	12/11/20 21:34	1

Lab Sample ID: MB 500-576150/1-A

Matrix: Water

Analysis Batch: 576866

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 576150

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0010		0.0010		mg/L		12/10/20 07:37	12/14/20 17:07	1
Barium	<0.0025		0.0025		mg/L		12/10/20 07:37	12/14/20 17:07	1
Calcium	<0.20		0.20		mg/L		12/10/20 07:37	12/14/20 17:07	1
Selenium	<0.0025		0.0025		mg/L		12/10/20 07:37	12/14/20 17:07	1

Lab Sample ID: MB 500-576150/1-A

Matrix: Water

Analysis Batch: 577089

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 576150

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.050		0.050		mg/L		12/10/20 07:37	12/15/20 17:07	1
Cobalt	<0.0010		0.0010		mg/L		12/10/20 07:37	12/15/20 17:07	1

Lab Sample ID: LCS 500-576150/2-A

Matrix: Water

Analysis Batch: 576644

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 576150

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	0.0500	0.0502		mg/L		100	80 - 120
Lead	0.100	0.0947		mg/L		95	80 - 120
Molybdenum	1.00	1.00		mg/L		100	80 - 120
Thallium	0.100	0.0938		mg/L		94	80 - 120

Lab Sample ID: LCS 500-576150/2-A

Matrix: Water

Analysis Batch: 576866

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 576150

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.100	0.100		mg/L		100	80 - 120
Barium	2.00	1.66		mg/L		83	80 - 120
Calcium	10.0	11.8		mg/L		118	80 - 120
Selenium	0.100	0.0989		mg/L		99	80 - 120

Lab Sample ID: LCS 500-576150/2-A

Matrix: Water

Analysis Batch: 577089

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 576150

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	1.00	1.07		mg/L		107	80 - 120
Cobalt	0.500	0.535		mg/L		107	80 - 120

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QC Sample Results

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

Job ID: 500-192070-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 500-576951/1-A
Matrix: Water
Analysis Batch: 577145

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 576951

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0010		0.0010		mg/L		12/15/20 17:29	12/16/20 14:13	1
Barium	<0.0025		0.0025		mg/L		12/15/20 17:29	12/16/20 14:13	1
Cadmium	<0.00050		0.00050		mg/L		12/15/20 17:29	12/16/20 14:13	1
Calcium	<0.20		0.20		mg/L		12/15/20 17:29	12/16/20 14:13	1
Cobalt	<0.0010		0.0010		mg/L		12/15/20 17:29	12/16/20 14:13	1
Lead	<0.00050		0.00050		mg/L		12/15/20 17:29	12/16/20 14:13	1
Molybdenum	<0.0050		0.0050		mg/L		12/15/20 17:29	12/16/20 14:13	1
Selenium	<0.0025		0.0025		mg/L		12/15/20 17:29	12/16/20 14:13	1
Thallium	<0.0020		0.0020		mg/L		12/15/20 17:29	12/16/20 14:13	1

Lab Sample ID: MB 500-576951/1-A
Matrix: Water
Analysis Batch: 577277

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 576951

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.050		0.050		mg/L		12/15/20 17:29	12/16/20 18:04	1

Lab Sample ID: LCS 500-576951/2-A
Matrix: Water
Analysis Batch: 577145

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 576951

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.100	0.0911		mg/L		91	80 - 120
Barium	2.00	1.90		mg/L		95	80 - 120
Cadmium	0.0500	0.0487		mg/L		97	80 - 120
Calcium	10.0	9.32		mg/L		93	80 - 120
Cobalt	0.500	0.526		mg/L		105	80 - 120
Lead	0.100	0.110		mg/L		110	80 - 120
Molybdenum	1.00	0.961		mg/L		96	80 - 120
Selenium	0.100	0.0989		mg/L		99	80 - 120
Thallium	0.100	0.113		mg/L		113	80 - 120

Lab Sample ID: LCS 500-576951/2-A
Matrix: Water
Analysis Batch: 577277

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 576951

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	1.00	0.955		mg/L		96	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-576172/12-A
Matrix: Water
Analysis Batch: 576405

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 576172

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/10/20 08:20	12/11/20 06:54	1

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QC Sample Results

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

Job ID: 500-192070-1

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 500-576172/13-A
Matrix: Water
Analysis Batch: 576405

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 576172

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00200	0.00210		mg/L		105	80 - 120

Lab Sample ID: MB 500-576393/12-A
Matrix: Water
Analysis Batch: 576653

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 576393

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/11/20 09:10	12/14/20 07:27	1

Lab Sample ID: LCS 500-576393/13-A
Matrix: Water
Analysis Batch: 576653

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 576393

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00200	0.00218		mg/L		109	80 - 120

Lab Sample ID: MB 500-577085/12-A
Matrix: Water
Analysis Batch: 577293

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 577085

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/16/20 09:20	12/17/20 07:19	1

Lab Sample ID: LCS 500-577085/13-A
Matrix: Water
Analysis Batch: 577293

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 577085

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00200	0.00201		mg/L		100	80 - 120

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

Lab Sample ID: MB 500-575962/1
Matrix: Water
Analysis Batch: 575962

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10		mg/L			12/09/20 02:42	1

Lab Sample ID: LCS 500-575962/2
Matrix: Water
Analysis Batch: 575962

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	236		mg/L		94	80 - 120

QC Sample Results

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

Job ID: 500-192070-1

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

Lab Sample ID: MB 500-576132/1

Matrix: Water

Analysis Batch: 576132

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10		mg/L			12/10/20 02:23	1

Lab Sample ID: LCS 500-576132/2

Matrix: Water

Analysis Batch: 576132

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	236		mg/L		94	80 - 120

Lab Sample ID: MB 500-577212/1

Matrix: Water

Analysis Batch: 577212

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10		mg/L			12/17/20 01:12	1

Lab Sample ID: LCS 500-577212/2

Matrix: Water

Analysis Batch: 577212

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	228		mg/L		91	80 - 120

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 500-576457/12

Matrix: Water

Analysis Batch: 576457

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			12/11/20 14:56	1

Lab Sample ID: LCS 500-576457/13

Matrix: Water

Analysis Batch: 576457

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	50.4		mg/L		101	85 - 115

Lab Sample ID: 500-192070-3 MS

Matrix: Water

Analysis Batch: 576457

Client Sample ID: MW-18

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	150	F1	50.0	188	F1	mg/L		70	75 - 125

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QC Sample Results

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

Job ID: 500-192070-1

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

Lab Sample ID: 500-192070-3 MSD

Matrix: Water

Analysis Batch: 576457

Client Sample ID: MW-18

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	150	F1	50.0	190	F1	mg/L		74	75 - 125	1	20

Lab Sample ID: 500-192070-4 MS

Matrix: Water

Analysis Batch: 576457

Client Sample ID: MW-01

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	54		50.0	94.0		mg/L		79	75 - 125		

Lab Sample ID: 500-192070-4 MSD

Matrix: Water

Analysis Batch: 576457

Client Sample ID: MW-01

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	54		50.0	94.1		mg/L		80	75 - 125	0	20

Lab Sample ID: MB 500-577109/39

Matrix: Water

Analysis Batch: 577109

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			12/16/20 10:59	1

Lab Sample ID: LCS 500-577109/40

Matrix: Water

Analysis Batch: 577109

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	50.0	50.4		mg/L		101	85 - 115		

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-577245/3

Matrix: Water

Analysis Batch: 577245

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			12/16/20 13:49	1

Lab Sample ID: LCS 500-577245/4

Matrix: Water

Analysis Batch: 577245

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	10.9		mg/L		109	80 - 120		

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QC Sample Results

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

Job ID: 500-192070-1

Method: SM 4500 F C - Fluoride (Continued)

Lab Sample ID: 500-192070-1 MS
Matrix: Water
Analysis Batch: 577245

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		
Fluoride	0.19		5.00	5.75		mg/L		111	75 - 125		

Lab Sample ID: 500-192070-1 MSD
Matrix: Water
Analysis Batch: 577245

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
Fluoride	0.19		5.00	5.70		mg/L		110	75 - 125	1	20

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 500-576921/15
Matrix: Water
Analysis Batch: 576921

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			12/15/20 14:06	1

Lab Sample ID: LCS 500-576921/16
Matrix: Water
Analysis Batch: 576921

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	80 - 120		

Lab Sample ID: 500-192070-1 MS
Matrix: Water
Analysis Batch: 576921

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		
Sulfate	76	F1	20.0	94.8		mg/L		94	75 - 125		

Lab Sample ID: 500-192070-1 MSD
Matrix: Water
Analysis Batch: 576921

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
Sulfate	76	F1	20.0	96.5		mg/L		102	75 - 125	2	20

Lab Sample ID: MB 500-577347/40
Matrix: Water
Analysis Batch: 577347

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			12/17/20 13:44	1

Eurofins TestAmerica, Chicago

QC Sample Results

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

Job ID: 500-192070-1

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

Lab Sample ID: LCS 500-577347/43

Matrix: Water

Analysis Batch: 577347

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	21.2		mg/L		106	80 - 120

Lab Chronicle

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

Job ID: 500-192070-1

Client Sample ID: MW-19

Date Collected: 12/07/20 10:45

Date Received: 12/08/20 10:05

Lab Sample ID: 500-192070-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			575895	12/08/20 17:57	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	576167	12/09/20 12:40	EEN	TAL CHI
Total Recoverable	Prep	3005A			575895	12/08/20 17:57	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	576866	12/14/20 16:33	FXG	TAL CHI
Total Recoverable	Prep	3005A			575895	12/08/20 17:57	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	576644	12/11/20 18:36	FXG	TAL CHI
Total Recoverable	Prep	3005A			575895	12/08/20 17:57	BDE	TAL CHI
Total Recoverable	Analysis	6020A		20	577089	12/15/20 15:20	FXG	TAL CHI
Total/NA	Prep	7470A			576172	12/10/20 08:20	MJG	TAL CHI
Total/NA	Analysis	7470A		1	576405	12/11/20 07:35	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	575962	12/09/20 03:06	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		1	576457	12/11/20 14:58	EAT	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	577245	12/16/20 14:01	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		5	576921	12/15/20 14:07	MS	TAL CHI

