

DATA SUMMARY POSTING

Station: Midwest Generation Powerton Generating Station

Regulated Unit(s): Metal Cleaning Basin (IEPA ID No. W1798010008-03)

In accordance with the new Ill. Adm. Code Title 35, Part 845: Standards for the Disposal of Coal Combustion Residuals in Surface Impoundments (State CCR Rule) groundwater monitoring was completed during the 4th quarter 2023 which includes the entire list of parameters specified under Section 845.600(a)(1) and (b). Table 1 is a summary table of all available CCR monitoring data to date including any data generated previously as part of the Federal CCR Rule monitoring. Table 2 provides a summary of turbidity data which was collected as part of State CCR Rule requirements which is a data parameter that was not required under the Federal CCR Rule.

No background statistics or proposed Groundwater Protection Standards are included on these tables. The background statistics and proposed Groundwater Protection Standards were submitted to Illinois Environmental Protection Agency (EPA) as part of the Application for Initial Operating Permit for the Metal Cleaning Basin dated March 31, 2022. Upon Illinois EPA approval of the Operating Permit and Proposed Groundwater Protection Standards, the approved comparison values will be included on the tables for subsequent data comparisons/evaluations.

It is noted that MW-20 and MW-21 were not sampled with the other wells during the week of November 6th, 2023 due to insufficient water volumes.

Table 1. Groundwater Analytical Results - Midwest Generation, LLC, Ploverton Station, Pekin, IL, Metals Cleaning Basin.

Well	Date	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved Solids	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Radium 226 + 228	Selenium	Thallium
MW-13 (S) up-gradient	4/8/2021	2.6	380	130	0.4	8.08	1500	2700	< 0.003	0.021	0.21	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.025	0.77	< 0.0025	< 0.002
	5/13/2021	2.6	340	130	0.39	7.86	1400	2500	< 0.003	0.023	0.23	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.022	0.84	< 0.0025	< 0.002
	6/3/2021	3.2	370	150	0.41	7.63	1500	2600	< 0.003	0.025	0.22	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.026	0.79	< 0.0025	< 0.002
	8/23/2021	3.0	340	110	0.36	7.72	980	2000	< 0.003	0.021	0.19	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.022	0.9	< 0.0025	< 0.002
	10/1/2021	2.8	320	130	0.38	7.78	1300	2300	< 0.003	0.028	0.25	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.023	0.8	< 0.0025	< 0.002
	11/30/2021	3.1	330	120	0.36	7.79	1000	2100	< 0.003	0.024	0.19	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.021	0.635	< 0.0025	< 0.002
	1/6/2022	3.1	280	120	0.4	7.77	950	2000	< 0.003	0.028	0.25	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.022	1.57	< 0.0025	< 0.002
	2/9/2022	2.8	310	120	0.41	7.67	1000	2200	< 0.003	0.026	0.25	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0006	< 0.002	< 0.0002	0.02	1.34	< 0.0025	< 0.002
	6/8/2022	3.2	240	100	0.37	7.96	860	1800	< 0.003	0.021	0.17	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.002	< 0.0002	0.021	< 0.502	< 0.0025	< 0.002
	8/31/2022	2.9	B 250	110	0.39	7.64	FI 790	1900	< 0.003	0.022	0.19	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.019	0.819	< 0.0025	< 0.002
	11/16/2022	2.6	280	120	0.43	7.97	910	1800	< 0.003	0.023	0.21	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.02	0.8	< 0.0025	< 0.002
	2/23/2023	3.1	220	130	0.42	8.38	660	1700	< 0.0030	0.028	0.22	*1+ < 0.0010	< 0.0005	< 0.0050	< 0.0010	< 0.0005	< 0.010	< 0.0003	0.020	1.15	< 0.0025	< 0.0020
	5/17/2023	3.0	200	130	0.41	7.88	640	1700	< 0.0030	0.022	0.13	*1+ < 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.017	< 0.447	< 0.0025	< 0.0020
	8/30/2023	2.3	180	140	0.41	7.78	640	1600	< 0.0020	0.023	0.14	< 0.0010	< 0.00050	< 0.0050	< 0.0005	< 0.00050	< 0.010	< 0.00020	0.016	2.67	< 0.0050	< 0.0010
	11/6/2023	2.2	180	130	0.4	7.78	630	1500	< 0.0030	0.025	0.15	< 0.0010	< 0.00050	< 0.0050	< 0.00100	< 0.00050	< 0.010	< 0.00020	0.019	1.29	< 0.0025	< 0.0020
MW-15 (CL) up-gradient	1/18/2015	1.5	270	H 210	H 0.53	6.55	H 1400	H 2400	< 0.003	0.051	0.096	*+ < 0.001	< 0.0005	< 0.001	< 0.0005	< 0.0005	< 0.042	H < 0.0002	0.023	< 0.599	< 0.0005	< 0.002
	2/25/2016	2.0	240	110	0.61	6.84	640	1700	< 0.003	0.025	0.053	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.041	< 0.0002	0.025	0.870	< 0.0025	< 0.002
	5/19/2016	2.7	320	240	0.53	6.83	1200	2800	< 0.003	0.04	0.097	< 0.001	< 0.00098	< 0.005	< 0.001	< 0.0005	0.044	< 0.0002	0.041	< 0.420	0.067	< 0.002
	8/18/2016	1.5	200	FI 170	0.54	6.96	660	1900	< 0.003	0.13	0.11	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.028	< 0.0002	0.027	< 0.672	0.064	< 0.002
	11/17/2016	1.3	120	180	0.47	6.91	560	1900	< 0.003	0.033	0.031	< 0.001	< 0.0005	< 0.0050	< 0.0010	< 0.0005	0.016	< 0.0002	0.018	< 0.570	0.078	< 0.002
	2/17/2017	1.9	200	190	0.43	6.94	670	1700	< 0.003	0.02	0.056	< 0.001	< 0.0005	< 0.0050	< 0.0010	< 0.0005	0.025	< 0.0002	0.027	< 0.392	0.032	< 0.002
	5/4/2017	1.5	180	180	0.57	6.75	670	1700	< 0.003	0.011	0.049	< 0.001	< 0.0005	< 0.005	< 0.0010	< 0.0005	0.023	< 0.0002	0.023	< 0.456	0.034	< 0.002
	6/21/2017	1.6	180	200	0.56	7.30	530	1600	< 0.003	0.0093	0.054	< 0.001	< 0.0005	< 0.0050	< 0.0010	< 0.0005	0.027	< 0.0002	0.03	< 0.347	0.019	< 0.002
	8/29/2017	2.2	190	200	0.018	6.87	540	1800	< 0.003	0.004	0.044	< 0.001	< 0.0005	< 0.005	< 0.0010	< 0.0005	0.023	< 0.0002	0.032	< 0.377	0.092	< 0.002
	11/10/2017	1.6	170	180	0.63	7.09	530	1500	< 0.003	0.0063	0.046	< 0.001	< 0.0005	< 0.0050	< 0.0010	< 0.0005	0.025	< 0.0002	0.02	< 0.313	0.016	< 0.002
	5/17/2018	2.3	200	160	0.5	6.75	680	1800	< 0.003	0.0081	0.05	< 0.001	< 0.0005	< 0.0050	< 0.0010	< 0.0005	0.029	< 0.0002	0.03	< 0.397	0.077	< 0.002
	8/9/2018	2.3	200	200	0.48	7.06	520	1700	< 0.003	0.0083	0.048	< 0.001	< 0.0005	< 0.0050	< 0.0010	< 0.0005	0.026	< 0.0002	0.033	0.566	0.06	< 0.002
	5/2/2019	1.5	180	200	0.52	6.89	420	1500	< 0.003	0.0045	0.032	< 0.001	< 0.0005	< 0.0050	< 0.0010	< 0.0005	0.027	< 0.0002	0.023	< 0.423	0.025	< 0.002
	11/14/2019	1.8	170	170	0.5	7.24	260	1300	< 0.003	0.0044	0.053	< 0.001	< 0.0005	< 0.0050	< 0.0010	< 0.0005	0.029	< 0.0002	0.023	< 0.475	< 0.0025	< 0.002
	4/29/2020	1.2	160	200	0.58	6.90	370	1300	NA	0.0036	0.06	NA	< 0.0005	NA	< 0.0010	< 0.0005	0.027	< 0.0002	0.023	0.578	< 0.0025	< 0.002
12/8/2020	1.5	170	200	0.55	7.04	540	1400	NA	0.02	0.10	NA	0.00059	NA	< 0.0005	0.035	< 0.0002	0.02	< 0.0002	0.026	0.626	< 0.012	< 0.002
5/23/2021	1.3	190	180	0.54	6.97	520	1500	< 0.003	0.0048	0.065	< 0.001	< 0.0005	< 0.0050	< 0.0010	< 0.0005	0.026	< 0.0002	0.014	< 0.648	0.071	< 0.002	
7/29/2021	1.5	180	180	0.49	6.80	440	1500	< 0.003	0.0027	0.057	< 0.001	< 0.0005	< 0.0050	< 0.0010	< 0.0005	0.028	< 0.0002	0.028	< 0.398	< 0.025	< 0.002	
8/23/2021	1.6	200	180	0.52	6.76	440	1500	< 0.003	0.0019	0.052	< 0.001	< 0.0005	< 0.0050	< 0.0010	< 0.0005	0.026	< 0.0002	0.026	< 0.794	0.012	< 0.002	
10/1/2021	1.2	180	180	0.53	6.97	430	1400	< 0.003	0.0087	0.065	< 0.001	< 0.0005	< 0.0050	< 0.0010	< 0.0005	*1+ < 0.028	< 0.0002	0.018	< 0.511	0.009	< 0.002	
11/29/2021	1.9	230	240	0.5	6.71	450	1700	< 0.003	0.0031	0.074	< 0.001	< 0.0005	< 0.0050	< 0.0010	< 0.0005	0.024	< 0.0002	0.016	< 0.353	0.055	< 0.002	
2/9/2022	0.84	140	160	0.58	6.91	320	1200	< 0.003	0.0075	0.054	< 0.001	< 0.0005	< 0.0050	< 0.0010	< 0.0005	0.023	< 0.0002	0.014	< 0.51	0.023	< 0.002	
6/8/2022	2.0	310	250	0.43	6.87	970	2600	< 0.003	0.004	0.09	< 0.001	< 0.0005	< 0.0050	< 0.0010	< 0.0005	0.027	< 0.0002	0.019	< 0.612	0.12	< 0.002	
8/31/2022	1.5	B 210	270	0.48	6.80	680	1900	< 0.003	0.0054	0.049	< 0.001	< 0.0005	< 0.0050	< 0.0010	< 0.0005	0.023	< 0.0002	0.023	< 0.540	0.048	< 0.002	
11/16/2022	1.3	210	220	0.81	6.26	400	1500	< 0.003	0.012	0.068	< 0.001	< 0.0005	< 0.0050	< 0.0010	< 0.0005	0.026	< 0.0002	0.05	< 0.851	< 0.0025	< 0.002	
2/23/2023	1.3	190	210	0.0030	6.049	0.055	1400	< 0.0030	0.0049	0.055	*1+ < 0.0010	< 0.00087	< 0.0050	< 0.00087	< 0.0005	0.024	< 0.0002	0.096	0.725	0.028	0.029	
5/17/2023	2.1	280	330	0.42	6.84	860	2700	< 0.0030	0.0032	0.071	*1+ < 0.0010	0.00052	< 0.0050	0.015	< 0.00050	0.023	< 0.00020	0.045	0.547	0.17	< 0.0020	
8/30/2023	1.1	180	290	0.42	6.94	440	1600	< 0.0020	0.0081	0.05	< 0.0010	< 0.0005	0.026	< 0.00063	0.028	< 0.00020	0.1	< 0.645	0.02	FI 0.032	< 0.0020	
11/6/2023	1.1	180	210	0.45	7.05	460	1400	< 0.0030	0.0048	0.050	< 0.0010	< 0.00050	< 0.0050	0.027	< 0.00050	0.022	< 0.00020	0.0				

