DATA SUMMARY POSTING

Station: Midwest Generation Powerton Generating Station

Regulated Unit(s): Former Ash Basin (IEPA ID No. W1798010008-05)

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 1st quarter 2024 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. In addition, 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 submitted October 31, 2021. 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.

Table 1. Groundwater Analytical Results - Midwest Generation, LLC, Powerton Station, Pekin, IL. Former Ash 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 Combined	Selenium	Thallium
MW-01 up-gradient	11/16/2015	1.0	98	44	0.17	7.07	93	530	< 0.003	< 0.001	0.057	^ < 0.001	< 0.0005	< 0.005	< 0.001	* < 0.0005	< 0.01	< 0.0002	< 0.0050	0.744	< 0.0025	* < 0.002
	2/25/2016	0.2	110	42	0.16	7.23	54	460	< 0.003	0.0025	0.053	< 0.001	< 0.0005	< 0.005	0.0014	0.0019	< 0.01	< 0.0002	< 0.005	< 0.722	0.0029	< 0.002
	5/20/2016	0.34	100	44	0.17	6.95	65	430	< 0.003	0.0081	0.062	< 0.001	< 0.0005	0.007	0.0053	0.011	< 0.01	< 0.0002	< 0.005	< 0.953	< 0.0025	< 0.002
	8/17/2016	0.27	78	39	0.25	7.16	50	530	< 0.003	0.0014	0.048	< 0.001	< 0.0005	< 0.005	< 0.001	0.0014	< 0.01	< 0.0002	0.0057	< 0.491	< 0.0025	< 0.002
	11/16/2016	0.18	97	39	0.21	7.22	32	500	< 0.003	0.0051	0.056	< 0.001	< 0.0005	< 0.005	0.0044	0.0082	< 0.01	< 0.0002	0.0059	< 0.618	< 0.0025	< 0.002
	2/14/2017	0.18	120	55	0.17	7.30	60	550	< 0.003	0.0041	0.056	< 0.001	< 0.0005	< 0.005	0.0045	0.0076	< 0.01	< 0.0002	0.0056	< 0.837	< 0.0025	< 0.002
	5/3/2017	0.19	86	66	0.16	7.41	45	460	< 0.003	0.0015	0.045	< 0.001	< 0.0005	< 0.005	0.0033	0.0067	< 0.01	< 0.0002	< 0.005	0.574	< 0.0025	< 0.002
	6/21/2017	0.18	85	58	0.18	7.60	47	540	< 0.003	< 0.001	0.040	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.0061	< 0.418	< 0.0025	< 0.002
	8/25/2017	0.56	86	41	0.18	7.41	63	490	< 0.003	< 0.001	0.049	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.0059	0.775	< 0.0025	< 0.002
	11/8/2017	0.57	130	38	0.12	6.69	61	640	< 0.003	< 0.001	0.083	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.005	0.343	< 0.0025	< 0.002
	5/17/2018	0.15	88	50	0.12	6.70	48	540	< 0.003	< 0.001	0.045	< 0.001	< 0.0005	< 0.005	< 0.001	0.00068	< 0.01	< 0.0002	< 0.005	< 0.396	< 0.0025	< 0.002
	8/8/2018	0.14	86	48	0.13	6.80	43	430	< 0.003	< 0.001	0.051	^< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.005	0.579	< 0.0025	< 0.002
	4/30/2019	0.07	78	54	0.17	7.20	27	450	< 0.003	0.0014	0.039	< 0.001	< 0.0005	< 0.005	< 0.001	0.0017	< 0.01	< 0.0002	< 0.005	< 0.656	< 0.0025	< 0.002
	8/26/2019	0.57	100	39	0.13	7.15	71	550	< 0.003	< 0.001	0.053	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.005	0.802	< 0.0025	< 0.002
	2/24/2020	0.28	87	53	0.21	7.19	34	410	< 0.003	< 0.001	0.044	^< 0.001	< 0.0005	< 0.005	< 0.001	0.00057	< 0.01	< 0.0002	< 0.005	< 0.478	< 0.0025	< 0.002
	4/28/2020	0.33	110	46	0.19	7.17	41	470	NA	< 0.001	0.051	NA	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.005	0.628	< 0.0025	< 0.002
	12/7/2020	0.59	100	54	0.25	7.22	55	640	NA	< 0.001	0.058	NA	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.0052	< 0.542	< 0.0025	< 0.002
	5/11/2021	0.21	85	51	0.21	7.52	37	450	< 0.003	< 0.001	0.043	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.01	0.521	< 0.0025	< 0.002
	8/24/2021	0.27	99	40	0.18	7.19	56	430	< 0.003	< 0.001	0.061	< 0.001	< 0.0005	< 0.005	< 0.001	0.00088	< 0.01	< 0.0002	0.007	< 0.463	< 0.0025	< 0.002
	11/30/2021	0.35	84	41	0.19	7.14	^~ 28	410	< 0.003	< 0.001	0.06	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.005	< 0.0002	0.0072	< 0.434	0.0026	< 0.002
	2/9/2022	0.18	96	47	0.17	7.33	48	520	< 0.003	0.0017	0.052	< 0.001	< 0.0005	< 0.005	< 0.001	0.0012	0.003	< 0.0002	0.0074	< 0.527	< 0.0025	< 0.002
	6/7/2022	0.21	81	51	0.14	7.62	27	430	< 0.003	< 0.001	0.04	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.0057	0.531	< 0.0025	< 0.002
	8/30/2022	0.59	92	44	0.15	7.10	66	810	< 0.003	< 0.001	0.073	^+ < 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	^+ < 0.01	< 0.0002	< 0.005	< 0.441	< 0.0025	< 0.002
	11/15/2022	0.74	110	47	0.1	7.15	45	530	< 0.003	< 0.001	0.086	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.005	0.659	< 0.0025	< 0.002
	2/22/2023	0.46	110	52	0.14	7.51	92	500	< 0.0030	< 0.0010	0.082	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	< 0.0050	< 0.503	< 0.0025	< 0.0020
	5/17/2023	0.29	91	39	< 0.10	7.23	39	400	< 0.0030	< 0.0010	0.055	^+ ^1+ < 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	< 0.0050	< 0.357	< 0.0025	< 0.0020
	8/29/2023	0.59	100	47	< 0.10	6.98	43	530	< 0.0020	< 0.0020	0.078	< 0.0010	< 0.00020	< 0.0050	< 0.0005	< 0.00050	< 0.010	< 0.00020	0.0020	< 0.574	< 0.005	< 0.0010
	11/7/2023	0.45	110	50	< 0.10	6.95	68	590	< 0.0030	< 0.0010	0.090	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	^+ < 0.010	< 0.00020	< 0.0050	< 0.356	0.0026	< 0.0020
	2/21/2024	1.5	120	46	0.10	7.12	81	580	< 0.0030	< 0.0010	0.090	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	< 0.0050	< 0.528	< 0.0025	< 0.0020
MW-10 up-gradient	6/22/2017	0.46	100	48	0.19	6.81	54	1.0	< 0.003	0.0023	0.250	< 0.001	< 0.0005	< 0.005	0.008	0.003	< 0.01	< 0.0002	< 0.005	0.408	0.0042	< 0.002
	8/24/2017	0.32	93	51	0.18	7.14	57	480	< 0.003	0.0020	0.220	< 0.001	< 0.0005	< 0.005	0.007	0.003	< 0.01	< 0.0002	< 0.005	0.564	0.0044	< 0.002
	11/9/2017	0.36	98	48	0.18	6.78	64	500	< 0.003	< 0.0010	0.220	< 0.001	< 0.0005	< 0.005	0.004	< 0.001	< 0.01	< 0.0002	< 0.005	1.020	0.0034	< 0.002
	5/16/2018	0.42	93	44	0.19	7.64	80	530	< 0.003	0.0010	0.220	< 0.001	< 0.0005	< 0.005	0.021	0.001	< 0.01	< 0.0002	< 0.005	1.550	0.0050	< 0.002
	8/8/2018	0.39	99	58	0.19	7.10	60	550	< 0.003	0.0012	0.220	<^ 0.001	< 0.0005	< 0.005	0.014	0.001	< 0.01	< 0.0002	< 0.005	< 0.551	0.0062	< 0.002
	10/30/2018	0.34	110	49	0.22	7.65	49	510	< 0.003	0.0110	0.410	< 0.001	0.0008	0.024	0.047	0.023	0.02	< 0.0002	< 0.005	3.00	0.0046	< 0.002
	2/26/2019	0.39	150	48	0.21	6.77	36	540	< 0.003	0.0220	0.590	< 0.005	0.0015	0.063	0.081	0.036	0.03	< 0.0002	0.007	4.130	0.0041	< 0.002
	5/1/2019	0.35	92	50	0.22	6.81	30	470	< 0.003	0.0023	0.270	< 0.001	< 0.0005	< 0.005	0.011	0.0028	< 0.01	< 0.0002	< 0.005	1.330	0.0037	< 0.002
	8/26/2019	0.30	84	48	0.19	7.09	30	410	< 0.003	0.0017	0.190	< 0.001	< 0.001	< 0.005	0.007	0.0016	< 0.01	< 0.0002	< 0.005	1.540	0.0050	< 0.002
	2/25/2020	1.40	110	45	0.23	6.82	59	500	< 0.003	0.0033	0.280	< ^ 0.001	< 0.0005	0.0086	0.011	0.0046	< 0.01	< 0.0002	< 0.005	1.07	0.0058	< 0.002
	4/28/2020	1.00	110	41	0.24	6.80	64	550	NA	0.0022	0.250	NA	NA	< 0.005	0.0065	0.0017	NA	NA	< 0.005	0.639	0.0054	NA
	12/8/2020	2.40	120	44	0.26	7.11	71	550	NA	0.0015	0.280	NA	NA	< 0.005	0.0089	0.0023	NA	< 0.0002	< 0.005	1.76	0.0031	NA
	5/11/2021	0.64	100	52	0.24	7.01	59	540	< 0.003	0.0011	0.260	< 0.001	< 0.0005	< 0.005	0.008	0.00085	< 0.01	< 0.0002	< 0.005	1.42	0.0049	< 0.002
	8/24/2021	0.42	98	53	0.21	6.87	46	420	< 0.003	0.0017	0.24	< 0.001	< 0.0005	< 0.005	0.0082	0.002	< 0.01	< 0.0002	< 0.005	0.638	0.0051	< 0.002
	11/30/2021	0.42	100	47	0.19	6.99	^~ 36	530	< 0.003	0.0015	0.2	< 0.001	< 0.0005	< 0.005	0.0037	0.00051	0.0031	< 0.0002	< 0.005	1.39	< 0.0025	< 0.002
	2/9/2022	0.41	94	48	0.22	6.88	50	530	< 0.003	0.011	0.6	< 0.001	0.00064	0.026	0.054	0.021	0.011	< 0.0002	< 0.005	6.51	0.0045	< 0.002
	3/29/22 (R)	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.811	NS	NS
	6/7/2022	0.43	85	44	0.21	7.09	38	390	< 0.003	0.0011	0.18	< 0.001	< 0.0005	< 0.005	0.0028	< 0.0005	< 0.01	< 0.0002	< 0.005	0.687	0.0049	< 0.002
	8/30/2022	0.38	92	45	0.22	6.83	38	590	< 0.003	0.0012	0.24	^+< 0.001	< 0.0005	< 0.005	0.0086	0.00074	^+ < 0.01	< 0.0002	< 0.005	1.4	< 0.0025	< 0.002
	11/15/2022	0.44	99	49	0.28	7.03	48	470	< 0.003	< 0.001	0.2	< 0.001	< 0.0005	< 0.005	0.0052	< 0.0005	< 0.01	< 0.0002	< 0.005	0.909	< 0.0025	< 0.002
	2/22/2023	1.3	100	40	0.22	7.57	66	510	< 0.0030	0.0010	0.22	< 0.0010	< 0.00050	< 0.0050	0.0039	0.00057	< 0.010	< 0.00020	< 0.0050	0.753	0.0040	< 0.0020
	5/17/2023	1.8	130	34	0.25	7.07	84	610	< 0.0030	0.0017	0.32	^+ ^1+ < 0.0010	< 0.00050	< 0.0050	0.012	0.0018	< 0.010	< 0.00020	< 0.0050	2.52	0.0047	< 0.0020
	8/29/2023	1.3	96	56	0.29	7.00	50	510	< 0.0020	< 0.002	0.2	< 0.0010	< 0.00020	< 0.0050	0.0042	0.00083	< 0.010	< 0.00020	< 0.0020	< 0.667	< 0.005	< 0.0010
	11/7/2023	2.4	110	42	0.31	7.11	150	630	< 0.0030	0.0015	0.25	< 0.0010	< 0.00050	< 0.0050	0.0081	0.0019	^+ < 0.010	< 0.00020	< 0.0050	1.91	0.0043	< 0.0020
	2/21/2024	6.5	110	37	0.26	7.21	150	660	< 0.0030	0.0014	0.27	< 0.0010	< 0.00050	< 0.0050	0.0045	0.0017	< 0.010	< 0.00020	< 0.0050	< 0.664	0.0062	< 0.0020
MW-02 down-gradient	6/20/2017	0.33	90	55	0.19	7.01	47	500	< 0.003	0.0012	0.075	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.005	< 0.341	< 0.0025	< 0.002
	8/23/2017	V 1.30	86	49	0.19	7.40	61	440	< 0.003	< 0.001	0.062	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.005	0.833	< 0.0025	< 0.002
	11/7/2017	3.70	98	46	0.17	7.10	88	550	< 0.003	0.0014	0.091	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.005	< 0.309	0.0027	< 0.002
	5/15/2018	0.22	80	45	0.23	7.71	54	500	< 0.003	0.0013	0.065	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	0.0004	< 0.005	< 0.408	< 0.0025	< 0.002
	8/7/2018	1.50	89	54	0.15	7.09	51	530	< 0.003	0.0016	0.067	<^ 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.005	0.622	< 0.0025	< 0.002
	10/30/2018	0.23	86	43	0.17	7.83	34	480	< 0.003	0.0015	0.067	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.005	0.564	< 0.0025	< 0.002
	2/26/2019	0.07	69	49	0.16	7.82	23	400	< 0.003	0.0026	0.041	< 0.001	< 0.0005	< 0.005	< 0.001	0.0013	< 0.01	< 0.0002	< 0.005	< 0.425	< 0.0025	< 0.002
	4/30/2019	0.12	79	48	0.16	7.60	30	440	< 0.003	0.0013	0.048	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.005	< 0.441	< 0.0025	< 0.002
	8/26/2019	0.51	86	50	0.18	7.13	32	400	< 0.003	0.0011	0.065	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.005	1.180	< 0.0025	< 0.002
	2/24/2020	0.33	89	53	0.20	7.43	37	410	< 0.003	0.0011	0.061	< ^ 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.005	0.485	< 0.0025	< 0.002
	4/28/2020	0.33	90	50	0.20	7.32	41	430	NA	0.0016	0.06	NA	NA	< 0.005	< 0.001	< 0.0005	NA	NA	< 0.005	< 0.54	< 0.0025	NA
	12/9/2020	0.66	100	41	0.15	7.78	64	430	NA	< 0.001	0.076	NA	NA	< 0.005	< 0.001	< 0.0005	NA	< 0.0002	0.0059	< 0.471	< 0.0025	NA
	5/11/2021	0.23	79	51	0.21	7.70	37	370	< 0.003	0.0015	0.057	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.0095	< 0.528	< 0.0025	< 0.002
	8/24/2021	0.63	94	47	0.17	7.31	56	340	< 0.003	0.0014	0.073	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.005	< 0.47	< 0.0025	< 0.002
	11/30/2021	0.22	87	41	0.14	7.39	^~ 36	380	< 0.003	0.0017	0.065	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.0045	< 0.0002	< 0.005	0.575	< 0.0025	< 0.002
	2/8/2022	0.27	95	47	0.2	7.69	49	550	< 0.003	0.0017	0.054	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.0025	< 0.0002	0.0076	0.554	< 0.0025	< 0.002
	6/7/2022	0.23	86	49	0.16	7.73	32	440	< 0.003	0.0016	0.064	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.0100	< 0.0002	0.0063	0.665	< 0.0025	< 0.002
	8/30/2022	1.1	95	45	0.15	7.22	75	690	< 0.003	< 0.001	0.073	^+ < 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	^+ < 0.0100	< 0.0002	< 0.005	0.535	< 0.0025	< 0.002
	11/14/2022	1.6	96	49	0.21	7.14	63	480	< 0.003	< 0.001	0.083	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.0100	< 0.0002	< 0.005	< 0.587	< 0.0025	< 0.002
	2/21/2023	2.5	110	49	0.14	7.64	92	630	< 0.0030	< 0.0010	0.095	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	< 0.0050	< 0.563	< 0.0025	< 0.0020
	5/16/2023	0.53	83	47	0.15	7.48	33	400	< 0.0030	0.0011	0.065	^+ ^1+ < 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	< 0.0050	< 0.519	< 0.0025	< 0.0020
	8/28/2023	2.7	94	46	0.16	7.17	70	490	F1 < 0.0020	< 0.002	0.081	< 0.0010	< 0.00020	< 0.0050	< 0.0005	0.00058	< 0.010	< 0.00020	< 0.0020	< 0.742	< 0.005	F1 0.0031
	11/7/2023	3.6	120	45	0.15	7.14	170	680	< 0.0030	< 0.0010	0.10	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	^+ < 0.010	< 0.00020	< 0.0050	< 0.320	0.0026	< 0.0020
	2/22/2024	0.25	76	62	0.14	7.43	47	480	< 0.0030	< 0.0010	0.059	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	< 0.0050	< 0.559	0.0029	< 0.0020