Client Sample ID: MW-17

Date Collected: 12/07/20 11:30

Date Received: 12/08/20 10:05

Lab Sample ID: 500-192070-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			575895	12/08/20 17:57	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	576224	12/10/20 10:34	EEN	TAL CHI
Total Recoverable	Prep	3005A			575895	12/08/20 17:57	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	576866	12/14/20 16:42	FXG	TAL CHI
Total Recoverable	Prep	3005A			575895	12/08/20 17:57	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	576644	12/11/20 18:54	FXG	TAL CHI
Total Recoverable	Prep	3005A			575895	12/08/20 17:57	BDE	TAL CHI
Total Recoverable	Analysis	6020A		5	577089	12/15/20 15:46	FXG	TAL CHI
Total/NA	Prep	7470A			576172	12/10/20 08:20	MJG	TAL CHI
Total/NA	Analysis	7470A		1	576405	12/11/20 07:37	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	575962	12/09/20 03:09	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	576457	12/11/20 15:36	EAT	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	577245	12/16/20 14:15	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	576921	12/15/20 14:08	MS	TAL CHI

Client Sample ID: MW-18

Date Collected: 12/07/20 12:16

Date Received: 12/08/20 10:05

Lab Sample ID: 500-192070-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			575895	12/08/20 17:57	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	576224	12/10/20 10:37	EEN	TAL CHI
Total Recoverable	Prep	3005A			575895	12/08/20 17:57	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	576866	12/14/20 16:44	FXG	TAL CHI

Eurofins TestAmerica, Chicago

Lab Chronicle

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

Job ID: 500-192070-1

Client Sample ID: MW-18

Date Collected: 12/07/20 12:16

Date Received: 12/08/20 10:05

Lab Sample ID: 500-192070-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			575895	12/08/20 17:57	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	576644	12/11/20 18:57	FXG	TAL CHI
Total Recoverable	Prep	3005A			575895	12/08/20 17:57	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	577089	12/15/20 15:49	FXG	TAL CHI
Total/NA	Prep	7470A			576172	12/10/20 08:20	MJG	TAL CHI
Total/NA	Analysis	7470A		1	576405	12/11/20 07:43	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	575962	12/09/20 03:11	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		5	576457	12/11/20 15:36	EAT	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	577245	12/16/20 14:21	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		5	576921	12/15/20 14:08	MS	TAL CHI

Client Sample ID: MW-01

Date Collected: 12/07/20 12:57

Date Received: 12/08/20 10:05

Lab Sample ID: 500-192070-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			575895	12/08/20 17:57	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	576167	12/09/20 13:09	EEN	TAL CHI
Total Recoverable	Prep	3005A			575895	12/08/20 17:57	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	576866	12/14/20 16:50	FXG	TAL CHI
Total Recoverable	Prep	3005A			575895	12/08/20 17:57	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	576644	12/11/20 19:00	FXG	TAL CHI
Total Recoverable	Prep	3005A			575895	12/08/20 17:57	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	577089	12/15/20 15:53	FXG	TAL CHI
Total/NA	Prep	7470A			576172	12/10/20 08:20	MJG	TAL CHI
Total/NA	Analysis	7470A		1	576405	12/11/20 07:45	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	575962	12/09/20 03:14	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		1	576457	12/11/20 15:02	EAT	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	577245	12/16/20 14:26	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		5	576921	12/15/20 14:14	MS	TAL CHI

Client Sample ID: Duplicate

Date Collected: 12/07/20 00:00

Date Received: 12/08/20 10:05

Lab Sample ID: 500-192070-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			575895	12/08/20 17:57	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	576167	12/09/20 13:13	EEN	TAL CHI
Total Recoverable	Prep	3005A			575895	12/08/20 17:57	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	576866	12/14/20 16:52	FXG	TAL CHI
Total Recoverable	Prep	3005A			575895	12/08/20 17:57	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	576644	12/11/20 19:11	FXG	TAL CHI
Total Recoverable	Prep	3005A			575895	12/08/20 17:57	BDE	TAL CHI
Total Recoverable	Analysis	6020A		10	577089	12/15/20 15:56	FXG	TAL CHI

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Lab Chronicle

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

Job ID: 500-192070-1

Client Sample ID: Duplicate

Date Collected: 12/07/20 00:00

Date Received: 12/08/20 10:05

Lab Sample ID: 500-192070-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			576172	12/10/20 08:20	MJG	TAL CHI
Total/NA	Analysis	7470A		1	576405	12/11/20 07:47	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	575962	12/09/20 03:17	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		1	576457	12/11/20 15:08	EAT	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	577245	12/16/20 14:32	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		3	576921	12/15/20 14:29	MS	TAL CHI

Client Sample ID: MW-09

Date Collected: 12/08/20 08:42

Date Received: 12/09/20 10:30

Lab Sample ID: 500-192070-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			576150	12/10/20 07:37	LMN	TAL CHI
Total Recoverable	Analysis	6010C		1	576582	12/12/20 00:16	JJB	TAL CHI
Total Recoverable	Prep	3005A			576150	12/10/20 07:37	LMN	TAL CHI
Total Recoverable	Analysis	6020A		1	576866	12/14/20 17:11	FXG	TAL CHI
Total Recoverable	Prep	3005A			576150	12/10/20 07:37	LMN	TAL CHI
Total Recoverable	Analysis	6020A		1	576644	12/11/20 21:41	FXG	TAL CHI
Total Recoverable	Prep	3005A			576150	12/10/20 07:37	LMN	TAL CHI
Total Recoverable	Analysis	6020A		10	577089	12/15/20 17:14	FXG	TAL CHI
Total Recoverable	Prep	3005A			576150	12/10/20 07:37	LMN	TAL CHI
Total Recoverable	Analysis	6020A		1	577089	12/15/20 18:48	FXG	TAL CHI
Total/NA	Prep	7470A			576393	12/11/20 09:10	MJG	TAL CHI
Total/NA	Analysis	7470A		1	576653	12/14/20 07:32	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	576132	12/10/20 02:41	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		1	576457	12/11/20 15:09	EAT	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	577245	12/16/20 14:37	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		5	576921	12/15/20 14:09	MS	TAL CHI

Client Sample ID: MW-11

Date Collected: 12/08/20 09:51

Date Received: 12/09/20 10:30

Lab Sample ID: 500-192070-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			576150	12/10/20 07:37	LMN	TAL CHI
Total Recoverable	Analysis	6010C		1	576582	12/12/20 00:19	JJB	TAL CHI
Total Recoverable	Prep	3005A			576150	12/10/20 07:37	LMN	TAL CHI
Total Recoverable	Analysis	6020A		1	576866	12/14/20 17:13	FXG	TAL CHI
Total Recoverable	Prep	3005A			576150	12/10/20 07:37	LMN	TAL CHI
Total Recoverable	Analysis	6020A		1	576644	12/11/20 21:45	FXG	TAL CHI
Total Recoverable	Prep	3005A			576150	12/10/20 07:37	LMN	TAL CHI
Total Recoverable	Analysis	6020A		5	577089	12/15/20 17:18	FXG	TAL CHI
Total Recoverable	Prep	3005A			576150	12/10/20 07:37	LMN	TAL CHI
Total Recoverable	Analysis	6020A		1	577089	12/15/20 18:52	FXG	TAL CHI

Eurofins TestAmerica, Chicago

Lab Chronicle

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

Job ID: 500-192070-1

Client Sample ID: MW-11

Date Collected: 12/08/20 09:51

Date Received: 12/09/20 10:30

Lab Sample ID: 500-192070-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			576393	12/11/20 09:10	MJG	TAL CHI
Total/NA	Analysis	7470A		1	576653	12/14/20 07:34	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	576132	12/10/20 02:43	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		5	576457	12/11/20 15:38	EAT	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	577245	12/16/20 14:52	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	576921	12/15/20 14:10	MS	TAL CHI

Client Sample ID: MW-12

Date Collected: 12/08/20 11:00

Date Received: 12/09/20 10:30

Lab Sample ID: 500-192070-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			576150	12/10/20 07:37	LMN	TAL CHI
Total Recoverable	Analysis	6010C		1	576582	12/12/20 00:22	JJB	TAL CHI
Total Recoverable	Prep	3005A			576150	12/10/20 07:37	LMN	TAL CHI
Total Recoverable	Analysis	6020A		1	576866	12/14/20 17:15	FXG	TAL CHI
Total Recoverable	Prep	3005A			576150	12/10/20 07:37	LMN	TAL CHI
Total Recoverable	Analysis	6020A		1	576644	12/11/20 21:48	FXG	TAL CHI
Total Recoverable	Prep	3005A			576150	12/10/20 07:37	LMN	TAL CHI
Total Recoverable	Analysis	6020A		1	577089	12/15/20 17:21	FXG	TAL CHI
Total/NA	Prep	7470A			576393	12/11/20 09:10	MJG	TAL CHI
Total/NA	Analysis	7470A		1	576653	12/14/20 07:36	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	576132	12/10/20 02:46	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		5	576457	12/11/20 15:38	EAT	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	577245	12/16/20 14:54	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	576921	12/15/20 14:11	MS	TAL CHI

