

## **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 3<sup>rd</sup> quarter 2022 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	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Radium 226 + 228	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	
	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	< 0.001	0.008	< 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	< 0.001	0.220	< 0.001	< 0.0005	< 0.005	0.004	< 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	0.0020	0.590	< 0.001	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	NS	8.11	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	
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	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</		

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	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Radium 226 + 228	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	< 0.01	NA	NA	< 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
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	73	90	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	< 0.465	< 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
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		

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	
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	
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	
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	
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	
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	

## ANALYTICAL REPORT

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

Laboratory Job ID: 500-221573-1  
Client Project/Site: Powerton CCR FAB

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

Attn: Richard Gnat



Authorized for release by:  
9/29/2022 9:30:19 AM

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

[Diana.Mockler@et.eurofinsus.com](mailto:Diana.Mockler@et.eurofinsus.com)

### LINKS

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results through



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

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



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# Case Narrative

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

Job ID: 500-221573-1

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**Job ID: 500-221573-1**

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**Laboratory: Eurofins Chicago**

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**Narrative**

**Job Narrative  
500-221573-1**

**Comments**

No additional comments.

**Receipt**

The samples were received on 8/31/2022 9:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.0° C and 4.5° C.

**Metals**

Method 6020A: The continuing calibration verification (CCV) associated with batch 500-673884 recovered above the upper control limit for Beryllium and Lithium. The low level continuing calibration verification (CCVL) at line 33, associated with batch 500-673884 recovered above the upper control limit for Beryllium. The samples associated with this CCV/CCVL were non-detects for the affected analytes; therefore, the data have been reported.

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

**General Chemistry**

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



# Method Summary

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

Job ID: 500-221573-1

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

#### Protocol References:

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

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

#### Laboratory References:

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



# Sample Summary

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

Job ID: 500-221573-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-221573-1	MW-01	Water	08/30/22 09:32	08/31/22 09:30
500-221573-2	MW-02	Water	08/30/22 10:48	08/31/22 09:30
500-221573-3	MW-03	Water	08/30/22 11:34	08/31/22 09:30
500-221573-4	MW-04	Water	08/30/22 12:37	08/31/22 09:30
500-221573-5	MW-05	Water	08/30/22 13:25	08/31/22 09:30
500-221573-6	MW-10	Water	08/30/22 08:42	08/31/22 09:30
500-221573-7	Duplicate	Water	08/30/22 00:00	08/31/22 09:30

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

# Client Sample Results

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

Job ID: 500-221573-1

**Client Sample ID: MW-01**

**Lab Sample ID: 500-221573-1**

Date Collected: 08/30/22 09:32

Matrix: Water

Date Received: 08/31/22 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		09/01/22 08:19	09/01/22 21:50	1
Arsenic	<0.0010		0.0010		mg/L		09/01/22 08:19	09/01/22 21:50	1
<b>Barium</b>	<b>0.073</b>		0.0025		mg/L		09/01/22 08:19	09/01/22 21:50	1
Beryllium	<0.0010	^+	0.0010		mg/L		09/01/22 08:19	09/08/22 20:09	1
<b>Boron</b>	<b>0.59</b>		0.050		mg/L		09/01/22 08:19	09/08/22 20:09	1
Cadmium	<0.00050		0.00050		mg/L		09/01/22 08:19	09/01/22 21:50	1
<b>Calcium</b>	<b>92</b>		0.20		mg/L		09/01/22 08:19	09/01/22 21:50	1
Chromium	<0.0050		0.0050		mg/L		09/01/22 08:19	09/01/22 21:50	1
Cobalt	<0.0010		0.0010		mg/L		09/01/22 08:19	09/01/22 21:50	1
Lead	<0.00050		0.00050		mg/L		09/01/22 08:19	09/01/22 21:50	1
Lithium	<0.010	^+	0.010		mg/L		09/01/22 08:19	09/08/22 20:09	1
Molybdenum	<0.0050		0.0050		mg/L		09/01/22 08:19	09/01/22 21:50	1
Selenium	<0.0025		0.0025		mg/L		09/01/22 08:19	09/01/22 21:50	1
Thallium	<0.0020		0.0020		mg/L		09/01/22 08:19	09/08/22 20:09	1

## Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		09/08/22 10:05	09/09/22 08:29	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>810</b>		10		mg/L			09/06/22 17:26	1
<b>Chloride</b>	<b>44</b>		4.0		mg/L			09/01/22 12:41	2
<b>Fluoride</b>	<b>0.15</b>		0.10		mg/L			09/10/22 14:33	1
<b>Sulfate</b>	<b>66</b>		10		mg/L			09/01/22 14:45	2

# Client Sample Results

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

Job ID: 500-221573-1

**Client Sample ID: MW-02**  
**Date Collected: 08/30/22 10:48**  
**Date Received: 08/31/22 09:30**

**Lab Sample ID: 500-221573-2**  
**Matrix: Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		09/01/22 08:19	09/01/22 21:53	1
Arsenic	<0.0010		0.0010		mg/L		09/01/22 08:19	09/01/22 21:53	1
<b>Barium</b>	<b>0.073</b>		0.0025		mg/L		09/01/22 08:19	09/01/22 21:53	1
Beryllium	<0.0010	^+	0.0010		mg/L		09/01/22 08:19	09/08/22 20:12	1
<b>Boron</b>	<b>1.1</b>		0.050		mg/L		09/01/22 08:19	09/08/22 20:12	1
Cadmium	<0.00050		0.00050		mg/L		09/01/22 08:19	09/01/22 21:53	1
<b>Calcium</b>	<b>95</b>		0.20		mg/L		09/01/22 08:19	09/01/22 21:53	1
Chromium	<0.0050		0.0050		mg/L		09/01/22 08:19	09/01/22 21:53	1
Cobalt	<0.0010		0.0010		mg/L		09/01/22 08:19	09/01/22 21:53	1
Lead	<0.00050		0.00050		mg/L		09/01/22 08:19	09/01/22 21:53	1
Lithium	<0.010	^+	0.010		mg/L		09/01/22 08:19	09/08/22 20:12	1
Molybdenum	<0.0050		0.0050		mg/L		09/01/22 08:19	09/01/22 21:53	1
Selenium	<0.0025		0.0025		mg/L		09/01/22 08:19	09/01/22 21:53	1
Thallium	<0.0020		0.0020		mg/L		09/01/22 08:19	09/08/22 20:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		09/08/22 10:05	09/09/22 08:31	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>690</b>		10		mg/L			09/06/22 17:29	1
<b>Chloride</b>	<b>45</b>		4.0		mg/L			09/01/22 12:42	2
<b>Fluoride</b>	<b>0.15</b>		0.10		mg/L			09/10/22 14:40	1
<b>Sulfate</b>	<b>75</b>		10		mg/L			09/01/22 14:46	2

# Client Sample Results

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

Job ID: 500-221573-1

**Client Sample ID: MW-03**

**Lab Sample ID: 500-221573-3**

Date Collected: 08/30/22 11:34

Matrix: Water

Date Received: 08/31/22 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		09/01/22 08:19	09/01/22 21:57	1
Arsenic	<0.0010		0.0010		mg/L		09/01/22 08:19	09/01/22 21:57	1
<b>Barium</b>	<b>0.10</b>		0.0025		mg/L		09/01/22 08:19	09/01/22 21:57	1
Beryllium	<0.0010	^+	0.0010		mg/L		09/01/22 08:19	09/08/22 20:16	1
<b>Boron</b>	<b>0.57</b>		0.050		mg/L		09/01/22 08:19	09/08/22 20:16	1
Cadmium	<0.00050		0.00050		mg/L		09/01/22 08:19	09/01/22 21:57	1
<b>Calcium</b>	<b>87</b>		0.20		mg/L		09/01/22 08:19	09/01/22 21:57	1
Chromium	<0.0050		0.0050		mg/L		09/01/22 08:19	09/01/22 21:57	1
Cobalt	<0.0010		0.0010		mg/L		09/01/22 08:19	09/01/22 21:57	1
Lead	<0.00050		0.00050		mg/L		09/01/22 08:19	09/01/22 21:57	1
Lithium	<0.010	^+	0.010		mg/L		09/01/22 08:19	09/08/22 20:16	1
Molybdenum	<0.0050		0.0050		mg/L		09/01/22 08:19	09/01/22 21:57	1
Selenium	<0.0025		0.0025		mg/L		09/01/22 08:19	09/01/22 21:57	1
Thallium	<0.0020		0.0020		mg/L		09/01/22 08:19	09/08/22 20:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		09/08/22 10:05	09/09/22 08:34	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>710</b>		10		mg/L			09/06/22 17:30	1
<b>Chloride</b>	<b>50</b>		4.0		mg/L			09/01/22 12:44	2
<b>Fluoride</b>	<b>0.21</b>		0.10		mg/L			09/10/22 14:49	1
<b>Sulfate</b>	<b>51</b>		10		mg/L			09/01/22 15:34	2