Notes: All units are in mg/l except pH is in standard units.
V- Serial dilution exceeds control limits.
H- Sample was prepped or analyzed beyond specified holding time
F1 - MS and/or MSD Recovery outside of limits.
* - LCS or LCSD is outside acceptance limits.
^ - Denotes instrument related QC exceeds the control limits
NA - Not Analyzed

Table 1. Groundwater Analytical Results - Midwest Generation, LLC, Powerton Station, Pekin, IL. Former Ash 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 Combined	Selenium	Thallium
MW-03 down-gradient	6/20/2017	0.4	76	54	0.29	7.26	49	480	< 0.003	0.0013	0.066	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.005	< 0.325	< 0.0025	< 0.002
	8/23/2017	0.40	79	52	0.28	7.44	52	430	< 0.003	0.0010	0.066	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.005	1.200	< 0.0025	< 0.002
	11/7/2017	0.31	79	62	0.26	7.04	61	460	< 0.003	0.0013	0.068	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.005	0.588	< 0.0025	< 0.002
	5/15/2018	0.35	87	66	0.27	7.53	77	520	< 0.003	0.0010	0.059	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.005	< 0.489	< 0.0025	< 0.002
	8/7/2018	0.40	82	67	0.22	6.60	49	500	< 0.003	0.0015	0.067	^< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.005	< 0.341	< 0.0025	< 0.002
	10/30/2018	0.20	74	44	0.25	7.84	26	400	< 0.003	0.0014	0.056	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.005	< 0.354	< 0.0025	< 0.002
	2/26/2019	0.06	74	56	0.24	7.49	25	410	< 0.003	0.0013	0.054	< 0.001	< 0.0005	< 0.005	< 0.001	0.0007	< 0.01	< 0.0002	< 0.005	< 0.399	< 0.0025	< 0.002
	4/30/2019	0.28	74	49	0.22	7.17	38	390	< 0.003	< 0.001	0.060	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.005	< 0.668	< 0.0025	< 0.002
	8/26/2019	0.31	75	50	0.26	7.17	14	380	< 0.003	0.0014	0.069	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.005	< 0.444	< 0.0025	< 0.002
	2/24/2020	0.33	87	53	0.22	7.10	65	470	< 0.003	< 0.001	0.066	^< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.005	< 0.400	< 0.0025	< 0.002
	4/28/2020	0.24	86	46	0.22	7.03	79	410	NA	0.0013	0.066	NA	NA	< 0.005	< 0.001	< 0.0005	NA	NA	< 0.005	< 0.498	0.0036	NA
	12/9/2020	0.86	92	45	0.28	7.46	60	390	NA	< 0.001	0.086	NA	NA	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.005	< 0.432	< 0.0025	NA
	5/11/2021	0.22	75	49	0.21	7.33	38	390	< 0.003	< 0.001	0.07	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.005	< 0.519	< 0.0025	< 0.002
	8/24/2021	0.41	81	46	0.25	7.15	32	310	< 0.003	0.0012	0.072	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.005	< 0.444	< 0.0025	< 0.002
	11/30/2021	0.3	76	47	0.26	7.20	^- 23	350	< 0.003	0.0014	0.063	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.004	< 0.0002	< 0.005	< 0.436	< 0.0025	< 0.002
	2/8/2022	0.2	94	47	0.21	7.22	50	550	< 0.003	0.001	0.058	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.003	< 0.0002	< 0.005	0.593	< 0.0025	< 0.002
	6/7/2022	0.37	79	45	0.22	7.37	47	370	< 0.003	0.0012	0.064	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.005	0.851	< 0.0025	< 0.002
	8/30/2022	0.57	87	50	0.21	7.10	51	710	< 0.003	< 0.001	0.1	^+ < 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	^+ < 0.01	< 0.0002	< 0.005	0.589	< 0.0025	< 0.002
	11/14/2022	0.42	81	49	0.28	7.23	44	430	< 0.003	< 0.001	0.11	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.005	< 0.54	< 0.0025	< 0.002
	2/21/2023	1.00	96	53	0.20	7.75	70	550	< 0.0030	< 0.0010	0.11	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	< 0.0050	< 0.493	< 0.0025	< 0.0020
	5/16/2023	0.15	80	69	0.21	7.42	31	420	< 0.0030	< 0.0010	0.068	^+ ^1+ < 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	< 0.0050	0.993	0.0038	< 0.0020
	8/28/2023	0.32	73	82	0.20	7.28	36	430	< 0.0020	< 0.0020	0.096	< 0.0010	< 0.00020	< 0.0050	< 0.0005	< 0.00050	< 0.010	< 0.00020	0.0023	< 0.742	0.0070	0.0030
	11/7/2023	1.1	90	59	0.19	7.29	91	530	< 0.0030	< 0.0010	0.12	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	^+ < 0.010	< 0.00020	< 0.0050	< 0.0758	0.0055	< 0.0020
	2/22/2024	0.19	88	64	0.20	7.51	66	520	< 0.0030	< 0.0010	0.064	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	< 0.0050	< 0.698	0.0058	< 0.0020
MW-04 down-gradient	6/20/2017	0.5	77	55	0.29	7.45	53	480	< 0.003	< 0.001	0.0025	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.005	< 0.343	< 0.0025	< 0.002
	8/28/2017	V 0.73	90	89	0.33	7.13	110	680	< 0.003	< 0.001	0.028	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.013	< 0.246	< 0.0025	< 0.002
	11/7/2017	0.60	110	94	0.24	6.80	130	650	< 0.003	< 0.001	0.051	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.005	< 0.332	0.0092	< 0.002
	5/15/2018	0.68	87	66	0.27	7.63	100	630	< 0.003	< 0.001	0.037	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.005	0.661	< 0.0025	< 0.002
	8/7/2018	0.79	84	71	0.32	6.72	49	510	< 0.003	0.0011	0.031	<^ 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.006	< 0.334	< 0.0025	< 0.002
	10/30/2018	0.54	100	80	0.24	7.55	91	690	< 0.003	< 0.001	0.049	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.005	0.423	< 0.0025	< 0.002
	2/26/2019	0.38	79	55	0.25	7.18	52	490	< 0.003	0.0013	0.033	< 0.001	< 0.0005	< 0.005	0.001	0.0012	< 0.01	< 0.0002	< 0.005	0.366	< 0.0025	< 0.002
	4/30/2019	0.36	74	48	0.25	7.08	35	380	< 0.003	< 0.001	0.026	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.005	< 0.684	< 0.0025	< 0.002
	8/26/2019	0.64	91	60	0.24	7.08	14	490	< 0.003	< 0.001	0.032	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.008	1.090	< 0.0025	< 0.002
	2/24/2020	0.34	81	49	0.20	7.05	67	440	< 0.003	< 0.001	0.024	^< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.005	0.595	< 0.0025	< 0.002
	4/28/2020	0.55	76	52	0.27	7.03	47	380	NA	< 0.001	0.025	NA	NA	< 0.005	< 0.001	< 0.0005	NA	NA	< 0.005	< 0.465	< 0.0025	NA
	12/9/2020	0.57	92	88	0.32	7.10	94	580	NA	< 0.001	0.034	NA	NA	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.0076	< 0.411	< 0.0025	NA
	5/11/2021	0.61	77	44	0.33	7.22	76	410	< 0.003	< 0.001	0.025	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.005	0.533	< 0.0025	< 0.002
	8/24/2021	0.72	78	48	0.34	7.12	15	100	< 0.003	< 0.001	0.024	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.014	< 0.427	< 0.0025	< 0.002
	11/30/2021	0.51	99	56	0.25	6.95	^- 62	560	< 0.003	0.0012	0.035	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.0035	< 0.0002	< 0.005	< 0.419	< 0.0025	< 0.002
	2/8/2022	0.47	88	59	0.29	7.15	52	580	< 0.003	< 0.001	0.03	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.0038	< 0.0002	0.006	0.818	< 0.0025	< 0.002
	6/7/2022	0.48	73	43	0.3	7.31	30	320	< 0.003	< 0.001	0.025	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.0051	< 0.473	< 0.0025	< 0.002
	8/30/2022	0.67	94	61	0.21	6.80	67	720	< 0.003	< 0.001	0.034	^+ < 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	^+ < 0.01	< 0.0002	< 0.005	< 0.546	< 0.0025	< 0.002
	11/14/2022	0.84	110	62	0.2	6.85	41	570	< 0.003	< 0.001	0.08	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.005	< 0.583	0.0074	< 0.002
	2/21/2023	0.75	89	54	0.22	7.58	54	540	< 0.0030	< 0.0010	0.035	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	< 0.0050	< 0.567	0.0037	< 0.0020
	5/16/2023	0.66	100	51	0.270	7.21	120	550	< 0.0030	< 0.0010	0.034	^+ ^1+ < 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	< 0.0050	< 0.624	< 0.0025	< 0.0020
	8/28/2023	0.78	95	72	0.24	7.02	110	610	< 0.0020	< 0.0020	0.062	< 0.0010	< 0.00020	< 0.0050	< 0.0050	< 0.00050	< 0.010	< 0.00020	< 0.0020	< 0.669	< 0.005	< 0.0010
	11/7/2023	0.78	100	59	0.21	7.01	150	620	< 0.0030	< 0.0010	0.065	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	^+ < 0.010	< 0.00020	< 0.0050	0.679	0.0070	< 0.0020
	2/22/2024	0.61	96	60	0.23	7.29	63	520	< 0.0030	< 0.0010	0.041	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	< 0.0050	< 0.479	0.0042	< 0.0020
MW-05 down-gradient	5/17/2016	0.70	100	85	0.35	7.08	120	660	< 0.003	< 0.001	0.051	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.005	< 0.373	< 0.0025	< 0.002
	8/16/2016	0.69	110	97	0.30	6.85	150	830	< 0.003	< 0.001	0.060	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.005	< 0.452	< 0.0025	< 0.002
	11/15/2016	0.93	94	66	0.23	6.96	77	620	< 0.003	< 0.001	0.051	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.005	0.449	< 0.0025	< 0.002
	2/14/2017	0.79	100	100	0.25	7.25	170	760	< 0.003	< 0.001	0.062	< 0.001	< 0.0005	< 0.005	< 0.001	0.00091	< 0.01	< 0.0002	< 0.005	< 0.359	< 0.0025	< 0.002
	5/1/2017	0.70	100	92	0.28	7.60	170	710	< 0.003	< 0.001	0.059	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.0066	< 0.439	< 0.0025	< 0.002
	6/20/2017	0.64	89	63	0.28	7.32	78	550	< 0.003	< 0.001	0.048	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.0061	< 0.365	< 0.0025	< 0.002
	8/28/2017	0.62	110	120	0.33	7.05	210	870	< 0.003	< 0.001	0.064	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.0085	0.381	< 0.0025	< 0.002
	11/7/2017	0.51	99	110	0.31	6.87	160	990	< 0.003	< 0.001	0.058	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.005	< 0.341	< 0.0025	< 0.002
	5/15/2018	0.61	130	89	0.29	7.70	210	910	< 0.003	< 0.001	0.062	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.005	< 0.390	< 0.0025	< 0.002
	8/7/2018	0.49	110	120	0.32	6.56	180	890	< 0.003	< 0.001	0.054	^< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.0069	0.523	< 0.0025	< 0.002
	4/30/2019	0.56	84	73	0.36	6.96	120	590	< 0.003	< 0.001	0.041	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.0061	< 0.709	< 0.0025	< 0.002
	8/26/2019	0.57	110	75	0.29	7.01	110	660	< 0.003	< 0.001	0.050	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.0067	0.651	< 0.0025	< 0.002
	2/24/2020	0.54	110	70	0.36	6.90	120	H 700	< 0.003	< 0.001	0.057	^< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.0061	0.506	< 0.0025	< 0.002
	4/28/2020	0.49	110	56	0.37	6.87	130	620	NA	0.001	0.052	NA	NA	< 0.005	< 0.001	< 0.0005	NA	NA	0.0074	0.508	< 0.0025	NA
	12/9/2020	0.53	98	78	0.31	6.91	110	670	NA	< 0.001	0.05	NA	NA	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.0072	0.569	< 0.0025	NA
	5/11/2021	0.50	83	52	0.38	7.20	100	530	< 0.003	< 0.001	0.04	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.0062	< 0.525	< 0.0025	< 0.002
	8/24/2021	0.55	88	69	0.32	6.84	99	500	< 0.003	< 0.001	0.041	< 0.001	< 0.0005	0.007	< 0.001	< 0.0005	< 0.01	< 0.0002	0.0073	0.863	< 0.0025	< 0.002
	11/30/2021	0.68	99	67	0.3	6.92	^- 92	620	< 0.003	0.0011	0.048	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.0052	< 0.0002	0.0051	0.632	< 0.0025	< 0.002
	2/8/2022	0.56	88	68	0.36	6.95	91	650	< 0.003	< 0.001	0.043	< 0.001	0.00066	< 0.005	0.0023	0.0017	0.0051	< 0.0002	0.007	< 0.438	< 0.0025	< 0.002
	6/7/2022	0.59	110	58	0.27	7.15	120	650	< 0.003	< 0.001	0.052	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	0.00034	< 0.005	< 0.468	< 0.0025	< 0.002
	8/30/2022	0.69	79	73	0.38	6.94	86	720	< 0.003	< 0.001	0.029	^+ < 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	^+ < 0.01	< 0.0002	0.0073	< 0.538	< 0.0025	< 0.002
	11/14/2022	1.1	96	64	0.29	6.87	93	600	< 0.003	< 0.001	0.072	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.0064	< 0.573	< 0.0025	< 0.002
	2/21/2023	0.68	100	93	0.29	7.34	97	760	< 0.0030	< 0.0010	0.052	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	< 0.0050	< 0.528	0.0031	< 0.0020
	5/16/2023	0.78	110	79	0.30	7.04	130	690	< 0.0030	< 0.0010	0.053	^+ ^1+ < 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	< 0.0050	< 0.648	< 0.0025	< 0.0020
	8/29/2023	1.1	98	80	0.29	6.99	83	660	< 0.0020	< 0.0020	0.037	< 0.0010	< 0.00020	< 0.0050	< 0.0005	< 0.00050	< 0.010	< 0.00020	0.0040	0.817	< 0.005	< 0.0010
	11/7/2023	1.5	110	98	0.26	6.96	150	700	< 0.0030	< 0.0010	0.039	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	^+ < 0.010	< 0.00020	< 0.0050	0.428	0.0025	< 0.0020
	2/22/2024	3.3	120	93	0.30	7.17	190	830	< 0.0030	< 0.0010	0.056	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	< 0.0050	0.965	< 0.0025	< 0.0020