Table 2. Groundwater Turbidity - Midwest Generation, LLC, Powerton Station, Pekin, IL. Metal Cleaning Basin.

Well	Date	Turbidity (NTU)
MW-13	2/24/2021	8.90
	4/8/2021	6.50
	5/13/2021	2.17
	6/3/2021	2.81
	6/29/2021	4.00
	8/23/2021	3.99
	10/1/2021	4.82
	11/30/2021	5.51
	1/6/2022	16.87
	2/9/2022	1.99
	6/8/2022	30.66
	8/31/2022	16.22
	11/16/2022	4.82
	2/23/2023	23.89
	5/17/2023	10.09
8/30/2023	14.95	
11/6/2023	15.43	
MW-15	2/24/2021	64.90
	4/9/2021	16.80
	5/12/2021	16.45
	6/3/2021	7.85
	6/29/2021	6.58
	7/20/2021	5.82
	8/23/2021	4.28
	10/1/2021	13.13
	11/29/2021	12.35
	2/7/2022	9.38
	6/8/2022	10.32
	8/31/2022	28.7
	11/16/2022	55.82
	2/23/2023	21.36
	5/17/2023	13.90
8/30/2023	34.65	
11/6/2023	9.00	
MW-17	2/24/2021	42.00
	4/8/2021	17.10
	5/12/2021	10.90
	6/3/2021	38.15
	6/28/2021	29.15
	7/20/2021	16.38
	8/23/2021	26.51
	10/1/2021	21.26
	11/30/2021	8.86
	2/9/2022	11.19
	6/8/2022	41.49
	8/31/2022	22.58
	11/16/2022	116.69
	2/23/2023	20.65
	5/18/2023	9.92
8/30/2023	3.56	
11/6/2023	6.02	

NM - Not Measured due to insufficient water volume.

Table 2. Groundwater Turbidity - Midwest Generation, LLC, Powerton Station, Pekin, IL. Metal Cleaning Basin.

Well	Date	Turbidity (NTU)
MW-14	2/24/2021	13.90
	4/8/2021	5.39
	5/12/2021	1.22
	6/3/2021	2.63
	6/28/2021	3.74
	7/20/2021	4.34
	8/23/2021	4.26
	10/1/2021	10.27
	11/29/2021	12.29
	2/9/2022	8.66
	6/8/2022	19.54
	8/31/2022	40.75
	11/17/2022	31.69
	2/21/2023	7.33
	5/17/2023	7.08
	8/29/2023	1.95
11/6/2023	34.43	
MW-20	3/12/2021	343.30
	4/8/2021	14.45
	5/12/2021	3.89
	6/3/2021	6.01
	6/28/2021	8.28
	7/20/2021	9.16
	8/23/2021	27.31
	10/1/2021	8.27
	11/29/2021	8.35
	2/8/2022	76.4
	6/9/2022	19.31
	9/1/2022	63.5
	11/17/2022	NM
	2/21/2023	NM
	6/26/2023	48.01
	8/29/2023	NM
11/8/2023	NM	
MW-21	3/12/2021	49.20
	4/8/2021	5.88
	5/12/2021	26.09
	6/3/2021	17.61
	6/28/2021	6.33
	7/20/2021	44.93
	8/23/2021	19.43
	10/8/2021	94.82
	11/29/2021	20.2
	3/1/2022	7.64
	6/9/2022	7.56
	9/1/2022	NM
	11/17/2022	NM
	2/20/2023	25.99
	5/18/2023	7.50
	8/30/2023	41.82
11/8/2023	NM	

NM - Not Measured due to insufficient water volume.

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

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JOB DESCRIPTION

Powerton CCR MCB

JOB NUMBER

500-242144-1

Eurofins Chicago

Job Notes

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Authorization



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Case Narrative

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

Job ID: 500-242144-1

Job ID: 500-242144-1

Laboratory: Eurofins Chicago

Narrative

**Job Narrative
500-242144-1**

Receipt

The samples were received on 11/7/2023 9:35 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.3° C and 2.9° C.

Metals

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

General Chemistry

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

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Method Summary

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

Job ID: 500-242144-1

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

Protocol References:

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

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

Laboratory References:

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

Sample Summary

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

Job ID: 500-242144-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-242144-1	MW-15	Water	11/06/23 14:21	11/07/23 09:35
500-242144-2	MW-17	Water	11/06/23 15:33	11/07/23 09:35
500-242144-3	Duplicate	Water	11/06/23 00:00	11/07/23 09:35
500-242144-4	MW-13	Water	11/06/23 12:57	11/07/23 09:35
500-242144-5	MW-14	Water	11/06/23 11:05	11/08/23 09:55

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Client Sample Results

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

Job ID: 500-242144-1

Client Sample ID: MW-15

Lab Sample ID: 500-242144-1

Date Collected: 11/06/23 14:21

Matrix: Water

Date Received: 11/07/23 09:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		11/17/23 09:13	11/29/23 01:18	1
Arsenic	0.0048		0.0010		mg/L		11/17/23 09:13	11/29/23 01:18	1
Barium	0.050		0.0025		mg/L		11/17/23 09:13	11/29/23 01:18	1
Beryllium	<0.0010		0.0010		mg/L		11/17/23 09:13	11/29/23 01:18	1
Boron	1.1		0.050		mg/L		11/17/23 09:13	11/29/23 15:30	1
Cadmium	<0.00050		0.00050		mg/L		11/17/23 09:13	11/29/23 01:18	1
Calcium	180		0.20		mg/L		11/17/23 09:13	11/29/23 01:18	1
Chromium	<0.0050		0.0050		mg/L		11/17/23 09:13	11/29/23 01:18	1
Cobalt	0.0027		0.0010		mg/L		11/17/23 09:13	11/29/23 01:18	1
Lead	<0.00050		0.00050		mg/L		11/17/23 09:13	11/29/23 01:18	1
Lithium	0.022		0.010		mg/L		11/17/23 09:13	12/01/23 13:10	1
Molybdenum	0.057		0.0050		mg/L		11/17/23 09:13	11/29/23 01:18	1
Selenium	0.0027		0.0025		mg/L		11/17/23 09:13	11/29/23 01:18	1
Thallium	<0.0020		0.0020		mg/L		11/17/23 09:13	11/29/23 01:18	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		11/28/23 09:25	11/29/23 08:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1400		10		mg/L			11/08/23 23:19	1
Chloride (SM 4500 Cl- E)	210		20		mg/L			11/15/23 13:30	10
Fluoride (SM 4500 F C)	0.45		0.10		mg/L			11/20/23 14:52	1
Sulfate (SM 4500 SO4 E)	460		50		mg/L			11/21/23 12:03	10