Client Sample ID: MW-15

Date Collected: 12/08/20 12:03

Date Received: 12/09/20 10:30

Lab Sample ID: 500-192070-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			576150	12/10/20 07:37	LMN	TAL CHI
Total Recoverable	Analysis	6010C		1	576582	12/12/20 00:26	JJB	TAL CHI
Total Recoverable	Prep	3005A			576150	12/10/20 07:37	LMN	TAL CHI
Total Recoverable	Analysis	6020A		1	576866	12/14/20 17:17	FXG	TAL CHI
Total Recoverable	Prep	3005A			576150	12/10/20 07:37	LMN	TAL CHI
Total Recoverable	Analysis	6020A		1	576644	12/11/20 21:52	FXG	TAL CHI
Total Recoverable	Prep	3005A			576150	12/10/20 07:37	LMN	TAL CHI
Total Recoverable	Analysis	6020A		5	577089	12/15/20 17:25	FXG	TAL CHI
Total Recoverable	Prep	3005A			576150	12/10/20 07:37	LMN	TAL CHI
Total Recoverable	Analysis	6020A		1	577089	12/15/20 18:55	FXG	TAL CHI
Total/NA	Prep	7470A			576393	12/11/20 09:10	MJG	TAL CHI
Total/NA	Analysis	7470A		1	576653	12/14/20 07:38	MJG	TAL CHI

Eurofins TestAmerica, Chicago

Lab Chronicle

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

Job ID: 500-192070-1

Client Sample ID: MW-15

Date Collected: 12/08/20 12:03

Date Received: 12/09/20 10:30

Lab Sample ID: 500-192070-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	576132	12/10/20 02:48	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		5	576457	12/11/20 15:39	EAT	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	577245	12/16/20 15:00	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	576921	12/15/20 14:31	MS	TAL CHI

Client Sample ID: MW-08

Date Collected: 12/14/20 10:20

Date Received: 12/15/20 14:40

Lab Sample ID: 500-192070-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			576951	12/15/20 17:29	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	577113	12/16/20 10:41	EEN	TAL CHI
Total Recoverable	Prep	3005A			576951	12/15/20 17:29	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	577145	12/16/20 14:51	FXG	TAL CHI
Total Recoverable	Prep	3005A			576951	12/15/20 17:29	BDE	TAL CHI
Total Recoverable	Analysis	6020A		5	577277	12/16/20 18:35	FXG	TAL CHI
Total/NA	Prep	7470A			577085	12/16/20 09:20	MJG	TAL CHI
Total/NA	Analysis	7470A		1	577293	12/17/20 08:44	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	577212	12/17/20 01:43	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		5	577109	12/16/20 11:38	EAT	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	577245	12/16/20 15:03	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		4	577347	12/17/20 14:47	MS	TAL CHI

Laboratory References:

TAL CHI = Eurofins TestAmerica, 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: 500-192070-1

Laboratory: Eurofins TestAmerica, Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-21

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

2417 Bond Street

Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

University Park, IL 60484-3101
phone 708.534.5200 fax 708.534.5211

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

TestAmerica Laboratories, Inc.

[illegible]

2417 Bond Street

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

University Park, IL 60484-3101
phone 708.534.5200 fax 708.534.5211

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

TestAmerica Laboratories, Inc.

[illegible]

2417 Bond Street

Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

University Park, IL 60484-3101
phone 708.534.5200 fax 708.534.5211

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

TestAmerica Laboratories, Inc.

[illegible]



500-192070 Wayt

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

SHIP DATE: 07DEC20
ACTWGT: 58.00 LB
CAD: 6994780/SSFE2121
DIMS: 23x13x13 IN
BILL THIRD PARTY

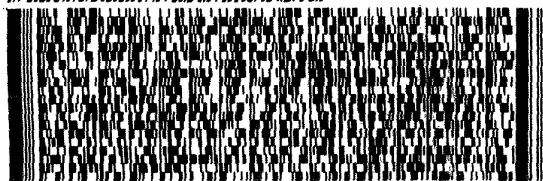
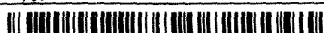
TO: **TEST AMERICA**
TEST AMERICA
2417 BOND ST

UNIVERSITY PARK IL 60484

(000) 000-0000
INV:
PO:

REF:

DEPT:



FedEx
Express



TRK# 7810 2858 7674
0201

TUE - 08 DEC 4:30P
STANDARD OVERNIGHT

XH JOTA

60484
IL-US ORD



ORIGIN ID:PIAA (262) 622-1143
MITCHEL DOLAN

414 PLAZA DR STE
WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 07DEC20
ACTWGT: 56.05 LB
CAD: 6994780/SSFE2121
DIMS: 23x13x13 IN
BILL THIRD PARTY

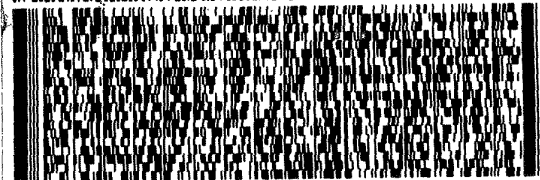
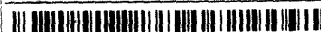
TO: **TEST AMERICA**
TEST AMERICA
2417 BOND ST

UNIVERSITY PARK IL 60484

(000) 000-0000
INV:
PO:

REF:

DEPT:



FedEx
Express

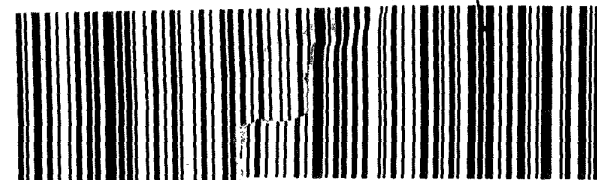


TRK# 7810 2849 2122
0201

TUE - 08 DEC 4:30P
STANDARD OVERNIGHT

XH JOTA

60484
IL-US ORD





500-192070 Wayb

ORIGIN ID:PIAA (262)
MICHEL DOLAN
414 PLAZA DR STE 1
WESTMONT, IL 60555
UNITED STATES US

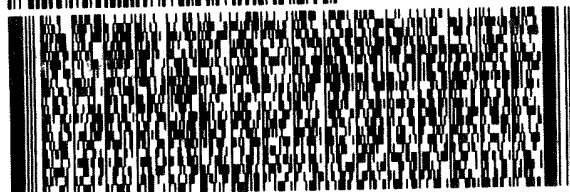
TO TEST AMERICA
TEST AMERICA
2417 BOND ST

UNIVERSITY PARK IL 60484

(708) 534-5200

REF:

DEPT:



FedEx
Express



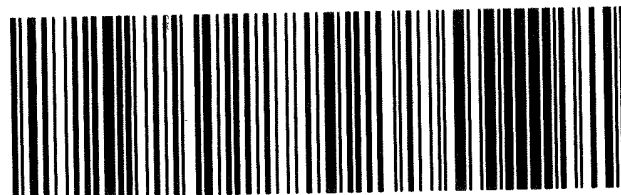
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WED - 09 DEC 4:30P
STANDARD OVERNIGHT

XH JOTA

AHS
60484
IL-US ORD



ORIGIN ID:PIAA (262) 622-1143
MICHEL DOLAN

414 PLAZA DR STE 106

WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 08DEC20
ACTWGT: 47.65 LB
CAD: 6994780/SSFE2121
DIMS: 24x13x13 IN

BILL THIRD PARTY

TO TEST AMERICA
TEST AMERICA
2417 BOND ST

UNIVERSITY PARK IL 60484

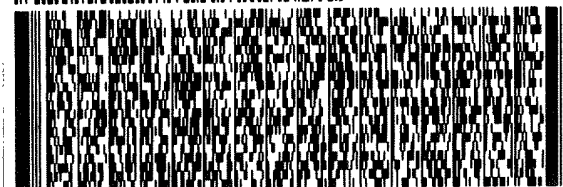
(708) 534-5200

REF:

INU:

PO:

DEPT:



FedEx
Express

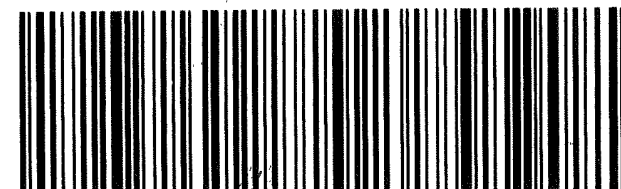


WED - 09 DEC 4:30P
STANDARD OVERNIGHT

TRK# 7810 9406 5380
0201

XH JOTA

AHS
60484
IL-US ORD



ORIGIN ID:PIAA (262) 622-1143
MICHEL DOLAN

414 PLAZA DR STE 106

WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 08DEC20
ACTWTG: 55.95 LB
CAD: 6994780/SSFE2121
DIMS: 24x13x13 IN

BILL THIRD PARTY

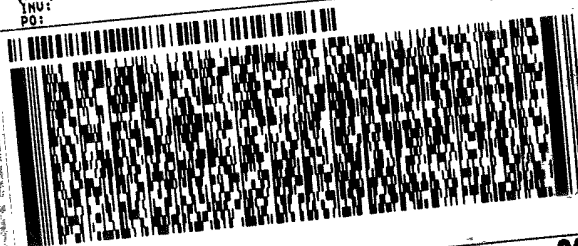
TO TEST AMERICA
TEST AMERICA
2417 BOND ST

UNIVERSITY PARK IL 60484

(708) 534-5200
INU:
PO:

REF:

DEPT:



FedEx
Express



TRK# 7810 9412 0148
0201

XH JOTA

WED - 09 DEC 4:30P
STANDARD OVERNIGHT

48gt 60484
IL-US ORD



ORIGIN ID:PIAA (262) 622-1143
MICHEL DOLAN

414 PLAZA DR STE 106

WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 08DEC20
ACTWTG: 50.75 LB
CAD: 6994780/SSFE2121
DIMS: 24x13x13 IN