Notes: All units are in mg/l except pH is in standard units.
V- Serial dilution exceeds control limits.
H- Sample was prepped or analyzed beyond specified holding time
F1 - MS and/or MSD Recovery outside of limits.
* - LCS or LCSD is outside acceptance limits.
^ - Denotes instrument related QC exceeds the control limits
NA - Not Analyzed

Table 2. Groundwater Turbidity - Midwest Generation, LLC, Powerton Station, Pekin, IL. Former Ash Basin.

Well	Date	Turbidity (NTU)
MW-01	2/23/2021	78.20
	4/9/2021	6.96
	5/10/2021	3.24
	6/2/2021	3.80
	6/28/2021	4.30
	7/19/2021	4.88
	8/24/2021	3.34
	9/30/2021	3.04
	11/30/2021	5.43
	2/9/2022	11.5
	6/7/2022	3.63
	8/30/2022	4.73
	11/15/2022	3.9
	2/22/2023	4.54
	5/17/2023	4.33
	8/29/2023	4.40
	11/7/2023	2.93
	2/21/2024	17.88
MW-10	2/23/2021	257.70
	4/9/2021	54.91
	5/11/2021	24.74
	6/2/2021	6.02
	6/28/2021	14.11
	7/19/2021	17.53
	8/24/2021	41.55
	9/30/2021	17.07
	11/30/2021	11.92
	2/9/2022	224.6
	6/7/2022	7.88
	8/30/2022	13.34
	11/15/2022	23.18
	2/22/2023	14.31
	5/17/2023	30.70
	8/29/2023	31.79
	11/7/2023	20.85
	2/21/2024	29.67
MW-02	2/22/2021	19.60
	4/8/2021	4.55
	5/11/2021	1.82
	6/2/2021	2.06
	6/28/2021	2.67
	7/19/2021	3.56
	8/24/2021	5.23
	10/1/2021	2.76
	11/30/2021	0.0
	2/8/2022	0.0
	6/7/2022	2.03
	8/30/2022	2.46
	11/14/2022	29.35
	2/21/2023	2.63
	5/16/2023	62.49
	8/28/2023	1.70
	11/7/2023	2.63
	2/22/2024	22.00
MW-03	2/22/2021	8.20
	4/8/2021	4.00
	5/11/2021	2.68
	6/2/2021	3.63
	6/28/2021	3.32
	7/19/2021	4.22
	8/24/2021	5.75
	10/1/2021	2.45
	11/30/2021	0.0
	2/8/2022	0.0
	6/7/2022	1.72
	8/30/2022	2.67
	11/14/2022	4.03
	2/21/2023	2.33
	5/16/2023	6.94
	8/28/2023	1.45
	11/7/2023	2.29
	2/22/2024	10.24

Table 2. Groundwater Turbidity - Midwest Generation, LLC, Powerton Station, Pekin, IL. Former Ash Basin.

Well	Date	Turbidity (NTU)
MW-04	2/22/2021	4.20
	4/8/2021	4.05
	5/11/2021	4.33
	6/2/2021	2.12
	6/28/2021	8.21
	7/19/2021	3.84
	8/24/2021	2.92
	10/1/2021	2.72
	11/30/2021	0.0
	2/8/2022	11.09
	6/7/2022	1.62
	8/30/2022	4.05
	11/14/2022	20.70
	2/21/2023	3.70
	5/16/2023	2.50
	8/28/2023	5.59
	11/7/2023	3.48
	2/22/2024	15.41
MW-05	2/22/2021	1.72
	4/8/2021	4.00
	5/11/2021	1.82
	6/2/2021	1.88
	6/28/2021	3.49
	7/19/2021	8.39
	8/24/2021	3.20
	10/1/2021	3.12
	11/30/2021	0.0
	2/8/2022	0.0
	6/7/2022	2.33
	8/30/2022	2.70
	11/14/2022	2.05
	2/21/2023	2.16
	5/16/2023	2.55
	8/28/2023	1.50
	11/7/2023	2.50
	2/22/2024	7.08

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 3/19/2024 1:22:23 PM

JOB DESCRIPTION

Powerton CCR FAB

JOB NUMBER

500-246575-1

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

myEOL

Job Notes

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Authorization

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Authorized for release by
Diana Mockler, Project Manager I
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(219)252-7570

Table of Contents

Job ID: 500-246575-1 — Eurofins Chicago

Job Narrative
500-246575-1

Receipt
The samples were received on 2/23/2024 9:20 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 0.2° C and 0.8° C.

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

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

Method Summary

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

Job ID: 500-246575-1

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

Protocol References:

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

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

Laboratory References:

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

Sample Summary

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

Job ID: 500-246575-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-246575-1	MW-02	Water	02/22/24 08:45	02/23/24 09:20
500-246575-2	MW-03	Water	02/22/24 09:54	02/23/24 09:20
500-246575-3	MW-04	Water	02/22/24 11:02	02/23/24 09:20
500-246575-4	MW-05	Water	02/22/24 12:21	02/23/24 09:20
500-246575-5	MW-01	Water	02/21/24 09:07	02/23/24 09:20
500-246575-6	MW-10	Water	02/21/24 13:42	02/23/24 09:20
500-246575-7	Duplicate	Water	02/22/24 00:00	02/23/24 09:20

Client Sample Results

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

Job ID: 500-246575-1

Client Sample ID: MW-02

Date Collected: 02/22/24 08:45
Date Received: 02/23/24 09:20

Lab Sample ID: 500-246575-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		03/07/24 17:12	03/13/24 17:46	1
Arsenic	<0.0010		0.0010		mg/L		03/07/24 17:12	03/13/24 17:46	1
Barium	**0.059**		0.0025		mg/L		03/07/24 17:12	03/13/24 17:46	1
Beryllium	<0.0010		0.0010		mg/L		03/07/24 17:12	03/18/24 13:51	1
Boron	**0.25**		0.050		mg/L		03/07/24 17:12	03/18/24 13:51	1
Cadmium	<0.00050		0.00050		mg/L		03/07/24 17:12	03/13/24 17:46	1
Calcium	**76**		0.20		mg/L		03/07/24 17:12	03/18/24 13:51	1
Chromium	<0.0050		0.0050		mg/L		03/07/24 17:12	03/13/24 17:46	1
Cobalt	<0.0010		0.0010		mg/L		03/07/24 17:12	03/13/24 17:46	1
Lead	<0.00050		0.00050		mg/L		03/07/24 17:12	03/13/24 17:46	1
Lithium	<0.010		0.010		mg/L		03/07/24 17:12	03/13/24 17:46	1
Molybdenum	<0.0050		0.0050		mg/L		03/07/24 17:12	03/13/24 17:46	1
Selenium	**0.0029**		0.0025		mg/L		03/07/24 17:12	03/13/24 17:46	1
Thallium	<0.0020		0.0020		mg/L		03/07/24 17:12	03/13/24 17:46	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/11/24 16:15	03/12/24 09:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**480**		10		mg/L			02/27/24 21:23	1
Chloride (SM 4500 Cl- E)	**62**		4.0		mg/L			02/25/24 13:32	2
Fluoride (SM 4500 F C)	**0.14**		0.10		mg/L			03/15/24 14:07	1
Sulfate (SM 4500 SO4 E)	**47**		5.0		mg/L			02/27/24 16:51	1