Client Sample Results

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

Job ID: 500-242144-1

Client Sample ID: MW-17

Lab Sample ID: 500-242144-2

Date Collected: 11/06/23 15:33

Matrix: Water

Date Received: 11/07/23 09:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		11/17/23 09:13	11/29/23 01:22	1
Arsenic	0.0020		0.0010		mg/L		11/17/23 09:13	11/29/23 01:22	1
Barium	0.026		0.0025		mg/L		11/17/23 09:13	11/29/23 01:22	1
Beryllium	<0.0010		0.0010		mg/L		11/17/23 09:13	11/29/23 01:22	1
Boron	0.96		0.050		mg/L		11/17/23 09:13	11/29/23 15:47	1
Cadmium	<0.00050		0.00050		mg/L		11/17/23 09:13	11/29/23 01:22	1
Calcium	130		0.20		mg/L		11/17/23 09:13	11/29/23 01:22	1
Chromium	<0.0050		0.0050		mg/L		11/17/23 09:13	11/29/23 01:22	1
Cobalt	<0.0010		0.0010		mg/L		11/17/23 09:13	11/29/23 01:22	1
Lead	<0.00050		0.00050		mg/L		11/17/23 09:13	11/29/23 01:22	1
Lithium	0.013		0.010		mg/L		11/17/23 09:13	12/01/23 13:13	1
Molybdenum	0.035		0.0050		mg/L		11/17/23 09:13	11/29/23 01:22	1
Selenium	<0.0025		0.0025		mg/L		11/17/23 09:13	11/29/23 01:22	1
Thallium	<0.0020		0.0020		mg/L		11/17/23 09:13	11/29/23 01:22	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		11/28/23 09:25	11/29/23 08:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1100		10		mg/L			11/08/23 23:21	1
Chloride (SM 4500 Cl- E)	180		20		mg/L			11/15/23 13:30	10
Fluoride (SM 4500 F C)	0.64		0.10		mg/L			11/20/23 14:56	1
Sulfate (SM 4500 SO4 E)	460		50		mg/L			11/21/23 12:03	10

Client Sample Results

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

Job ID: 500-242144-1

Client Sample ID: Duplicate

Lab Sample ID: 500-242144-3

Date Collected: 11/06/23 00:00

Matrix: Water

Date Received: 11/07/23 09:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		11/17/23 09:13	11/29/23 01:25	1
Arsenic	0.024		0.0010		mg/L		11/17/23 09:13	11/29/23 01:25	1
Barium	0.13		0.0025		mg/L		11/17/23 09:13	11/29/23 01:25	1
Beryllium	<0.0010		0.0010		mg/L		11/17/23 09:13	11/29/23 01:25	1
Boron	2.2		0.050		mg/L		11/17/23 09:13	11/29/23 15:51	1
Cadmium	<0.00050		0.00050		mg/L		11/17/23 09:13	11/29/23 01:25	1
Calcium	170		0.20		mg/L		11/17/23 09:13	11/29/23 01:25	1
Chromium	<0.0050		0.0050		mg/L		11/17/23 09:13	11/29/23 01:25	1
Cobalt	<0.0010		0.0010		mg/L		11/17/23 09:13	11/29/23 01:25	1
Lead	<0.00050		0.00050		mg/L		11/17/23 09:13	11/29/23 01:25	1
Lithium	<0.010		0.010		mg/L		11/17/23 09:13	12/01/23 13:16	1
Molybdenum	0.022		0.0050		mg/L		11/17/23 09:13	11/29/23 01:25	1
Selenium	<0.0025		0.0025		mg/L		11/17/23 09:13	11/29/23 01:25	1
Thallium	<0.0020		0.0020		mg/L		11/17/23 09:13	11/29/23 01:25	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		11/28/23 09:25	11/29/23 08:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1400		10		mg/L			11/08/23 23:24	1
Chloride (SM 4500 Cl- E)	130		20		mg/L			11/15/23 13:30	10
Fluoride (SM 4500 F C)	0.40		0.10		mg/L			11/20/23 15:01	1
Sulfate (SM 4500 SO4 E)	590		100		mg/L			11/21/23 12:20	20

Client Sample Results

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

Job ID: 500-242144-1

Client Sample ID: MW-13
Date Collected: 11/06/23 12:57
Date Received: 11/07/23 09:35

Lab Sample ID: 500-242144-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		11/17/23 09:13	11/29/23 01:29	1
Arsenic	0.025		0.0010		mg/L		11/17/23 09:13	11/29/23 01:29	1
Barium	0.15		0.0025		mg/L		11/17/23 09:13	11/29/23 01:29	1
Beryllium	<0.0010		0.0010		mg/L		11/17/23 09:13	11/29/23 01:29	1
Boron	2.2		0.050		mg/L		11/17/23 09:13	11/29/23 15:54	1
Cadmium	<0.00050		0.00050		mg/L		11/17/23 09:13	11/29/23 01:29	1
Calcium	180		0.20		mg/L		11/17/23 09:13	11/29/23 01:29	1
Chromium	<0.0050		0.0050		mg/L		11/17/23 09:13	11/29/23 01:29	1
Cobalt	<0.0010		0.0010		mg/L		11/17/23 09:13	11/29/23 01:29	1
Lead	<0.00050		0.00050		mg/L		11/17/23 09:13	11/29/23 01:29	1
Lithium	<0.010		0.010		mg/L		11/17/23 09:13	12/01/23 13:20	1
Molybdenum	0.019		0.0050		mg/L		11/17/23 09:13	11/29/23 01:29	1
Selenium	<0.0025		0.0025		mg/L		11/17/23 09:13	11/29/23 01:29	1
Thallium	<0.0020		0.0020		mg/L		11/17/23 09:13	11/29/23 01:29	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		11/28/23 09:25	11/29/23 08:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1500		10		mg/L			11/08/23 23:27	1
Chloride (SM 4500 Cl- E)	130		20		mg/L			11/15/23 13:27	10
Fluoride (SM 4500 F C)	0.40		0.10		mg/L			11/20/23 15:05	1
Sulfate (SM 4500 SO4 E)	630		100		mg/L			11/21/23 12:20	20

Client Sample Results

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

Job ID: 500-242144-1

Client Sample ID: MW-14
Date Collected: 11/06/23 11:05
Date Received: 11/08/23 09:55

Lab Sample ID: 500-242144-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		11/17/23 09:13	11/29/23 01:33	1
Arsenic	0.0026		0.0010		mg/L		11/17/23 09:13	11/29/23 01:33	1
Barium	0.042		0.0025		mg/L		11/17/23 09:13	11/29/23 01:33	1
Beryllium	<0.0010		0.0010		mg/L		11/17/23 09:13	11/29/23 01:33	1
Boron	1.5		0.050		mg/L		11/17/23 09:13	11/29/23 15:58	1
Cadmium	<0.00050		0.00050		mg/L		11/17/23 09:13	11/29/23 01:33	1
Calcium	190		0.20		mg/L		11/17/23 09:13	11/29/23 01:33	1
Chromium	<0.0050		0.0050		mg/L		11/17/23 09:13	11/29/23 01:33	1
Cobalt	<0.0010		0.0010		mg/L		11/17/23 09:13	11/29/23 01:33	1
Lead	<0.00050		0.00050		mg/L		11/17/23 09:13	11/29/23 01:33	1
Lithium	0.018		0.010		mg/L		11/17/23 09:13	12/01/23 13:23	1
Molybdenum	0.032		0.0050		mg/L		11/17/23 09:13	11/29/23 01:33	1
Selenium	0.0086		0.0025		mg/L		11/17/23 09:13	11/29/23 01:33	1
Thallium	<0.0020		0.0020		mg/L		11/17/23 09:13	11/29/23 01:33	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		11/28/23 09:25	11/29/23 08:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	2200		10		mg/L			11/08/23 23:29	1
Chloride (SM 4500 Cl- E)	140		20		mg/L			11/15/23 13:29	10
Fluoride (SM 4500 F C)	0.87		0.10		mg/L			11/20/23 15:10	1
Sulfate (SM 4500 SO4 E)	840		500		mg/L			11/21/23 12:19	100