BILL THIRD PARTY

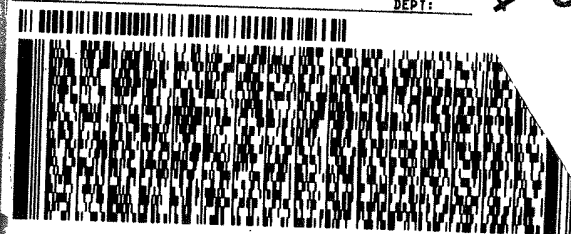
TO TEST AMERICA
TEST AMERICA
2417 BOND ST

UNIVERSITY PARK IL 604

(708) 534-5200
INU:
PO:

REF:

DEPT:



TRK# 7810 9401 8579
0201

XH JOTA

WED - 09 DEC 4:30P
STANDARD OVERNIGHT

48gt 60484
IL-US ORD



ORIGIN ID:PIAA (262) 622-1143
MITCHELL DOLAN

414 PLAZA DR STE 106

WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 14DEC20
ACTWGT: 30.90 LB
CAD: 6994780/SSFE2121
DIMS: 16x10x15 IN

BILL THIRD PARTY

TO TESTAMERICA CHICAGO
TESTAMERICA CHICAGO
2417 BOND ST

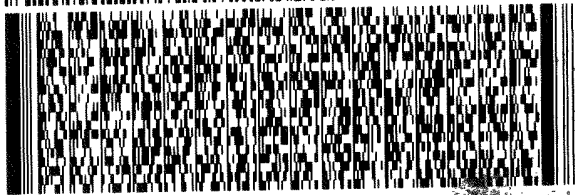
UNIVERSITY PARK IL 60484

(708) 634-5200

REF:

INV:
PO:

DEPT:



FedEx
Express

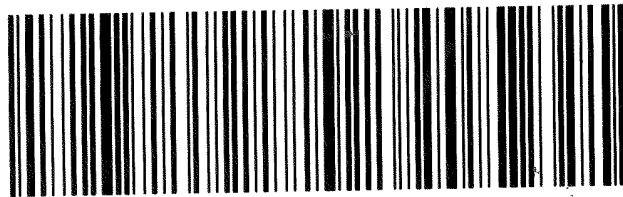


TRK# 7813 8509 4861
0201

TUE - 15 DEC 4:30P
STANDARD OVERNIGHT

XH JOTA

AHS
60484
IL-US ORD



28 qt.



500-192070 Wayb

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-192070-1

Login Number: 192070

List Source: Eurofins TestAmerica, Chicago

List Number: 1

Creator: Scott, Sherri L

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	-0.1,0.3 samples not frozen,-0.7,-0.1,-0.3,0.3,-0.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

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

Laboratory Job ID: 500-192070-2
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:

1/25/2021 10:13:42 AM

Robin Kintz, Project Manager II
(708)534-5200

Robin.Kintz@Eurofinset.com

Designee for

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

Diana.Mockler@Eurofinset.com

LINKS

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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.

Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Method Summary	5
Sample Summary	6
Client Sample Results	7
Definitions	17
QC Association	18
QC Sample Results	20
Chronicle	26
Certification Summary	29
Chain of Custody	30
Receipt Checklists	40
Tracer Carrier Summary	44



Case Narrative

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

Job ID: 500-192070-2

Job ID: 500-192070-2

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative 500-192070-2

Comments

No additional comments.

Receipt

The samples were received on 12/8/2020 10:05 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 7 coolers at receipt time were -0.7° C, -0.4° C, -0.3° C, -0.1° C, -0.1° C, 0.3° C and 0.3° C.

RAD

Method 903.0: Radium-226 prep batch 160-491609:

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. MW-09 (500-192070-6), (LCS 160-491609/1-A), (MB 160-491609/24-A) and (500-192070-G-6-A DU)

Methods 903.0, 9315: Radium-226 prep batch 160-491668:

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-11 (500-192070-7), MW-12 (500-192070-8), MW-15 (500-192070-9), (LCS 160-491668/1-A), (MB 160-491668/13-A) and (500-192070-F-7-A DU)

Methods 903.0, 9315: Radium-226 prep batch 160-491410:

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-19 (500-192070-1), MW-17 (500-192070-2), MW-18 (500-192070-3), MW-01 (500-192070-4), Duplicate (500-192070-5), (LCS 160-491410/1-A), (MB 160-491410/21-A) and (500-192070-G-1-A DU)

Methods 903.0, 9315: 903/9315 Prep batch 492337:

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 (500-192070-10), (LCS 160-492337/1-A), (MB 160-492337/22-A), (500-192056-C-16-A) and (500-192056-D-16-A DU)

Method 904.0: 904 Prep batch 491658:

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

MW-09 (500-192070-6), (LCS 160-491658/1-A), (MB 160-491658/24-A) and (500-192070-G-6-B DU)

Methods 904.0, 9320: 904/9320 prep batch 491413:

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-19 (500-192070-1), MW-17 (500-192070-2), MW-18 (500-192070-3), MW-01 (500-192070-4), Duplicate (500-192070-5), (LCS 160-491413/1-A), (MB 160-491413/21-A) and (500-192070-G-1-B DU)

Method 904.0: Radium-228 prep batch 160-492423:

Case Narrative

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

Job ID: 500-192070-2

Job ID: 500-192070-2 (Continued)

Laboratory: Eurofins TestAmerica, Chicago (Continued)

The Ra-228 detection goal was not met for the following sample due to the presence of matrix interferences: MW-08 (500-192070-10). Analytical results are reported with the detection limit achieved.

Methods 904.0, 9320: Radium-228 prep batch 1600-492423:

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 (500-192070-10), (LCS 160-492423/1-A), (MB 160-492423/22-A), (500-192056-C-16-B) and (500-192056-D-16-B DU)

Methods 904.0, 9320: Radium-228 prep batch 160-495466:

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-11 (500-192070-7), MW-12 (500-192070-8), MW-15 (500-192070-9), (LCS 160-495466/1-A), (MB 160-495466/14-A) and (500-192070-E-8-B DU)

Method PrecSep_0: Radium 228 Prep Batch 160-491720:

The following samples contained a slight yellow discoloration: MW-11 (500-192070-7), MW-12 (500-192070-8), MW-15 (500-192070-9) and (500-192070-F-7 DU).

Method PrecSep_0: Radium 228 Prep Batch 160-492423:

The following sample was prepared at a reduced aliquot due to brown discoloration and heavy sediment levels: MW-08 (500-192070-10).

Method PrecSep_0: Radium 228 Prep batch 160-495466:

The following samples were prepared at a reduced aliquot to insure sufficient volume remains if needed for analysis: MW-11 (500-192070-7), MW-12 (500-192070-8), MW-15 (500-192070-9) and (500-192070-E-8 DU). The following samples had a noticeable sediment level: 500-192070-8, 500-192070-8DU, 500-192070-9. The following sample contained a slight yellow discoloration and a cloudy appearance.

Method PrecSep-21: Radium 226 Prep Batch 160-491668:

The following samples contained a slight yellow discoloration: MW-11 (500-192070-7), MW-12 (500-192070-8), MW-15 (500-192070-9) and (500-192070-F-7 DU).

Method PrecSep-21: Radium 226 Prep Batch 160-492337:

The following sample was prepared at a reduced aliquot due to brown discoloration and heavy sediment levels: MW-08 (500-192070-10).

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: 500-192070-2

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 TestAmerica, 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: 500-192070-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-192070-1	MW-19	Water	12/07/20 10:45	12/08/20 10:05	
500-192070-2	MW-17	Water	12/07/20 11:30	12/08/20 10:05	
500-192070-3	MW-18	Water	12/07/20 12:16	12/08/20 10:05	
500-192070-4	MW-01	Water	12/07/20 12:57	12/08/20 10:05	
500-192070-5	Duplicate	Water	12/07/20 00:00	12/08/20 10:05	
500-192070-6	MW-09	Water	12/08/20 08:42	12/09/20 10:30	
500-192070-7	MW-11	Water	12/08/20 09:51	12/09/20 10:30	
500-192070-8	MW-12	Water	12/08/20 11:00	12/09/20 10:30	
500-192070-9	MW-15	Water	12/08/20 12:03	12/09/20 10:30	
500-192070-10	MW-08	Water	12/14/20 10:20	12/15/20 14:40	

Client Sample Results

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

Job ID: 500-192070-2

Client Sample ID: MW-19

Date Collected: 12/07/20 10:45

Date Received: 12/08/20 10:05

Lab Sample ID: 500-192070-1

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	0.0321	U	0.231	0.231	1.00	0.442	pCi/L	12/10/20 13:06	01/15/21 14:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.8		40 - 110					12/10/20 13:06	01/15/21 14:42	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	0.255	U	0.308	0.309	1.00	0.509	pCi/L	12/10/20 13:42	01/15/21 08:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.8		40 - 110					12/10/20 13:42	01/15/21 08:30	1
Y Carrier	81.5		40 - 110					12/10/20 13:42	01/15/21 08:30	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	0.287	U	0.385	0.386	5.00	0.509	pCi/L		01/18/21 20:59	1

Client Sample Results

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

Job ID: 500-192070-2

Client Sample ID: MW-17

Lab Sample ID: 500-192070-2

Date Collected: 12/07/20 11:30

Matrix: Water

Date Received: 12/08/20 10:05

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0221	U	0.192	0.192	1.00	0.380	pCi/L	12/10/20 13:06	01/15/21 14:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.9		40 - 110					12/10/20 13:06	01/15/21 14:42	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	0.138	U	0.257	0.257	1.00	0.438	pCi/L	12/10/20 13:42	01/15/21 08:32	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.9		40 - 110					12/10/20 13:42	01/15/21 08:32	1
Y Carrier	84.1		40 - 110					12/10/20 13:42	01/15/21 08:32	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	0.160	U	0.321	0.321	5.00	0.438	pCi/L		01/18/21 20:59	1