Client Sample Results

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

Job ID: 500-246575-1

Client Sample ID: MW-03

Date Collected: 02/22/24 09:54
Date Received: 02/23/24 09:20

Lab Sample ID: 500-246575-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		03/07/24 17:12	03/13/24 17:49	1
Arsenic	<0.0010		0.0010		mg/L		03/07/24 17:12	03/13/24 17:49	1
Barium	**0.064**		0.0025		mg/L		03/07/24 17:12	03/13/24 17:49	1
Beryllium	<0.0010		0.0010		mg/L		03/07/24 17:12	03/18/24 13:55	1
Boron	**0.19**		0.050		mg/L		03/07/24 17:12	03/18/24 13:55	1
Cadmium	<0.00050		0.00050		mg/L		03/07/24 17:12	03/13/24 17:49	1
Calcium	**88**		0.20		mg/L		03/07/24 17:12	03/18/24 13:55	1
Chromium	<0.0050		0.0050		mg/L		03/07/24 17:12	03/13/24 17:49	1
Cobalt	<0.0010		0.0010		mg/L		03/07/24 17:12	03/13/24 17:49	1
Lead	<0.00050		0.00050		mg/L		03/07/24 17:12	03/13/24 17:49	1
Lithium	<0.010		0.010		mg/L		03/07/24 17:12	03/13/24 17:49	1
Molybdenum	<0.0050		0.0050		mg/L		03/07/24 17:12	03/13/24 17:49	1
Selenium	**0.0058**		0.0025		mg/L		03/07/24 17:12	03/13/24 17:49	1
Thallium	<0.0020		0.0020		mg/L		03/07/24 17:12	03/13/24 17:49	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/11/24 16:15	03/12/24 09:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**520**		10		mg/L			02/27/24 21:25	1
Chloride (SM 4500 Cl- E)	**64**		4.0		mg/L			02/25/24 13:32	2
Fluoride (SM 4500 F C)	**0.20**		0.10		mg/L			03/15/24 14:12	1
Sulfate (SM 4500 SO4 E)	**66**		10		mg/L			02/27/24 17:06	2

Client Sample Results

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

Job ID: 500-246575-1

Client Sample ID: MW-04

Date Collected: 02/22/24 11:02
Date Received: 02/23/24 09:20

Lab Sample ID: 500-246575-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		03/07/24 17:12	03/13/24 17:53	1
Arsenic	<0.0010		0.0010		mg/L		03/07/24 17:12	03/13/24 17:53	1
Barium	**0.041**		0.0025		mg/L		03/07/24 17:12	03/13/24 17:53	1
Beryllium	<0.0010		0.0010		mg/L		03/07/24 17:12	03/18/24 13:58	1
Boron	**0.61**		0.050		mg/L		03/07/24 17:12	03/18/24 13:58	1
Cadmium	<0.00050		0.00050		mg/L		03/07/24 17:12	03/13/24 17:53	1
Calcium	**96**		0.20		mg/L		03/07/24 17:12	03/18/24 13:58	1
Chromium	<0.0050		0.0050		mg/L		03/07/24 17:12	03/13/24 17:53	1
Cobalt	<0.0010		0.0010		mg/L		03/07/24 17:12	03/13/24 17:53	1
Lead	<0.00050		0.00050		mg/L		03/07/24 17:12	03/13/24 17:53	1
Lithium	<0.010		0.010		mg/L		03/07/24 17:12	03/13/24 17:53	1
Molybdenum	<0.0050		0.0050		mg/L		03/07/24 17:12	03/13/24 17:53	1
Selenium	**0.0042**		0.0025		mg/L		03/07/24 17:12	03/13/24 17:53	1
Thallium	<0.0020		0.0020		mg/L		03/07/24 17:12	03/13/24 17:53	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/11/24 16:15	03/12/24 09:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**520**		10		mg/L			02/27/24 21:28	1
Chloride (SM 4500 Cl- E)	**60**		4.0		mg/L			02/25/24 15:04	2
Fluoride (SM 4500 F C)	**0.23**		0.10		mg/L			03/15/24 14:17	1
Sulfate (SM 4500 SO4 E)	**63**		10		mg/L			02/27/24 17:06	2

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

Job ID: 500-246575-1

Client Sample ID: MW-05

Date Collected: 02/22/24 12:21
Date Received: 02/23/24 09:20

Lab Sample ID: 500-246575-4

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		03/07/24 17:12	03/13/24 17:56	1
Arsenic	<0.0010		0.0010		mg/L		03/07/24 17:12	03/13/24 17:56	1
Barium	**0.056**		0.0025		mg/L		03/07/24 17:12	03/13/24 17:56	1
Beryllium	<0.0010		0.0010		mg/L		03/07/24 17:12	03/18/24 14:02	1
Boron	**3.3**		0.050		mg/L		03/07/24 17:12	03/18/24 14:02	1
Cadmium	<0.00050		0.00050		mg/L		03/07/24 17:12	03/13/24 17:56	1
Calcium	**120**		0.20		mg/L		03/07/24 17:12	03/18/24 14:02	1
Chromium	<0.0050		0.0050		mg/L		03/07/24 17:12	03/13/24 17:56	1
Cobalt	<0.0010		0.0010		mg/L		03/07/24 17:12	03/13/24 17:56	1
Lead	<0.00050		0.00050		mg/L		03/07/24 17:12	03/13/24 17:56	1
Lithium	<0.010		0.010		mg/L		03/07/24 17:12	03/13/24 17:56	1
Molybdenum	<0.0050		0.0050		mg/L		03/07/24 17:12	03/13/24 17:56	1
Selenium	<0.0025		0.0025		mg/L		03/07/24 17:12	03/13/24 17:56	1
Thallium	<0.0020		0.0020		mg/L		03/07/24 17:12	03/13/24 17:56	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/11/24 16:15	03/12/24 09:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**830**		10		mg/L			02/27/24 21:30	1
Chloride (SM 4500 Cl- E)	**93**		10		mg/L			02/25/24 15:04	5
Fluoride (SM 4500 F C)	**0.30**		0.10		mg/L			03/15/24 14:21	1
Sulfate (SM 4500 SO4 E)	**190**		25		mg/L			02/27/24 17:06	5

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

Job ID: 500-246575-1

Client Sample ID: MW-01

Date Collected: 02/21/24 09:07
Date Received: 02/23/24 09:20

Lab Sample ID: 500-246575-5

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		03/07/24 17:12	03/13/24 18:07	1
Arsenic	<0.0010		0.0010		mg/L		03/07/24 17:12	03/13/24 18:07	1
Barium	**0.090**		0.0025		mg/L		03/07/24 17:12	03/13/24 18:07	1
Beryllium	<0.0010		0.0010		mg/L		03/07/24 17:12	03/18/24 14:06	1
Boron	**1.5**		0.050		mg/L		03/07/24 17:12	03/18/24 14:06	1
Cadmium	<0.00050		0.00050		mg/L		03/07/24 17:12	03/13/24 18:07	1
Calcium	**120**		0.20		mg/L		03/07/24 17:12	03/18/24 14:06	1
Chromium	<0.0050		0.0050		mg/L		03/07/24 17:12	03/13/24 18:07	1
Cobalt	<0.0010		0.0010		mg/L		03/07/24 17:12	03/13/24 18:07	1
Lead	<0.00050		0.00050		mg/L		03/07/24 17:12	03/13/24 18:07	1
Lithium	<0.010		0.010		mg/L		03/07/24 17:12	03/13/24 18:07	1
Molybdenum	<0.0050		0.0050		mg/L		03/07/24 17:12	03/13/24 18:07	1
Selenium	<0.0025		0.0025		mg/L		03/07/24 17:12	03/13/24 18:07	1
Thallium	<0.0020		0.0020		mg/L		03/07/24 17:12	03/13/24 18:07	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/11/24 16:15	03/12/24 10:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**580**		10		mg/L			02/27/24 21:33	1
Chloride (SM 4500 Cl- E)	**46**		2.0		mg/L			02/25/24 13:27	1
Fluoride (SM 4500 F C)	**0.10**		0.10		mg/L			03/15/24 14:37	1
Sulfate (SM 4500 SO4 E)	**81**		10		mg/L			03/03/24 14:32	2

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

Job ID: 500-246575-1

Client Sample ID: MW-10

Date Collected: 02/21/24 13:42
Date Received: 02/23/24 09:20

Lab Sample ID: 500-246575-6

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		03/07/24 17:12	03/13/24 18:11	1
Arsenic	**0.0014**		0.0010		mg/L		03/07/24 17:12	03/13/24 18:11	1
Barium	**0.27**		0.0025		mg/L		03/07/24 17:12	03/13/24 18:11	1
Beryllium	<0.0010		0.0010		mg/L		03/07/24 17:12	03/18/24 14:21	1
Boron	**6.5**		0.50		mg/L		03/07/24 17:12	03/18/24 14:58	10
Cadmium	<0.00050		0.00050		mg/L		03/07/24 17:12	03/13/24 18:11	1
Calcium	**110**		0.20		mg/L		03/07/24 17:12	03/18/24 14:21	1
Chromium	<0.0050		0.0050		mg/L		03/07/24 17:12	03/13/24 18:11	1
Cobalt	**0.0045**		0.0010		mg/L		03/07/24 17:12	03/13/24 18:11	1
Lead	**0.0017**		0.00050		mg/L		03/07/24 17:12	03/13/24 18:11	1
Lithium	<0.010		0.010		mg/L		03/07/24 17:12	03/13/24 18:11	1
Molybdenum	<0.0050		0.0050		mg/L		03/07/24 17:12	03/13/24 18:11	1
Selenium	**0.0062**		0.0025		mg/L		03/07/24 17:12	03/13/24 18:11	1
Thallium	<0.0020		0.0020		mg/L		03/07/24 17:12	03/13/24 18:11	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/11/24 16:15	03/12/24 10:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**660**		10		mg/L			02/27/24 22:28	1
Chloride (SM 4500 Cl- E)	**37**		2.0		mg/L			02/25/24 13:32	1
Fluoride (SM 4500 F C)	**0.26**		0.10		mg/L			03/15/24 15:09	1
Sulfate (SM 4500 SO4 E)	**150**		25		mg/L			03/03/24 14:42	5

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

Job ID: 500-246575-1

Client Sample ID: Duplicate

Date Collected: 02/22/24 00:00
Date Received: 02/23/24 09:20

Lab Sample ID: 500-246575-7

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		03/07/24 17:12	03/13/24 18:14	1
Arsenic	<0.0010		0.0010		mg/L		03/07/24 17:12	03/13/24 18:14	1
Barium	**0.059**		0.0025		mg/L		03/07/24 17:12	03/13/24 18:14	1
Beryllium	<0.0010		0.0010		mg/L		03/07/24 17:12	03/18/24 14:25	1
Boron	**0.27**		0.050		mg/L		03/07/24 17:12	03/18/24 14:25	1
Cadmium	<0.00050		0.00050		mg/L		03/07/24 17:12	03/13/24 18:14	1
Calcium	**77**		0.20		mg/L		03/07/24 17:12	03/18/24 14:25	1
Chromium	<0.0050		0.0050		mg/L		03/07/24 17:12	03/13/24 18:14	1
Cobalt	<0.0010		0.0010		mg/L		03/07/24 17:12	03/13/24 18:14	1
Lead	<0.00050		0.00050		mg/L		03/07/24 17:12	03/13/24 18:14	1
Lithium	<0.010		0.010		mg/L		03/07/24 17:12	03/13/24 18:14	1
Molybdenum	<0.0050		0.0050		mg/L		03/07/24 17:12	03/13/24 18:14	1
Selenium	**0.0032**		0.0025		mg/L		03/07/24 17:12	03/13/24 18:14	1
Thallium	<0.0020		0.0020		mg/L		03/07/24 17:12	03/13/24 18:14	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/11/24 16:15	03/12/24 10:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**460**		10		mg/L			02/27/24 22:35	1
Chloride (SM 4500 Cl- E)	**63**		4.0		mg/L			02/25/24 15:04	2
Fluoride (SM 4500 F C)	**0.14**		0.10		mg/L			03/15/24 14:42	1
Sulfate (SM 4500 SO4 E)	**48**		5.0		mg/L			03/03/24 14:15	1

Definitions/Glossary

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

Job ID: 500-246575-1

Qualifiers

Metals

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

Metals

Prep Batch: 757383

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246575-1	MW-02	Total Recoverable	Water	3005A	
500-246575-2	MW-03	Total Recoverable	Water	3005A	
500-246575-3	MW-04	Total Recoverable	Water	3005A	
500-246575-4	MW-05	Total Recoverable	Water	3005A	
500-246575-5	MW-01	Total Recoverable	Water	3005A	
500-246575-6	MW-10	Total Recoverable	Water	3005A	
500-246575-7	Duplicate	Total Recoverable	Water	3005A	
MB 500-757383/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-757383/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
500-246575-7 MS	Duplicate	Total Recoverable	Water	3005A	
500-246575-7 MSD	Duplicate	Total Recoverable	Water	3005A	
500-246575-7 DU	Duplicate	Total Recoverable	Water	3005A	

Prep Batch: 757743

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246575-1	MW-02	Total/NA	Water	7470A	
500-246575-2	MW-03	Total/NA	Water	7470A	
500-246575-3	MW-04	Total/NA	Water	7470A	
500-246575-4	MW-05	Total/NA	Water	7470A	
500-246575-5	MW-01	Total/NA	Water	7470A	
500-246575-6	MW-10	Total/NA	Water	7470A	
500-246575-7	Duplicate	Total/NA	Water	7470A	
MB 500-757743/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-757743/13-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 757900