Definitions/Glossary

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

Job ID: 500-242144-1

Qualifiers

Metals

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

Glossary

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

QC Association Summary

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

Job ID: 500-242144-1

Metals

Prep Batch: 742775

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-242144-1	MW-15	Total Recoverable	Water	3005A	
500-242144-2	MW-17	Total Recoverable	Water	3005A	
500-242144-3	Duplicate	Total Recoverable	Water	3005A	
500-242144-4	MW-13	Total Recoverable	Water	3005A	
500-242144-5	MW-14	Total Recoverable	Water	3005A	
MB 500-742775/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-742775/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 743997

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-242144-1	MW-15	Total/NA	Water	7470A	
500-242144-2	MW-17	Total/NA	Water	7470A	
500-242144-3	Duplicate	Total/NA	Water	7470A	
500-242144-4	MW-13	Total/NA	Water	7470A	
500-242144-5	MW-14	Total/NA	Water	7470A	
MB 500-743997/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-743997/13-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 744190

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-242144-1	MW-15	Total Recoverable	Water	6020A	742775
500-242144-2	MW-17	Total Recoverable	Water	6020A	742775
500-242144-3	Duplicate	Total Recoverable	Water	6020A	742775
500-242144-4	MW-13	Total Recoverable	Water	6020A	742775
500-242144-5	MW-14	Total Recoverable	Water	6020A	742775
MB 500-742775/1-A	Method Blank	Total Recoverable	Water	6020A	742775
LCS 500-742775/2-A	Lab Control Sample	Total Recoverable	Water	6020A	742775

Analysis Batch: 744222

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-242144-1	MW-15	Total/NA	Water	7470A	743997
500-242144-2	MW-17	Total/NA	Water	7470A	743997
500-242144-3	Duplicate	Total/NA	Water	7470A	743997
500-242144-4	MW-13	Total/NA	Water	7470A	743997
500-242144-5	MW-14	Total/NA	Water	7470A	743997
MB 500-743997/12-A	Method Blank	Total/NA	Water	7470A	743997
LCS 500-743997/13-A	Lab Control Sample	Total/NA	Water	7470A	743997

Analysis Batch: 744442

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-242144-1	MW-15	Total Recoverable	Water	6020A	742775
500-242144-2	MW-17	Total Recoverable	Water	6020A	742775
500-242144-3	Duplicate	Total Recoverable	Water	6020A	742775
500-242144-4	MW-13	Total Recoverable	Water	6020A	742775
500-242144-5	MW-14	Total Recoverable	Water	6020A	742775
MB 500-742775/1-A	Method Blank	Total Recoverable	Water	6020A	742775
LCS 500-742775/2-A	Lab Control Sample	Total Recoverable	Water	6020A	742775

Analysis Batch: 744923

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-242144-1	MW-15	Total Recoverable	Water	6020A	742775

Eurofins Chicago

QC Association Summary

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

Job ID: 500-242144-1

Metals (Continued)

Analysis Batch: 744923 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-242144-2	MW-17	Total Recoverable	Water	6020A	742775
500-242144-3	Duplicate	Total Recoverable	Water	6020A	742775
500-242144-4	MW-13	Total Recoverable	Water	6020A	742775
500-242144-5	MW-14	Total Recoverable	Water	6020A	742775
MB 500-742775/1-A	Method Blank	Total Recoverable	Water	6020A	742775
LCS 500-742775/2-A	Lab Control Sample	Total Recoverable	Water	6020A	742775

General Chemistry

Analysis Batch: 741308

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-242144-1	MW-15	Total/NA	Water	SM 2540C	
500-242144-2	MW-17	Total/NA	Water	SM 2540C	
500-242144-3	Duplicate	Total/NA	Water	SM 2540C	
500-242144-4	MW-13	Total/NA	Water	SM 2540C	
500-242144-5	MW-14	Total/NA	Water	SM 2540C	
MB 500-741308/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-741308/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 742389

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-242144-1	MW-15	Total/NA	Water	SM 4500 Cl- E	
500-242144-2	MW-17	Total/NA	Water	SM 4500 Cl- E	
500-242144-3	Duplicate	Total/NA	Water	SM 4500 Cl- E	
500-242144-4	MW-13	Total/NA	Water	SM 4500 Cl- E	
500-242144-5	MW-14	Total/NA	Water	SM 4500 Cl- E	
MB 500-742389/60	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 500-742389/61	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 743238

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-242144-1	MW-15	Total/NA	Water	SM 4500 F C	
500-242144-2	MW-17	Total/NA	Water	SM 4500 F C	
500-242144-3	Duplicate	Total/NA	Water	SM 4500 F C	
500-242144-4	MW-13	Total/NA	Water	SM 4500 F C	
500-242144-5	MW-14	Total/NA	Water	SM 4500 F C	
MB 500-743238/31	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-743238/32	Lab Control Sample	Total/NA	Water	SM 4500 F C	
500-242144-5 MS	MW-14	Total/NA	Water	SM 4500 F C	
500-242144-5 MSD	MW-14	Total/NA	Water	SM 4500 F C	

Analysis Batch: 743332

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-242144-1	MW-15	Total/NA	Water	SM 4500 SO4 E	
500-242144-2	MW-17	Total/NA	Water	SM 4500 SO4 E	
500-242144-3	Duplicate	Total/NA	Water	SM 4500 SO4 E	
500-242144-4	MW-13	Total/NA	Water	SM 4500 SO4 E	
500-242144-5	MW-14	Total/NA	Water	SM 4500 SO4 E	
MB 500-743332/61	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-743332/63	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	

QC Sample Results

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

Job ID: 500-242144-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 500-742775/1-A
Matrix: Water
Analysis Batch: 744190

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 742775

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0030		0.0030		mg/L		11/17/23 09:13	11/29/23 01:10	1
Arsenic	<0.0010		0.0010		mg/L		11/17/23 09:13	11/29/23 01:10	1
Barium	<0.0025		0.0025		mg/L		11/17/23 09:13	11/29/23 01:10	1
Beryllium	<0.0010		0.0010		mg/L		11/17/23 09:13	11/29/23 01:10	1
Cadmium	<0.00050		0.00050		mg/L		11/17/23 09:13	11/29/23 01:10	1
Calcium	<0.20		0.20		mg/L		11/17/23 09:13	11/29/23 01:10	1
Chromium	<0.0050		0.0050		mg/L		11/17/23 09:13	11/29/23 01:10	1
Cobalt	<0.0010		0.0010		mg/L		11/17/23 09:13	11/29/23 01:10	1
Lead	<0.00050		0.00050		mg/L		11/17/23 09:13	11/29/23 01:10	1
Lithium	<0.010	^+	0.010		mg/L		11/17/23 09:13	11/29/23 01:10	1
Molybdenum	<0.0050		0.0050		mg/L		11/17/23 09:13	11/29/23 01:10	1
Selenium	<0.0025		0.0025		mg/L		11/17/23 09:13	11/29/23 01:10	1
Thallium	<0.0020		0.0020		mg/L		11/17/23 09:13	11/29/23 01:10	1

Lab Sample ID: MB 500-742775/1-A
Matrix: Water
Analysis Batch: 744442

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 742775

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Boron	<0.050		0.050		mg/L		11/17/23 09:13	11/29/23 14:46	1

Lab Sample ID: MB 500-742775/1-A
Matrix: Water
Analysis Batch: 744923

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 742775

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Lithium	<0.010		0.010		mg/L		11/17/23 09:13	12/01/23 13:02	1

Lab Sample ID: LCS 500-742775/2-A
Matrix: Water
Analysis Batch: 744190

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 742775

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.0935		mg/L		93	80 - 120
Barium	0.500	0.499		mg/L		100	80 - 120
Beryllium	0.0500	0.0480		mg/L		96	80 - 120
Cadmium	0.0500	0.0479		mg/L		96	80 - 120
Calcium	10.0	8.31		mg/L		83	80 - 120
Chromium	0.200	0.195		mg/L		97	80 - 120
Cobalt	0.500	0.493		mg/L		99	80 - 120
Lead	0.100	0.0986		mg/L		99	80 - 120
Molybdenum	1.00	0.949		mg/L		95	80 - 120
Selenium	0.100	0.0958		mg/L		96	80 - 120
Thallium	0.100	0.103		mg/L		103	80 - 120

QC Sample Results

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

Job ID: 500-242144-1

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

Lab Sample ID: LCS 500-742775/2-A
Matrix: Water
Analysis Batch: 744442

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 742775

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.00	0.960		mg/L		96	80 - 120

Lab Sample ID: LCS 500-742775/2-A
Matrix: Water
Analysis Batch: 744923

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 742775

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.100	0.0862		mg/L		86	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-743997/12-A
Matrix: Water
Analysis Batch: 744222

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 743997

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		11/28/23 09:25	11/29/23 07:36	1

Lab Sample ID: LCS 500-743997/13-A
Matrix: Water
Analysis Batch: 744222

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 743997

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00201	0.00195		mg/L		97	80 - 120

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

Lab Sample ID: MB 500-741308/1
Matrix: Water
Analysis Batch: 741308

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10		mg/L			11/08/23 22:38	1

Lab Sample ID: LCS 500-741308/2
Matrix: Water
Analysis Batch: 741308

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	246		mg/L		98	80 - 120

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 500-742389/60
Matrix: Water
Analysis Batch: 742389