Client Sample Results

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

Job ID: 500-192070-2

Client Sample ID: MW-18

Date Collected: 12/07/20 12:16

Date Received: 12/08/20 10:05

Lab Sample ID: 500-192070-3

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	-0.215	U	0.197	0.198	1.00	0.475	pCi/L	12/10/20 13:06	01/15/21 14:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.7		40 - 110					12/10/20 13:06	01/15/21 14:42	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	0.429	U	0.316	0.319	1.00	0.497	pCi/L	12/10/20 13:42	01/15/21 08:32	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.7		40 - 110					12/10/20 13:42	01/15/21 08:32	1
Y Carrier	82.2		40 - 110					12/10/20 13:42	01/15/21 08:32	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	0.214	U	0.372	0.375	5.00	0.497	pCi/L		01/18/21 20:59	1

Client Sample Results

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

Job ID: 500-192070-2

Client Sample ID: MW-01

Lab Sample ID: 500-192070-4

Date Collected: 12/07/20 12:57

Matrix: Water

Date Received: 12/08/20 10:05

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.198	U	0.209	0.209	1.00	0.328	pCi/L	12/10/20 13:06	01/15/21 14:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.4		40 - 110					12/10/20 13:06	01/15/21 14:42	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	0.526		0.330	0.334	1.00	0.506	pCi/L	12/10/20 13:42	01/15/21 08:32	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.4		40 - 110					12/10/20 13:42	01/15/21 08:32	1
Y Carrier	80.7		40 - 110					12/10/20 13:42	01/15/21 08:32	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	0.724		0.391	0.394	5.00	0.506	pCi/L		01/18/21 20:59	1

Client Sample Results

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

Job ID: 500-192070-2

Client Sample ID: Duplicate

Lab Sample ID: 500-192070-5

Date Collected: 12/07/20 00:00

Matrix: Water

Date Received: 12/08/20 10:05

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0785	U	0.186	0.186	1.00	0.341	pCi/L	12/10/20 13:06	01/15/21 14:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.2		40 - 110					12/10/20 13:06	01/15/21 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	0.128	U	0.276	0.277	1.00	0.473	pCi/L	12/10/20 13:42	01/15/21 08:33	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.2		40 - 110					12/10/20 13:42	01/15/21 08:33	1
Y Carrier	83.7		40 - 110					12/10/20 13:42	01/15/21 08:33	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	0.206	U	0.333	0.334	5.00	0.473	pCi/L		01/18/21 20:59	1

Client Sample Results

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

Job ID: 500-192070-2

Client Sample ID: MW-09

Date Collected: 12/08/20 08:42

Date Received: 12/09/20 10:30

Lab Sample ID: 500-192070-6

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	-0.0153	U	0.205	0.205	1.00	0.407	pCi/L	12/11/20 16:10	01/13/21 21:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.2		40 - 110					12/11/20 16:10	01/13/21 21:59	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	0.425	U	0.305	0.308	1.00	0.479	pCi/L	12/14/20 08:58	01/13/21 13:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.2		40 - 110					12/14/20 08:58	01/13/21 13:20	1
Y Carrier	84.9		40 - 110					12/14/20 08:58	01/13/21 13:20	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	0.425	U	0.367	0.370	5.00	0.479	pCi/L		01/15/21 21:27	1

Client Sample Results

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

Job ID: 500-192070-2

Client Sample ID: MW-11

Lab Sample ID: 500-192070-7

Date Collected: 12/08/20 09:51

Matrix: Water

Date Received: 12/09/20 10:30

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.151	U	0.185	0.186	1.00	0.305	pCi/L	12/14/20 11:35	01/15/21 16:45	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.4		40 - 110					12/14/20 11:35	01/15/21 16:45	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	0.291	U	0.319	0.320	1.00	0.523	pCi/L	01/18/21 08:52	01/21/21 08:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.5		40 - 110					01/18/21 08:52	01/21/21 08:47	1
Y Carrier	89.7		40 - 110					01/18/21 08:52	01/21/21 08:47	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	0.442	U	0.369	0.370	5.00	0.523	pCi/L		01/22/21 21:47	1

Client Sample Results

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

Job ID: 500-192070-2

Client Sample ID: MW-12

Lab Sample ID: 500-192070-8

Date Collected: 12/08/20 11:00

Matrix: Water

Date Received: 12/09/20 10:30

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.302	U	0.296	0.297	1.00	0.467	pCi/L	12/14/20 11:35	01/15/21 16:46	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	71.6		40 - 110					12/14/20 11:35	01/15/21 16:46	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	0.146	U	0.279	0.279	1.00	0.476	pCi/L	01/18/21 08:52	01/21/21 08:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.2		40 - 110					01/18/21 08:52	01/21/21 08:48	1
Y Carrier	93.5		40 - 110					01/18/21 08:52	01/21/21 08:48	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	0.447	U	0.407	0.407	5.00	0.476	pCi/L		01/22/21 21:47	1

Client Sample Results

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

Job ID: 500-192070-2

Client Sample ID: MW-15

Date Collected: 12/08/20 12:03

Date Received: 12/09/20 10:30

Lab Sample ID: 500-192070-9

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	0.318	U	0.227	0.229	1.00	0.319	pCi/L	12/14/20 11:35	01/15/21 16:46	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.1		40 - 110					12/14/20 11:35	01/15/21 16:46	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	0.308	U	0.340	0.341	1.00	0.557	pCi/L	01/18/21 08:52	01/21/21 08:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.6		40 - 110					01/18/21 08:52	01/21/21 08:48	1
Y Carrier	92.3		40 - 110					01/18/21 08:52	01/21/21 08:48	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	0.626		0.409	0.411	5.00	0.557	pCi/L		01/22/21 21:47	1

Client Sample Results

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

Job ID: 500-192070-2

Client Sample ID: MW-08

Lab Sample ID: 500-192070-10

Date Collected: 12/14/20 10:20

Matrix: Water

Date Received: 12/15/20 14:40

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.304	U	0.402	0.403	1.00	0.672	pCi/L	12/18/20 08:45	01/18/21 14:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	69.1		40 - 110					12/18/20 08:45	01/18/21 14:17	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	1.01	U G	0.701	0.707	1.00	1.09	pCi/L	12/18/20 09:31	01/18/21 08:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	69.1		40 - 110					12/18/20 09:31	01/18/21 08:24	1
Y Carrier	81.9		40 - 110					12/18/20 09:31	01/18/21 08:24	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	1.31		0.808	0.814	5.00	1.09	pCi/L		01/19/21 21:00	1

Definitions/Glossary

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

Job ID: 500-192070-2

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

Job ID: 500-192070-2

Rad

Prep Batch: 491410

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192070-1	MW-19	Total/NA	Water	PrecSep-21	
500-192070-2	MW-17	Total/NA	Water	PrecSep-21	
500-192070-3	MW-18	Total/NA	Water	PrecSep-21	
500-192070-4	MW-01	Total/NA	Water	PrecSep-21	
500-192070-5	Duplicate	Total/NA	Water	PrecSep-21	
MB 160-491410/21-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-491410/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-192070-1 DU	MW-19	Total/NA	Water	PrecSep-21	

Prep Batch: 491413

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192070-1	MW-19	Total/NA	Water	PrecSep_0	
500-192070-2	MW-17	Total/NA	Water	PrecSep_0	
500-192070-3	MW-18	Total/NA	Water	PrecSep_0	
500-192070-4	MW-01	Total/NA	Water	PrecSep_0	
500-192070-5	Duplicate	Total/NA	Water	PrecSep_0	
MB 160-491413/21-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-491413/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-192070-1 DU	MW-19	Total/NA	Water	PrecSep_0	

Prep Batch: 491609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192070-6	MW-09	Total/NA	Water	PrecSep-21	
MB 160-491609/24-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-491609/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-192070-6 DU	MW-09	Total/NA	Water	PrecSep-21	

Prep Batch: 491658

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192070-6	MW-09	Total/NA	Water	PrecSep_0	
MB 160-491658/24-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-491658/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-192070-6 DU	MW-09	Total/NA	Water	PrecSep_0	

Prep Batch: 491668

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192070-7	MW-11	Total/NA	Water	PrecSep-21	
500-192070-8	MW-12	Total/NA	Water	PrecSep-21	
500-192070-9	MW-15	Total/NA	Water	PrecSep-21	
MB 160-491668/13-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-491668/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-192070-7 DU	MW-11	Total/NA	Water	PrecSep-21	

Prep Batch: 492337

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192070-10	MW-08	Total/NA	Water	PrecSep-21	
MB 160-492337/22-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-492337/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

QC Association Summary

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

Job ID: 500-192070-2

Rad

Prep Batch: 492423

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192070-10	MW-08	Total/NA	Water	PrecSep_0	
MB 160-492423/22-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-492423/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Prep Batch: 495466

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-192070-7	MW-11	Total/NA	Water	PrecSep_0	
500-192070-8	MW-12	Total/NA	Water	PrecSep_0	
500-192070-9	MW-15	Total/NA	Water	PrecSep_0	
MB 160-495466/14-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-495466/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-192070-8 DU	MW-12	Total/NA	Water	PrecSep_0	

QC Sample Results

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

Job ID: 500-192070-2

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-491410/21-A

Matrix: Water

Analysis Batch: 495354

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 491410

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.07145	U	0.210	0.210	1.00	0.390	pCi/L	12/10/20 13:06	01/15/21 14:49	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.4		40 - 110					12/10/20 13:06	01/15/21 14:49	1

Lab Sample ID: LCS 160-491410/1-A

Matrix: Water

Analysis Batch: 495352

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 491410

Analyte		Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-226		11.3	12.40		1.57	1.00	0.400	pCi/L	109	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits							
Ba Carrier	77.4		40 - 110							