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246575-1	MW-02	Total/NA	Water	7470A	757743
500-246575-2	MW-03	Total/NA	Water	7470A	757743
500-246575-3	MW-04	Total/NA	Water	7470A	757743
500-246575-4	MW-05	Total/NA	Water	7470A	757743
500-246575-5	MW-01	Total/NA	Water	7470A	757743
500-246575-6	MW-10	Total/NA	Water	7470A	757743
500-246575-7	Duplicate	Total/NA	Water	7470A	757743
MB 500-757743/12-A	Method Blank	Total/NA	Water	7470A	757743
LCS 500-757743/13-A	Lab Control Sample	Total/NA	Water	7470A	757743

Analysis Batch: 758285

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246575-1	MW-02	Total Recoverable	Water	6020B	757383
500-246575-2	MW-03	Total Recoverable	Water	6020B	757383
500-246575-3	MW-04	Total Recoverable	Water	6020B	757383
500-246575-4	MW-05	Total Recoverable	Water	6020B	757383
500-246575-5	MW-01	Total Recoverable	Water	6020B	757383
500-246575-6	MW-10	Total Recoverable	Water	6020B	757383
500-246575-7	Duplicate	Total Recoverable	Water	6020B	757383
MB 500-757383/1-A	Method Blank	Total Recoverable	Water	6020B	757383
LCS 500-757383/2-A	Lab Control Sample	Total Recoverable	Water	6020B	757383
500-246575-7 MS	Duplicate	Total Recoverable	Water	6020B	757383
500-246575-7 MSD	Duplicate	Total Recoverable	Water	6020B	757383
500-246575-7 DU	Duplicate	Total Recoverable	Water	6020B	757383

Metals

Analysis Batch: 758908

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246575-1	MW-02	Total Recoverable	Water	6020B	757383
500-246575-2	MW-03	Total Recoverable	Water	6020B	757383
500-246575-3	MW-04	Total Recoverable	Water	6020B	757383
500-246575-4	MW-05	Total Recoverable	Water	6020B	757383
500-246575-5	MW-01	Total Recoverable	Water	6020B	757383
500-246575-6	MW-10	Total Recoverable	Water	6020B	757383
500-246575-6	MW-10	Total Recoverable	Water	6020B	757383
500-246575-7	Duplicate	Total Recoverable	Water	6020B	757383
MB 500-757383/1-A	Method Blank	Total Recoverable	Water	6020B	757383
LCS 500-757383/2-A	Lab Control Sample	Total Recoverable	Water	6020B	757383
500-246575-7 MS	Duplicate	Total Recoverable	Water	6020B	757383
500-246575-7 MSD	Duplicate	Total Recoverable	Water	6020B	757383
500-246575-7 DU	Duplicate	Total Recoverable	Water	6020B	757383

General Chemistry

Analysis Batch: 755535

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246575-1	MW-02	Total/NA	Water	SM 4500 Cl- E	
500-246575-2	MW-03	Total/NA	Water	SM 4500 Cl- E	
500-246575-3	MW-04	Total/NA	Water	SM 4500 Cl- E	
500-246575-4	MW-05	Total/NA	Water	SM 4500 Cl- E	
500-246575-5	MW-01	Total/NA	Water	SM 4500 Cl- E	
500-246575-6	MW-10	Total/NA	Water	SM 4500 Cl- E	
500-246575-7	Duplicate	Total/NA	Water	SM 4500 Cl- E	
MB 500-755535/115	Method Blank	Total/NA	Water	SM 4500 Cl- E	
MB 500-755535/67	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 500-755535/116	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
LCS 500-755535/68	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
500-246575-2 MS	MW-03	Total/NA	Water	SM 4500 Cl- E	
500-246575-2 MSD	MW-03	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 755968

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246575-1	MW-02	Total/NA	Water	SM 2540C	
500-246575-2	MW-03	Total/NA	Water	SM 2540C	
500-246575-3	MW-04	Total/NA	Water	SM 2540C	
500-246575-4	MW-05	Total/NA	Water	SM 2540C	
500-246575-5	MW-01	Total/NA	Water	SM 2540C	
MB 500-755968/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-755968/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 755969

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246575-6	MW-10	Total/NA	Water	SM 2540C	
500-246575-7	Duplicate	Total/NA	Water	SM 2540C	
MB 500-755969/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-755969/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-246575-6 MS	MW-10	Total/NA	Water	SM 2540C	
500-246575-6 DU	MW-10	Total/NA	Water	SM 2540C	
500-246575-7 DU	Duplicate	Total/NA	Water	SM 2540C	

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

Job ID: 500-246575-1

General Chemistry

Analysis Batch: 756044

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246575-1	MW-02	Total/NA	Water	SM 4500 SO4 E	
500-246575-2	MW-03	Total/NA	Water	SM 4500 SO4 E	
500-246575-3	MW-04	Total/NA	Water	SM 4500 SO4 E	
500-246575-4	MW-05	Total/NA	Water	SM 4500 SO4 E	
MB 500-756044/67	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-756044/68	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 756601

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246575-5	MW-01	Total/NA	Water	SM 4500 SO4 E	
500-246575-6	MW-10	Total/NA	Water	SM 4500 SO4 E	
500-246575-7	Duplicate	Total/NA	Water	SM 4500 SO4 E	
MB 500-756601/16	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-756601/17	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 758551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246575-1	MW-02	Total/NA	Water	SM 4500 F C	
500-246575-2	MW-03	Total/NA	Water	SM 4500 F C	
500-246575-3	MW-04	Total/NA	Water	SM 4500 F C	
500-246575-4	MW-05	Total/NA	Water	SM 4500 F C	
500-246575-5	MW-01	Total/NA	Water	SM 4500 F C	
500-246575-6	MW-10	Total/NA	Water	SM 4500 F C	
500-246575-7	Duplicate	Total/NA	Water	SM 4500 F C	
MB 500-758551/3	Method Blank	Total/NA	Water	SM 4500 F C	
MB 500-758551/31	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-758551/32	Lab Control Sample	Total/NA	Water	SM 4500 F C	
LCS 500-758551/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
500-246575-7 MS	Duplicate	Total/NA	Water	SM 4500 F C	
500-246575-7 MSD	Duplicate	Total/NA	Water	SM 4500 F C	

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 500-757383/1-A
Matrix: Water
Analysis Batch: 758285

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 757383

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		03/07/24 17:12	03/13/24 17:30	1
Arsenic	<0.0010		0.0010		mg/L		03/07/24 17:12	03/13/24 17:30	1
Barium	<0.0025		0.0025		mg/L		03/07/24 17:12	03/13/24 17:30	1
Boron	<0.050	^+	0.050		mg/L		03/07/24 17:12	03/13/24 17:30	1
Cadmium	<0.00050		0.00050		mg/L		03/07/24 17:12	03/13/24 17:30	1
Chromium	<0.0050		0.0050		mg/L		03/07/24 17:12	03/13/24 17:30	1
Cobalt	<0.0010		0.0010		mg/L		03/07/24 17:12	03/13/24 17:30	1
Lead	<0.00050		0.00050		mg/L		03/07/24 17:12	03/13/24 17:30	1
Lithium	<0.010		0.010		mg/L		03/07/24 17:12	03/13/24 17:30	1
Molybdenum	<0.0050		0.0050		mg/L		03/07/24 17:12	03/13/24 17:30	1
Selenium	<0.0025		0.0025		mg/L		03/07/24 17:12	03/13/24 17:30	1
Thallium	<0.0020		0.0020		mg/L		03/07/24 17:12	03/13/24 17:30	1

Lab Sample ID: MB 500-757383/1-A
Matrix: Water
Analysis Batch: 758908

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 757383

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0010		0.0010		mg/L		03/07/24 17:12	03/18/24 13:32	1
Boron	<0.050		0.050		mg/L		03/07/24 17:12	03/18/24 13:32	1
Calcium	<0.20		0.20		mg/L		03/07/24 17:12	03/18/24 13:32	1

Lab Sample ID: LCS 500-757383/2-A
Matrix: Water
Analysis Batch: 758285

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 757383

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.492		mg/L		98	80 - 120
Arsenic	0.100	0.0894		mg/L		89	80 - 120
Barium	2.00	1.73		mg/L		86	80 - 120
Cadmium	0.0500	0.0447		mg/L		89	80 - 120
Chromium	0.200	0.192		mg/L		96	80 - 120
Cobalt	0.500	0.471		mg/L		94	80 - 120
Lead	0.100	0.0997		mg/L		100	80 - 120
Lithium	0.500	0.434		mg/L		87	80 - 120
Molybdenum	1.00	0.857		mg/L		86	80 - 120
Selenium	0.100	0.0958		mg/L		96	80 - 120
Thallium	0.100	0.0993		mg/L		99	80 - 120

Lab Sample ID: LCS 500-757383/2-A
Matrix: Water
Analysis Batch: 758908

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 757383

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	0.0500	0.0493		mg/L		99	80 - 120
Boron	1.00	1.01		mg/L		101	80 - 120
Calcium	10.0	10.5		mg/L		105	80 - 120

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

Lab Sample ID: 500-246575-7 MS
Matrix: Water
Analysis Batch: 758285

Client Sample ID: Duplicate
Prep Type: Total Recoverable
Prep Batch: 757383

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	<0.0030		0.500	0.519		mg/L		104	75 - 125
Arsenic	<0.0010		0.100	0.0943		mg/L		94	75 - 125
Barium	0.059		2.00	1.86		mg/L		90	75 - 125
Cadmium	<0.00050		0.0500	0.0469		mg/L		94	75 - 125
Chromium	<0.0050		0.200	0.196		mg/L		98	75 - 125
Cobalt	<0.0010		0.500	0.466		mg/L		93	75 - 125
Lead	<0.00050		0.100	0.101		mg/L		101	75 - 125
Lithium	<0.010		0.500	0.480		mg/L		95	75 - 125
Molybdenum	<0.0050		1.00	0.924		mg/L		92	75 - 125
Selenium	0.0032		0.100	0.101		mg/L		97	75 - 125
Thallium	<0.0020		0.100	0.102		mg/L		102	75 - 125

Lab Sample ID: 500-246575-7 MS
Matrix: Water
Analysis Batch: 758908

Client Sample ID: Duplicate
Prep Type: Total Recoverable
Prep Batch: 757383

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	<0.0010		0.0500	0.0546		mg/L		109	75 - 125
Boron	0.27		1.00	1.26		mg/L		99	75 - 125
Calcium	77		10.0	86.2	4	mg/L		88	75 - 125

Lab Sample ID: 500-246575-7 MSD
Matrix: Water
Analysis Batch: 758285

Client Sample ID: Duplicate
Prep Type: Total Recoverable
Prep Batch: 757383

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	<0.0030		0.500	0.513		mg/L		103	75 - 125	1	20
Arsenic	<0.0010		0.100	0.0922		mg/L		91	75 - 125	2	20
Barium	0.059		2.00	1.80		mg/L		87	75 - 125	3	20
Cadmium	<0.00050		0.0500	0.0463		mg/L		93	75 - 125	1	20
Chromium	<0.0050		0.200	0.195		mg/L		97	75 - 125	1	20
Cobalt	<0.0010		0.500	0.460		mg/L		92	75 - 125	1	20
Lead	<0.00050		0.100	0.0989		mg/L		99	75 - 125	2	20
Lithium	<0.010		0.500	0.493		mg/L		98	75 - 125	3	20
Molybdenum	<0.0050		1.00	0.897		mg/L		90	75 - 125	3	20
Selenium	0.0032		0.100	0.0990		mg/L		96	75 - 125	1	20
Thallium	<0.0020		0.100	0.0975		mg/L		98	75 - 125	4	20

Lab Sample ID: 500-246575-7 MSD
Matrix: Water
Analysis Batch: 758908

Client Sample ID: Duplicate
Prep Type: Total Recoverable
Prep Batch: 757383

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Beryllium	<0.0010		0.0500	0.0530		mg/L		106	75 - 125	3	20
Boron	0.27		1.00	1.31		mg/L		104	75 - 125	4	20
Calcium	77		10.0	86.2	4	mg/L		87	75 - 125	0	20

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

Lab Sample ID: 500-246575-7 DU
Matrix: Water
Analysis Batch: 758285

Client Sample ID: Duplicate
Prep Type: Total Recoverable
Prep Batch: 757383

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	<0.0030		<0.0030		mg/L		NC	20
Arsenic	<0.0010		<0.0010		mg/L		NC	20
Barium	0.059		0.0596		mg/L		0.5	20
Cadmium	<0.00050		<0.00050		mg/L		NC	20
Chromium	<0.0050		<0.0050		mg/L		NC	20
Cobalt	<0.0010		<0.0010		mg/L		NC	20
Lead	<0.00050		<0.00050		mg/L		NC	20
Lithium	<0.010		<0.010		mg/L		NC	20
Molybdenum	<0.0050		<0.0050		mg/L		NC	20
Selenium	0.0032		0.00320		mg/L		1	20
Thallium	<0.0020		<0.0020		mg/L		NC	20

Lab Sample ID: 500-246575-7 DU
Matrix: Water
Analysis Batch: 758908

Client Sample ID: Duplicate
Prep Type: Total Recoverable
Prep Batch: 757383

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Beryllium	<0.0010		<0.0010		mg/L		NC	20
Boron	0.27		0.228		mg/L		17	20
Calcium	77		77.9		mg/L		0.5	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-757743/12-A
Matrix: Water
Analysis Batch: 757900