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<2.0		2.0		mg/L			11/15/23 13:25	1

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QC Sample Results

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

Job ID: 500-242144-1

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

Lab Sample ID: LCS 500-742389/61
Matrix: Water
Analysis Batch: 742389

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	22.0		mg/L		110	85 - 115

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-743238/31
Matrix: Water
Analysis Batch: 743238

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10		mg/L			11/20/23 14:11	1

Lab Sample ID: LCS 500-743238/32
Matrix: Water
Analysis Batch: 743238

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	10.0	9.54		mg/L		95	90 - 119

Lab Sample ID: 500-242144-5 MS
Matrix: Water
Analysis Batch: 743238

Client Sample ID: MW-14
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.87		5.00	5.69		mg/L		96	75 - 125

Lab Sample ID: 500-242144-5 MSD
Matrix: Water
Analysis Batch: 743238

Client Sample ID: MW-14
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	0.87		5.00	5.66		mg/L		96	75 - 125	1	20

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 500-743332/61
Matrix: Water
Analysis Batch: 743332

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<5.0		5.0		mg/L			11/21/23 11:59	1

Lab Sample ID: LCS 500-743332/63
Matrix: Water
Analysis Batch: 743332

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	20.0	20.9		mg/L		105	88 - 123


Eurofins Chicago

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

Chain of Custody Record

MKE 232

eurofins | Environment Testing

Client Information		Sampler: Jack Misner		Lab PM: Mockler, Diana J		Carrier Tracking No(s):		COC No: 500-114458-46459 1	
Client Contact: Kaelyn Sperle		Phone: 262-622-1143		E-Mail: Diana Mockler@et eurofins.com		State of Origin: IL		Page: Page 1 of 1	
Company: KPRG and Associates, Inc.		PWSID:		Analysis Report  500-242144 COC				Job #: 500-242144	
Address: 14665 West Lisbon Road, Suite 1A		Due Date Requested:							
City: Brookfield		TAT Requested (days): Standard		Field Filtered Sample (Yes or No) Perform MS/MS/SD (Yes or No) 903.0 - Standard Target List 904.0 - Standard Target List 902DA, 7470A 2540C, 4500_F_C, S144500_CL_E, S144500_SO4_E		Total Number of Containers		Preservation Codes: A - HCL M - Hexane B - NaOH O - AsNaO2 C - Zn Acetate P - Na2O4S D - Nitric Acid Q - Na2SO3 E - NaHSO4 R - Na2S2O3 F - MeOH S - H2SO4 G - Amchlor T - TSP Dodecahydrate H - Ascorbic Acid U - Acetone I - Ice V - MCAA J - DI Water W - pH 4-5 K - EDTA Y - Trizma L - EDA Z - other (specify)	
Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No		PO #: 4502125100							
Project Name: Powerton CCR MCB		Project #: 50011612							
Site: Illinois		SSOW#:							
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)	Preservation Code		Special Instructions/Note:	
5		MW-14		11/6/23 1105 G		Water		N N X X X X X	
								Water	
								Water	
								Water	
								Water	
								Water	
								Water	
Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)							
<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months							
Deliverable Requested I, II, III, IV, Other (specify)		Special Instructions/QC Requirements							
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:			
Relinquished by: Jack Misner		Date/Time: 11/7/23 1800		Company: KPRG		Received by: Stephonne Homard		Date/Time: 11/8/23 0955	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks: 3.1+29					



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

SHIP DATE: 06NOV23
ACTWGT: 62.15 LB
CAD: 6994780/SSFE2460
DIMS: 24x19x14 IN
BILL THIRD PARTY

Part # 156207-839-14M085E86 05/24

TO **EUROFINS**

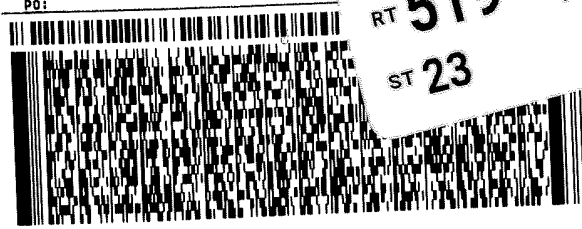
2417 BOND ST.



UNIVERSITY PARK IL 60484 500-242144 Waybi

(555) 555-5555
INV:
PO:

REF:



RT **519**
ST **23**

10:30

1760
11.07



J234023101501uv

1 of 2

TRK# **7860 1960 1760**
0201
MASTER

XP JOTA

TUE - 07 NOV 10:30A
PRIORITY OVERNIGHT
AHS
60484
IL-US ORD



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

SHIP DATE: 07NOV23
ACTWGT: 21.70 LB
CAD: 6994780/SSFE2460
DIMS: 16x12x11 IN
BILL THIRD PARTY

Part # 138297-4396-11198-SEN05/24

TO **EUROFINS**

2417 BOND ST.

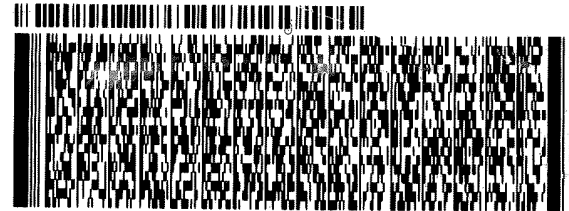
UNIVERSITY PARK IL 60484

500-242144 Waybi

(555) 555-5555
THU:
PO:

REF:

DEPT:



FedEx
Express



AN 1051018206327

1 of 6

TRK# 7860 7723 0037
0201

MASTER

XP JOTA

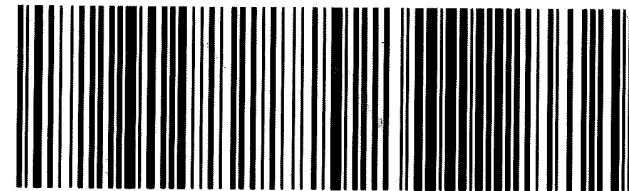
WED - 08 NOV 10:30A

PRIORITY OVERNIGHT

AHS

60484

IL-US ORD



Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-242144-1

Login Number: 242144

List Number: 1

Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.3,2.9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Lab Chronicle

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

Job ID: 500-242144-1

Client Sample ID: MW-15
Date Collected: 11/06/23 14:21
Date Received: 11/07/23 09:35

Lab Sample ID: 500-242144-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			742775	BDE	EET CHI	11/17/23 09:13 - 11/17/23 09:43 ¹
Total Recoverable	Analysis	6020A		1	744190	BJH	EET CHI	11/29/23 01:18
Total Recoverable	Prep	3005A			742775	BDE	EET CHI	11/17/23 09:13 - 11/17/23 09:43 ¹
Total Recoverable	Analysis	6020A		1	744442	BJH	EET CHI	11/29/23 15:30
Total Recoverable	Prep	3005A			742775	BDE	EET CHI	11/17/23 09:13 - 11/17/23 09:43 ¹
Total Recoverable	Analysis	6020A		1	744923	RN	EET CHI	12/01/23 13:10
Total/NA	Prep	7470A			743997	MJG	EET CHI	11/28/23 09:25 - 11/28/23 11:25 ¹
Total/NA	Analysis	7470A		1	744222	MJG	EET CHI	11/29/23 08:26
Total/NA	Analysis	SM 2540C		1	741308	CLB	EET CHI	11/08/23 23:19
Total/NA	Analysis	SM 4500 CI- E		10	742389	TR	EET CHI	11/15/23 13:30
Total/NA	Analysis	SM 4500 F C		1	743238	SO	EET CHI	11/20/23 14:52
Total/NA	Analysis	SM 4500 SO4 E		10	743332	TR	EET CHI	11/21/23 12:03

Client Sample ID: MW-17
Date Collected: 11/06/23 15:33
Date Received: 11/07/23 09:35

Lab Sample ID: 500-242144-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			742775	BDE	EET CHI	11/17/23 09:13 - 11/17/23 09:43 ¹
Total Recoverable	Analysis	6020A		1	744190	BJH	EET CHI	11/29/23 01:22
Total Recoverable	Prep	3005A			742775	BDE	EET CHI	11/17/23 09:13 - 11/17/23 09:43 ¹
Total Recoverable	Analysis	6020A		1	744442	BJH	EET CHI	11/29/23 15:47
Total Recoverable	Prep	3005A			742775	BDE	EET CHI	11/17/23 09:13 - 11/17/23 09:43 ¹
Total Recoverable	Analysis	6020A		1	744923	RN	EET CHI	12/01/23 13:13
Total/NA	Prep	7470A			743997	MJG	EET CHI	11/28/23 09:25 - 11/28/23 11:25 ¹
Total/NA	Analysis	7470A		1	744222	MJG	EET CHI	11/29/23 08:28
Total/NA	Analysis	SM 2540C		1	741308	CLB	EET CHI	11/08/23 23:21
Total/NA	Analysis	SM 4500 CI- E		10	742389	TR	EET CHI	11/15/23 13:30
Total/NA	Analysis	SM 4500 F C		1	743238	SO	EET CHI	11/20/23 14:56
Total/NA	Analysis	SM 4500 SO4 E		10	743332	TR	EET CHI	11/21/23 12:03