# Client Sample Results

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

Job ID: 500-221573-1

**Client Sample ID: MW-04**

**Lab Sample ID: 500-221573-4**

Date Collected: 08/30/22 12:37

Matrix: Water

Date Received: 08/31/22 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		09/01/22 08:19	09/01/22 22:00	1
Arsenic	<0.0010		0.0010		mg/L		09/01/22 08:19	09/01/22 22:00	1
<b>Barium</b>	<b>0.034</b>		0.0025		mg/L		09/01/22 08:19	09/01/22 22:00	1
Beryllium	<0.0010	^+	0.0010		mg/L		09/01/22 08:19	09/08/22 20:19	1
<b>Boron</b>	<b>0.67</b>		0.050		mg/L		09/01/22 08:19	09/08/22 20:19	1
Cadmium	<0.00050		0.00050		mg/L		09/01/22 08:19	09/01/22 22:00	1
<b>Calcium</b>	<b>94</b>		0.20		mg/L		09/01/22 08:19	09/01/22 22:00	1
Chromium	<0.0050		0.0050		mg/L		09/01/22 08:19	09/01/22 22:00	1
Cobalt	<0.0010		0.0010		mg/L		09/01/22 08:19	09/01/22 22:00	1
Lead	<0.00050		0.00050		mg/L		09/01/22 08:19	09/01/22 22:00	1
Lithium	<0.010	^+	0.010		mg/L		09/01/22 08:19	09/08/22 20:19	1
Molybdenum	<0.0050		0.0050		mg/L		09/01/22 08:19	09/01/22 22:00	1
Selenium	<0.0025		0.0025		mg/L		09/01/22 08:19	09/01/22 22:00	1
Thallium	<0.0020		0.0020		mg/L		09/01/22 08:19	09/08/22 20:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		09/08/22 10:05	09/09/22 08:36	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>720</b>		10		mg/L			09/06/22 17:31	1
<b>Chloride</b>	<b>61</b>		4.0		mg/L			09/01/22 12:45	2
<b>Fluoride</b>	<b>0.21</b>		0.10		mg/L			09/10/22 14:52	1
<b>Sulfate</b>	<b>67</b>		10		mg/L			09/01/22 15:35	2

# Client Sample Results

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

Job ID: 500-221573-1

**Client Sample ID: MW-05**

**Lab Sample ID: 500-221573-5**

Date Collected: 08/30/22 13:25

Matrix: Water

Date Received: 08/31/22 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		09/01/22 08:19	09/01/22 22:04	1
Arsenic	<0.0010		0.0010		mg/L		09/01/22 08:19	09/01/22 22:04	1
<b>Barium</b>	<b>0.029</b>		0.0025		mg/L		09/01/22 08:19	09/01/22 22:04	1
Beryllium	<0.0010	^+	0.0010		mg/L		09/01/22 08:19	09/08/22 20:23	1
<b>Boron</b>	<b>0.69</b>		0.050		mg/L		09/01/22 08:19	09/08/22 20:23	1
Cadmium	<0.00050		0.00050		mg/L		09/01/22 08:19	09/01/22 22:04	1
<b>Calcium</b>	<b>79</b>		0.20		mg/L		09/01/22 08:19	09/01/22 22:04	1
Chromium	<0.0050		0.0050		mg/L		09/01/22 08:19	09/01/22 22:04	1
Cobalt	<0.0010		0.0010		mg/L		09/01/22 08:19	09/01/22 22:04	1
Lead	<0.00050		0.00050		mg/L		09/01/22 08:19	09/01/22 22:04	1
Lithium	<0.010	^+	0.010		mg/L		09/01/22 08:19	09/08/22 20:23	1
<b>Molybdenum</b>	<b>0.0073</b>		0.0050		mg/L		09/01/22 08:19	09/01/22 22:04	1
Selenium	<0.0025		0.0025		mg/L		09/01/22 08:19	09/01/22 22:04	1
Thallium	<0.0020		0.0020		mg/L		09/01/22 08:19	09/08/22 20:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		09/08/22 10:05	09/09/22 08:38	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>720</b>		10		mg/L			09/06/22 17:32	1
<b>Chloride</b>	<b>73</b>		4.0		mg/L			09/01/22 12:45	2
<b>Fluoride</b>	<b>0.38</b>		0.10		mg/L			09/10/22 14:54	1
<b>Sulfate</b>	<b>86</b>		25		mg/L			09/01/22 15:36	5

# Client Sample Results

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

Job ID: 500-221573-1

**Client Sample ID: MW-10**

**Lab Sample ID: 500-221573-6**

Date Collected: 08/30/22 08:42

Matrix: Water

Date Received: 08/31/22 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		09/01/22 08:19	09/01/22 22:07	1
<b>Arsenic</b>	<b>0.0012</b>		0.0010		mg/L		09/01/22 08:19	09/01/22 22:07	1
<b>Barium</b>	<b>0.24</b>		0.0025		mg/L		09/01/22 08:19	09/01/22 22:07	1
Beryllium	<0.0010	^+	0.0010		mg/L		09/01/22 08:19	09/08/22 20:26	1
<b>Boron</b>	<b>0.38</b>		0.050		mg/L		09/01/22 08:19	09/08/22 20:26	1
Cadmium	<0.00050		0.00050		mg/L		09/01/22 08:19	09/01/22 22:07	1
<b>Calcium</b>	<b>92</b>		0.20		mg/L		09/01/22 08:19	09/01/22 22:07	1
Chromium	<0.0050		0.0050		mg/L		09/01/22 08:19	09/01/22 22:07	1
<b>Cobalt</b>	<b>0.0086</b>		0.0010		mg/L		09/01/22 08:19	09/01/22 22:07	1
<b>Lead</b>	<b>0.00074</b>		0.00050		mg/L		09/01/22 08:19	09/01/22 22:07	1
Lithium	<0.010	^+	0.010		mg/L		09/01/22 08:19	09/08/22 20:26	1
Molybdenum	<0.0050		0.0050		mg/L		09/01/22 08:19	09/01/22 22:07	1
Selenium	<0.0025		0.0025		mg/L		09/01/22 08:19	09/01/22 22:07	1
Thallium	<0.0020		0.0020		mg/L		09/01/22 08:19	09/08/22 20:26	1

## Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		09/08/22 10:05	09/09/22 08:40	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>590</b>		10		mg/L			09/06/22 18:03	1
<b>Chloride</b>	<b>45</b>		4.0		mg/L			09/01/22 12:45	2
<b>Fluoride</b>	<b>0.22</b>		0.10		mg/L			09/10/22 14:56	1
<b>Sulfate</b>	<b>38</b>		10		mg/L			09/01/22 15:36	2

# Client Sample Results

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

Job ID: 500-221573-1

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

**Lab Sample ID: 500-221573-7**  
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		09/01/22 08:19	09/01/22 22:11	1
Arsenic	<0.0010		0.0010		mg/L		09/01/22 08:19	09/01/22 22:11	1
<b>Barium</b>	<b>0.10</b>		0.0025		mg/L		09/01/22 08:19	09/01/22 22:11	1
Beryllium	<0.0010	^+	0.0010		mg/L		09/01/22 08:19	09/08/22 20:30	1
<b>Boron</b>	<b>0.58</b>		0.050		mg/L		09/01/22 08:19	09/08/22 20:30	1
Cadmium	<0.00050		0.00050		mg/L		09/01/22 08:19	09/01/22 22:11	1
<b>Calcium</b>	<b>88</b>		0.20		mg/L		09/01/22 08:19	09/01/22 22:11	1
Chromium	<0.0050		0.0050		mg/L		09/01/22 08:19	09/01/22 22:11	1
Cobalt	<0.0010		0.0010		mg/L		09/01/22 08:19	09/01/22 22:11	1
Lead	<0.00050		0.00050		mg/L		09/01/22 08:19	09/01/22 22:11	1
Lithium	<0.010	^+	0.010		mg/L		09/01/22 08:19	09/08/22 20:30	1
Molybdenum	<0.0050		0.0050		mg/L		09/01/22 08:19	09/01/22 22:11	1
Selenium	<0.0025		0.0025		mg/L		09/01/22 08:19	09/01/22 22:11	1
Thallium	<0.0020		0.0020		mg/L		09/01/22 08:19	09/08/22 20:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		09/08/22 10:05	09/09/22 08:48	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>670</b>		10		mg/L			09/06/22 17:33	1
<b>Chloride</b>	<b>48</b>		10		mg/L			09/01/22 14:01	5
<b>Fluoride</b>	<b>0.22</b>		0.10		mg/L			09/10/22 14:59	1
<b>Sulfate</b>	<b>46</b>		25		mg/L			09/01/22 15:36	5



# Definitions/Glossary

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

Job ID: 500-221573-1

## Qualifiers

### Metals

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

### General Chemistry

Qualifier	Qualifier Description
F3	Duplicate RPD exceeds the control 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

Job ID: 500-221573-1

## Metals

### Prep Batch: 672695

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221573-1	MW-01	Total Recoverable	Water	3005A	
500-221573-2	MW-02	Total Recoverable	Water	3005A	
500-221573-3	MW-03	Total Recoverable	Water	3005A	
500-221573-4	MW-04	Total Recoverable	Water	3005A	
500-221573-5	MW-05	Total Recoverable	Water	3005A	
500-221573-6	MW-10	Total Recoverable	Water	3005A	
500-221573-7	Duplicate	Total Recoverable	Water	3005A	
MB 500-672695/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-672695/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

### Analysis Batch: 673460

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221573-1	MW-01	Total Recoverable	Water	6020A	672695
500-221573-2	MW-02	Total Recoverable	Water	6020A	672695
500-221573-3	MW-03	Total Recoverable	Water	6020A	672695
500-221573-4	MW-04	Total Recoverable	Water	6020A	672695
500-221573-5	MW-05	Total Recoverable	Water	6020A	672695
500-221573-6	MW-10	Total Recoverable	Water	6020A	672695
500-221573-7	Duplicate	Total Recoverable	Water	6020A	672695
MB 500-672695/1-A	Method Blank	Total Recoverable	Water	6020A	672695
LCS 500-672695/2-A	Lab Control Sample	Total Recoverable	Water	6020A	672695

### Prep Batch: 673622

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221573-1	MW-01	Total/NA	Water	7470A	
500-221573-2	MW-02	Total/NA	Water	7470A	
500-221573-3	MW-03	Total/NA	Water	7470A	
500-221573-4	MW-04	Total/NA	Water	7470A	
500-221573-5	MW-05	Total/NA	Water	7470A	
500-221573-6	MW-10	Total/NA	Water	7470A	
500-221573-7	Duplicate	Total/NA	Water	7470A	
MB 500-673622/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-673622/13-A	Lab Control Sample	Total/NA	Water	7470A	
500-221573-6 MS	MW-10	Total/NA	Water	7470A	
500-221573-6 MSD	MW-10	Total/NA	Water	7470A	
500-221573-6 DU	MW-10	Total/NA	Water	7470A	

### Analysis Batch: 673884

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221573-1	MW-01	Total Recoverable	Water	6020A	672695
500-221573-2	MW-02	Total Recoverable	Water	6020A	672695
500-221573-3	MW-03	Total Recoverable	Water	6020A	672695
500-221573-4	MW-04	Total Recoverable	Water	6020A	672695
500-221573-5	MW-05	Total Recoverable	Water	6020A	672695
500-221573-6	MW-10	Total Recoverable	Water	6020A	672695
500-221573-7	Duplicate	Total Recoverable	Water	6020A	672695
MB 500-672695/1-A	Method Blank	Total Recoverable	Water	6020A	672695
LCS 500-672695/2-A	Lab Control Sample	Total Recoverable	Water	6020A	672695

# QC Association Summary

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

Job ID: 500-221573-1

## Metals

### Analysis Batch: 673899

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221573-1	MW-01	Total/NA	Water	7470A	673622
500-221573-2	MW-02	Total/NA	Water	7470A	673622
500-221573-3	MW-03	Total/NA	Water	7470A	673622
500-221573-4	MW-04	Total/NA	Water	7470A	673622
500-221573-5	MW-05	Total/NA	Water	7470A	673622
500-221573-6	MW-10	Total/NA	Water	7470A	673622
500-221573-7	Duplicate	Total/NA	Water	7470A	673622
MB 500-673622/12-A	Method Blank	Total/NA	Water	7470A	673622
LCS 500-673622/13-A	Lab Control Sample	Total/NA	Water	7470A	673622
500-221573-6 MS	MW-10	Total/NA	Water	7470A	673622
500-221573-6 MSD	MW-10	Total/NA	Water	7470A	673622
500-221573-6 DU	MW-10	Total/NA	Water	7470A	673622

## General Chemistry

### Analysis Batch: 672805

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221573-1	MW-01	Total/NA	Water	SM 4500 CI- E	
500-221573-2	MW-02	Total/NA	Water	SM 4500 CI- E	
500-221573-3	MW-03	Total/NA	Water	SM 4500 CI- E	
500-221573-4	MW-04	Total/NA	Water	SM 4500 CI- E	
500-221573-5	MW-05	Total/NA	Water	SM 4500 CI- E	
500-221573-6	MW-10	Total/NA	Water	SM 4500 CI- E	
500-221573-7	Duplicate	Total/NA	Water	SM 4500 CI- E	
MB 500-672805/58	Method Blank	Total/NA	Water	SM 4500 CI- E	
MB 500-672805/94	Method Blank	Total/NA	Water	SM 4500 CI- E	
LCS 500-672805/59	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	
LCS 500-672805/95	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	

### Analysis Batch: 672849

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221573-1	MW-01	Total/NA	Water	SM 4500 SO4 E	
500-221573-2	MW-02	Total/NA	Water	SM 4500 SO4 E	
500-221573-3	MW-03	Total/NA	Water	SM 4500 SO4 E	
500-221573-4	MW-04	Total/NA	Water	SM 4500 SO4 E	
500-221573-5	MW-05	Total/NA	Water	SM 4500 SO4 E	
500-221573-6	MW-10	Total/NA	Water	SM 4500 SO4 E	
500-221573-7	Duplicate	Total/NA	Water	SM 4500 SO4 E	
MB 500-672849/16	Method Blank	Total/NA	Water	SM 4500 SO4 E	
MB 500-672849/72	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-672849/17	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
LCS 500-672849/73	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
500-221573-3 MS	MW-03	Total/NA	Water	SM 4500 SO4 E	
500-221573-3 MSD	MW-03	Total/NA	Water	SM 4500 SO4 E	

### Analysis Batch: 673324

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221573-1	MW-01	Total/NA	Water	SM 2540C	
500-221573-2	MW-02	Total/NA	Water	SM 2540C	
500-221573-3	MW-03	Total/NA	Water	SM 2540C	
500-221573-4	MW-04	Total/NA	Water	SM 2540C	

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# QC Association Summary

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

Job ID: 500-221573-1

## General Chemistry (Continued)

### Analysis Batch: 673324 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221573-5	MW-05	Total/NA	Water	SM 2540C	
500-221573-7	Duplicate	Total/NA	Water	SM 2540C	
MB 500-673324/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-673324/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-221573-1 DU	MW-01	Total/NA	Water	SM 2540C	

### Analysis Batch: 673325

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221573-6	MW-10	Total/NA	Water	SM 2540C	
MB 500-673325/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-673325/2	Lab Control Sample	Total/NA	Water	SM 2540C	

### Analysis Batch: 674042

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221573-1	MW-01	Total/NA	Water	SM 4500 F C	
500-221573-2	MW-02	Total/NA	Water	SM 4500 F C	
500-221573-3	MW-03	Total/NA	Water	SM 4500 F C	
500-221573-4	MW-04	Total/NA	Water	SM 4500 F C	
500-221573-5	MW-05	Total/NA	Water	SM 4500 F C	
500-221573-6	MW-10	Total/NA	Water	SM 4500 F C	
500-221573-7	Duplicate	Total/NA	Water	SM 4500 F C	
MB 500-674042/31	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-674042/32	Lab Control Sample	Total/NA	Water	SM 4500 F C	
500-221573-1 MS	MW-01	Total/NA	Water	SM 4500 F C	
500-221573-1 MSD	MW-01	Total/NA	Water	SM 4500 F C	

# QC Sample Results

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

Job ID: 500-221573-1

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

**Lab Sample ID: MB 500-672695/1-A**  
**Matrix: Water**  
**Analysis Batch: 673460**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 672695**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0030		0.0030		mg/L		09/01/22 08:19	09/01/22 20:38	1
Arsenic	<0.0010		0.0010		mg/L		09/01/22 08:19	09/01/22 20:38	1
Barium	<0.0025		0.0025		mg/L		09/01/22 08:19	09/01/22 20:38	1
Cadmium	<0.00050		0.00050		mg/L		09/01/22 08:19	09/01/22 20:38	1
Calcium	<0.20		0.20		mg/L		09/01/22 08:19	09/01/22 20:38	1
Chromium	<0.0050		0.0050		mg/L		09/01/22 08:19	09/01/22 20:38	1
Cobalt	<0.0010		0.0010		mg/L		09/01/22 08:19	09/01/22 20:38	1
Lead	<0.00050		0.00050		mg/L		09/01/22 08:19	09/01/22 20:38	1
Molybdenum	<0.0050		0.0050		mg/L		09/01/22 08:19	09/01/22 20:38	1
Selenium	<0.0025		0.0025		mg/L		09/01/22 08:19	09/01/22 20:38	1

**Lab Sample ID: MB 500-672695/1-A**  
**Matrix: Water**  
**Analysis Batch: 673884**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 672695**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Beryllium	<0.0010	^+	0.0010		mg/L		09/01/22 08:19	09/08/22 20:02	1
Boron	<0.050		0.050		mg/L		09/01/22 08:19	09/08/22 20:02	1
Lithium	<0.010	^+	0.010		mg/L		09/01/22 08:19	09/08/22 20:02	1
Thallium	<0.0020		0.0020		mg/L		09/01/22 08:19	09/08/22 20:02	1

**Lab Sample ID: LCS 500-672695/2-A**  
**Matrix: Water**  
**Analysis Batch: 673460**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 672695**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.0916		mg/L		92	80 - 120
Barium	0.500	0.450		mg/L		90	80 - 120
Cadmium	0.0500	0.0483		mg/L		97	80 - 120
Calcium	10.0	8.61		mg/L		86	80 - 120
Chromium	0.200	0.183		mg/L		92	80 - 120
Cobalt	0.500	0.453		mg/L		91	80 - 120
Lead	0.100	0.0980		mg/L		98	80 - 120
Molybdenum	1.00	0.885		mg/L		88	80 - 120
Selenium	0.100	0.0941		mg/L		94	80 - 120

**Lab Sample ID: LCS 500-672695/2-A**  
**Matrix: Water**  
**Analysis Batch: 673884**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 672695**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.00	1.03		mg/L		103	80 - 120
Lithium	0.100	0.111	^+	mg/L		111	80 - 120
Thallium	0.100	0.103		mg/L		103	80 - 120

# QC Sample Results

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

Job ID: 500-221573-1

## Method: 7470A - Mercury (CVAA)

**Lab Sample ID: MB 500-673622/12-A**  
**Matrix: Water**  
**Analysis Batch: 673899**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 673622**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		09/08/22 10:05	09/09/22 08:17	1

**Lab Sample ID: LCS 500-673622/13-A**  
**Matrix: Water**  
**Analysis Batch: 673899**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 673622**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00200	0.00181		mg/L		91	80 - 120

**Lab Sample ID: 500-221573-6 MS**  
**Matrix: Water**  
**Analysis Batch: 673899**

**Client Sample ID: MW-10**  
**Prep Type: Total/NA**  
**Prep Batch: 673622**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.00020		0.00100	0.00111		mg/L		111	75 - 125

**Lab Sample ID: 500-221573-6 MSD**  
**Matrix: Water**  
**Analysis Batch: 673899**

**Client Sample ID: MW-10**  
**Prep Type: Total/NA**  
**Prep Batch: 673622**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.00020		0.00100	0.00112		mg/L		112	75 - 125	1	20

**Lab Sample ID: 500-221573-6 DU**  
**Matrix: Water**  
**Analysis Batch: 673899**

**Client Sample ID: MW-10**  
**Prep Type: Total/NA**  
**Prep Batch: 673622**

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

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

**Lab Sample ID: MB 500-673324/1**  
**Matrix: Water**  
**Analysis Batch: 673324**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10		mg/L			09/06/22 17:10	1

**Lab Sample ID: LCS 500-673324/2**  
**Matrix: Water**  
**Analysis Batch: 673324**

**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	296		mg/L		118	80 - 120

# QC Sample Results

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

Job ID: 500-221573-1

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

Lab Sample ID: 500-221573-1 DU  
Matrix: Water  
Analysis Batch: 673324

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

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	810		740	F3	mg/L		9	5

Lab Sample ID: MB 500-673325/1  
Matrix: Water  
Analysis Batch: 673325

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10		mg/L			09/06/22 17:40	1

Lab Sample ID: LCS 500-673325/2  
Matrix: Water  
Analysis Batch: 673325

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	290		mg/L		116	80 - 120

## Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 500-672805/58  
Matrix: Water  
Analysis Batch: 672805

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<2.0		2.0		mg/L			09/01/22 12:38	1

Lab Sample ID: MB 500-672805/94  
Matrix: Water  
Analysis Batch: 672805

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<2.0		2.0		mg/L			09/01/22 14:00	1

Lab Sample ID: LCS 500-672805/59  
Matrix: Water  
Analysis Batch: 672805

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	20.7		mg/L		104	85 - 115

Lab Sample ID: LCS 500-672805/95  
Matrix: Water  
Analysis Batch: 672805

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	19.8		mg/L		99	85 - 115

# QC Sample Results

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

Job ID: 500-221573-1

## Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-674042/31  
Matrix: Water  
Analysis Batch: 674042

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10		mg/L			09/10/22 14:28	1

Lab Sample ID: LCS 500-674042/32  
Matrix: Water  
Analysis Batch: 674042

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	10.0	10.8		mg/L		108	90 - 119

Lab Sample ID: 500-221573-1 MS  
Matrix: Water  
Analysis Batch: 674042

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.15		5.00	5.49		mg/L		107	75 - 125

Lab Sample ID: 500-221573-1 MSD  
Matrix: Water  
Analysis Batch: 674042

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	0.15		5.00	5.43		mg/L		106	75 - 125	1	20

## Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 500-672849/16  
Matrix: Water  
Analysis Batch: 672849

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<5.0		5.0		mg/L			09/01/22 14:37	1

Lab Sample ID: MB 500-672849/72  
Matrix: Water  
Analysis Batch: 672849

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<5.0		5.0		mg/L			09/01/22 15:33	1

Lab Sample ID: LCS 500-672849/17  
Matrix: Water  
Analysis Batch: 672849

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

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



# QC Sample Results

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

Job ID: 500-221573-1

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

**Lab Sample ID: LCS 500-672849/73**  
**Matrix: Water**  
**Analysis Batch: 672849**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	20.0	21.5		mg/L		108	88 - 123

**Lab Sample ID: 500-221573-3 MS**  
**Matrix: Water**  
**Analysis Batch: 672849**

**Client Sample ID: MW-03**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	51		20.0	67.9		mg/L		87	75 - 125

**Lab Sample ID: 500-221573-3 MSD**  
**Matrix: Water**  
**Analysis Batch: 672849**

**Client Sample ID: MW-03**  
**Prep Type: Total/NA**


Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	51		20.0	68.5		mg/L		90	75 - 125	1	20

**Eurofins Chicago**

241 Board Street  
University Park IL 60484  
Phone 708-534 5200 Fax 708 534 5211

**Chain of Custody Record**

**MKE 232** eurofins

<b>Client Information</b> Client Contact: Mitchel Dolan Company: KPRG and Associates Inc. Address: 14665 West Lsbor Road Suite 1A City: Brookfield State/zip: WI 53005 Phone: 262 781-0475(Tel) Email: mtcheld@kprginc.com Project Name: Powerton CCR <b>FAB</b> Site: Illinois		Sample ID: <b>Kaelyn Sperle</b> Phone: <b>262-278-1621</b> Lab Name: Mockler Diana J Email: Diana.Mockler@eurofinsus.com Carrier Contact No(s): State of Origin: <b>IL</b>		COC No: 500-104268-44025 1 Page: Page 1 of 1 Job #: <b>500-221573</b>						
Due Date Requested: <b>Standard</b> TAT Requested (days): <b>Standard</b> Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No PO #: 4502081030 WO #: Project #: 50011610 SSOW#:		<b>Analysis Requested</b>								
 500-221573 COC		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No)		Total Number of Containers						
						903.0 Standard Target List Ra226Ra228_GFFC Local Method 904.0 Standard Target List 6020A, 7470A 2540C, 4500_F_C, SIM4500, Cl_E, SIM4500_S04_E				
<b>Sample Identification</b>		Sample Date	Sample Time	Sample Type (C=comp G=grab)	Matrix (W=water W=oil O=waste/oil BT Tit Use Air)	Preservation Code	<b>Special Instructions/Note</b>			
1	MW-01	8/30/22	0932	G	Water	NNXXXX				
2	MW-02	8/30/22	1048	G	Water	NNXXXX				
3	MW-03	8/30/22	1134	G	Water	NNXXXX				
4	MW-04	8/30/22	1237	G	Water	NNXXXX				
5	MW-05	8/30/22	1325	G	Water	NNXXXX				
6	MW-10	8/30/22	0842	G	Water	NNXXXX				
7	Duplicate	8/30/22		G	Water	NNXXXX				
<b>Possible Hazard Identification</b> <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radioactive		<b>Sample Disposal</b> (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months								
Deliverable Requested I II III IV Other (specify)		Special Instructions/QC Requirements								
Empty Kit Returned by _____ Date _____ Time _____ Method of Shipment _____										
Requested by: <b>Kaelyn Sperle</b> Date/Time: <b>8/30/22/1645</b> Company: <b>KPRG</b>		Received by: <b>Shaw Leeds</b> Date/Time: <b>8/30/22/0930</b> Company: <b>FedEx</b>		Requested by: _____ Date/Time: _____ Company: _____						
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No _____		Cooler Temperature (°C) at the Remarks: <b>5.8 → 45.3 → 2.0</b>								

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

SHIP DATE: 30AUG22  
ACTWGT: 50.85 LB  
CAD: 6994780/SSFE2322  
DIMS: 24x13x13 IN  
BILL THIRD PARTY

Part # 156297-435 RRDB2 EXP 04/23  
0231/0031/17195

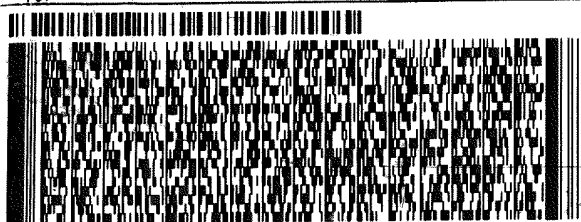
TO EUROFINS

2417 BOND ST.

UNIVERSITY PARK IL 60484

(555) 555-5555  
IN: REF: PO: DEPT:

500-221573 Waybl



FedEx  
Express



REL#  
3786346

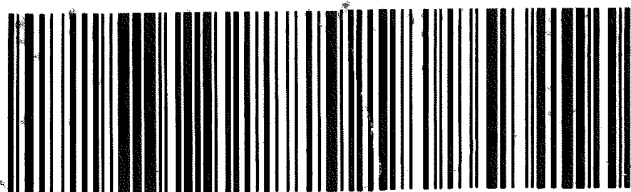
4 of 6  
MPS# 2774 0693 6115  
0263 Mstr# 2774 0693 6089

XN JOTA

0201

WED - 31 AUG 10:30A  
PRIORITY OVERNIGHT

AHS  
60484  
IL-US ORD



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

SHIP DATE: 30AUG22  
ACTWGT: 50.85 LB  
CAD: 6994780/SSFE2322  
DIMS: 24x13x13 IN  
BILL THIRD PARTY

Part # 156297-435 RRDB2 EXP 04/23  
0231/0031/17195

TO EUROFINS

2417 BOND ST.

UNIVERSITY PARK IL 60484

(555) 555-5555  
IN: REF: PO: DEPT:



Fed  
Exp



REL#  
3786346

2 of 6  
MPS# 2774 0693 60  
0263 Mstr# 2774 0693 6089

XN JOTA

0201

WED - 31 AUG 10:30A  
PRIORITY OVERNIGHT

AHS  
60484  
IL-US ORD



## Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-221573-1

**Login Number: 221573**

**List Number: 1**

**Creator: Scott, Sherri L**

**List Source: Eurofins Chicago**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.5,2.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



# Lab Chronicle

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

Job ID: 500-221573-1

**Client Sample ID: MW-01**  
**Date Collected: 08/30/22 09:32**  
**Date Received: 08/31/22 09:30**

**Lab Sample ID: 500-221573-1**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			672695	BDE	EET CHI	09/01/22 08:19 - 09/01/22 08:49 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	673884	FXG	EET CHI	09/08/22 20:09
Total Recoverable	Prep	3005A			672695	BDE	EET CHI	09/01/22 08:19 - 09/01/22 08:49 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	673460	FXG	EET CHI	09/01/22 21:50
Total/NA	Prep	7470A			673622	MJG	EET CHI	09/08/22 10:05 - 09/08/22 12:05 <sup>1</sup>
Total/NA	Analysis	7470A		1	673899	MJG	EET CHI	09/09/22 08:29
Total/NA	Analysis	SM 2540C		1	673324	SMO	EET CHI	09/06/22 17:26
Total/NA	Analysis	SM 4500 CI- E		2	672805	LP	EET CHI	09/01/22 12:41
Total/NA	Analysis	SM 4500 F C		1	674042	EAT	EET CHI	09/10/22 14:33
Total/NA	Analysis	SM 4500 SO4 E		2	672849	LP	EET CHI	09/01/22 14:45

**Client Sample ID: MW-02**  
**Date Collected: 08/30/22 10:48**  
**Date Received: 08/31/22 09:30**

**Lab Sample ID: 500-221573-2**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			672695	BDE	EET CHI	09/01/22 08:19 - 09/01/22 08:49 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	673884	FXG	EET CHI	09/08/22 20:12
Total Recoverable	Prep	3005A			672695	BDE	EET CHI	09/01/22 08:19 - 09/01/22 08:49 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	673460	FXG	EET CHI	09/01/22 21:53
Total/NA	Prep	7470A			673622	MJG	EET CHI	09/08/22 10:05 - 09/08/22 12:05 <sup>1</sup>
Total/NA	Analysis	7470A		1	673899	MJG	EET CHI	09/09/22 08:31
Total/NA	Analysis	SM 2540C		1	673324	SMO	EET CHI	09/06/22 17:29
Total/NA	Analysis	SM 4500 CI- E		2	672805	LP	EET CHI	09/01/22 12:42
Total/NA	Analysis	SM 4500 F C		1	674042	EAT	EET CHI	09/10/22 14:40
Total/NA	Analysis	SM 4500 SO4 E		2	672849	LP	EET CHI	09/01/22 14:46

**Client Sample ID: MW-03**  
**Date Collected: 08/30/22 11:34**  
**Date Received: 08/31/22 09:30**

**Lab Sample ID: 500-221573-3**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			672695	BDE	EET CHI	09/01/22 08:19 - 09/01/22 08:49 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	673884	FXG	EET CHI	09/08/22 20:16
Total Recoverable	Prep	3005A			672695	BDE	EET CHI	09/01/22 08:19 - 09/01/22 08:49 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	673460	FXG	EET CHI	09/01/22 21:57
Total/NA	Prep	7470A			673622	MJG	EET CHI	09/08/22 10:05 - 09/08/22 12:05 <sup>1</sup>
Total/NA	Analysis	7470A		1	673899	MJG	EET CHI	09/09/22 08:34
Total/NA	Analysis	SM 2540C		1	673324	SMO	EET CHI	09/06/22 17:30
Total/NA	Analysis	SM 4500 CI- E		2	672805	LP	EET CHI	09/01/22 12:44
Total/NA	Analysis	SM 4500 F C		1	674042	EAT	EET CHI	09/10/22 14:49
Total/NA	Analysis	SM 4500 SO4 E		2	672849	LP	EET CHI	09/01/22 15:34

# Lab Chronicle

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

Job ID: 500-221573-1

**Client Sample ID: MW-04**

**Date Collected: 08/30/22 12:37**

**Date Received: 08/31/22 09:30**

**Lab Sample ID: 500-221573-4**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			672695	BDE	EET CHI	09/01/22 08:19 - 09/01/22 08:49 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	673884	FXG	EET CHI	09/08/22 20:19
Total Recoverable	Prep	3005A			672695	BDE	EET CHI	09/01/22 08:19 - 09/01/22 08:49 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	673460	FXG	EET CHI	09/01/22 22:00
Total/NA	Prep	7470A			673622	MJG	EET CHI	09/08/22 10:05 - 09/08/22 12:05 <sup>1</sup>
Total/NA	Analysis	7470A		1	673899	MJG	EET CHI	09/09/22 08:36
Total/NA	Analysis	SM 2540C		1	673324	SMO	EET CHI	09/06/22 17:31
Total/NA	Analysis	SM 4500 CI- E		2	672805	LP	EET CHI	09/01/22 12:45
Total/NA	Analysis	SM 4500 F C		1	674042	EAT	EET CHI	09/10/22 14:52
Total/NA	Analysis	SM 4500 SO4 E		2	672849	LP	EET CHI	09/01/22 15:35

**Client Sample ID: MW-05**

**Date Collected: 08/30/22 13:25**

**Date Received: 08/31/22 09:30**

**Lab Sample ID: 500-221573-5**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			672695	BDE	EET CHI	09/01/22 08:19 - 09/01/22 08:49 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	673884	FXG	EET CHI	09/08/22 20:23
Total Recoverable	Prep	3005A			672695	BDE	EET CHI	09/01/22 08:19 - 09/01/22 08:49 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	673460	FXG	EET CHI	09/01/22 22:04
Total/NA	Prep	7470A			673622	MJG	EET CHI	09/08/22 10:05 - 09/08/22 12:05 <sup>1</sup>
Total/NA	Analysis	7470A		1	673899	MJG	EET CHI	09/09/22 08:38
Total/NA	Analysis	SM 2540C		1	673324	SMO	EET CHI	09/06/22 17:32
Total/NA	Analysis	SM 4500 CI- E		2	672805	LP	EET CHI	09/01/22 12:45
Total/NA	Analysis	SM 4500 F C		1	674042	EAT	EET CHI	09/10/22 14:54
Total/NA	Analysis	SM 4500 SO4 E		5	672849	LP	EET CHI	09/01/22 15:36

**Client Sample ID: MW-10**

**Date Collected: 08/30/22 08:42**

**Date Received: 08/31/22 09:30**

**Lab Sample ID: 500-221573-6**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			672695	BDE	EET CHI	09/01/22 08:19 - 09/01/22 08:49 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	673884	FXG	EET CHI	09/08/22 20:26
Total Recoverable	Prep	3005A			672695	BDE	EET CHI	09/01/22 08:19 - 09/01/22 08:49 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	673460	FXG	EET CHI	09/01/22 22:07
Total/NA	Prep	7470A			673622	MJG	EET CHI	09/08/22 10:05 - 09/08/22 12:05 <sup>1</sup>
Total/NA	Analysis	7470A		1	673899	MJG	EET CHI	09/09/22 08:40
Total/NA	Analysis	SM 2540C		1	673325	SMO	EET CHI	09/06/22 18:03
Total/NA	Analysis	SM 4500 CI- E		2	672805	LP	EET CHI	09/01/22 12:45
Total/NA	Analysis	SM 4500 F C		1	674042	EAT	EET CHI	09/10/22 14:56
Total/NA	Analysis	SM 4500 SO4 E		2	672849	LP	EET CHI	09/01/22 15:36

# Lab Chronicle

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

Job ID: 500-221573-1

**Client Sample ID: Duplicate**

**Lab Sample ID: 500-221573-7**

**Date Collected: 08/30/22 00:00**

**Matrix: Water**

**Date Received: 08/31/22 09:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			672695	BDE	EET CHI	09/01/22 08:19 - 09/01/22 08:49 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	673884	FXG	EET CHI	09/08/22 20:30
Total Recoverable	Prep	3005A			672695	BDE	EET CHI	09/01/22 08:19 - 09/01/22 08:49 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	673460	FXG	EET CHI	09/01/22 22:11
Total/NA	Prep	7470A			673622	MJG	EET CHI	09/08/22 10:05 - 09/08/22 12:05 <sup>1</sup>
Total/NA	Analysis	7470A		1	673899	MJG	EET CHI	09/09/22 08:48
Total/NA	Analysis	SM 2540C		1	673324	SMO	EET CHI	09/06/22 17:33
Total/NA	Analysis	SM 4500 Cl- E		5	672805	LP	EET CHI	09/01/22 14:01
Total/NA	Analysis	SM 4500 F C		1	674042	EAT	EET CHI	09/10/22 14:59
Total/NA	Analysis	SM 4500 SO4 E		5	672849	LP	EET CHI	09/01/22 15:36

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

**Laboratory References:**

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

# Accreditation/Certification Summary

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

Job ID: 500-221573-1

## Laboratory: Eurofins Chicago

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

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

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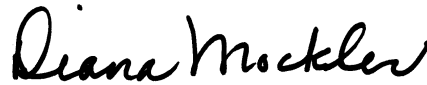
## ANALYTICAL REPORT

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

Laboratory Job ID: 500-221573-2  
Client Project/Site: Powerton CCR FAB (RAD)

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

Attn: Richard Gnat



Authorized for release by:  
10/5/2022 11:15:11 AM

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

[Diana.Mockler@et.eurofinsus.com](mailto:Diana.Mockler@et.eurofinsus.com)

### LINKS

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

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



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# Case Narrative

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

Job ID: 500-221573-2

## Job ID: 500-221573-2

### Laboratory: Eurofins Chicago

#### Narrative

#### Job Narrative 500-221573-2

#### Comments

No additional comments.

#### Receipt

The samples were received on 8/31/2022 9:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.0° C and 4.5° C.

#### RAD

Methods 903.0, 9315: Radium-226 batch 581076

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

Duplicate (500-221573-7), (LCS 160-581076/2-A), (MB 160-581076/1-A), (500-221498-K-14-A) and (500-221498-L-14-D DU)

Methods 903.0, 9315: Radium-226 batch 581008

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

MW-01 (500-221573-1), MW-02 (500-221573-2), MW-03 (500-221573-3), MW-04 (500-221573-4), MW-05 (500-221573-5), MW-10 (500-221573-6), (LCS 160-581008/2-A), (MB 160-581008/1-A), (500-221556-F-1-A) and (500-221556-E-1-A DU)

Methods 904.0, 9320: Radium-228 batch 583206

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

Duplicate (500-221573-7), (LCS 160-583206/2-A), (MB 160-583206/1-A), (500-221498-J-14-A) and (500-221498-J-14-B DU)

Methods 904.0, 9320: Radium-228 batch 582886

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

MW-01 (500-221573-1), MW-02 (500-221573-2), MW-03 (500-221573-3), MW-04 (500-221573-4), MW-05 (500-221573-5), MW-10 (500-221573-6), (LCS 160-582886/2-A), (MB 160-582886/1-A), (500-221556-F-2-A) and (500-221556-E-2-A DU)

Method PrecSep\_0:

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

# Method Summary

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

Job ID: 500-221573-2

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: 500-221573-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-221573-1	MW-01	Water	08/30/22 09:32	08/31/22 09:30
500-221573-2	MW-02	Water	08/30/22 10:48	08/31/22 09:30
500-221573-3	MW-03	Water	08/30/22 11:34	08/31/22 09:30
500-221573-4	MW-04	Water	08/30/22 12:37	08/31/22 09:30
500-221573-5	MW-05	Water	08/30/22 13:25	08/31/22 09:30
500-221573-6	MW-10	Water	08/30/22 08:42	08/31/22 09:30
500-221573-7	Duplicate	Water	08/30/22 00:00	08/31/22 09:30

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- 2
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- 10
- 11
- 12
- 13
- 14

# Client Sample Results

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

Job ID: 500-221573-2

**Client Sample ID: MW-01**

**Lab Sample ID: 500-221573-1**

Date Collected: 08/30/22 09:32

Matrix: Water

Date Received: 08/31/22 09:30

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0557	U	0.0631	0.0633	1.00	0.102	pCi/L	09/06/22 15:03	09/28/22 17:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.8		40 - 110					09/06/22 15:03	09/28/22 17:06	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.278	U	0.276	0.277	1.00	0.441	pCi/L	09/20/22 15:24	09/30/22 12:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.9		40 - 110					09/20/22 15:24	09/30/22 12:09	1
Y Carrier	86.4		40 - 110					09/20/22 15:24	09/30/22 12:09	1

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.333	U	0.283	0.284	5.00	0.441	pCi/L		10/03/22 13:21	1

# Client Sample Results

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

Job ID: 500-221573-2

**Client Sample ID: MW-02**

**Lab Sample ID: 500-221573-2**

Date Collected: 08/30/22 10:48

Matrix: Water

Date Received: 08/31/22 09:30

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0108	U	0.0424	0.0424	1.00	0.0850	pCi/L	09/06/22 15:03	09/28/22 17:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.0		40 - 110					09/06/22 15:03	09/28/22 17:06	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.524		0.320	0.324	1.00	0.465	pCi/L	09/20/22 15:24	09/30/22 12:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.4		40 - 110					09/20/22 15:24	09/30/22 12:09	1
Y Carrier	89.0		40 - 110					09/20/22 15:24	09/30/22 12:09	1

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.535		0.323	0.327	5.00	0.465	pCi/L		10/03/22 13:21	1

# Client Sample Results

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

Job ID: 500-221573-2

**Client Sample ID: MW-03**

**Lab Sample ID: 500-221573-3**

Date Collected: 08/30/22 11:34

Matrix: Water

Date Received: 08/31/22 09:30

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0402	U	0.0533	0.0534	1.00	0.0892	pCi/L	09/06/22 15:03	09/28/22 17:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.3		40 - 110					09/06/22 15:03	09/28/22 17:06	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.549		0.333	0.337	1.00	0.480	pCi/L	09/20/22 15:24	09/30/22 12:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.4		40 - 110					09/20/22 15:24	09/30/22 12:10	1
Y Carrier	84.5		40 - 110					09/20/22 15:24	09/30/22 12:10	1

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.589		0.337	0.341	5.00	0.480	pCi/L		10/03/22 13:21	1



# Client Sample Results

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

Job ID: 500-221573-2

**Client Sample ID: MW-04**  
**Date Collected: 08/30/22 12:37**  
**Date Received: 08/31/22 09:30**

**Lab Sample ID: 500-221573-4**  
**Matrix: Water**

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0248	U	0.0476	0.0477	1.00	0.0865	pCi/L	09/06/22 15:03	09/28/22 17:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.3		40 - 110					09/06/22 15:03	09/28/22 17:06	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.239	U	0.326	0.327	1.00	0.546	pCi/L	09/20/22 15:24	09/30/22 12:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.6		40 - 110					09/20/22 15:24	09/30/22 12:10	1
Y Carrier	86.7		40 - 110					09/20/22 15:24	09/30/22 12:10	1

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.264	U	0.329	0.330	5.00	0.546	pCi/L		10/03/22 13:21	1

# Client Sample Results

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

Job ID: 500-221573-2

**Client Sample ID: MW-05**

**Lab Sample ID: 500-221573-5**

Date Collected: 08/30/22 13:25

Matrix: Water

Date Received: 08/31/22 09:30

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0280	U	0.0611	0.0612	1.00	0.111	pCi/L	09/06/22 15:03	09/28/22 17:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.3		40 - 110					09/06/22 15:03	09/28/22 17:06	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.461	U	0.348	0.351	1.00	0.538	pCi/L	09/20/22 15:24	09/30/22 12:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.1		40 - 110					09/20/22 15:24	09/30/22 12:10	1
Y Carrier	87.5		40 - 110					09/20/22 15:24	09/30/22 12:10	1

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.489	U	0.353	0.356	5.00	0.538	pCi/L		10/03/22 13:21	1

# Client Sample Results

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

Job ID: 500-221573-2

**Client Sample ID: MW-10**

**Lab Sample ID: 500-221573-6**

Date Collected: 08/30/22 08:42

Matrix: Water

Date Received: 08/31/22 09:30

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.512		0.130	0.138	1.00	0.0953	pCi/L	09/06/22 15:03	09/28/22 17:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.3		40 - 110					09/06/22 15:03	09/28/22 17:06	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.892		0.414	0.422	1.00	0.561	pCi/L	09/20/22 15:24	09/30/22 12:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.9		40 - 110					09/20/22 15:24	09/30/22 12:11	1
Y Carrier	80.7		40 - 110					09/20/22 15:24	09/30/22 12:11	1

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.40		0.434	0.444	5.00	0.561	pCi/L		10/03/22 13:21	1

# Client Sample Results

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

Job ID: 500-221573-2

**Client Sample ID: Duplicate**

**Lab Sample ID: 500-221573-7**

**Date Collected: 08/30/22 00:00**

**Matrix: Water**

**Date Received: 08/31/22 09:30**

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0114	U	0.0448	0.0448	1.00	0.0899	pCi/L	09/07/22 12:48	09/29/22 08:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.8		40 - 110					09/07/22 12:48	09/29/22 08:04	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.315	U	0.309	0.310	1.00	0.495	pCi/L	09/22/22 15:49	09/29/22 12:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.4		40 - 110					09/22/22 15:49	09/29/22 12:10	1
Y Carrier	85.6		40 - 110					09/22/22 15:49	09/29/22 12:10	1

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.326	U	0.312	0.313	5.00	0.495	pCi/L		09/29/22 18:28	1

# Definitions/Glossary

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

Job ID: 500-221573-2

## Qualifiers

### Rad

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

## Glossary

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

# QC Association Summary

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

Job ID: 500-221573-2

## Rad

### Prep Batch: 581008

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221573-1	MW-01	Total/NA	Water	PrecSep-21	
500-221573-2	MW-02	Total/NA	Water	PrecSep-21	
500-221573-3	MW-03	Total/NA	Water	PrecSep-21	
500-221573-4	MW-04	Total/NA	Water	PrecSep-21	
500-221573-5	MW-05	Total/NA	Water	PrecSep-21	
500-221573-6	MW-10	Total/NA	Water	PrecSep-21	
MB 160-581008/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-581008/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

### Prep Batch: 581076

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221573-7	Duplicate	Total/NA	Water	PrecSep-21	
MB 160-581076/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-581076/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

### Prep Batch: 582886

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221573-1	MW-01	Total/NA	Water	PrecSep_0	
500-221573-2	MW-02	Total/NA	Water	PrecSep_0	
500-221573-3	MW-03	Total/NA	Water	PrecSep_0	
500-221573-4	MW-04	Total/NA	Water	PrecSep_0	
500-221573-5	MW-05	Total/NA	Water	PrecSep_0	
500-221573-6	MW-10	Total/NA	Water	PrecSep_0	
MB 160-582886/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-582886/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

### Prep Batch: 583206

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221573-7	Duplicate	Total/NA	Water	PrecSep_0	
MB 160-583206/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-583206/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

# QC Sample Results

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

Job ID: 500-221573-2

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

**Lab Sample ID: MB 160-581008/1-A**  
**Matrix: Water**  
**Analysis Batch: 583796**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 581008**

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	-0.02655	U	0.0369	0.0370	1.00	0.0964	pCi/L	09/06/22 15:03	09/28/22 14:43	1
Carrier	MB		Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	%Yield	MB Qualifier	40 - 110					09/06/22 15:03	09/28/22 14:43	1
	99.0									

**Lab Sample ID: LCS 160-581008/2-A**  
**Matrix: Water**  
**Analysis Batch: 583796**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 581008**

Analyte	LCS		Spike	LCS	Total	RL	MDC	Unit	%Rec	%Rec Limits
	%Yield	LCS Qualifier	Added	Result	Uncert. (2σ+/-)					
Radium-226			11.3	9.855	1.03	1.00	0.0904	pCi/L	87	75 - 125
Carrier	LCS		Limits							
Ba Carrier	%Yield	LCS Qualifier	40 - 110							
	98.0									

**Lab Sample ID: MB 160-581076/1-A**  
**Matrix: Water**  
**Analysis Batch: 583994**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 581076**

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.08112	U	0.0644	0.0648	1.00	0.0908	pCi/L	09/07/22 12:48	09/29/22 08:01	1
Carrier	MB		Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	%Yield	MB Qualifier	40 - 110					09/07/22 12:48	09/29/22 08:01	1
	95.6									

**Lab Sample ID: LCS 160-581076/2-A**  
**Matrix: Water**  
**Analysis Batch: 583994**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 581076**

Analyte	LCS		Spike	LCS	Total	RL	MDC	Unit	%Rec	%Rec Limits
	%Yield	LCS Qualifier	Added	Result	Uncert. (2σ+/-)					
Radium-226			11.3	9.890	1.04	1.00	0.0923	pCi/L	87	75 - 125
Carrier	LCS		Limits							
Ba Carrier	%Yield	LCS Qualifier	40 - 110							
	95.3									

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

**Lab Sample ID: MB 160-582886/1-A**  
**Matrix: Water**  
**Analysis Batch: 584234**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 582886**

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.4739	U	0.321	0.324	1.00	0.476	pCi/L	09/20/22 15:24	09/30/22 12:03	1

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# QC Sample Results

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

Job ID: 500-221573-2

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

Carrier	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Yield	Qualifier				
Ba Carrier	88.0		40 - 110	09/20/22 15:24	09/30/22 12:03	1
Y Carrier	86.4		40 - 110	09/20/22 15:24	09/30/22 12:03	1

Lab Sample ID: LCS 160-582886/2-A  
Matrix: Water  
Analysis Batch: 584234

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 582886

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

Carrier	LCS LCS		Limits
	%Yield	Qualifier	
Ba Carrier	83.0		40 - 110
Y Carrier	86.4		40 - 110

Lab Sample ID: MB 160-583206/1-A  
Matrix: Water  
Analysis Batch: 584007

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 583206

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

Carrier	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Yield	Qualifier				
Ba Carrier	80.0		40 - 110	09/22/22 15:49	09/29/22 12:04	1
Y Carrier	83.4		40 - 110	09/22/22 15:49	09/29/22 12:04	1

Lab Sample ID: LCS 160-583206/2-A  
Matrix: Water  
Analysis Batch: 584007

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 583206

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

Carrier	LCS LCS		Limits
	%Yield	Qualifier	
Ba Carrier	94.8		40 - 110
Y Carrier	85.6		40 - 110





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

SHIP DATE: 30AUG22  
ACTWGT: 50.85 LB  
CAD: 6994780/SSFE2322  
DIMS: 24x13x13 IN  
BILL THIRD PARTY

TO EUROFINS

2417 BOND ST.

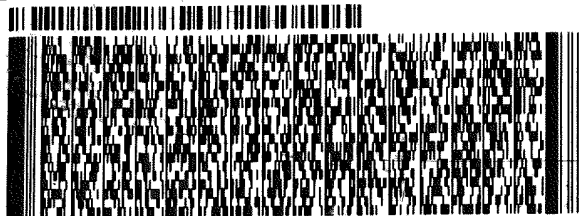
UNIVERSITY PARK IL 60484

(556) 556-5555  
IN: REF: PO: DEPT:

500-221573 Waybl



Part # 156297-435 RRDB2 EXP 04/23



FedEx Express



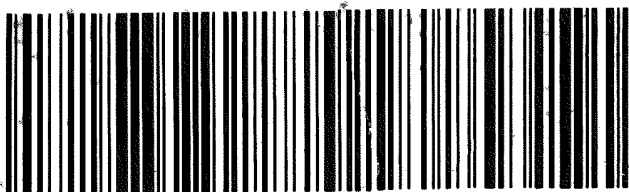
REL# 3786346

4 of 6  
MPS# 2774 0693 6115  
0263 Mstr# 2774 0693 6089

WED - 31 AUG 10:30A  
PRIORITY OVERNIGHT

XN JOTA

AHS  
60484  
IL-US ORD



ORIGIN ID:PIAA (262) 278-1621  
KAEYLN SPERLE  
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2417 BOND ST.

UNIVERSITY PARK IL 60484

(556) 556-5555  
IN: REF: PO: DEPT:

Part # 156297-435 RRDB2 EXP 04/23



FedEx Exp



REL# 3786346

2 of 6  
MPS# 2774 0693 60  
0263 Mstr# 2774 0693 6089

WED - 31 AUG 10:30A  
PRIORITY OVERNIGHT

XN JOTA

0201

AHS  
60484  
IL-US ORD



# Chain of Custody Record



Client Information (Sub Contract Lab)		Lab PM:	Sampler:	Carrier Tracking No(s):	COC No:				
Client Contact: Shipping/Receiving		Mockler, Diana J	Mockler, Diana J		500-164794-1				
Company: TestAmerica Laboratories, Inc.		E-Mail: Diana.Mockler@et.eurofins.com		State of Origin: Illinois	Page: Page 1 of 1				
Address: 13715 Rider Trail North,		Accreditations Required (See note): NELAP - Illinois		Job #: 500-221573-2					
City: Earth City	Due Date Requested: 10/3/2022	Analysis Requested							
State, Zip: MO, 63045	TAT Requested (days):	Total Number of Containers							
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:	Preservation Codes:							
Email:	WO #:	A - HCL 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 X - EDTA Y - Trizma Z - other (specify)							
Project Name: Powerton CCR	Project #: 50011612	Special Instructions/Note:							
Site: MWG - Powerton	SSOW#:	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no							
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Water, Solid, On-water, In-tissue, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PreSep_21 Standard Target List	904.0/PreSep_0 Standard Target List	R226Ra228 GPPC
MW-01 (500-221573-1)	8/30/22	09:32 Central	Water	Water	X	X	X	X	X
MW-02 (500-221573-2)	8/30/22	10:48 Central	Water	Water	X	X	X	X	X
MW-03 (500-221573-3)	8/30/22	11:34 Central	Water	Water	X	X	X	X	X
MW-04 (500-221573-4)	8/30/22	12:37 Central	Water	Water	X	X	X	X	X
MW-05 (500-221573-5)	8/30/22	13:25 Central	Water	Water	X	X	X	X	X
MW-15 (500-221573-6)	8/30/22	08:42 Central	Water	Water	X	X	X	X	X
Duplicate (500-221573-7)	8/30/22	Central	Water	Water	X	X	X	X	X

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

**Possible Hazard Identification**  
 Unconfirmed  
 Deliverable Requested: I, II, III, IV, Other (specify) \_\_\_\_\_ Primary Deliverable Rank: 2  
 Empty Kit Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_  
 Relinquished by: *[Signature]* Date/Time: 8/31/22 14:15  
 Relinquished by: **FED EX** Date/Time: \_\_\_\_\_  
 Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Custody Seals Intact: \_\_\_\_\_ Custody Seal No.: \_\_\_\_\_  
 Δ Yes Δ No

Special Instructions/QC Requirements:  
 Return To Client  
 Disposal By Lab  
 Archive For \_\_\_\_\_ Months  
 Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Method of Shipment: \_\_\_\_\_  
 Received by: **FED EX** Date/Time: \_\_\_\_\_  
 Received by: *[Signature]* Date/Time: SEP 01 2022 08:25  
 Received by: **Autumn R. Johnson** Date/Time: \_\_\_\_\_  
 Cooler Temperature(s) °C and Other Remarks: \_\_\_\_\_



## Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-221573-2

**Login Number: 221573**

**List Number: 1**

**Creator: Scott, Sherri L**

**List Source: Eurofins Chicago**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.5,2.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

# Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-221573-2

**Login Number: 221573**

**List Number: 2**

**Creator: Booker, Autumn R**

**List Source: Eurofins St. Louis**

**List Creation: 09/01/22 11:04 AM**

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



# Lab Chronicle

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

Job ID: 500-221573-2

**Client Sample ID: MW-01**  
**Date Collected: 08/30/22 09:32**  
**Date Received: 08/31/22 09:30**

**Lab Sample ID: 500-221573-1**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			581008	TJ	EET SL	09/06/22 15:03
Total/NA	Analysis	903.0		1	583796	CLP	EET SL	09/28/22 17:06
Total/NA	Prep	PrecSep_0			582886	MLK	EET SL	09/20/22 15:24
Total/NA	Analysis	904.0		1	584224	FLC	EET SL	09/30/22 12:09
Total/NA	Analysis	Ra226_Ra228		1	584450	CAH	EET SL	10/03/22 13:21

**Client Sample ID: MW-02**  
**Date Collected: 08/30/22 10:48**  
**Date Received: 08/31/22 09:30**

**Lab Sample ID: 500-221573-2**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			581008	TJ	EET SL	09/06/22 15:03
Total/NA	Analysis	903.0		1	583796	CLP	EET SL	09/28/22 17:06
Total/NA	Prep	PrecSep_0			582886	MLK	EET SL	09/20/22 15:24
Total/NA	Analysis	904.0		1	584224	FLC	EET SL	09/30/22 12:09
Total/NA	Analysis	Ra226_Ra228		1	584450	CAH	EET SL	10/03/22 13:21

**Client Sample ID: MW-03**  
**Date Collected: 08/30/22 11:34**  
**Date Received: 08/31/22 09:30**

**Lab Sample ID: 500-221573-3**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			581008	TJ	EET SL	09/06/22 15:03
Total/NA	Analysis	903.0		1	583796	CLP	EET SL	09/28/22 17:06
Total/NA	Prep	PrecSep_0			582886	MLK	EET SL	09/20/22 15:24
Total/NA	Analysis	904.0		1	584224	FLC	EET SL	09/30/22 12:10
Total/NA	Analysis	Ra226_Ra228		1	584450	CAH	EET SL	10/03/22 13:21

**Client Sample ID: MW-04**  
**Date Collected: 08/30/22 12:37**  
**Date Received: 08/31/22 09:30**

**Lab Sample ID: 500-221573-4**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			581008	TJ	EET SL	09/06/22 15:03
Total/NA	Analysis	903.0		1	583796	CLP	EET SL	09/28/22 17:06
Total/NA	Prep	PrecSep_0			582886	MLK	EET SL	09/20/22 15:24
Total/NA	Analysis	904.0		1	584224	FLC	EET SL	09/30/22 12:10
Total/NA	Analysis	Ra226_Ra228		1	584450	CAH	EET SL	10/03/22 13:21

# Lab Chronicle

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

Job ID: 500-221573-2

**Client Sample ID: MW-05**  
**Date Collected: 08/30/22 13:25**  
**Date Received: 08/31/22 09:30**

**Lab Sample ID: 500-221573-5**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			581008	TJ	EET SL	09/06/22 15:03
Total/NA	Analysis	903.0		1	583796	CLP	EET SL	09/28/22 17:06
Total/NA	Prep	PrecSep_0			582886	MLK	EET SL	09/20/22 15:24
Total/NA	Analysis	904.0		1	584273	FLC	EET SL	09/30/22 12:10
Total/NA	Analysis	Ra226_Ra228		1	584450	CAH	EET SL	10/03/22 13:21

**Client Sample ID: MW-10**  
**Date Collected: 08/30/22 08:42**  
**Date Received: 08/31/22 09:30**

**Lab Sample ID: 500-221573-6**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			581008	TJ	EET SL	09/06/22 15:03
Total/NA	Analysis	903.0		1	583796	CLP	EET SL	09/28/22 17:06
Total/NA	Prep	PrecSep_0			582886	MLK	EET SL	09/20/22 15:24
Total/NA	Analysis	904.0		1	584273	FLC	EET SL	09/30/22 12:11
Total/NA	Analysis	Ra226_Ra228		1	584450	CAH	EET SL	10/03/22 13:21

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

**Lab Sample ID: 500-221573-7**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			581076	TJ	EET SL	09/07/22 12:48
Total/NA	Analysis	903.0		1	583994	FLC	EET SL	09/29/22 08:04
Total/NA	Prep	PrecSep_0			583206	ASG	EET SL	09/22/22 15:49
Total/NA	Analysis	904.0		1	583994	FLC	EET SL	09/29/22 12:10
Total/NA	Analysis	Ra226_Ra228		1	584089	CLP	EET SL	09/29/22 18:28

**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: 500-221573-2

## Laboratory: Eurofins St. Louis

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

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

1

2

3

4

5

6

7

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9

10

11

12

13

14



# Tracer/Carrier Summary

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

Job ID: 500-221573-2

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

Matrix: Water

Prep Type: Total/NA

### Percent Yield (Acceptance Limits)

Lab Sample ID	Client Sample ID	Ba (40-110)
500-221573-1	MW-01	92.8
500-221573-2	MW-02	97.0
500-221573-3	MW-03	98.3
500-221573-4	MW-04	95.3
500-221573-5	MW-05	93.3
500-221573-6	MW-10	97.3
500-221573-7	Duplicate	96.8
LCS 160-581008/2-A	Lab Control Sample	98.0
LCS 160-581076/2-A	Lab Control Sample	95.3
MB 160-581008/1-A	Method Blank	99.0
MB 160-581076/1-A	Method Blank	95.6

#### Tracer/Carrier Legend

Ba = Ba Carrier

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

Matrix: Water

Prep Type: Total/NA

### Percent Yield (Acceptance Limits)

Lab Sample ID	Client Sample ID	Ba (40-110)	Y (40-110)
500-221573-1	MW-01	88.9	86.4
500-221573-2	MW-02	92.4	89.0
500-221573-3	MW-03	92.4	84.5
500-221573-4	MW-04	91.6	86.7
500-221573-5	MW-05	96.1	87.5
500-221573-6	MW-10	92.9	80.7
500-221573-7	Duplicate	91.4	85.6
LCS 160-582886/2-A	Lab Control Sample	83.0	86.4
LCS 160-583206/2-A	Lab Control Sample	94.8	85.6
MB 160-582886/1-A	Method Blank	88.0	86.4
MB 160-583206/1-A	Method Blank	80.0	83.4

#### Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier

PROJECT NAME	NRG – POWERTON STATION (12313.1)		DATE	8/30/21
Sample Name	MW-Ø1	Start Time	0920	
Condition of Well	good			
Water Level	27.61	Total Depth	—	
Well Diameter	PVC – 2 inch	Volume in Well	—	
Method of Purge	Low-Flow	Purge Characteristics	clear	
Volume Removed	4 gts	WL at Sample Time	27.62	
Method of Sample	Low-Flow	Sample Characteristics	clear	
Sample Analysis	CCA, FAB CCR, ABBASB CCR	Sample Time	0932	
Water Quality Meter	YSI ProDss			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
0922	27.61	7.15	19.1	.784	8.25	157.3	4.16
0925	—	7.10	18.9	.885	7.10	161.8	4.61
0928	—	7.11	18.9	.883	3.27	162.6	5.13
0931	27.62	7.10	18.8	.885	3.08	163.0	4.73

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates

KLS

PROJECT NAME	NRG - POWERTON STATION (12313.1)		DATE	8/30/22
Sample Name	MW-02	Start Time	1037	
Condition of Well	good			
Water Level	30.55	Total Depth	-	
Well Diameter	PVC - 2 inch	Volume in Well	-	
Method of Purge	Low-Flow	Purge Characteristics	clear	
Volume Removed	4.5 gts	WL at Sample Time	30.56	
Method of Sample	Low-Flow	Sample Characteristics	clear	
Sample Analysis	CCA, FAB CCR	Sample Time	1048	
Water Quality Meter	YSI ProDss			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1038	30.55	7.56	14.4	.850	7.00	159.6	3.56
1041	-	7.27	14.0	.871	1.78	164.7	2.73
1044	-	7.23	14.0	.868	1.11	165.1	2.64
1047	30.56	7.22	14.0	.869	0.74	165.4	2.46

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates

KLS

PROJECT NAME	NRG – POWERTON STATION (12313.1)		DATE	8/30/22
Sample Name	MW-03	Start Time	1122	
Condition of Well	good			
Water Level	30.56	Total Depth	-	
Well Diameter	PVC – 2 inch	Volume in Well	-	
Method of Purge	Low-Flow	Purge Characteristics	clear	
Volume Removed	4 gts	WL at Sample Time	30.56	
Method of Sample	Low-Flow	Sample Characteristics	clear	
Sample Analysis	CCA, FAB CCR	Sample Time	1134	
Water Quality Meter	YSI ProDss			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1124	30.56	7.56	16.2	.754	9.09	155.4	2.64
1127	-	7.17	14.5	.849	3.02	162.5	2.88
1130	-	7.13	13.8	.851	2.04	163.2	2.79
1133	30.56	7.10	16.0	.850	1.64	163.0	2.67

SAMPLING NOTES:

FAB CCR Duplicate

Sampler Name and Company:

KPRG and Associates

KLS

PROJECT NAME	NRG – POWERTON STATION (12313.1)		DATE	8/30/22
Sample Name	MW-84	Start Time	1225	
Condition of Well	good			
Water Level	30.10	Total Depth	-	
Well Diameter	PVC – 2 inch	Volume in Well	-	
Method of Purge	Low-Flow	Purge Characteristics	clear	
Volume Removed	3 gts	WL at Sample Time	30.10	
Method of Sample	Low-Flow	Sample Characteristics	clear	
Sample Analysis	CCA, FAB CCR	Sample Time	1237	
Water Quality Meter	YSI ProDss			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1227	30.10	6.80	17.9	.708	6.19	163.1	4.29
1230	-	6.80	16.9	.972	4.70	172.3	3.97
1233	-	6.80	16.6	.969	4.43	172.9	4.02
1236	30.10	6.80	16.3	.966	3.43	172.9	4.05

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates

KLS

PROJECT NAME	NRG - POWERTON STATION (12313.1)		DATE	8/30/22
Sample Name	MW-05	Start Time	1314	
Condition of Well	good			
Water Level	26.96	Total Depth	-	
Well Diameter	PVC - 2 inch	Volume in Well	-	
Method of Purge	Low-Flow	Purge Characteristics	Clear	
Volume Removed	5 gals	WL at Sample Time	26.96	
Method of Sample	Low-Flow	Sample Characteristics	Clear	
Sample Analysis	CCA, FAB CCR	Sample Time	1325	
Water Quality Meter	YSI ProDss			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1315	26.96	7.01	16.7	1.081	5.38	165.3	3.19
1318	-	6.94	15.6	.985	0.82	167.6	3.16
1321	-	6.95	15.7	.983	0.73	167.6	2.90
1324	26.96	6.94	15.7	.984	0.63	167.9	2.70

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates

KLS

PROJECT NAME	NRG - POWERTON STATION (12313.1)		DATE	8/30/12
Sample Name	MW-1D	Start Time	0830	
Condition of Well	good			
Water Level	19.16	Total Depth	-	
Well Diameter	PVC - 2 inch	Volume in Well	-	
Method of Purge	Low-Flow	Purge Characteristics	clear	
Volume Removed	4.5 gts	WL at Sample Time	19.16	
Method of Sample	Low-Flow	Sample Characteristics	clear	
Sample Analysis	CCA & FAB CCR	Sample Time	0842	
Water Quality Meter	YSI ProDss			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
0832	19.16	8.24	14.2	.765	7.73	107.2	3.06
0835	-	7.19	13.3	.871	3.15	134.3	28.82
0838	-	6.92	13.1	.862	1.26	150.7	17.46
0841	19.16	6.83	13.2	.858	0.80	151.3	13.34

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates

KCS