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 757743

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/11/24 16:15	03/12/24 09:44	1

Lab Sample ID: LCS 500-757743/13-A
Matrix: Water
Analysis Batch: 757900

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 757743

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00201	0.00211		mg/L		105	80 - 120

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

Lab Sample ID: MB 500-755968/1
Matrix: Water
Analysis Batch: 755968

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10		mg/L			02/27/24 20:34	1

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

Lab Sample ID: LCS 500-755968/2
Matrix: Water
Analysis Batch: 755968

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

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

Lab Sample ID: MB 500-755969/1
Matrix: Water
Analysis Batch: 755969

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10		mg/L			02/27/24 22:23	1

Lab Sample ID: LCS 500-755969/2
Matrix: Water
Analysis Batch: 755969

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	256		mg/L		102	80 - 120

Lab Sample ID: 500-246575-6 MS
Matrix: Water
Analysis Batch: 755969

Client Sample ID: MW-10
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	660		250	926		mg/L		108	75 - 125

Lab Sample ID: 500-246575-6 DU
Matrix: Water
Analysis Batch: 755969

Client Sample ID: MW-10
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	660		674		mg/L		3	5

Lab Sample ID: 500-246575-7 DU
Matrix: Water
Analysis Batch: 755969

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	460		444		mg/L		4	5

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 500-755535/115
Matrix: Water
Analysis Batch: 755535

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<2.0		2.0		mg/L			02/25/24 14:49	1

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

Lab Sample ID: MB 500-755535/67
Matrix: Water
Analysis Batch: 755535

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<2.0		2.0		mg/L			02/25/24 13:26	1

Lab Sample ID: LCS 500-755535/116
Matrix: Water
Analysis Batch: 755535

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	20.6		mg/L		103	85 - 115

Lab Sample ID: LCS 500-755535/68
Matrix: Water
Analysis Batch: 755535

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	20.4		mg/L		102	85 - 115

Lab Sample ID: 500-246575-2 MS
Matrix: Water
Analysis Batch: 755535

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
Chloride	64		20.0	81.8		mg/L		89	75 - 125

Lab Sample ID: 500-246575-2 MSD
Matrix: Water
Analysis Batch: 755535

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
Chloride	64		20.0	81.7		mg/L		89	75 - 125	0	20

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-758551/3
Matrix: Water
Analysis Batch: 758551

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10		mg/L			03/15/24 12:07	1

Lab Sample ID: MB 500-758551/31
Matrix: Water
Analysis Batch: 758551

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10		mg/L			03/15/24 14:26	1

Method: SM 4500 F C - Fluoride (Continued)

Lab Sample ID: LCS 500-758551/32
Matrix: Water
Analysis Batch: 758551

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	9.73		mg/L		97	90 - 119

Lab Sample ID: LCS 500-758551/4
Matrix: Water
Analysis Batch: 758551

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	9.70		mg/L		97	90 - 119

Lab Sample ID: 500-246575-7 MS
Matrix: Water
Analysis Batch: 758551

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.14		5.00	5.25		mg/L		102	75 - 125

Lab Sample ID: 500-246575-7 MSD
Matrix: Water
Analysis Batch: 758551

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	0.14		5.00	5.16		mg/L		100	75 - 125	2	20

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 500-756044/67
Matrix: Water
Analysis Batch: 756044

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<5.0		5.0		mg/L			02/27/24 16:48	1

Lab Sample ID: LCS 500-756044/68
Matrix: Water
Analysis Batch: 756044

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	20.0	22.9		mg/L		114	88 - 123

Lab Sample ID: MB 500-756601/16
Matrix: Water
Analysis Batch: 756601

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<5.0		5.0		mg/L			03/03/24 14:13	1

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

Job ID: 500-246575-1

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

Lab Sample ID: LCS 500-756601/17
Matrix: Water
Analysis Batch: 756601

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfate			20.0	21.4		mg/L		107	88 - 123		

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

Chain of Custody Record

MKE 232

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Client Information	Sampler: Jack Misner	Lab PM: Mockler, Diana J	Carrier Tracking No(s):	COC No: 500-120486-46459 1
Client Contact: Kaelyn Sperle	Phone: 262-622-1143	E-Mail: Diana.Mockler@et.eurofinsus.com	State of Origin: IL	Page: Page 1 of 1 500-246575
Company: KPRG and Associates, Inc.	PWSID:			Job #: 12313.1

Address: 14665 West Lisbon Road, Suite 1A	Due Date Requested: Standard	
City: Brookfield	TAT Requested (days): Standard	
State, Zip: WI, 53005	Compliance Project: Δ Yes Δ No	
Phone: 262-781-0475(Tel)	PO #: 4502125100	
Email: kaelyns@kprginc.com	WO #:	
Project Name: Powerton CCR FAB	Project #: 50011612	
Site: Illinois	SSOW#:	

Analysis Requested

500-246575 COC

Preservation Codes

A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Y Trizma, Z other (specify), Other:

	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 - Standard Target List	Ra226Ra228_GFPC - Local Method	904.0 - Standard Target List	6020A, 7470A	2540C, 4500_F_C, SM4500_Cl_E, SM4500_SO4_E	Total Number of containers	Special Instructions/Note:
				Preservation Code:				D	D	D	D	N		
1	MW-02	2/22/24	0845	G	Water	N	N	X	X	X	X	X	5	
2	MW-03		0954		Water	N	N	X	X	X	X	X	5	
3	MW-04		1102		Water	N	N	X	X	X	X	X	5	
4	MW-05	2/22/24	1221	G	Water	N	N	X	X	X	X	X	5	
5	MW-01	2/21/24	0907	G	Water	N	N	X	X	X	X	X	5	
6	MW-10	2/21/24	1342	G	Water	N	N	X	X	X	X	X	5	
7	Duplicate	2/22/24	—	G	Water	N	N	X	X	X	X	X	5	
					Water									

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ 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	Date/Time	Company	Received by	Date/Time	Company
1	Jack Misner	2/22/24 1420	KPRG	FedEx	2/22/24 1420	FedEx
2				Stephanie Hernandez	2/23/24 0920	EETA
3						

Custody Seals Intact: Δ Yes Δ No | Custody Seal No

Cooler Temperature(s) °C and Other Remarks: -0.3+0.2, 0.3+0.8

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-246575-1

Login Number: 246575
List Number: 1
Creator: Hernandez, Stephanie

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.2,0.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Lab Chronicle

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

Job ID: 500-246575-1

Client Sample ID: MW-02

Date Collected: 02/22/24 08:45
Date Received: 02/23/24 09:20

Lab Sample ID: 500-246575-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			757383	MC	EET CHI	03/07/24 17:12 - 03/07/24 23:12 [1]
Total Recoverable	Analysis	6020B		1	758285	RN	EET CHI	03/13/24 17:46
Total Recoverable	Prep	3005A			757383	MC	EET CHI	03/07/24 17:12 - 03/07/24 23:12 [1]
Total Recoverable	Analysis	6020B		1	758908	RN	EET CHI	03/18/24 13:51
Total/NA	Prep	7470A			757743	MJG	EET CHI	03/11/24 16:15 - 03/11/24 18:15 [1]
Total/NA	Analysis	7470A		1	757900	MJG	EET CHI	03/12/24 09:49
Total/NA	Analysis	SM 2540C		1	755968	CLB	EET CHI	02/27/24 21:23
Total/NA	Analysis	SM 4500 Cl- E		2	755535	TR	EET CHI	02/25/24 13:32
Total/NA	Analysis	SM 4500 F C		1	758551	SO	EET CHI	03/15/24 14:07
Total/NA	Analysis	SM 4500 SO4 E		1	756044	TR	EET CHI	02/27/24 16:51

Client Sample ID: MW-03

Date Collected: 02/22/24 09:54
Date Received: 02/23/24 09:20

Lab Sample ID: 500-246575-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			757383	MC	EET CHI	03/07/24 17:12 - 03/07/24 23:12 [1]
Total Recoverable	Analysis	6020B		1	758285	RN	EET CHI	03/13/24 17:49
Total Recoverable	Prep	3005A			757383	MC	EET CHI	03/07/24 17:12 - 03/07/24 23:12 [1]
Total Recoverable	Analysis	6020B		1	758908	RN	EET CHI	03/18/24 13:55
Total/NA	Prep	7470A			757743	MJG	EET CHI	03/11/24 16:15 - 03/11/24 18:15 [1]
Total/NA	Analysis	7470A		1	757900	MJG	EET CHI	03/12/24 09:51
Total/NA	Analysis	SM 2540C		1	755968	CLB	EET CHI	02/27/24 21:25
Total/NA	Analysis	SM 4500 Cl- E		2	755535	TR	EET CHI	02/25/24 13:32
Total/NA	Analysis	SM 4500 F C		1	758551	SO	EET CHI	03/15/24 14:12
Total/NA	Analysis	SM 4500 SO4 E		2	756044	TR	EET CHI	02/27/24 17:06

Client Sample ID: MW-04

Date Collected: 02/22/24 11:02
Date Received: 02/23/24 09:20

Lab Sample ID: 500-246575-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			757383	MC	EET CHI	03/07/24 17:12 - 03/07/24 23:12 [1]
Total Recoverable	Analysis	6020B		1	758285	RN	EET CHI	03/13/24 17:53
Total Recoverable	Prep	3005A			757383	MC	EET CHI	03/07/24 17:12 - 03/07/24 23:12 [1]
Total Recoverable	Analysis	6020B		1	758908	RN	EET CHI	03/18/24 13:58
Total/NA	Prep	7470A			757743	MJG	EET CHI	03/11/24 16:15 - 03/11/24 18:15 [1]
Total/NA	Analysis	7470A		1	757900	MJG	EET CHI	03/12/24 09:57
Total/NA	Analysis	SM 2540C		1	755968	CLB	EET CHI	02/27/24 21:28
Total/NA	Analysis	SM 4500 Cl- E		2	755535	TR	EET CHI	02/25/24 15:04
Total/NA	Analysis	SM 4500 F C		1	758551	SO	EET CHI	03/15/24 14:17
Total/NA	Analysis	SM 4500 SO4 E		2	756044	TR	EET CHI	02/27/24 17:06

Lab Chronicle

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

Job ID: 500-246575-1

Client Sample ID: MW-05

Date Collected: 02/22/24 12:21
Date Received: 02/23/24 09:20

Lab Sample ID: 500-246575-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			757383	MC	EET CHI	03/07/24 17:12 - 03/07/24 23:12 [1]
Total Recoverable	Analysis	6020B		1	758285	RN	EET CHI	03/13/24 17:56
Total Recoverable	Prep	3005A			757383	MC	EET CHI	03/07/24 17:12 - 03/07/24 23:12 [1]
Total Recoverable	Analysis	6020B		1	758908	RN	EET CHI	03/18/24 14:02
Total/NA	Prep	7470A			757743	MJG	EET CHI	03/11/24 16:15 - 03/11/24 18:15 [1]
Total/NA	Analysis	7470A		1	757900	MJG	EET CHI	03/12/24 09:59
Total/NA	Analysis	SM 2540C		1	755968	CLB	EET CHI	02/27/24 21:30
Total/NA	Analysis	SM 4500 Cl- E		5	755535	TR	EET CHI	02/25/24 15:04
Total/NA	Analysis	SM 4500 F C		1	758551	SO	EET CHI	03/15/24 14:21
Total/NA	Analysis	SM 4500 SO4 E		5	756044	TR	EET CHI	02/27/24 17:06

Client Sample ID: MW-01

Date Collected: 02/21/24 09:07
Date Received: 02/23/24 09:20

Lab Sample ID: 500-246575-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			757383	MC	EET CHI	03/07/24 17:12 - 03/07/24 23:12 [1]
Total Recoverable	Analysis	6020B		1	758285	RN	EET CHI	03/13/24 18:07
Total Recoverable	Prep	3005A			757383	MC	EET CHI	03/07/24 17:12 - 03/07/24 23:12 [1]
Total Recoverable	Analysis	6020B		1	758908	RN	EET CHI	03/18/24 14:06
Total/NA	Prep	7470A			757743	MJG	EET CHI	03/11/24 16:15 - 03/11/24 18:15 [1]
Total/NA	Analysis	7470A		1	757900	MJG	EET CHI	03/12/24 10:02
Total/NA	Analysis	SM 2540C		1	755968	CLB	EET CHI	02/27/24 21:33
Total/NA	Analysis	SM 4500 Cl- E		1	755535	TR	EET CHI	02/25/24 13:27
Total/NA	Analysis	SM 4500 F C		1	758551	SO	EET CHI	03/15/24 14:37
Total/NA	Analysis	SM 4500 SO4 E		2	756601	TR	EET CHI	03/03/24 14:32