Lab Sample ID: 500-192070-1 DU

Matrix: Water

Analysis Batch: 495352

Client Sample ID: MW-19

Prep Type: Total/NA

Prep Batch: 491410

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-226	0.0321	U	-0.03964	U	0.239	1.00	0.481	pCi/L	0.15	1
Carrier	DU %Yield	DU Qualifier	Limits							
Ba Carrier	77.4		40 - 110							

Lab Sample ID: MB 160-491609/24-A

Matrix: Water

Analysis Batch: 494923

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 491609

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.1767	U	0.187	0.188	1.00	0.293	pCi/L	12/11/20 16:10	01/13/21 22:02	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	75.5		40 - 110					12/11/20 16:10	01/13/21 22:02	1

Lab Sample ID: LCS 160-491609/1-A

Matrix: Water

Analysis Batch: 494940

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 491609

Analyte		Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-226		11.3	11.29		1.47	1.00	0.453	pCi/L	100	75 - 125

Eurofins TestAmerica, Chicago

QC Sample Results

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

Job ID: 500-192070-2

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

Lab Sample ID: LCS 160-491609/1-A
Matrix: Water
Analysis Batch: 494940

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 491609

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	87.5		40 - 110

Lab Sample ID: 500-192070-6 DU
Matrix: Water
Analysis Batch: 494923

Client Sample ID: MW-09
Prep Type: Total/NA
Prep Batch: 491609

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-226	-0.0153	U	0.1834	U	0.178	1.00	0.272	pCi/L	0.52	1
Carrier	%Yield	Qualifier	Limits							
Ba Carrier	89.0		40 - 110							

Lab Sample ID: MB 160-491668/13-A
Matrix: Water
Analysis Batch: 495357

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 491668

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.1790	U	0.189	0.190	1.00	0.299	pCi/L	12/14/20 11:35	01/15/21 16:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.0		40 - 110					12/14/20 11:35	01/15/21 16:50	1

Lab Sample ID: LCS 160-491668/1-A
Matrix: Water
Analysis Batch: 495357

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 491668

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-226	11.3	9.968		1.32	1.00	0.302	pCi/L	88	75 - 125
Carrier	%Yield	Qualifier	Limits						
Ba Carrier	85.3		40 - 110						

Lab Sample ID: 500-192070-7 DU
Matrix: Water
Analysis Batch: 495357

Client Sample ID: MW-11
Prep Type: Total/NA
Prep Batch: 491668

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-226	0.151	U	0.3039	U	0.225	1.00	0.316	pCi/L	0.37	1
Carrier	%Yield	Qualifier	Limits							
Ba Carrier	90.2		40 - 110							

Eurofins TestAmerica, Chicago

QC Sample Results

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

Job ID: 500-192070-2

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

Lab Sample ID: MB 160-492337/22-A
Matrix: Water
Analysis Batch: 495565

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 492337

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.09722	U	0.157	0.157	1.00	0.275	pCi/L	12/18/20 08:45	01/18/21 16:53	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.9		40 - 110					12/18/20 08:45	01/18/21 16:53	1

Lab Sample ID: LCS 160-492337/1-A
Matrix: Water
Analysis Batch: 495565

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 492337

Analyte		Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-226		11.3	10.56		1.38	1.00	0.310	pCi/L	93	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits							
Ba Carrier	84.1		40 - 110							

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-491413/21-A
Matrix: Water
Analysis Batch: 495354

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 491413

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.3109	U	0.279	0.280	1.00	0.448	pCi/L	12/10/20 13:42	01/15/21 08:37	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.4		40 - 110					12/10/20 13:42	01/15/21 08:37	1
Y Carrier	85.2		40 - 110					12/10/20 13:42	01/15/21 08:37	1

Lab Sample ID: LCS 160-491413/1-A
Matrix: Water
Analysis Batch: 495352

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 491413

Analyte		Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228		7.50	8.975		1.12	1.00	0.505	pCi/L	120	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits							
Ba Carrier	77.4		40 - 110							
Y Carrier	83.4		40 - 110							

QC Sample Results

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

Job ID: 500-192070-2

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

Lab Sample ID: 500-192070-1 DU
Matrix: Water
Analysis Batch: 495352

Client Sample ID: MW-19
Prep Type: Total/NA
Prep Batch: 491413

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	Limit
Radium-228	0.255	U	0.008198	U	0.310	1.00	0.549	pCi/L	0.40	1
DU DU										
Carrier	%Yield	Qualifier	Limits							
Ba Carrier	77.4		40 - 110							
Y Carrier	82.6		40 - 110							

Lab Sample ID: MB 160-491658/24-A
Matrix: Water
Analysis Batch: 494940

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 491658

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.2324	U	0.289	0.289	1.00	0.478	pCi/L	12/14/20 08:58	01/13/21 13:20	1
MB MB										
Carrier	%Yield	Qualifier	Limits							
Ba Carrier	75.5		40 - 110							
Y Carrier	85.6		40 - 110							
								Prepared	Analyzed	Dil Fac
								12/14/20 08:58	01/13/21 13:20	1
								12/14/20 08:58	01/13/21 13:20	1

Lab Sample ID: LCS 160-491658/1-A
Matrix: Water
Analysis Batch: 494939

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 491658

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	7.51	7.387		0.944	1.00	0.461	pCi/L	98	75 - 125
LCS LCS									
Carrier	%Yield	Qualifier	Limits						
Ba Carrier	87.5		40 - 110						
Y Carrier	83.0		40 - 110						

Lab Sample ID: 500-192070-6 DU
Matrix: Water
Analysis Batch: 494940

Client Sample ID: MW-09
Prep Type: Total/NA
Prep Batch: 491658

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	Limit
Radium-228	0.425	U	0.3739	U	0.282	1.00	0.440	pCi/L	0.09	1
DU DU										
Carrier	%Yield	Qualifier	Limits							
Ba Carrier	89.0		40 - 110							
Y Carrier	84.1		40 - 110							

QC Sample Results

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

Job ID: 500-192070-2

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

Lab Sample ID: MB 160-492423/22-A

Matrix: Water

Analysis Batch: 495477

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 492423

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.1665	U	0.225	0.226	1.00	0.376	pCi/L	12/18/20 09:31	01/18/21 08:29	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.9		40 - 110					12/18/20 09:31	01/18/21 08:29	1
Y Carrier	92.0		40 - 110					12/18/20 09:31	01/18/21 08:29	1

Lab Sample ID: LCS 160-492423/1-A

Matrix: Water

Analysis Batch: 495520

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 492423

Analyte		Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228		7.49	8.465		1.05	1.00	0.477	pCi/L	113	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits							
Ba Carrier	84.1		40 - 110							
Y Carrier	79.3		40 - 110							

Lab Sample ID: MB 160-495466/14-A

Matrix: Water

Analysis Batch: 496078

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 495466

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.1706	U	0.283	0.284	1.00	0.481	pCi/L	01/18/21 08:52	01/21/21 08:54	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.8		40 - 110					01/18/21 08:52	01/21/21 08:54	1
Y Carrier	95.0		40 - 110					01/18/21 08:52	01/21/21 08:54	1

Lab Sample ID: LCS 160-495466/1-A

Matrix: Water

Analysis Batch: 496073

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 495466

Analyte		Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228		9.98	9.708		1.24	1.00	0.612	pCi/L	97	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits							
Ba Carrier	82.6		40 - 110							
Y Carrier	89.7		40 - 110							

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QC Sample Results

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

Job ID: 500-192070-2

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

Lab Sample ID: 500-192070-8 DU
Matrix: Water
Analysis Batch: 496073

Client Sample ID: MW-12
Prep Type: Total/NA
Prep Batch: 495466

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-228	0.146	U	0.2712	U	0.342	1.00	0.565	pCi/L	0.20	1
Carrier	%Yield	DU Qualifier	Limits							
Ba Carrier	87.2		40 - 110							
Y Carrier	92.7		40 - 110							

Lab Chronicle

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

Job ID: 500-192070-2

Client Sample ID: MW-19

Date Collected: 12/07/20 10:45

Date Received: 12/08/20 10:05

Lab Sample ID: 500-192070-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			491410	12/10/20 13:06	KMP	TAL SL
Total/NA	Analysis	903.0		1	495352	01/15/21 14:42	SCB	TAL SL
Total/NA	Prep	PrecSep_0			491413	12/10/20 13:42	KMP	TAL SL
Total/NA	Analysis	904.0		1	495352	01/15/21 08:30	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	495582	01/18/21 20:59	GRW	TAL SL

Client Sample ID: MW-17

Date Collected: 12/07/20 11:30

Date Received: 12/08/20 10:05

Lab Sample ID: 500-192070-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			491410	12/10/20 13:06	KMP	TAL SL
Total/NA	Analysis	903.0		1	495352	01/15/21 14:42	SCB	TAL SL
Total/NA	Prep	PrecSep_0			491413	12/10/20 13:42	KMP	TAL SL
Total/NA	Analysis	904.0		1	495352	01/15/21 08:32	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	495582	01/18/21 20:59	GRW	TAL SL

Client Sample ID: MW-18

Date Collected: 12/07/20 12:16

Date Received: 12/08/20 10:05

Lab Sample ID: 500-192070-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			491410	12/10/20 13:06	KMP	TAL SL
Total/NA	Analysis	903.0		1	495352	01/15/21 14:42	SCB	TAL SL
Total/NA	Prep	PrecSep_0			491413	12/10/20 13:42	KMP	TAL SL
Total/NA	Analysis	904.0		1	495352	01/15/21 08:32	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	495582	01/18/21 20:59	GRW	TAL SL

Client Sample ID: MW-01

Date Collected: 12/07/20 12:57

Date Received: 12/08/20 10:05

Lab Sample ID: 500-192070-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			491410	12/10/20 13:06	KMP	TAL SL
Total/NA	Analysis	903.0		1	495352	01/15/21 14:42	SCB	TAL SL
Total/NA	Prep	PrecSep_0			491413	12/10/20 13:42	KMP	TAL SL
Total/NA	Analysis	904.0		1	495352	01/15/21 08:32	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	495582	01/18/21 20:59	GRW	TAL SL