Client Sample ID: Duplicate
Date Collected: 11/06/23 00:00
Date Received: 11/07/23 09:35

Lab Sample ID: 500-242144-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			742775	BDE	EET CHI	11/17/23 09:13 - 11/17/23 09:43 ¹
Total Recoverable	Analysis	6020A		1	744190	BJH	EET CHI	11/29/23 01:25
Total Recoverable	Prep	3005A			742775	BDE	EET CHI	11/17/23 09:13 - 11/17/23 09:43 ¹
Total Recoverable	Analysis	6020A		1	744442	BJH	EET CHI	11/29/23 15:51
Total Recoverable	Prep	3005A			742775	BDE	EET CHI	11/17/23 09:13 - 11/17/23 09:43 ¹
Total Recoverable	Analysis	6020A		1	744923	RN	EET CHI	12/01/23 13:16
Total/NA	Prep	7470A			743997	MJG	EET CHI	11/28/23 09:25 - 11/28/23 11:25 ¹
Total/NA	Analysis	7470A		1	744222	MJG	EET CHI	11/29/23 08:30

Eurofins Chicago

Lab Chronicle

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

Job ID: 500-242144-1

Client Sample ID: Duplicate
Date Collected: 11/06/23 00:00
Date Received: 11/07/23 09:35

Lab Sample ID: 500-242144-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM 2540C		1	741308	CLB	EET CHI	11/08/23 23:24
Total/NA	Analysis	SM 4500 CI- E		10	742389	TR	EET CHI	11/15/23 13:30
Total/NA	Analysis	SM 4500 F C		1	743238	SO	EET CHI	11/20/23 15:01
Total/NA	Analysis	SM 4500 SO4 E		20	743332	TR	EET CHI	11/21/23 12:20

Client Sample ID: MW-13
Date Collected: 11/06/23 12:57
Date Received: 11/07/23 09:35

Lab Sample ID: 500-242144-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			742775	BDE	EET CHI	11/17/23 09:13 - 11/17/23 09:43 ¹
Total Recoverable	Analysis	6020A		1	744190	BJH	EET CHI	11/29/23 01:29
Total Recoverable	Prep	3005A			742775	BDE	EET CHI	11/17/23 09:13 - 11/17/23 09:43 ¹
Total Recoverable	Analysis	6020A		1	744442	BJH	EET CHI	11/29/23 15:54
Total Recoverable	Prep	3005A			742775	BDE	EET CHI	11/17/23 09:13 - 11/17/23 09:43 ¹
Total Recoverable	Analysis	6020A		1	744923	RN	EET CHI	12/01/23 13:20
Total/NA	Prep	7470A			743997	MJG	EET CHI	11/28/23 09:25 - 11/28/23 11:25 ¹
Total/NA	Analysis	7470A		1	744222	MJG	EET CHI	11/29/23 08:32
Total/NA	Analysis	SM 2540C		1	741308	CLB	EET CHI	11/08/23 23:27
Total/NA	Analysis	SM 4500 CI- E		10	742389	TR	EET CHI	11/15/23 13:27
Total/NA	Analysis	SM 4500 F C		1	743238	SO	EET CHI	11/20/23 15:05
Total/NA	Analysis	SM 4500 SO4 E		20	743332	TR	EET CHI	11/21/23 12:20

Client Sample ID: MW-14
Date Collected: 11/06/23 11:05
Date Received: 11/08/23 09:55

Lab Sample ID: 500-242144-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			742775	BDE	EET CHI	11/17/23 09:13 - 11/17/23 09:43 ¹
Total Recoverable	Analysis	6020A		1	744190	BJH	EET CHI	11/29/23 01:33
Total Recoverable	Prep	3005A			742775	BDE	EET CHI	11/17/23 09:13 - 11/17/23 09:43 ¹
Total Recoverable	Analysis	6020A		1	744442	BJH	EET CHI	11/29/23 15:58
Total Recoverable	Prep	3005A			742775	BDE	EET CHI	11/17/23 09:13 - 11/17/23 09:43 ¹
Total Recoverable	Analysis	6020A		1	744923	RN	EET CHI	12/01/23 13:23
Total/NA	Prep	7470A			743997	MJG	EET CHI	11/28/23 09:25 - 11/28/23 11:25 ¹
Total/NA	Analysis	7470A		1	744222	MJG	EET CHI	11/29/23 08:34
Total/NA	Analysis	SM 2540C		1	741308	CLB	EET CHI	11/08/23 23:29
Total/NA	Analysis	SM 4500 CI- E		10	742389	TR	EET CHI	11/15/23 13:29
Total/NA	Analysis	SM 4500 F C		1	743238	SO	EET CHI	11/20/23 15:10
Total/NA	Analysis	SM 4500 SO4 E		100	743332	TR	EET CHI	11/21/23 12:19

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

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 500-242144-1

Laboratory: Eurofins Chicago

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

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

1

2

3

4

5

6

7

8

9

10

11

12

13

ANALYTICAL REPORT

PREPARED FOR

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

Generated 12/13/2023 4:58:53 PM

JOB DESCRIPTION

Powerton CCR MCB (RAD)

JOB NUMBER

500-242144-2

Eurofins Chicago

Job Notes

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

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

Authorization



Generated
12/13/2023 4:58:53 PM

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

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Case Narrative

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

Job ID: 500-242144-2

Job ID: 500-242144-2

Laboratory: Eurofins Chicago

Narrative

**Job Narrative
500-242144-2**

Receipt

The samples were received on 11/7/2023 9:35 AM and 11/8/2023 9:55 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.3°C and 2.9°C

Gas Flow Proportional Counter

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

- 1
- 2
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- 5
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Method Summary

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

Job ID: 500-242144-2

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

Protocol References:

EPA = US Environmental Protection Agency

None = None

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

Laboratory References:

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



Sample Summary

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

Job ID: 500-242144-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-242144-1	MW-15	Water	11/06/23 14:21	11/07/23 09:35
500-242144-2	MW-17	Water	11/06/23 15:33	11/07/23 09:35
500-242144-3	Duplicate	Water	11/06/23 00:00	11/07/23 09:35
500-242144-4	MW-13	Water	11/06/23 12:57	11/07/23 09:35
500-242144-5	MW-14	Water	11/06/23 11:05	11/08/23 09:55

- 1
- 2
- 3
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- 10
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- 12
- 13
- 14

Client Sample Results

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

Job ID: 500-242144-2

Client Sample ID: MW-15

Lab Sample ID: 500-242144-1

Date Collected: 11/06/23 14:21

Matrix: Water

Date Received: 11/07/23 09:35

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	<0.238	U	0.138	0.138	1.00	0.238	pCi/L	11/10/23 11:12	12/13/23 07:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		30 - 110					11/10/23 11:12	12/13/23 07:12	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.630		0.361	0.366	1.00	0.523	pCi/L	11/10/23 11:17	12/12/23 15:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		30 - 110					11/10/23 11:17	12/12/23 15:54	1
Y Carrier	81.9		30 - 110					11/10/23 11:17	12/12/23 15:54	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.719		0.386	0.391	5.00	0.523	pCi/L		12/12/23 17:36	1

Client Sample Results

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

Job ID: 500-242144-2

Client Sample ID: MW-17

Lab Sample ID: 500-242144-2

Date Collected: 11/06/23 15:33

Matrix: Water

Date Received: 11/07/23 09:35

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	<0.216	U	0.122	0.122	1.00	0.216	pCi/L	11/10/23 11:12	12/13/23 07:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.2		30 - 110					11/10/23 11:12	12/13/23 07:11	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	<0.512	U	0.337	0.340	1.00	0.512	pCi/L	11/10/23 11:17	12/12/23 15:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.2		30 - 110					11/10/23 11:17	12/12/23 15:55	1
Y Carrier	81.9		30 - 110					11/10/23 11:17	12/12/23 15:55	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.533		0.358	0.361	5.00	0.512	pCi/L		12/12/23 17:36	1

Client Sample Results

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

Job ID: 500-242144-2

Client Sample ID: Duplicate

Lab Sample ID: 500-242144-3

Date Collected: 11/06/23 00:00

Matrix: Water

Date Received: 11/07/23 09:35

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	<0.286	U	0.135	0.135	1.00	0.286	pCi/L	11/10/23 11:12	12/13/23 07:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.4		30 - 110					11/10/23 11:12	12/13/23 07:11	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.827		0.365	0.373	1.00	0.472	pCi/L	11/10/23 11:17	12/12/23 15:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.4		30 - 110					11/10/23 11:17	12/12/23 15:55	1
Y Carrier	83.7		30 - 110					11/10/23 11:17	12/12/23 15:55	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.809		0.389	0.397	5.00	0.472	pCi/L		12/12/23 17:36	1

Client Sample Results

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

Job ID: 500-242144-2

Client Sample ID: MW-13
Date Collected: 11/06/23 12:57
Date Received: 11/07/23 09:35

Lab Sample ID: 500-242144-4
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.373		0.248	0.251	1.00	0.332	pCi/L	11/10/23 11:12	12/13/23 07:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.5		30 - 110					11/10/23 11:12	12/13/23 07:11	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.913		0.494	0.501	1.00	0.697	pCi/L	11/10/23 11:17	12/12/23 15:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.5		30 - 110					11/10/23 11:17	12/12/23 15:56	1
Y Carrier	83.4		30 - 110					11/10/23 11:17	12/12/23 15:56	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.29		0.553	0.560	5.00	0.697	pCi/L		12/12/23 17:36	1

Client Sample Results

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

Job ID: 500-242144-2

Client Sample ID: MW-14
Date Collected: 11/06/23 11:05
Date Received: 11/08/23 09:55

Lab Sample ID: 500-242144-5
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	<0.261	U	0.170	0.171	1.00	0.261	pCi/L	11/10/23 11:12	12/13/23 07:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.9		30 - 110					11/10/23 11:12	12/13/23 07:20	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.04		0.460	0.470	1.00	0.633	pCi/L	11/10/23 11:17	12/12/23 15:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.9		30 - 110					11/10/23 11:17	12/12/23 15:56	1
Y Carrier	78.5		30 - 110					11/10/23 11:17	12/12/23 15:56	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.22		0.490	0.500	5.00	0.633	pCi/L		12/12/23 17:36	1

Definitions/Glossary

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

Job ID: 500-242144-2

Qualifiers

Rad

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

Glossary

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

QC Association Summary

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

Job ID: 500-242144-2

Rad

Prep Batch: 636342

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-242144-1	MW-15	Total/NA	Water	PrecSep-21	
500-242144-2	MW-17	Total/NA	Water	PrecSep-21	
500-242144-3	Duplicate	Total/NA	Water	PrecSep-21	
500-242144-4	MW-13	Total/NA	Water	PrecSep-21	
500-242144-5	MW-14	Total/NA	Water	PrecSep-21	
MB 160-636342/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-636342/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-242144-1 DU	MW-15	Total/NA	Water	PrecSep-21	

Prep Batch: 636343

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-242144-1	MW-15	Total/NA	Water	PrecSep_0	
500-242144-2	MW-17	Total/NA	Water	PrecSep_0	
500-242144-3	Duplicate	Total/NA	Water	PrecSep_0	
500-242144-4	MW-13	Total/NA	Water	PrecSep_0	
500-242144-5	MW-14	Total/NA	Water	PrecSep_0	
MB 160-636343/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-636343/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-242144-1 DU	MW-15	Total/NA	Water	PrecSep_0	

QC Sample Results

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

Job ID: 500-242144-2

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-636342/1-A
Matrix: Water
Analysis Batch: 640457

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 636342

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	<0.242	U	0.125	0.125	1.00	0.242	pCi/L	11/10/23 11:12	12/13/23 07:10	1
Carrier	MB %Yield	MB Qualifier	Limits				Prepared		Analyzed	Dil Fac
Ba Carrier	105		30 - 110				11/10/23 11:12		12/13/23 07:10	1

Lab Sample ID: LCS 160-636342/2-A
Matrix: Water
Analysis Batch: 640457

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 636342

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	9.362		1.18	1.00	0.253	pCi/L	83	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	95.9		30 - 110						

Lab Sample ID: 500-242144-1 DU
Matrix: Water
Analysis Batch: 640457

Client Sample ID: MW-15
Prep Type: Total/NA
Prep Batch: 636342

Analyte	Sample	Sample	DU	DU	Total	RL	MDC	Unit	RER	RER
	Result	Qual	Result	Qual	Uncert. (2σ+/-)					Limit
Radium-226	<0.238	U	<0.216	U	0.149	1.00	0.216	pCi/L	0.27	1
Carrier	DU %Yield	DU Qualifier	Limits							
Ba Carrier	94.3		30 - 110							

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-636343/1-A
Matrix: Water
Analysis Batch: 640274

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 636343

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	<0.475	U	0.287	0.288	1.00	0.475	pCi/L	11/10/23 11:17	12/12/23 15:54	1
Carrier	MB %Yield	MB Qualifier	Limits				Prepared		Analyzed	Dil Fac
Ba Carrier	105		30 - 110				11/10/23 11:17		12/12/23 15:54	1
Y Carrier	82.2		30 - 110				11/10/23 11:17		12/12/23 15:54	1

QC Sample Results

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

Job ID: 500-242144-2

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

Lab Sample ID: LCS 160-636343/2-A
Matrix: Water
Analysis Batch: 640274

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 636343

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228	7.65	7.151		1.05	1.00	0.474	pCi/L	93	75 - 125		
		LCS	LCS								
Carrier	%Yield	Qualifier	Limits								
Ba Carrier	95.9		30 - 110								
Y Carrier	83.0		30 - 110								

Lab Sample ID: 500-242144-1 DU
Matrix: Water
Analysis Batch: 640274

Client Sample ID: MW-15
Prep Type: Total/NA
Prep Batch: 636343

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit	
										1	
Radium-228	0.630		<0.568	U	0.337	1.00	0.568	pCi/L	0.58	1	
		DU	DU								
Carrier	%Yield	Qualifier	Limits								
Ba Carrier	94.3		30 - 110								
Y Carrier	87.1		30 - 110								

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

WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 06NOV23
ACTWGT: 62.15 LB
CAD: 6994780/SSFE2460
DIMS: 24x19x14 IN

BILL THIRD PARTY

Part # 156207-839-1410955E86 05/24

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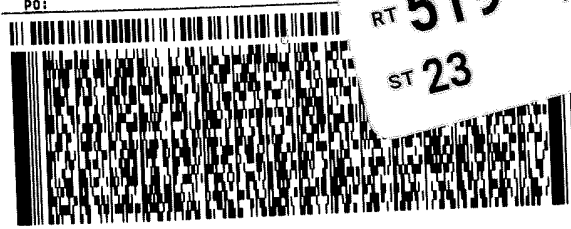


UNIVERSITY PARK IL 60484

500-242144 Waybi

(555) 555-5555
INV:
PO:

REF:



RT **519**
ST **23**

10:30

1760
11.07



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1 of 2

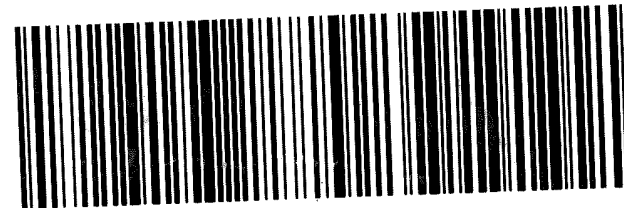
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MASTER

XP JOTA

TUE - 07 NOV 10:30A
PRIORITY OVERNIGHT

AHS
60484
IL-US ORD



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

SHIP DATE: 07NOV23
ACTWGT: 21.70 LB
CAD: 6994780/SSFE2460
DIMS: 16x12x11 IN
BILL THIRD PARTY

Part # 118297-4396-11198-SEN05/24

TO **EUROFINS**

2417 BOND ST.

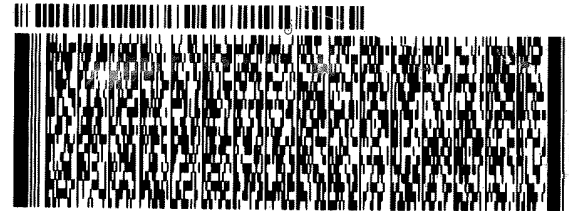
UNIVERSITY PARK IL 60484

500-242144 Waybi

(555) 555-5555
THU:
PO:

REF:

DEPT:



1 of 6

TRK# 7860 7723 0037
0201

MASTER

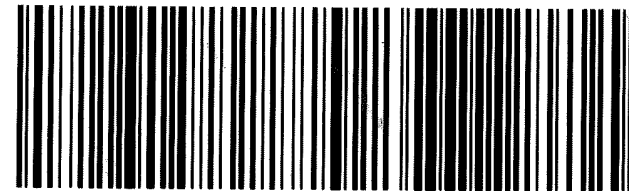
XP JOTA

WED - 08 NOV 10:30A
PRIORITY OVERNIGHT

AHS

60484

IL-US ORD



Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-242144-2

Login Number: 242144

List Number: 1

Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.3.2.9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-242144-2

Login Number: 242144

List Number: 2

Creator: Pinette, Meadow L

List Source: Eurofins St. Louis

List Creation: 11/09/23 03:38 PM

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



Lab Chronicle

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

Job ID: 500-242144-2

Client Sample ID: MW-15

Date Collected: 11/06/23 14:21

Date Received: 11/07/23 09:35

Lab Sample ID: 500-242144-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			636342	KAC	EET SL	11/10/23 11:12
Total/NA	Analysis	903.0		1	640457	FLC	EET SL	12/13/23 07:12
Total/NA	Prep	PrecSep_0			636343	KAC	EET SL	11/10/23 11:17
Total/NA	Analysis	904.0		1	640274	FLC	EET SL	12/12/23 15:54
Total/NA	Analysis	Ra226_Ra228		1	640269	SCB	EET SL	12/12/23 17:36

Client Sample ID: MW-17

Date Collected: 11/06/23 15:33

Date Received: 11/07/23 09:35

Lab Sample ID: 500-242144-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			636342	KAC	EET SL	11/10/23 11:12
Total/NA	Analysis	903.0		1	640457	FLC	EET SL	12/13/23 07:11
Total/NA	Prep	PrecSep_0			636343	KAC	EET SL	11/10/23 11:17
Total/NA	Analysis	904.0		1	640274	FLC	EET SL	12/12/23 15:55
Total/NA	Analysis	Ra226_Ra228		1	640269	SCB	EET SL	12/12/23 17:36

Client Sample ID: Duplicate

Date Collected: 11/06/23 00:00

Date Received: 11/07/23 09:35

Lab Sample ID: 500-242144-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			636342	KAC	EET SL	11/10/23 11:12
Total/NA	Analysis	903.0		1	640457	FLC	EET SL	12/13/23 07:11
Total/NA	Prep	PrecSep_0			636343	KAC	EET SL	11/10/23 11:17
Total/NA	Analysis	904.0		1	640274	FLC	EET SL	12/12/23 15:55
Total/NA	Analysis	Ra226_Ra228		1	640269	SCB	EET SL	12/12/23 17:36

Client Sample ID: MW-13

Date Collected: 11/06/23 12:57

Date Received: 11/07/23 09:35

Lab Sample ID: 500-242144-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			636342	KAC	EET SL	11/10/23 11:12
Total/NA	Analysis	903.0		1	640457	FLC	EET SL	12/13/23 07:11
Total/NA	Prep	PrecSep_0			636343	KAC	EET SL	11/10/23 11:17
Total/NA	Analysis	904.0		1	640274	FLC	EET SL	12/12/23 15:56
Total/NA	Analysis	Ra226_Ra228		1	640269	SCB	EET SL	12/12/23 17:36

Lab Chronicle

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

Job ID: 500-242144-2

Client Sample ID: MW-14

Date Collected: 11/06/23 11:05

Date Received: 11/08/23 09:55

Lab Sample ID: 500-242144-5

Matrix: Water

<u>Prep Type</u>	<u>Batch Type</u>	<u>Batch Method</u>	<u>Run</u>	<u>Dilution Factor</u>	<u>Batch Number</u>	<u>Analyst</u>	<u>Lab</u>	<u>Prepared or Analyzed</u>
Total/NA	Prep	PrecSep-21			636342	KAC	EET SL	11/10/23 11:12
Total/NA	Analysis	903.0		1	640618	FLC	EET SL	12/13/23 07:20
Total/NA	Prep	PrecSep_0			636343	KAC	EET SL	11/10/23 11:17
Total/NA	Analysis	904.0		1	640274	FLC	EET SL	12/12/23 15:56
Total/NA	Analysis	Ra226_Ra228		1	640269	SCB	EET SL	12/12/23 17:36

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 500-242144-2

Laboratory: Eurofins St. Louis

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	200023	11-30-24

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

Tracer/Carrier Summary

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

Job ID: 500-242144-2

Method: 903.0 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (30-110)	
500-242144-1	MW-15	101	
500-242144-1 DU	MW-15	94.3	
500-242144-2	MW-17	97.2	
500-242144-3	Duplicate	95.4	
500-242144-4	MW-13	92.5	
500-242144-5	MW-14	95.9	
LCS 160-636342/2-A	Lab Control Sample	95.9	
MB 160-636342/1-A	Method Blank	105	

Tracer/Carrier Legend
Ba = Ba Carrier

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (30-110)	Y (30-110)
500-242144-1	MW-15	101	81.9
500-242144-1 DU	MW-15	94.3	87.1
500-242144-2	MW-17	97.2	81.9
500-242144-3	Duplicate	95.4	83.7
500-242144-4	MW-13	92.5	83.4
500-242144-5	MW-14	95.9	78.5
LCS 160-636343/2-A	Lab Control Sample	95.9	83.0
MB 160-636343/1-A	Method Blank	105	82.2

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

PROJECT NAME	NRG - POWERTON STATION - 12313.1		DATE	11/6/23
Sample Name	MW-13	Start Time	1231	
Condition of Well	Good			
Water Level	33.25	Total Depth	-	
Well Diameter	PVC - 2 inch	Volume in Well	-	
Method of Purge	Low flow bladder	Purge Characteristics	Cloudy Gray/Brown	
Volume Removed	8 qt	WL at Sample Time	33.25	
Method of Sample	Low flow bladder	Sample Characteristics	Cloudy Gray	
Sample Analysis	CCR MCB, CCA	Sample Time	1257	
Water Quality Meter	YSI Pro Dss			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1233	33.25	7.78	16.0	1.977	6.45	65.6	188.81
1236	-	7.87	16.0	2.021	3.73	58.8	132.92
1239	-	7.85	16.0	2.018	2.75	115	47.39
1241	-	7.84	16.0	2.018	2.37	-475	30.73
1244 1251	-	7.82	16.0	2.008	2.11	-100.0	21.20
1247	-	7.80	16.0	1.996	1.81	-134.2	19.82
1250 1251	-	7.79	16.1	1.982	1.67	-149.4	14.56
1253	-	7.78	16.1	1.974	1.57	-155.1	15.43

SAMPLING NOTES: CCR MCB Duplicate

Sampler Name and Company:

KPRG and Associates

KLS

PROJECT NAME	NRG - POWERTON STATION - 12313.1		DATE	11/6/23
Sample Name	MW-14	Start Time	1048	
Condition of Well	Good			
Water Level	31.26	Total Depth	-	
Well Diameter	PVC - 2 inch	Volume in Well	-	
Method of Purge	Low flow bladder	Purge Characteristics	Clear	
Volume Removed	1 qt	WL at Sample Time	-	
Method of Sample	Low flow bladder	Sample Characteristics	Clear	
Sample Analysis	CCR MCB, CCA	Sample Time	CCR MCB / CCA 1105 / 11/9/23/1030	
Water Quality Meter	YSI Pro Dss			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1052	31.26	7.00	17.6	2.787	7.83	157.6	27.20
1055	-	6.99	17.4	2.841	6.75	151.6	30.07
1058	-	6.98	17.5	2.845	5.45	146.8	34.00
1101		6.95	17.5	2.842	4.07	141.3	34.43

SAMPLING NOTES: Not enough water to collect CCA on 11/6
 -filled all CCA EXCEPT NO₃ & radium - insufficient water to fill entire set - 11/9/23

Sampler Name and Company:

KPRG and Associates

KLS

PROJECT NAME	NRG - POWERTON STATION - 12313.1		DATE	11/6/23
Sample Name	MW-15	Start Time	1402	
Condition of Well	Good			
Water Level	26.04	Total Depth	-	
Well Diameter	PVC - 2 inch	Volume in Well	-	
Method of Purge	Low flow bladder	Purge Characteristics	Cloudy Orange/Brown	
Volume Removed	6 qt	WL at Sample Time	-	
Method of Sample	Low flow bladder	Sample Characteristics	Slightly Cloudy Brown	
Sample Analysis	CCR MCB, CCA ABB/ASB	Sample Time	MCB & 1421 ABB/ASB	
Water Quality Meter	YSI Pro Dss		CCA sample time: 11/8/23/1510	

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1405 1403	26.04	7.07	16.4	2.002	6.03	-124.2	530.64
1408	-	7.05	16.1	1.945	3.44	-149.5	86.65
1411	-	7.05	16.0	1.957	2.54	-152.1	19.33
1414	-	7.05	16.0	1.963	2.10	-154.4	12.42
1417	-	7.05	16.0	1.975	1.82	-155.2	9.00

SAMPLING NOTES: -WL below pump @ sample time
 - Only collected half of ABB/ASB need to return once recharged
 - Return to continue sampling for ABB/ASB & CCA if possible - 11/8/23/1500

Sampler Name and Company: KPRG and Associates *Jm*

PROJECT NAME	NRG - POWERTON STATION - 12313.1		DATE	11/6/23
Sample Name	MW-17	Start Time	1518	
Condition of Well	Good			
Water Level	24.42	Total Depth	-	
Well Diameter	PVC - 2 inch	Volume in Well	-	
Method of Purge	Low flow bladder	Purge Characteristics	Slightly Cloudy BROWN	
Volume Removed	4 qt	WL at Sample Time	25.30	
Method of Sample	Low flow bladder	Sample Characteristics	Clear	
Sample Analysis	CCR MCB, ABB/ASB	Sample Time	1533	
Water Quality Meter	YSI Pro Dss			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1520	24.42	7.27	15.6	1.656	5.60	69.6	149.72
1523	-	7.18	15.5	1.609	4.41	67.1	30.99
1526	-	7.18	15.5	1.615	3.93	64.8	14.99
1529	-	7.18	15.5	1.627	3.98	62.1	6.02

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates

KCS