Client Sample ID: MW-10

Date Collected: 02/21/24 13:42
Date Received: 02/23/24 09:20

Lab Sample ID: 500-246575-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			757383	MC	EET CHI	03/07/24 17:12 - 03/07/24 23:12 [1]
Total Recoverable	Analysis	6020B		1	758285	RN	EET CHI	03/13/24 18:11
Total Recoverable	Prep	3005A			757383	MC	EET CHI	03/07/24 17:12 - 03/07/24 23:12 [1]
Total Recoverable	Analysis	6020B		1	758908	RN	EET CHI	03/18/24 14:21
Total Recoverable	Prep	3005A			757383	MC	EET CHI	03/07/24 17:12 - 03/07/24 23:12 [1]
Total Recoverable	Analysis	6020B		10	758908	RN	EET CHI	03/18/24 14:58
Total/NA	Prep	7470A			757743	MJG	EET CHI	03/11/24 16:15 - 03/11/24 18:15 [1]
Total/NA	Analysis	7470A		1	757900	MJG	EET CHI	03/12/24 10:04
Total/NA	Analysis	SM 2540C		1	755969	CLB	EET CHI	02/27/24 22:28
Total/NA	Analysis	SM 4500 Cl- E		1	755535	TR	EET CHI	02/25/24 13:32
Total/NA	Analysis	SM 4500 F C		1	758551	SO	EET CHI	03/15/24 15:09
Total/NA	Analysis	SM 4500 SO4 E		5	756601	TR	EET CHI	03/03/24 14:42

Lab Chronicle

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

Job ID: 500-246575-1

Client Sample ID: Duplicate

Date Collected: 02/22/24 00:00
Date Received: 02/23/24 09:20

Lab Sample ID: 500-246575-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			757383	MC	EET CHI	03/07/24 17:12 - 03/07/24 23:12 [1]
Total Recoverable	Analysis	6020B		1	758285	RN	EET CHI	03/13/24 18:14
Total Recoverable	Prep	3005A			757383	MC	EET CHI	03/07/24 17:12 - 03/07/24 23:12 [1]
Total Recoverable	Analysis	6020B		1	758908	RN	EET CHI	03/18/24 14:25
Total/NA	Prep	7470A			757743	MJG	EET CHI	03/11/24 16:15 - 03/11/24 18:15 [1]
Total/NA	Analysis	7470A		1	757900	MJG	EET CHI	03/12/24 10:06
Total/NA	Analysis	SM 2540C		1	755969	CLB	EET CHI	02/27/24 22:35
Total/NA	Analysis	SM 4500 Cl- E		2	755535	TR	EET CHI	02/25/24 15:04
Total/NA	Analysis	SM 4500 F C		1	758551	SO	EET CHI	03/15/24 14:42
Total/NA	Analysis	SM 4500 SO4 E		1	756601	TR	EET CHI	03/03/24 14:15

[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 FAB

Job ID: 500-246575-1

Laboratory: Eurofins Chicago

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

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

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 3/25/2024 8:38:40 AM

JOB DESCRIPTION

Powerton CCR FAB (RAD)

JOB NUMBER

500-246575-2

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

myEOL

Job Notes

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

Authorization

Generated
3/25/2024 8:38:40 AM

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

Table of Contents

Job ID: 500-246575-2 — Eurofins Chicago

Job Narrative
500-246575-2

Receipt
The samples were received on 2/23/2024 9:20 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 0.2° C and 0.8° C.

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

Method Summary

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

Job ID: 500-246575-2

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 FAB (RAD)

Job ID: 500-246575-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-246575-1	MW-02	Water	02/22/24 08:45	02/23/24 09:20
500-246575-2	MW-03	Water	02/22/24 09:54	02/23/24 09:20
500-246575-3	MW-04	Water	02/22/24 11:02	02/23/24 09:20
500-246575-4	MW-05	Water	02/22/24 12:21	02/23/24 09:20
500-246575-5	MW-01	Water	02/21/24 09:07	02/23/24 09:20
500-246575-6	MW-10	Water	02/21/24 13:42	02/23/24 09:20
500-246575-7	Duplicate	Water	02/22/24 00:00	02/23/24 09:20

Client Sample Results

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

Job ID: 500-246575-2

Client Sample ID: MW-02

Date Collected: 02/22/24 08:45
Date Received: 02/23/24 09:20

Lab Sample ID: 500-246575-1

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0293	U	0.0503	0.0504	1.00	0.0887	pCi/L	02/28/24 09:51	03/21/24 14:57	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*95.7*		*30 - 110*	*02/28/24 09:51*	*03/21/24 14:57*	*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	0.477	U	0.365	0.368	1.00	0.559	pCi/L	02/28/24 09:58	03/05/24 12:49	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*95.7*		*30 - 110*	*02/28/24 09:58*	*03/05/24 12:49*	*1*
Y Carrier	*81.5*		*30 - 110*	*02/28/24 09:58*	*03/05/24 12:49*	*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	0.506	U	0.368	0.371	5.00	0.559	pCi/L		03/22/24 18:25	1

Client Sample ID: MW-03

Date Collected: 02/22/24 09:54
Date Received: 02/23/24 09:20

Lab Sample ID: 500-246575-2

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0188	U	0.0482	0.0483	1.00	0.0903	pCi/L	02/28/24 09:51	03/21/24 14:57	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.1*		*30 - 110*	*02/28/24 09:51*	*03/21/24 14:57*	*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	0.246	U	0.410	0.411	1.00	0.698	pCi/L	02/28/24 09:58	03/05/24 12:49	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.1*		*30 - 110*	*02/28/24 09:58*	*03/05/24 12:49*	*1*
Y Carrier	*80.0*		*30 - 110*	*02/28/24 09:58*	*03/05/24 12:49*	*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	0.264	U	0.413	0.414	5.00	0.698	pCi/L		03/22/24 18:25	1

Client Sample ID: MW-04

Date Collected: 02/22/24 11:02
Date Received: 02/23/24 09:20

Lab Sample ID: 500-246575-3

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	0.0754	U	0.0578	0.0582	1.00	0.0818	pCi/L	02/28/24 09:51	03/21/24 14:57	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*101*		*30 - 110*	*02/28/24 09:51*	*03/21/24 14:57*	*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	0.0986	U	0.268	0.268	1.00	0.479	pCi/L	02/28/24 09:58	03/05/24 12:49	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*101*		*30 - 110*	*02/28/24 09:58*	*03/05/24 12:49*	*1*
Y Carrier	*84.5*		*30 - 110*	*02/28/24 09:58*	*03/05/24 12:49*	*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	0.174	U	0.274	0.274	5.00	0.479	pCi/L		03/22/24 18:25	1

Client Sample ID: MW-05

Date Collected: 02/22/24 12:21
Date Received: 02/23/24 09:20

Lab Sample ID: 500-246575-4

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	0.0926		0.0652	0.0657	1.00	0.0905	pCi/L	02/28/24 09:51	03/21/24 14:57	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*97.7*		*30 - 110*	*02/28/24 09:51*	*03/21/24 14:57*	*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	0.873		0.490	0.496	1.00	0.725	pCi/L	02/28/24 09:58	03/05/24 12:50	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*97.7*		*30 - 110*	*02/28/24 09:58*	*03/05/24 12:50*	*1*
Y Carrier	*78.5*		*30 - 110*	*02/28/24 09:58*	*03/05/24 12:50*	*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	0.965		0.494	0.500	5.00	0.725	pCi/L		03/22/24 18:25	1

Client Sample ID: MW-01

Date Collected: 02/21/24 09:07
Date Received: 02/23/24 09:20

Lab Sample ID: 500-246575-5

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	**0.0877**		0.0580	0.0586	1.00	0.0780	pCi/L	02/28/24 09:51	03/21/24 14:58	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*108*		*30 - 110*	*02/28/24 09:51*	*03/21/24 14:58*	*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	-0.183	U	0.261	0.262	1.00	0.528	pCi/L	02/28/24 09:58	03/05/24 12:42	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*108*		*30 - 110*	*02/28/24 09:58*	*03/05/24 12:42*	*1*
Y Carrier	*84.9*		*30 - 110*	*02/28/24 09:58*	*03/05/24 12:42*	*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	-0.0949	U	0.267	0.268	5.00	0.528	pCi/L		03/22/24 18:25	1

Client Sample ID: MW-10

Date Collected: 02/21/24 13:42
Date Received: 02/23/24 09:20

Lab Sample ID: 500-246575-6

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.249		0.111	0.113	1.00	0.127	pCi/L	02/28/24 09:51	03/21/24 14:58	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*110*		*30 - 110*	*02/28/24 09:51*	*03/21/24 14:58*	*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	0.112	U	0.371	0.371	1.00	0.664	pCi/L	02/28/24 09:58	03/05/24 12:42	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*110*		*30 - 110*	*02/28/24 09:58*	*03/05/24 12:42*	*1*
Y Carrier	*77.4*		*30 - 110*	*02/28/24 09:58*	*03/05/24 12:42*	*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	0.361	U	0.387	0.388	5.00	0.664	pCi/L		03/22/24 18:25	1

Client Sample ID: Duplicate

Date Collected: 02/22/24 00:00
Date Received: 02/23/24 09:20

Lab Sample ID: 500-246575-7

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0305	U	0.0473	0.0474	1.00	0.0820	pCi/L	02/28/24 09:51	03/21/24 14:58	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.1*		*30 - 110*	*02/28/24 09:51*	*03/21/24 14:58*	*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	0.0255	U	0.323	0.323	1.00	0.594	pCi/L	02/28/24 09:58	03/05/24 12:43	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.1*		*30 - 110*	*02/28/24 09:58*	*03/05/24 12:43*	*1*
Y Carrier	*81.9*		*30 - 110*	*02/28/24 09:58*	*03/05/24 12:43*	*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	0.0560	U	0.326	0.326	5.00	0.594	pCi/L		03/22/24 18:25	1

Definitions/Glossary

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

Job ID: 500-246575-2

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
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 FAB (RAD)

Job ID: 500-246575-2

Rad

Prep Batch: 650199

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246575-1	MW-02	Total/NA	Water	PrecSep-21	
500-246575-2	MW-03	Total/NA	Water	PrecSep-21	
500-246575-3	MW-04	Total/NA	Water	PrecSep-21	
500-246575-4	MW-05	Total/NA	Water	PrecSep-21	
500-246575-5	MW-01	Total/NA	Water	PrecSep-21	
500-246575-6	MW-10	Total/NA	Water	PrecSep-21	
500-246575-7	Duplicate	Total/NA	Water	PrecSep-21	
MB 160-650199/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-650199/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 650202

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246575-1	MW-02	Total/NA	Water	PrecSep_0	
500-246575-2	MW-03	Total/NA	Water	PrecSep_0	
500-246575-3	MW-04	Total/NA	Water	PrecSep_0	
500-246575-4	MW-05	Total/NA	Water	PrecSep_0	
500-246575-5	MW-01	Total/NA	Water	PrecSep_0	
500-246575-6	MW-10	Total/NA	Water	PrecSep_0	
500-246575-7	Duplicate	Total/NA	Water	PrecSep_0	
MB 160-650202/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-650202/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-650199/1-A
Matrix: Water
Analysis Batch: 653379

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 650199

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.006231	U	0.0432	0.0432	1.00	0.0867	pCi/L	02/28/24 09:51	03/21/24 14:44	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*97.5*		*30 - 110*	*02/28/24 09:51*	*03/21/24 14:44*	*1*

Lab Sample ID: LCS 160-650199/2-A
Matrix: Water
Analysis Batch: 653379

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 650199

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			11.3	10.29		1.06	1.00	0.117	pCi/L	91	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*97.7*		*30 - 110*

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-650202/1-A
Matrix: Water
Analysis Batch: 651017

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 650202

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.6284		0.373	0.378	1.00	0.544	pCi/L	02/28/24 09:58	03/05/24 12:38	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*97.5*		*30 - 110*	*02/28/24 09:58*	*03/05/24 12:38*	*1*
Y Carrier	*82.2*		*30 - 110*	*02/28/24 09:58*	*03/05/24 12:38*	*1*

Lab Sample ID: LCS 160-650202/2-A
Matrix: Water
Analysis Batch: 651016

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 650202

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			9.15	10.09		1.36	1.00	0.579	pCi/L	110	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*97.7*		*30 - 110*
Y Carrier	*83.4*		*30 - 110*

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: 500-120486-46459 1
Client Contact: Kaelyn Sperle	Phone: 262-622-1143	E-Mail: Diana.Mockler@et.eurofinsus.com	State of Origin: IL	Page: Page 1 of 1 500-246575
Company: KPRG and Associates, Inc.	PWSID:			Job #: 12313.1

Address	Due Date Requested	Analysis Requested
14665 West Lisbon Road, Suite 1A	Standard	
City: Brookfield	TAT Requested (days): Standard	
State, Zip: WI, 53005	Compliance Project: Δ Yes Δ No	
Phone: 262-781-0475(Tel)	PO #: 4502125100	
Email: kaelyns@kprginc.com	WO #:	
Project Name: Powerton CCR FAB	Project #: 50011612	
Site: Illinois	SSOW#:	

500-246575 COC

Preservation Codes

A	HCL	M	Hexane
B	NaOH	N	None
C	Zn Acetate	O	AsNaO2
D	Nitric Acid	P	Na2O4S
E	NaHSO4	Q	Na2SO3
F	MeOH	R	Na2S2O3
G	Amchlor	S	H2SO4
H	Ascorbic Acid	T	TSP Dodecahydrate
I	Ice	U	Acetone
J	DI Water	V	MCAA
K	EDTA	W	pH 4-5
L	EDA	Y	Trizma
		Z	other (specify)

Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0 - Standard Target List	Ra226Ra228_GFPC - Local Method	904.0 - Standard Target List	6020A, 7470A	2540C, 4500_F_C, SM4500_Cl_E, SM4500_SO4_E	Total Number of containers	Special Instructions/Note:
				Preservation Code:				D	D	D	D	N		
1	MW-02	2/22/24	0845	G	Water	N	N	X	X	X	X	X	5	
2	MW-03		0954		Water	N	N	X	X	X	X	X	5	
3	MW-04		1102		Water	N	N	X	X	X	X	X	5	
4	MW-05	2/22/24	1221	G	Water	N	N	X	X	X	X	X	5	
5	MW-01	2/21/24	0907	G	Water	N	N	X	X	X	X	X	5	
6	MW-10	2/21/24	1342	G	Water	N	N	X	X	X	X	X	5	
7	Duplicate	2/22/24	—	G	Water	N	N	X	X	X	X	X	5	
					Water									

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ 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	Date/Time	Company	Received by	Date/Time	Company
1	Jack Misner	2/22/24 1420	KPRG	FedEx	2/22/24 1420	FedEx
2				Stephanie Hernandez	2/23/24 0920	EETA
3						

Custody Seals Intact. Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks
		-0.3+0.2, 0.3+0.8

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-246575-2
SDG Number:

Login Number: 246575
List Number: 1
Creator: Hernandez, Stephanie

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.2,0.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-246575-2
SDG Number:

Login Number: 246575
List Number: 2
Creator: Thornley, Richard W

List Source: Eurofins St. Louis
List Creation: 02/26/24 01:50 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?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Lab Chronicle

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

Job ID: 500-246575-2

Client Sample ID: MW-02
Date Collected: 02/22/24 08:45
Date Received: 02/23/24 09:20

Lab Sample ID: 500-246575-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			650199	KAC	EET SL	02/28/24 09:51
Total/NA	Analysis	903.0		1	653504	SCB	EET SL	03/21/24 14:57
Total/NA	Prep	PrecSep_0			650202	KAC	EET SL	02/28/24 09:58
Total/NA	Analysis	904.0		1	651016	CMM	EET SL	03/05/24 12:49
Total/NA	Analysis	Ra226_Ra228		1	653731	EMH	EET SL	03/22/24 18:25

Client Sample ID: MW-03
Date Collected: 02/22/24 09:54
Date Received: 02/23/24 09:20

Lab Sample ID: 500-246575-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			650199	KAC	EET SL	02/28/24 09:51
Total/NA	Analysis	903.0		1	653504	SCB	EET SL	03/21/24 14:57
Total/NA	Prep	PrecSep_0			650202	KAC	EET SL	02/28/24 09:58
Total/NA	Analysis	904.0		1	651016	CMM	EET SL	03/05/24 12:49
Total/NA	Analysis	Ra226_Ra228		1	653731	EMH	EET SL	03/22/24 18:25

Client Sample ID: MW-04
Date Collected: 02/22/24 11:02
Date Received: 02/23/24 09:20

Lab Sample ID: 500-246575-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			650199	KAC	EET SL	02/28/24 09:51
Total/NA	Analysis	903.0		1	653504	SCB	EET SL	03/21/24 14:57
Total/NA	Prep	PrecSep_0			650202	KAC	EET SL	02/28/24 09:58
Total/NA	Analysis	904.0		1	651016	CMM	EET SL	03/05/24 12:49
Total/NA	Analysis	Ra226_Ra228		1	653731	EMH	EET SL	03/22/24 18:25

Client Sample ID: MW-05
Date Collected: 02/22/24 12:21
Date Received: 02/23/24 09:20

Lab Sample ID: 500-246575-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			650199	KAC	EET SL	02/28/24 09:51
Total/NA	Analysis	903.0		1	653504	SCB	EET SL	03/21/24 14:57
Total/NA	Prep	PrecSep_0			650202	KAC	EET SL	02/28/24 09:58
Total/NA	Analysis	904.0		1	651016	CMM	EET SL	03/05/24 12:50
Total/NA	Analysis	Ra226_Ra228		1	653731	EMH	EET SL	03/22/24 18:25

Lab Chronicle

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

Job ID: 500-246575-2

Client Sample ID: MW-01

Lab Sample ID: 500-246575-5

Date Collected: 02/21/24 09:07

Matrix: Water

Date Received: 02/23/24 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			650199	KAC	EET SL	02/28/24 09:51
Total/NA	Analysis	903.0		1	653504	SCB	EET SL	03/21/24 14:58
Total/NA	Prep	PrecSep_0			650202	KAC	EET SL	02/28/24 09:58
Total/NA	Analysis	904.0		1	651017	FLC	EET SL	03/05/24 12:42
Total/NA	Analysis	Ra226_Ra228		1	653731	EMH	EET SL	03/22/24 18:25

Client Sample ID: MW-10

Lab Sample ID: 500-246575-6

Date Collected: 02/21/24 13:42

Matrix: Water

Date Received: 02/23/24 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			650199	KAC	EET SL	02/28/24 09:51
Total/NA	Analysis	903.0		1	653504	SCB	EET SL	03/21/24 14:58
Total/NA	Prep	PrecSep_0			650202	KAC	EET SL	02/28/24 09:58
Total/NA	Analysis	904.0		1	651017	FLC	EET SL	03/05/24 12:42
Total/NA	Analysis	Ra226_Ra228		1	653731	EMH	EET SL	03/22/24 18:25

Client Sample ID: Duplicate

Lab Sample ID: 500-246575-7

Date Collected: 02/22/24 00:00

Matrix: Water

Date Received: 02/23/24 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			650199	KAC	EET SL	02/28/24 09:51
Total/NA	Analysis	903.0		1	653504	SCB	EET SL	03/21/24 14:58
Total/NA	Prep	PrecSep_0			650202	KAC	EET SL	02/28/24 09:58
Total/NA	Analysis	904.0		1	651017	FLC	EET SL	03/05/24 12:43
Total/NA	Analysis	Ra226_Ra228		1	653731	EMH	EET SL	03/22/24 18:25

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 FAB (RAD)

Job ID: 500-246575-2

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

Tracer/Carrier Summary

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

Job ID: 500-246575-2

Method: 903.0 - Radium-226 (GFPC)

Matrix: Water — **Prep Type: Total/NA**

		Percent Yield (Acceptance Limits)
		Ba
Lab Sample ID	Client Sample ID	(30-110)
500-246575-1	MW-02	95.7
500-246575-2	MW-03	93.1
500-246575-3	MW-04	101
500-246575-4	MW-05	97.7
500-246575-5	MW-01	108
500-246575-6	MW-10	110
500-246575-7	Duplicate	92.1
LCS 160-650199/2-A	Lab Control Sample	97.7
MB 160-650199/1-A	Method Blank	97.5

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	(30-110)	(30-110)
500-246575-1	MW-02	95.7	81.5
500-246575-2	MW-03	93.1	80.0
500-246575-3	MW-04	101	84.5
500-246575-4	MW-05	97.7	78.5
500-246575-5	MW-01	108	84.9
500-246575-6	MW-10	110	77.4
500-246575-7	Duplicate	92.1	81.9
LCS 160-650202/2-A	Lab Control Sample	97.7	83.4
MB 160-650202/1-A	Method Blank	97.5	82.2

Tracer/Carrier Legend

Ba = Ba Carrier
Y = Y Carrier

PROJECT NAME	**12313.1 – NRG – Powerton Station**		DATE	2/21/24
Sample Name	MW-01	Start Time	0849	
Condition of Well	Good			
Water Level	21.25	Total Depth	–	
Well Diameter	PVC – 2 inch	Volume in Well	–	
Method of Purge	Low flow bladder	Purge Characteristics	Clear	
Volume Removed	4.5 gl	W L at Sample Time		
Method of Sample	Low flow bladder	Sample Characteristics	Clear	
Sample Analysis	CCA, FAB, ABB/ASB	Sample Time	0907	
Water Quality Meter	YSI Pro MSS			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm).	DO (mg/L)	ORP (mV)	Turbidity (NTU)
0851	21.25	7.69	10.1	.863	11.31	77.1	24.46
0854	–	7.18	12.5	.907	10.44	94.0	18.18
0857	–	7.13	12.6	.915	9.88	101.3	18.41
0900	–	7.12	12.6	.915	9.40	106.8	21.71
0903	–	7.12	12.7	.919	9.13	109.6	17.88

SAMPLING NOTES:

Sampler Name and Company: KPRG and Associates

PROJECT NAME	12313.1 – NRG – Powerton Station		DATE	2/22/24
Sample Name	MW-02	Start Time	0830	
Condition of Well	Good			
Water Level	21.21	Total Depth	—	
Well Diameter	PVC – 2 inch	Volume in Well	—	
Method of Purge	Low flow bladder	Purge Characteristics	Clear	
Volume Removed	4.5 gt	W L at Sample Time	21.22	
Method of Sample	Low flow bladder	Sample Characteristics	Clear	
Sample Analysis	CCA, FAB	Sample Time	0845	
Water Quality Meter	YSI Pro MSS			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm).	DO (mg/L)	ORP (mV)	Turbidity (NTU)
0832	21.21	8.01	5.7	.971	11.30	80.7	14.87
0835	—	7.63	4.8	.715	11.65	99.3	28.65
0838	—	7.48	4.8	.715	11.73	107.8	23.89
0841	—	7.43	4.7	.717	11.80	112.1	22.00

SAMPLING NOTES: FAB Duplicate

light rain during sample collection

Sampler Name and Company: KPRG and Associates

PROJECT NAME	**12313.1 – NRG – Powerton Station**		DATE	2/22/24
Sample Name	MW-03	Start Time	0938	
Condition of Well	Good			
Water Level	20.10	Total Depth	—	
Well Diameter	PVC – 2 inch	Volume in Well	—	
Method of Purge	Low flow bladder	Purge Characteristics	Clear	
Volume Removed	4 gal	WL at Sample Time	20.12	
Method of Sample	Low flow bladder	Sample Characteristics	Clear	
Sample Analysis	CCA FAB	Sample Time	0954	
Water Quality Meter	YSI Pro MSS			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm).	DO (mg/L)	ORP (mV)	Turbidity (NTU)
0941	20.10	7.91	5.2	.803	12.58	133.4	8.95
0944	—	7.61	5.1	.785	12.19	135.6	9.21
0947	—	7.52	5.1	.781	11.81	136.2	9.56
0950	—	7.51	5.1	.779	11.66	136.3	10.24

SAMPLING NOTES:

Sampler Name and Company: KPRG and Associates

PROJECT NAME	12313.1 – NRG – Powerton Station		DATE	2/22/24
Sample Name	MW-04	Start Time	1047	
Condition of Well	Good			
Water Level	20.02	Total Depth	–	
Well Diameter	PVC – 2 inch	Volume in Well	–	
Method of Purge	Low flow bladder	Purge Characteristics	Clear	
Volume Removed	3qt	W L at Sample Time	20.02	
Method of Sample	Low flow bladder	Sample Characteristics	Clear	
Sample Analysis	CCA, FAB	Sample Time	1102	
Water Quality Meter	YSI Pro Mss			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm).	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1049	20.02	7.79	11.7	.864	10.78	130.9	10.16
1052	–	7.32	12.0	.859	8.89	131.1	11.76
1055	–	7.27	13.2	.857	7.57	126.4	13.50
1058	–	7.30	11.4	.816	7.94	125.1	9.24
1101	–	7.29	11.6	.817	8.22	123.4	15.41

SAMPLING NOTES: Trouble w/ air compressor took extra reading

Sampler Name and Company: KPRG and Associates

PROJECT NAME	12313.1 – NRG – Powerton Station		DATE	2/22/21
Sample Name	MW-05	Start Time	1206	
Condition of Well	Good			
Water Level	17.44	Total Depth	–	
Well Diameter	PVC – 2 inch	Volume in Well	–	
Method of Purge	Low flow bladder	Purge Characteristics	Clear	
Volume Removed	3.5 gt	WL at Sample Time	17.51	
Method of Sample	Low flow bladder	Sample Characteristics	Clear	
Sample Analysis	CCA, FAB	Sample Time	1221	
Water Quality Meter	YSI Pro MSS			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm).	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1208	17.44	7.65	13.1	1.144	10.78	114.5	14.74
1211	–	7.20	14.4	1.175	7.50	123.5	10.17
1214	–	7.17	14.4	1.171	5.36	123.4	7.84
1217	–	7.17	14.4	1.163	4.13	122.0	7.08

SAMPLING NOTES:

Sampler Name and Company: KPRG and Associates

PROJECT NAME	**12313.1 – NRG – Powerton Station**		DATE	2/21/24
Sample Name	MW-10	Start Time	1327	
Condition of Well	Good			
Water Level	13.32	Total Depth	–	
Well Diameter	PVC – 2 inch	Volume in Well	–	
Method of Purge	Low flow bladder	Purge Characteristics	Clear/Slightly Cloudy	
Volume Removed	4 gt	WL at Sample Time		
Method of Sample	Low flow bladder	Sample Characteristics	Slightly Cloudy	
Sample Analysis	CCA, FAB	Sample Time	1342	
Water Quality Meter				

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm).	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1329	13.32	7.76	12.6	.913	9.37	77.1	12.07
1332	–	7.24	12.8	1.012	6.46	81.5	28.26
1335	–	7.22	12.8	1.010	4.96	78.0	34.67
1338	–	7.21	12.8	1.010	4.23	75.2	29.67

SAMPLING NOTES:

Sampler Name and Company: KPRG and Associates