Lab Chronicle

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

Job ID: 500-192070-2

Client Sample ID: Duplicate

Lab Sample ID: 500-192070-5

Date Collected: 12/07/20 00:00

Matrix: Water

Date Received: 12/08/20 10:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			491410	12/10/20 13:06	KMP	TAL SL
Total/NA	Analysis	903.0		1	495352	01/15/21 14:43	SCB	TAL SL
Total/NA	Prep	PrecSep_0			491413	12/10/20 13:42	KMP	TAL SL
Total/NA	Analysis	904.0		1	495352	01/15/21 08:33	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	495582	01/18/21 20:59	GRW	TAL SL

Client Sample ID: MW-09

Lab Sample ID: 500-192070-6

Date Collected: 12/08/20 08:42

Matrix: Water

Date Received: 12/09/20 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			491609	12/11/20 16:10	KMP	TAL SL
Total/NA	Analysis	903.0		1	494940	01/13/21 21:59	SCB	TAL SL
Total/NA	Prep	PrecSep_0			491658	12/14/20 08:58	KMP	TAL SL
Total/NA	Analysis	904.0		1	494940	01/13/21 13:20	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	495359	01/15/21 21:27	GRW	TAL SL

Client Sample ID: MW-11

Lab Sample ID: 500-192070-7

Date Collected: 12/08/20 09:51

Matrix: Water

Date Received: 12/09/20 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			491668	12/14/20 11:35	KMP	TAL SL
Total/NA	Analysis	903.0		1	495357	01/15/21 16:45	SCB	TAL SL
Total/NA	Prep	PrecSep_0			495466	01/18/21 08:52	KMP	TAL SL
Total/NA	Analysis	904.0		1	496073	01/21/21 08:47	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	496298	01/22/21 21:47	GRW	TAL SL

Client Sample ID: MW-12

Lab Sample ID: 500-192070-8

Date Collected: 12/08/20 11:00

Matrix: Water

Date Received: 12/09/20 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			491668	12/14/20 11:35	KMP	TAL SL
Total/NA	Analysis	903.0		1	495357	01/15/21 16:46	SCB	TAL SL
Total/NA	Prep	PrecSep_0			495466	01/18/21 08:52	KMP	TAL SL
Total/NA	Analysis	904.0		1	496073	01/21/21 08:48	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	496298	01/22/21 21:47	GRW	TAL SL

Lab Chronicle

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

Job ID: 500-192070-2

Client Sample ID: MW-15

Date Collected: 12/08/20 12:03

Date Received: 12/09/20 10:30

Lab Sample ID: 500-192070-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			491668	12/14/20 11:35	KMP	TAL SL
Total/NA	Analysis	903.0		1	495357	01/15/21 16:46	SCB	TAL SL
Total/NA	Prep	PrecSep_0			495466	01/18/21 08:52	KMP	TAL SL
Total/NA	Analysis	904.0		1	496073	01/21/21 08:48	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	496298	01/22/21 21:47	GRW	TAL SL

Client Sample ID: MW-08

Date Collected: 12/14/20 10:20

Date Received: 12/15/20 14:40

Lab Sample ID: 500-192070-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			492337	12/18/20 08:45	KMP	TAL SL
Total/NA	Analysis	903.0		1	495565	01/18/21 14:17	FLC	TAL SL
Total/NA	Prep	PrecSep_0			492423	12/18/20 09:31	KMP	TAL SL
Total/NA	Analysis	904.0		1	495520	01/18/21 08:24	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	495709	01/19/21 21:00	GRW	TAL SL

Laboratory References:

TAL SL = Eurofins TestAmerica, 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: 500-192070-2

Laboratory: Eurofins TestAmerica, St. Louis

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	004553	11-30-21

1

2

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10

11

12

13

14

TestAmerica Chicago

2417 Bond Street

University Park, IL 60484-3101
phone 708.534.5200 fax 708.534.5211

Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

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

Client Contact KPRG and Associates, Inc. 14665 West Lisbon Road, Suite 1A Brookfield, WI 53154 (262) 781-0475 Phone (262) 781-0478 FAX Project Name: Powerton CCR Site: Powerton Station - Pekin, IL P O # 12313.0		Project Manager: Rich Gnat /Fax: (262) 781-0475 Analysis Turnaround Time CALENDAR DAYS ☐ WORKING DAYS TAT if different from Below ☐ 2 weeks ☒ 1 week ☐ 2 days ☐ 1 day		Site Contact: Mitchel Dolan Lab Contact: Diana Mockler Date: 12/7/20 Carrier: FedEx		COC No: _____ of _____ COCs Sampler: _____ For Lab Use Only: Walk-in Client: _____ Lab Sampling: _____ Job / SDG No.: 500-192070											
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	903.0, 904.0 Radium - 226/228 6010C, 6020A, 7470A - Total Metals 2540C - TDS 4500_F_C - Fluoride SM4500_Cl_E - Chloride SM4500_SO4_E - Sulfate								
1 MW-19		12/7	1045	G	W	7	N	N	X	X	X	X	X	X			
2 MW-17		12/7	1130														
3 MW-18		12/7	1216														
4 MW-01		12/7	1257														
5 DUPLICATE		12/7	-														
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other									4	4	1	1	1	1			
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample. ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown									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 & Comments: Lab Project #50011612. Appendix III Parameters and Custom Appendix IV ABB/ASB Metals; As, Ba, Cd, Co, Pb, Li, Hg, Mo, Se, TI																	
Custody Seals Intact: ☐ Yes ☐ No		Custody Seal No.: _____		Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ Therm ID No.: _____													
Relinquished by: Mitchel Dolan <i>MPD</i>		Company: KPRG		Date/Time: 12/7/20/1600		Received by: FedEx		Company:		Date/Time: 12/7/20 / 1600							
Relinquished by:		Company:		Date/Time:		Received by:		Company:		Date/Time:							
Relinquished by:		Company:		Date/Time:		Received in Laboratory by: <i>John Scott</i>		Company: <i>TestAmerica</i>		Date/Time: 12/8/20 1005							

Form No. CA-C-WF-002, Rev. 4.18, dated 9/5/2018

2417 Bond Street

Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

University Park, IL 60484-3101
phone 708.534.5200 fax 708.534.5211

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

TestAmerica Laboratories, Inc.

[illegible]

2417 Bond Street

Chain of Custody Record

TestAmerica

University Park, IL 60484-3101
phone 708.534.5200 fax 708.534.5211

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

TestAmerica Laboratories, Inc.

[illegible]



500-192070 Wayt

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

SHIP DATE: 07DEC20
ACTWGT: 58.00 LB
CAD: 6994780/SSFE2121
DIMS: 23x13x13 IN
BILL THIRD PARTY

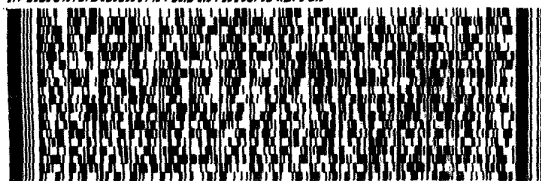
TO: **TEST AMERICA**
TEST AMERICA
2417 BOND ST

UNIVERSITY PARK IL 60484

(000) 000-0000
INV:
PO:

REF:

DEPT:



FedEx
Express



TRK# 7810 2858 7674
0201

TUE - 08 DEC 4:30P
STANDARD OVERNIGHT

XH JOTA

489t 60484
IL-US ORD



ORIGIN ID:PIAA (262) 622-1143
MITCHEL DOLAN

414 PLAZA DR STE

WESTMONT, IL 60559
UNITED STATES US

TO: **TEST AMERICA**
TEST AMERICA
2417 BOND ST

UNIVERSITY PARK IL 60484

(000) 000-0000

REF:

INV:

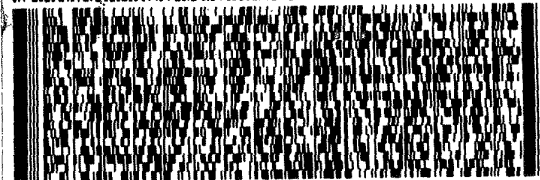
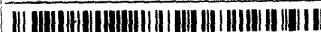
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DEPT:

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BILL THIRD PARTY

Part # 156297 466/868/655 P 07/21



FedEx
Express

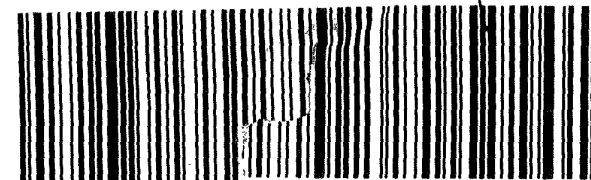


TUE - 08 DEC 4:30P
STANDARD OVERNIGHT

TRK# 7810 2849 2122
0201

XH JOTA

489t 60484
IL-US ORD





500-192070 Wayb

ORIGIN ID:PIAA (262)
MICHEL DOLAN
414 PLAZA DR STE 1
WESTMONT, IL 60555
UNITED STATES US

DATE: 08DEC20
WT: 47.05 LB
: 6994780/SSFE2121
MS: 24x13x13 IN

BILL THIRD PARTY

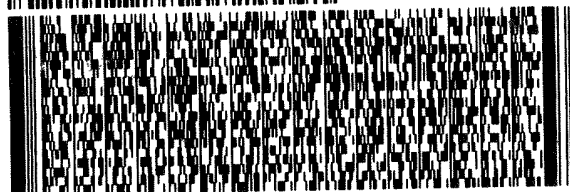
TO TEST AMERICA
TEST AMERICA
2417 BOND ST

UNIVERSITY PARK IL 60484

(708) 534-5200

REF:

DEPT:



FedEx
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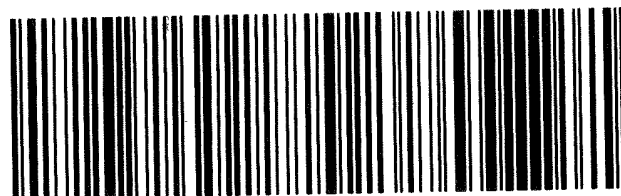


WED - 09 DEC 4:30P
STANDARD OVERNIGHT

TRK# 7810 9394 9977
0201

XH JOTA

AHS
60484
IL-US ORD



ORIGIN ID:PIAA (262) 622-1143
MICHEL DOLAN

414 PLAZA DR STE 106

WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 08DEC20
ACTWGT: 47.65 LB
CAD: 6994780/SSFE2121
DIMS: 24x13x13 IN

BILL THIRD PARTY

TO TEST AMERICA
TEST AMERICA
2417 BOND ST

UNIVERSITY PARK IL 60484

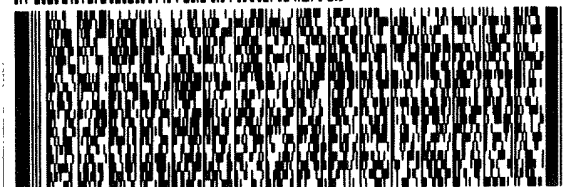
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REF:

INU:

PD:

DEPT:



FedEx
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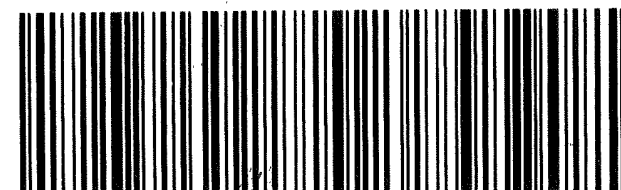


WED - 09 DEC 4:30P
STANDARD OVERNIGHT

TRK# 7810 9406 5380
0201

XH JOTA

AHS
60484
IL-US ORD



ORIGIN ID:PIAA (262) 622-1143
MICHEL DOLAN

414 PLAZA DR STE 106

WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 08DEC20
ACTWTG: 55.95 LB
CAD: 6994780/SSFE2121
DIMS: 24x13x13 IN

BILL THIRD PARTY

TO TEST AMERICA
TEST AMERICA
2417 BOND ST

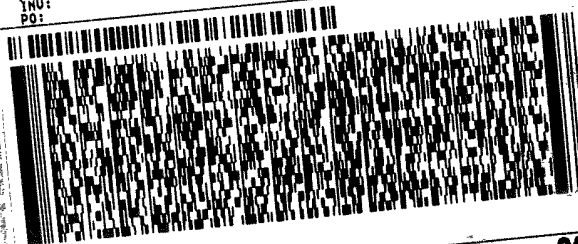
UNIVERSITY PARK IL 60484

(708) 534-5200

REF:

DEPT:

INU:
PO:



FedEx
Express



TRK# 7810 9412 0148
0201

XH JOTA

WED - 09 DEC 4:30P
STANDARD OVERNIGHT

48gt 60484
IL-US ORD



ORIGIN ID:PIAA (262) 622-1143
MICHEL DOLAN

414 PLAZA DR STE 106

WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 08DEC20
ACTWTG: 50.75 LB
CAD: 6994780/SSFE2121
DIMS: 24x13x13 IN

BILL THIRD PARTY

TO TEST AMERICA
TEST AMERICA
2417 BOND ST

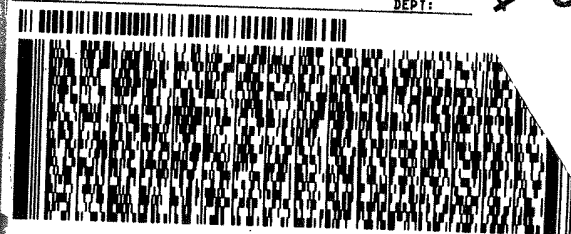
UNIVERSITY PARK IL 604

(708) 534-5200

REF:

DEPT:

INU:
PO:



TRK# 7810 9401 8579
0201

XH JOTA

WED - 09 DEC 4:30P
STANDARD OVERNIGHT

48gt 60484
IL-US ORD



ORIGIN ID:PIAA (262) 622-1143
MITCHELL DOLAN

414 PLAZA DR STE 106

WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 14DEC20
ACTWGT: 30.90 LB
CAD: 6994780/SSFE2121
DIMS: 16x10x15 IN

BILL THIRD PARTY

TO TESTAMERICA CHICAGO
TESTAMERICA CHICAGO
2417 BOND ST

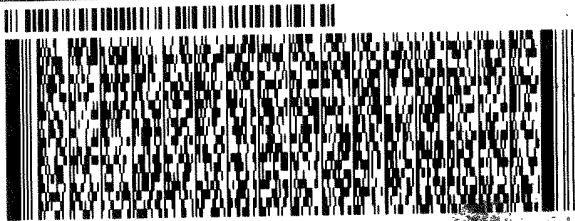
UNIVERSITY PARK IL 60484

(708) 634-5200

REF:

INV:
PO:

DEPT:



FedEx
Express

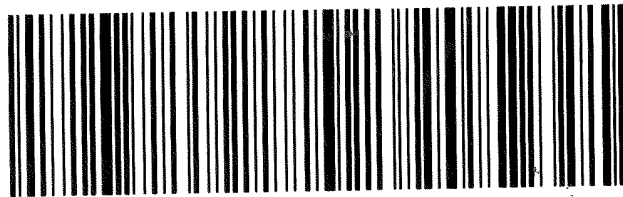


TRK# 7813 8509 4861
0201

TUE - 15 DEC 4:30P
STANDARD OVERNIGHT

XH JOTA

AHS
60484
IL-US ORD

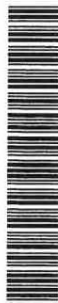


28 qt.



500-192070 Wayb

[illegible]

[illegible]

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-192070-2

Login Number: 192070

List Source: Eurofins TestAmerica, Chicago

List Number: 1

Creator: Scott, Sherri L

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	-0.1,0.3 samples not frozen,-0.7,-0.1,-0.3,0.3,-0.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	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: 500-192070-2

Login Number: 192070

List Number: 2

Creator: O'Gara, Mallory L

List Source: Eurofins TestAmerica, St. Louis

List Creation: 12/09/20 01:04 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.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-192070-2

Login Number: 192070

List Number: 3

Creator: O'Gara, Mallory L

List Source: Eurofins TestAmerica, St. Louis

List Creation: 12/10/20 02:19 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.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-192070-2

Login Number: 192070

List Number: 4

Creator: O'Gara, Mallory L

List Source: Eurofins TestAmerica, St. Louis

List Creation: 12/17/20 01:13 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.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Tracer/Carrier Summary

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

Job ID: 500-192070-2

Method: 903.0 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)							
		Ba							
Lab Sample ID	Client Sample ID	(40-110)							
500-192070-1	MW-19	76.8							
500-192070-1 DU	MW-19	77.4							
500-192070-2	MW-17	79.9							
500-192070-3	MW-18	79.7							
500-192070-4	MW-01	77.4							
500-192070-5	Duplicate	84.2							
500-192070-6	MW-09	90.2							
500-192070-6 DU	MW-09	89.0							
500-192070-7	MW-11	88.4							
500-192070-7 DU	MW-11	90.2							
500-192070-8	MW-12	71.6							
500-192070-9	MW-15	91.1							
500-192070-10	MW-08	69.1							
LCS 160-491410/1-A	Lab Control Sample	77.4							
LCS 160-491609/1-A	Lab Control Sample	87.5							
LCS 160-491668/1-A	Lab Control Sample	85.3							
LCS 160-492337/1-A	Lab Control Sample	84.1							
MB 160-491410/21-A	Method Blank	85.4							
MB 160-491609/24-A	Method Blank	75.5							
MB 160-491668/13-A	Method Blank	89.0							
MB 160-492337/22-A	Method Blank	86.9							
Tracer/Carrier Legend									
Ba = Ba Carrier									

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)					
		Ba	Y				
Lab Sample ID	Client Sample ID	(40-110)	(40-110)				
500-192070-1	MW-19	76.8	81.5				
500-192070-1 DU	MW-19	77.4	82.6				
500-192070-2	MW-17	79.9	84.1				
500-192070-3	MW-18	79.7	82.2				
500-192070-4	MW-01	77.4	80.7				
500-192070-5	Duplicate	84.2	83.7				
500-192070-6	MW-09	90.2	84.9				
500-192070-6 DU	MW-09	89.0	84.1				
500-192070-7	MW-11	94.5	89.7				
500-192070-8	MW-12	90.2	93.5				
500-192070-8 DU	MW-12	87.2	92.7				
500-192070-9	MW-15	85.6	92.3				
500-192070-10	MW-08	69.1	81.9				
LCS 160-491413/1-A	Lab Control Sample	77.4	83.4				
LCS 160-491658/1-A	Lab Control Sample	87.5	83.0				
LCS 160-492423/1-A	Lab Control Sample	84.1	79.3				
LCS 160-495466/1-A	Lab Control Sample	82.6	89.7				
MB 160-491413/21-A	Method Blank	85.4	85.2				
MB 160-491658/24-A	Method Blank	75.5	85.6				

Eurofins TestAmerica, Chicago

Tracer/Carrier Summary

Client: KPRG and Associates, Inc.

Job ID: 500-192070-2

Project/Site: Powerton CCR

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

Matrix: Water

Prep Type: Total/NA

Percent Yield (Acceptance Limits)

Lab Sample ID	Client Sample ID	Ba (40-110)	Y (40-110)
MB 160-492423/22-A	Method Blank	86.9	92.0
MB 160-495466/14-A	Method Blank	83.8	95.0

Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier