DATA SUMMARY POSTING

Station: Midwest Generation Powerton Generating Station

Regulated Unit(s): Ash By-pass Basin (IEPA ID No. W1798010008-04)
Ash Surge Basin (IEPA ID No. W1798010008-01)

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 3rd quarter 2023 which includes the entire list of parameters specified under Section 845.600(a)(1) and (b). Table 1 is a summary table of all available CCR monitoring data to date including any data generated previously as part of the Federal CCR Rule monitoring. 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. Ash By-Pass Basin Ash Surge Basin.

Well	Date	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved Solids	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Radium 226 + 228 Combined	Selenium	Thallium
MW-01 (S) 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	< 0.010	< 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	0.04	< 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	6.7	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	6.8	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	7.2	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
	11/13/2019	0.52	95	47	0.18	7.51	41	390	NA	0.029	0.091	NA	0.00085	NA	0.016	0.034	0.012	< 0.0002	0.0079	0.884	< 0.0025	< 0.002
	12/26/2019	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0021	0.0041	NA	NA	NA	NA	NA	NA
	4/28/2020	0.33	110	46	0.19	7.17	41	470	NA	< 0.001	0.051	NA	< 0.0005	NA	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.005	0.628	< 0.0025	< 0.002
	12/7/2020	0.6	100	54	0.25	7.22	55	490	NA	< 0.001	0.058	NA	< 0.0005	NA	< 0.001	0.00055	<^ 0.01	< 0.0002	0.0051	0.724	< 0.0025	< 0.002
	5/11/2021	0.23	84	53	0.2	7.52	38	450	< 0.003	< 0.001	0.043	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.01	< 0.523	< 0.0025	< 0.002
	8/24/2021	0.26	98	40	0.18	7.19	56	450	< 0.003	< 0.001	0.06	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.0069	1.08	< 0.0025	< 0.002
	11/30/2021	0.33	97	42	0.2	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	1.1	0.0026	< 0.002
	2/9/2022	0.18	95	47	0.17	7.33	47	520	< 0.003	< 0.0013	0.051	< 0.001	< 0.0005	< 0.005	< 0.001	0.00089	0.0026	< 0.0002	0.0075	< 0.628	< 0.0025	< 0.002
	6/7/2022	0.23	82	51	0.15	7.62	27	440	< 0.003	< 0.001	0.041	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.0057	0.386	< 0.0025	< 0.002
	8/30/2022	0.59	100	44	0.13	7.1	66	700	< 0.003	< 0.001	0.076	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.005	0.628	< 0.0025	< 0.002
	11/15/2022	0.71	110	45	0.1	7.15	44	520	< 0.003	< 0.001	0.088	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.005	< 0.446	< 0.0025	< 0.002
	2/22/2023	0.47	110	53	< 0.10	7.51	47	550	< 0.0030	< 0.0010	0.083	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	< 0.0050	< 0.523	0.003	< 0.0020
	5/17/2023	0.32	91	55	0.12	7.23	33	450	< 0.0030	< 0.0010	0.056	^+ ^1+< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	< 0.0050	< 0.493	< 0.0025	< 0.0020
	8/29/2023	0.53	100	50	< 0.10	6.98	43	520	< 0.0020	< 0.0020	0.076	< 0.0010	< 0.00020	< 0.0050	< 0.00050	< 0.00050	< 0.010	< 0.00020	< 0.0020	0.712	< 0.0050	< 0.0010
MW-09 (S) up-gradient	11/18/2015	2.0	63	H 31	H 0.19	7.15	H 110	H 440	< 0.003	< 0.001	0.027	^< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	H < 0.0002	0.043	< 0.655	< 0.0025	< 0.002
	2/25/2016	2.3	77	36	0.19	7.34	120	500	< 0.003	0.0042	0.036	< 0.001	< 0.0005	< 0.005	0.0011	< 0.0005	< 0.01	< 0.0002	0.053	< 0.361	< 0.0025	< 0.002
	5/19/2016	2.0	73	38	0.17	7.30	100	520	< 0.003	< 0.001	0.029	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.042	< 0.394	0.0032	< 0.002
	8/17/2016	2.7	74	39	0.15	7.32	120	750	< 0.003	< 0.001	0.031	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.036	< 0.498	< 0.0025	< 0.002
	11/17/2016	4.5	85	38	0.13	7.37	110	630	< 0.003	0.0038	0.039	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.010	< 0.0002	0.036	0.646	0.0025	< 0.002
	2/15/2017	4.1	84	38	0.13	6.94	160	620	< 0.003	0.0032	0.043	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.010	< 0.0002	0.035	< 0.377	0.0062	< 0.002
	5/3/2017	3.5	85	38	0.17	7.48	170	680	< 0.003	0.0012	0.034	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.010	< 0.0002	0.034	< 0.445	0.011	< 0.002
	6/21/2017	3.3	82	38	0.14	7.63	180	760	< 0.003	< 0.001	0.037	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.010	< 0.0002	0.033	< 0.380	0.0072	< 0.002
	8/25/2017	3.8	85	36	0.14	7.30	150	630	< 0.003	< 0.001	0.044	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.010	< 0.0002	0.028	< 0.160	0.0043	< 0.002
	11/8/2017	4	89	37	0.13	6.92	190	650	< 0.003	0.0012	0.048	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.010	< 0.0002	0.026	0.344	< 0.0025	< 0.002
	5/16/2018	4.1	89	36	0.15	7.83	180	550	< 0.003	< 0.001	0.038	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.010	0.00029	0.031	< 0.424	0.006	< 0.002
	8/8/2018	4.3	86	39	0.14	7.31	180	690	< 0.003	< 0.001	0.037	<^ 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.010	< 0.0002	0.032	0.44	0.0078	< 0.002
	5/1/2019	4.6	79	37	0.17	7.11	170	640	< 0.003	< 0.001	0.038	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.010	< 0.0002	0.031	< 0.66	0.0036	< 0.002
	11/14/2019	2.5	85	36	0.18	7.49	82	500	NA	0.0056	0.057	NA	< 0.0005	NA	0.0032	0.00076	< 0.010	< 0.0002	0.026	< 0.457	< 0.0025	< 0.002
	4/29/2020	2	71	34	0.2	7.19	140	510	NA	0.0012	0.031	NA	< 0.0005	NA	< 0.001	< 0.0005	< 0.010	< 0.0002	0.028	0.698	< 0.0025	< 0.002
	12/8/2020	2.6	65	34	0.22	7.29	63	400	NA	0.0013	0.042	NA	< 0.0005	NA	< 0.001	< 0.0005	< 0.010	< 0.0002	0.025	< 0.479	< 0.0025	< 0.002
	5/13/2021	2	74	33	0.2	7.33	120	410	< 0.003	< 0.001	0.035	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.010	< 0.0002	0.025	< 0.612	< 0.0025	< 0.002
	8/25/2021	2.2	80	32	0.17	7.11	130	420	< 0.003	< 0.001	0.035	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.010	< 0.0002	0.022	< 0.579	< 0.0025	< 0.002
	12/1/2021	3.2	79	32	0.2	7.22	^~ 100	570	< 0.003	< 0.001	0.036	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.002	< 0.0002	0.028	< 0.365	< 0.0025	< 0.002
	2/10/2022	3.5	79	33	0.23	7.12	120	510	< 0.003	0.0019	0.043	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.003	< 0.0002	0.03	< 0.393	< 0.0025	< 0.002
	6/8/2022	3.2	70	31	0.21	7.52	150	510	< 0.003	0.002	0.042	< 0.001	< 0.0005	< 0.005	< 0.0011	< 0.0005	< 0.010	< 0.0002	0.028	< 0.548	< 0.0025	< 0.002
	8/31/2022	3.2	79	30	0.18	7.18	140	530	< 0.003	< 0.001	0.036	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.010	< 0.0002	0.024	< 0.458	< 0.0025	< 0.002
	11/15/2022	3.7	77	32	0.25	7.39	130	490	< 0.003	< 0.001	0.039	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.010	< 0.0002	0.031	< 0.448	< 0.0025	< 0.002
	2/23/2023	4.6	71	31	0.18	7.92	150	520	< 0.0030	< 0.0010	0.037	^1+ ^1+< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.034	0.676	< 0.0025	< 0.0020
	5/16/2023	3.9	70	30	0.16	7.46	130	510	< 0.0030	< 0.0010	0.029	^+ ^1+< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.032	< 0.534	< 0.0025	< 0.0020
	8/30/2023	2.8	73	30	0.15	7.25	120	500	< 0.0020	< 0.0020	0.032	< 0.0010	< 0.00020	< 0.0050	< 0.00050	< 0.00050	< 0.010	< 0.00020	0.020	< 0.747	< 0.0050	< 0.0010
MW-19^ (S) up-gradient	11/18/2016	3.8	89	38	0.13	7.34	120	670	< 0.003	< 0.001	0.084	< 0.001	< 0.0005	< 0.005	0.001	0.00068	< 0.01	< 0.0002	0.035	< 0.476	0.0043	< 0.002
	2/15/2017	4.7	88	37	0.13	7.50	180	630	< 0.003	< 0.001	0.088	< 0.001	< 0.0005	< 0.005	< 0.001	0.00061	< 0.01	< 0.0002	0.046	< 0.482	0.0063	< 0.002
	5/5/2017	3.3	88	38	0.14	7.51	160	640	< 0.003	< 0.001	0.076	< 0.001	< 0.0005	< 0.005	< 0.0013	0.0012	< 0.01	< 0.0002	0.035	0.923	0.0068	< 0.002
	6/21/2017	2.3	110	35	0.12	7.30	170	690	< 0.003	< 0.001	0.089	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.024	< 0.334	0.0028	< 0.002
	8/28/2017	3.5	97	36	0.16	7.20	160	700	< 0.003	< 0.001	0.073	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.041	0.370	0.0035	< 0.002
	11/6/2017	4.5	86	35	0.17	7.26	190	640	< 0.003	< 0.001	0.071	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.042	0.360	< 0.0025	< 0.002
	5/14/2018	4.1	96	35	0.16	7.92	180	820	< 0.003	< 0.001	0.079	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.043	0.562	0.0044	< 0.002
	8/6/2018	3.8	100	37	0.13	7.57	170	720	< 0.003	< 0.001	0.078	<^ 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.032	0.835	0.0052	< 0.002
	5/2/2019	3.7	100	39	0.13	6.86	160	700	< 0.003	< 0.001	0.076	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.03	< 0.431	0.0035	< 0.002
	11/13/2019	2.5	130	53	0.15	7.51	140	740	NA	0.0014	0.100	NA	< 0.0005	NA	< 0.001	0.00056	< 0.01	< 0.0002	0.04	< 0.447	< 0.0025	< 0.002
	4/27/2020	2.3	100	43	0.17	6.87	110	570	NA	< 0.001	0.077	NA	< 0.0005	NA	< 0.001	0.0005	< 0.01	< 0.0002	0.04	0.630	< 0.0025	< 0.002
	12/7/2020	3.3	74	34	0.19	7.30	F1 76	420	NA	< 0.001	0.062	NA	< 0.0005	NA	< 0.001	< 0.0005	<^ 0.01	< 0.0002	0.05	< 0.509	< 0.0025	< 0.002
	5/10/2021	2.3	68	33	0.17	7.36	110	420	< 0.003	< 0.001	0.060	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.05	< 0.524	< 0.0025	< 0.002
	8/26/2021	2.1	85	32	0.11	7.12	130	320	< 0.003	< 0.001	0.066	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.028	< 0.543	< 0.0025	< 0.002
	12/1/2021	3.5	89	31	0.17	7.25	^~ 120	620	< 0.003	< 0.001	0.07	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.0038	< 0.0002	0.05	1.18	< 0.0025	< 0.002
	2/7/2022	3.9	77	34	0.17	7.18	140	600	< 0.003	< 0.001	0.074	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.003	< 0.0002	0.043	0.881	< 0.0025	< 0.002
	6/6/2022	2.7	92	33	0.12	7.08	130	560	< 0.003	< 0.001	0.082	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.03	< 0.419	< 0.0025	< 0.002
	8/30/2022	0.7	140	200	0.32	7.29	45	1100	< 0.003	0.0027	0.15	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.023	< 0.0002	0.0082	0.44	< 0.0025	< 0.002
	11/16/2022	4.3	80	34	0.22	7.27	160	580	< 0.003	< 0.001	0.064	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.041	0.746	0.0029	< 0.002
	2/21/2023	3.9	70	33	0.14	7.79	170	680	< 0.0030	< 0.0010	0.063	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.032	< 0.528	0.003	< 0.0020
	5/18/2023	3.8	78	31	0.13	7.26	150	580	< 0.0030	< 0.0010	0.069	^+ ^1+< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.010	< 0.00020	0.030	0.604	0.0035	< 0.0020
	8/29/2023	3.0	80	32	0.18	7.16	120	610	< 0.0020	< 0.0020	0.060	< 0.0010	< 0.00020	< 0.0050	< 0.00050	< 0.00050	< 0.010	< 0.00020	0.026	0.756	< 0.0050	< 0.0010
MW-08 (CL) down-gradient	11/18/2015	1.5	160	H 170	H 0.44	7.61	H 470	H 1300	< 0.003	0.0029	0.15	^< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.028	H < 0.0002	0.01	< 0.559	< 0.0025	< 0.002
	2/25/2016	1.7	160	200	0.30	7.00	280	1100	< 0.003	0.0018	0.11	< 0.001	0.00052	< 0.005	< 0.001	0.00072	0.015	< 0.0002	0.02	0.535	< 0.0025	< 0.002
	5/18/2016	1.7	160	140	0.34	7.67	300	1200	< 0.003	0.0029	0.16	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.036	< 0.0002	0.0069	0.417	< 0.0025	< 0.002
	8/17/2016	1.0	150	230	0.35	7.33	360	1400	< 0.003	0.0032	0.15	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.023	< 0.0002	0.013	< 0.519	< 0.0025	< 0.002
	11/15/2016	1.2	140	290	0.33	6.90	230	1300	< 0.003	0.0012	0.076	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.017	< 0.0002	0.016	0.583	< 0.0025	< 0.002
	2/16/2017	1.5	150	460	0.28	7.00	230	1500	< 0.003	0.003	0.086	< 0.001	< 0.0005	< 0.005	< 0.001	0.00087	< 0.01	< 0.0002	0.026	< 0.375	< 0.0025	< 0.002
	5/2/2017	0.55	140	300	0.33	7.30	320	1300	< 0.003	0.0029	0.13	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.022	< 0.0002	0.0083	< 0.480	< 0.0025	< 0.002
	6/21/2017	1.2	160	490	0.30	7.27	350	1700	< 0.003	0.0045	0.14	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.017	< 0.0002	0.031	< 0.439	< 0.0025	< 0.002
	8/29/2017	1.2	150	360	0.47	7.29	300	1500	< 0.003	0.0011	0.062	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.034	0.699	< 0.0025	< 0.002
	11/8/2017	0.68	130	260	0.45	7.27	270	1200	< 0.003	0.0027	0.10	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.019	< 0.0002	0.014	0.806	< 0.0025	< 0.002
	5/17/2018	1.2	130	200	0.37	6.79	170	1000	< 0.003	0.003	0.07	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.024	0.655	< 0.0025	< 0.002
	8/8/2018	1.1	140	270	0.32	6.93	190	1200	< 0.003	0.0055	0.07	<^ 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.019	< 0.410	< 0.0025	< 0.002
	5/1/2019	0.54	95	73	0.35	7.60	85	600	< 0.003	0.0018	0.07	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.021	< 0.0002	0.0069	0.892	< 0.0025	< 0.002
	11/13/2019	0.98	110	92	0.33	7.66	110	640	NA	0.0025	0.087	NA	< 0.0005	NA	< 0.001	0.00094	0.022	< 0.0002	0.013	< 0.498	< 0.0025	< 0.002
	4/28/2020	0.74	110	120	0.38	7.58	58	660	NA	0.0026	0.095	NA	< 0.0005	NA	< 0.001	< 0.0005	0.026	< 0.0002	0.011	< 0.450	< 0.0025	< 0.002
	12/14/2020	0.73	120	150	0.38	7.40	92	530	NA	0.0024	0.110	NA	< 0.0005	NA	< 0.001	0.00093	0.03	< 0.0002	0.012	1.310	< 0.0025	< 0.002
	5/11/2021	0.54	97	120	0.39	7.64	110	680	< 0.003	0.002	0.092	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.021	< 0.0002	0.011	< 0.695	< 0.0025	< 0.002
	8/25/2021	0.6	100	110	0.35	7.28	100	550	< 0.003	0.0015	0.059	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.018	< 0.0002	0.011	< 0.494	< 0.0025	< 0.002
	12/1/2021	0.64	110	97	0.36	7.50	^~ 66	690	< 0.003	0.0025	0.11	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.023	< 0.0002	0.011	1.02	< 0.0025	< 0.002
	2/10/2022	0.81	110	130	0.37	7.54	55	670	< 0.003	0.0029	0.13	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.023	< 0.0002	0.0092	0.935	< 0.0025	< 0.002
	6/8/2022	0.73	130	180	0.3	7.71	53	790	< 0.003	0.0024	0.14	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.022	< 0.0002	0.0086	< 0.52	< 0.0025	< 0.002
	8/30/2022	0.7	140	210	0.32	7.37	50	1200	< 0.003	0.0027	0.15	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.023	< 0.0002	0.0083	0.859	< 0.0025	< 0.002
	11/15/2022	0.68	130	200	0.45	7.67	41	780	< 0.003	0.003	0.13	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.023	< 0.0002	0.0083	0.451	< 0.0025	< 0.002
	2/22/2023	0.66	130	140	0.32	8.11	61	800	< 0.0030	0.0029	0.13	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.022	< 0.00020	0.0070	0.676	< 0.003	< 0.0020
	5/17/2023	0.61	120	110	0.34	7.68	62	720	< 0.0030	0.0029	0.13	< ^+ ^1+ 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.023	< 0.00020	0.0077	0.714	< 0.003	< 0.0020
	8/29/2023	0.67	110	140	0.34	7.64	49	700	< 0.0020	0.0022	0.11	< 0.0010	< 0.00020	< 0.0050	< 0.00050	< 0.00050	0.020	< 0.00020	0.0069	0.835	< 0.0050	< 0.0010

Notes: All units are in mg/l except pH is in standard units.
F1 - MS and/or MSD Recovery outside of limits.
H - Sample was prepped or analyzed beyond the specified holding time.
V- Serial dilution exceeds control limits.

* - LCS or LCSD is outside acceptance limits.
^ - Denotes instrument related QC exceeds the control limits
(R) - Resample Event
NA - Not Analyzed

Table 1. Groundwater Analytical Results - Midwest Generation, LLC, Powerton Station, Pekin, IL. Ash By-Pass Basin Ash Surge Basin.

Well	Date	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved Solids	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Radium 226 + 228 Combined	Selenium	Thallium
MW-11 (S) down-gradient	11/18/2015	1.7	110	H 54	H 0.55	7.06	H 160	H 670	< 0.003	0.017	0.18	^ < 0.001	< 0.0005	< 0.005	0.002	< 0.0005	< 0.01	H < 0.0002	0.0120	0.788	< 0.0025	< 0.002
	2/26/2016	1.5	140	120	0.55	7.25	220	850	< 0.003	0.023	0.23	< 0.001	< 0.0005	< 0.005	0.0023	< 0.0005	< 0.01	< 0.0002	0.013	0.562	< 0.0025	< 0.002
	5/20/2016	1.6	140	120	0.56	7.10	210	920	< 0.003	0.027	0.26	< 0.001	< 0.0005	< 0.005	0.0024	0.00076	< 0.01	< 0.0002	0.014	0.524	< 0.0025	< 0.002
	8/17/2016	1.0	130	93	0.67	7.08	180	910	< 0.003	F1 0.29	1.4	< 0.001	< 0.0005	< 0.005	0.0034	0.001	< 0.010	< 0.0002	0.011	1.130	< 0.0025	< 0.002
	11/17/2016	1.2	140	130	0.44	7.21	240	1100	< 0.003	0.071	0.44	< 0.001	< 0.0005	< 0.005	0.0037	0.0013	< 0.01	< 0.0002	0.0088	0.734	< 0.0025	< 0.002
	2/16/2017	1.6	140	110	0.40	6.62	260	910	< 0.003	0.04	0.3	< 0.001	< 0.0005	< 0.005	0.003	0.00094	< 0.01	< 0.0002	0.013	0.341	< 0.0025	< 0.002
	5/3/2017	1.3	160	160	0.42	7.36	440	1300	< 0.003	0.039	0.26	< 0.001	< 0.0005	< 0.005	0.0035	0.00093	< 0.01	< 0.0002	0.015	0.662	< 0.0025	< 0.002
	6/22/2017	1.2	140	120	0.60	7.21	260	1000	< 0.003	0.07	0.36	< 0.001	< 0.0005	< 0.005	0.0025	< 0.0005	< 0.01	< 0.0002	0.014	< 0.418	< 0.0025	< 0.002
	8/29/2017	2.2	130	83	0.52	7.23	310	1100	< 0.003	0.017	0.21	< 0.001	< 0.0005	< 0.005	0.0026	< 0.0005	< 0.01	< 0.0002	0.016	< 0.313	< 0.0025	< 0.002
	11/9/2017	1.5	140	100	0.59	6.96	230	970	< 0.003	0.092	0.54	< 0.001	< 0.0005	< 0.005	0.0034	< 0.0005	< 0.01	< 0.0002	0.014	1.24	< 0.0025	< 0.002
	5/16/2018	2.0	140	88	0.61	7.89	270	1000	< 0.003	0.089	0.47	< 0.001	< 0.0005	< 0.005	0.0041	< 0.0005	< 0.01	< 0.0002	0.014	1.12	< 0.0025	< 0.002
	8/9/2018	1.4	160	120	0.65	7.24	220	1000	< 0.003	0.68	3.0	<^ 0.0010	0.0008	< 0.005	0.0053	0.0012	< 0.01	< 0.0002	0.013	1.48	< 0.0025	< 0.002
	5/1/2019	2.3	110	60	0.62	7.08	200	730	< 0.003	0.11	0.6	< 0.001	< 0.0005	< 0.005	0.0026	0.0011	< 0.01	< 0.0002	0.014	1.59	< 0.0025	< 0.002
	11/14/2019	1.8	120	83	0.55	7.43	150	890	NA	0.14	0.72	NA	< 0.0005	NA	0.0041	0.0021	< 0.01	< 0.0002	0.02	2.64	< 0.0025	< 0.002
	4/29/2020	1.2	100	110	0.62	7.08	320	950	NA	0.019	0.21	NA	< 0.0005	NA	0.0019	< 0.0005	< 0.01	< 0.0002	0.024	0.47	< 0.0025	< 0.002
	12/8/2020	0.7	86	94	0.67	7.26	200	650	NA	0.027	0.26	NA	< 0.0005	NA	0.0021	< 0.0005	< 0.01	< 0.0002	0.03	< 0.523	< 0.0025	< 0.002
	5/11/2021	1.0	99	130	0.72	7.26	230	820	< 0.003	0.024	0.25	< 0.001	< 0.0005	< 0.005	0.0019	< 0.0005	0.012	< 0.0002	0.032	1.59	< 0.0025	< 0.002
	8/25/2021	0.9	100	100	0.65	7.03	210	800	< 0.003	0.015	0.16	< 0.001	< 0.0005	< 0.005	0.0016	< 0.0005	< 0.01	< 0.0002	0.03	< 0.472	< 0.0025	< 0.002
	12/1/2021	1.2	100	85	0.67	7.17	^- 160	850	< 0.003	0.0093	0.17	< 0.001	< 0.0005	< 0.005	0.0019	< 0.0005	0.0067	< 0.0002	0.032	1.3	< 0.0025	< 0.002
	2/10/2022	0.9	110	110	0.68	7.11	220	920	< 0.003	0.015	0.2	< 0.001	< 0.0005	< 0.005	0.0024	0.00059	0.007	< 0.0002	0.027	0.839	< 0.0025	< 0.002
	6/8/2022	1.7	110	75	0.64	7.35	150	710	< 0.003	0.028	0.2	< 0.001	0.00058	< 0.005	0.0018	< 0.0005	< 0.01	< 0.0002	0.021	0.786	< 0.0025	< 0.002
	8/31/2022	1.2	120	100	0.61	6.97	190	830	< 0.003	0.016	0.2	< 0.001	< 0.0005	< 0.005	0.0017	< 0.0005	< 0.01	< 0.0002	0.02	1.04	< 0.0025	< 0.002
	11/15/2022	2.2	110	61	0.84	7.21	110	690	< 0.003	0.015	0.16	< 0.001	< 0.0005	< 0.005	0.0017	< 0.0005	< 0.01	< 0.0002	0.016	0.785	< 0.0025	< 0.002
	2/23/2023	3.1	110	63	0.58	7.70	120	680	< 0.0030	0.012	0.17	^1+ ^+< 0.0010	< 0.00050	< 0.0050	0.002	< 0.00050	< 0.010	< 0.00020	0.016	0.934	< 0.003	< 0.0020
	5/16/2023	2.5	120	65	0.52	7.19	120	690	< 0.0030	0.011	0.18	^+ ^1+< 0.0010	< 0.00050	< 0.0050	0.0018	< 0.00050	< 0.010	< 0.00020	0.016	< 0.625	< 0.0025	< 0.0020
	8/30/2023	2.1	110	69	0.54	7.04	87	760	< 0.0020	0.017	0.17	< 0.0010	< 0.00020	< 0.0050	0.0016	< 0.00050	< 0.010	< 0.00020	0.013	0.824	< 0.0050	< 0.0010
MW-12 (CL) down-gradient	11/19/2015	0.94	160	H 220	H 0.57	7.12	H 650	H 1400	< 0.003	0.10	0.180	^ < 0.001	0.00068	< 0.005	< 0.001	0.00063	0.023	H < 0.0002	0.0280	< 0.685	< 0.0025	< 0.002
	2/26/2016	0.42	130	200	0.40	7.96	530	1200	< 0.003	0.077	0.130	< 0.001	0.0016	< 0.005	< 0.001	0.0014	0.014	< 0.0002	0.0150	1.11	< 0.0025	< 0.002
	5/20/2016	0.65	150	200	0.49	7.28	550	1400	< 0.003	0.065	0.16	F1 < 0.001	0.00077	< 0.005	< 0.001	0.0016	0.013	< 0.0002	0.028	0.576	< 0.0025	< 0.002
	8/18/2016	0.69	170	200	0.49	7.06	620	1600	< 0.003	0.33	0.88	0.0013	0.007	< 0.005	0.001	0.0011	0.015	< 0.0002	0.011	3.68	< 0.0025	< 0.002
	11/18/2016	0.83	140	180	0.46	7.34	340	1300	< 0.003	0.23	0.67	< 0.001	0.0028	< 0.005	< 0.001	< 0.0005	0.017	< 0.0002	< 0.01	1.86	< 0.0025	< 0.002
	2/16/2017	0.48	140	190	0.37	7.54	630	1300	< 0.003	0.29	0.26	< 0.001	0.0057	< 0.005	0.0013	0.0042	0.010	< 0.0002	0.015	1.15	< 0.0025	< 0.002
	5/3/2017	0.49	120	190	0.37	7.47	500	1200	< 0.003	0.10	0.17	< 0.001	0.0022	< 0.005	< 0.001	0.0038	0.011	< 0.0002	0.017	0.518	< 0.0025	< 0.002
	6/22/2017	0.50	130	190	0.48	7.36	580	1400	< 0.003	0.025	0.11	< 0.001	< 0.0005	< 0.005	< 0.001	0.00096	< 0.010	< 0.0002	0.028	0.376	< 0.0025	< 0.002
	8/29/2017	0.78	140	180	0.52	7.34	520	1400	< 0.003	0.02	0.095	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.014	< 0.0002	0.024	0.529	< 0.0025	< 0.002
	11/10/2017	0.94	130	170	0.48	7.38	370	1200	< 0.003	0.50	0.45	< 0.001	0.0015	< 0.005	< 0.001	0.00097	0.018	< 0.0002	0.023	1.67	< 0.0025	< 0.002
	5/16/2018	0.46	100	180	0.47	8.12	720	1500	< 0.003	0.09	0.1	< 0.001	0.00052	< 0.005	< 0.001	0.00067	0.012	< 0.0002	0.021	0.741	< 0.0025	< 0.002
	8/9/2018	0.61	120	190	0.44	7.42	480	1300	< 0.003	0.12	0.15	<^ 0.001	0.00084	< 0.005	< 0.001	0.00072	< 0.010	< 0.0002	0.026	0.735	< 0.0025	< 0.002
	5/1/2019	0.4	100	170	0.38	7.68	330	1000	< 0.003	0.04	0.13	< 0.001	0.00054	< 0.005	< 0.001	0.0012	0.014	< 0.0002	0.011	0.666	< 0.0025	< 0.002
	11/14/2019	0.74	120	160	0.45	7.61	280	1100	NA	0.026	0.072	NA	< 0.0005	NA	< 0.001	< 0.0005	0.014	< 0.0002	0.027	0.568	< 0.0025	< 0.002
	4/29/2020	0.34	71	150	0.34	7.96	360	980	NA	0.003	0.034	NA	< 0.0005	NA	< 0.001	< 0.0005	0.012	< 0.0002	0.015	0.578	< 0.0025	< 0.002
	12/8/2020	0.61	92	160	0.56	7.36	320	990	NA	0.025	0.069	NA	< 0.0005	NA	< 0.001	< 0.0005	0.012	< 0.0002	0.027	< 0.476	< 0.0025	< 0.002
	5/13/2021	0.4	89	140	0.23	7.39	350	990	< 0.003	0.003	0.058	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.017	< 0.0002	0.016	0.563	< 0.0025	< 0.002
	8/25/2021	0.5	82	130	0.46	7.43	220	740	< 0.003	0.0083	0.04	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.017	< 0.0002	0.019	< 0.502	< 0.0025	< 0.002
	12/1/2021	0.53	72	130	0.52	7.38	^- 170	730	< 0.003	0.018	0.045	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.009	< 0.0002	0.017	0.623	< 0.0025	< 0.002
	2/10/2022	0.35	96	140	0.27	7.28	320	980	< 0.003	0.0072	0.059	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.012	< 0.0002	0.017	0.602	< 0.0025	< 0.002
	6/8/2022	0.49	98	140	0.41	7.65	320	950	< 0.003	0.0079	0.064	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.012	< 0.0002	0.02	0.495	< 0.0025	< 0.002
	8/31/2022	0.62	100	150	0.5	7.33	260	870	< 0.003	0.099	0.11	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.014	< 0.0002	0.021	0.618	< 0.0025	< 0.002
	11/15/2022	0.58	90	150	0.74	7.66	220	810	< 0.003	0.032	0.072	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.014	< 0.0002	0.02	< 0.622	< 0.0025	< 0.002
	2/23/2023	0.28	100	160	0.38	8.18	340	950	< 0.0030	0.032	0.068	^1+ ^+< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.013	< 0.874	< 0.0025	< 0.0020
	5/16/2023	0.32	89	150	0.34	7.96	240	840	< 0.0030	0.0023	0.043	^+ ^1+< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.013	< 0.588	< 0.0025	< 0.0020
	8/30/2023	0.50	91	170	0.38	7.33	280	1000	< 0.0020	0.010	0.054	< 0.0010	< 0.00020	< 0.0050	< 0.00050	< 0.00050	< 0.010	< 0.00020	0.020	0.760	< 0.0050	< 0.0010
MW-15 (CL) down-gradient	11/18/2015	1.5	270	H 210	H 0.53	6.55	H 1400	H 2400	< 0.003	0.03	0.096	^ < 0.001	0.00061	< 0.005	< 0.001	< 0.0005	0.042	H < 0.0002	0.023	< 0.599	0.0065	< 0.002
	2/25/2016	2.0	240	110	0.61	6.84	640	1700	< 0.003	0.025	0.083	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.041	< 0.0002	0.035	0.870	0.045	< 0.002
	5/19/2016	2.7	320	240	0.53	6.83	1200	2800	< 0.003	0.04	0.097	< 0.001	0.00098	< 0.005	< 0.001	< 0.0005	0.044	< 0.0002	0.041	< 0.420	0.0067	< 0.002
	8/18/2016	1.5	200	F1 170	0.54	6.96	660	1900	< 0.003	0.13	0.11	< 0.001	0.0041	< 0.005	< 0.001	< 0.0005	0.028	< 0.0002	0.027	< 0.672	0.0061	< 0.002
	11/17/2016	1.3	120	180	0.47	6.91	560	1900	< 0.003	0.0033	0.031	< 0.001	< 0.0005	< 0.0050	< 0.0010	< 0.0005	0.016	< 0.0002	0.018	< 0.570	0.0078	< 0.002
	2/17/2017	1.9	200	190	0.43	7.24	670	1700	< 0.003	0.02	0.056	< 0.001	< 0.0005	< 0.0050	< 0.0010	< 0.0005	0.025	< 0.0002	0.027	< 0.392	0.0032	< 0.002
	5/4/2017	1.5	180	190	0.57	7.35	670	1700	< 0.003	0.011	0.049	< 0.001	< 0.0005	< 0.0050	< 0.0010	< 0.0005	0.023	< 0.0002	0.023	< 0.456	0.0034	< 0.002
	6/21/2017	1.6	180	200	0.56	7.30	530	1600	< 0.003	0.0093	0.054	< 0.001	< 0.0005	< 0.0050	< 0.0010	< 0.0005	0.027	< 0.0002	0.03	< 0.347	0.019	< 0.002
	8/29/2017	2.2	190	200	0.53	6.87	540	1800	< 0.003	0.0018	0.044	< 0.001	< 0.0005	< 0.0050	< 0.0010	< 0.0005	0.023	< 0.0002	0.032	0.377	0.0092	< 0.002
	11/10/2017	1.6	170	180	0.63	7.09	530	1500	< 0.003	0.0063	0.046	< 0.001	< 0.0005	< 0.0050	< 0.0010	< 0.0005	0.025	< 0.0002	0.02	< 0.313	0.016	< 0.002
	5/17/2018	2.3	200	160	0.5	6.75	680	1800	< 0.003	0.0081	0.05	< 0.001	< 0.0005	< 0.0050	< 0.0010	< 0.0005	0.029	< 0.0002	0.03	0.397	0.077	< 0.002
	8/9/2018	2.3	200	200	0.48	7.06	520	1700	< 0.003	0.0083	0.048	<^ 0.001	< 0.0005	< 0.0050	< 0.0010	< 0.0005	0.026	< 0.0002	0.033	0.566	0.06	< 0.002
	5/2/2019	1.5	180	200	0.52	6.89	420	1500	< 0.003	0.0045	0.052	< 0.001	< 0.0005	< 0.005	< 0.0010	< 0.0005	0.027	< 0.0002	0.023	< 0.424	< 0.0025	< 0.002
	11/14/2019	1.8	170	170	0.5	7.24	260	1300	NA	0.0044	0.053	NA	< 0.0005	NA	< 0.0010	< 0.0005	0.029	< 0.0002	0.025	< 0.475	< 0.0025	< 0.002
	4/29/2020	1.2	160	200	0.58	6.90	370	1300	NA	0.0036	0.06	NA	< 0.0005	NA	< 0.0010	< 0.0005	0.027	< 0.0002	0.023	0.578	< 0.0025	< 0.002
	12/8/2020	1.5	170	200	0.55	7.04	540	1400	NA	0.02	0.1	NA	0.00059	NA	0.0012	< 0.0005	0.035	< 0.0002	0.02	0.626	0.012	< 0.002
	5/12/2021	1.3	180	180	0.54	6.97	520	1500	< 0.003	0.0048	0.065	< 0.001	< 0.0005	< 0.0050	< 0.0010	< 0.0005	0.026	< 0.0002	0.014	< 0.648	0.0071	< 0.002
	8/23/2021	1.5	200	180	0.52	6.76	470	1500	< 0.003	0.0019	0.055	< 0.001	< 0.0005	< 0.0050	< 0.0010	< 0.0005	0.025	< 0.0002	0.024	0.465	0.015	< 0.002
	11/29/2021	1.9	220	250	0.48	6.71	480	1700	< 0.003	0.0022	0.075	< 0.001	< 0.0005	< 0.0050	< 0.0010	< 0.0005	0.024	< 0.0002	0.016	0.649	0.059	< 0.002
	2/9/2022	0.93	140	160	0.59	6.91	320	1200	< 0.003	0.008	0.055	< 0.001	< 0.0005	< 0.0050	< 0.0010	< 0.0005	0.024	< 0.0002	0.014	< 0.424	0.0034	< 0.002
	6/8/2022	2	330	240	0.43	6.87	980	2700	< 0.003	0.0032	0.088	< 0.001	< 0.0005	< 0.0050	< 0.0010	< 0.0005	0.027	< 0.0002	0.019	0.485	0.1	< 0.002
	8/31/2022	1.5	210	270	0.48	6.80	530	1800	< 0.003	0.0049	0.057	< 0.001	< 0.0005	< 0.0050	< 0.0010	< 0.0005	0.032	< 0.0002	0.021	< 0.55	0.0078	< 0.002
	11/16/2022	1.3	190	230	0.71	7.26	450	1500	< 0.003	0.0071	0.06	< 0.001	< 0.0005	< 0.0050	< 0.0010	< 0.0005	0.025	< 0.0002	0.055	0.49	< 0.0025	< 0.002
	2/23/2023	1.2	200	210	0.38	7.52	390	1500	< 0.0030	0.0049	0.056	^1+ ^+< 0.0010	0.00091	< 0.0050	0.0089	< 0.00050	0.025	< 0.00020	0.093	0.657	0.029	0.0029
	5/17/2023	1.3	1400	310	0.42	6.84	850	2500	< 0.0030	0.0027	0.075	^+ ^1+< 0.0010	< 0.00050	< 0.0050	0.0012	< 0.00050	0.024	< 0.00020	0.039	< 0.538	0.18	< 0.0020
	8/30/2023	1.2	180	280	0.43	6.94	430	1600	< 0.0020	0.0079	0.050	< 0.0010	0.00039	< 0.0050	0.0018	< 0.00050	0.022	< 0.00020	0.097	1.15	0.021	< 0.0010
MW-17 (CL) down-gradient	11/19/2015	1.6	210	H 230	H 0.43	7.11	H 850	H 1800	< 0.003	0.0028	0.14	^ < 0.001	< 0.0005	< 0.005	0.0012	0.0012	0.019	H < 0.0002	0.035	< 0.790	< 0.0025	< 0.002
	2/22/2016	1.8	290	280	0.55	7.19	960	2100	< 0.003	0.021	0.051	< 0.001	< 0.0005	< 0.005	0.0012	< 0.0005	0.038	< 0.0002	0.093	1.07	< 0.0025	< 0.002
	5/18/2016	1.4	200	230	0.64	7.02	700	1800	< 0.003	0.32	0.12	< 0.001	0.0011	< 0.005	0.0015	< 0.0005	0.026	< 0.0002	0.12	8.27	< 0.0025	0.0028
	8/15/2016	1.1	220	220	0.60	7.08	860	2100	< 0.003	0.34	0.12	< 0.001	0.001	< 0.005	0.0016	< 0.0005	0.022	< 0.0002	0.1	0.606	< 0.0025	0.0031
	11/14/2016	1.5	200	210	0.56	7.26	560	2000	< 0.003	0.19	0.073	< 0.001	0.00051	< 0.005	0.0012	< 0.0005	0.022	< 0.0002	0.042	3.76	< 0.0025	0.0021
	2/13/2017	1.6	190	230	0.56	6.84	770	1600	< 0.003	0.35	0.16	< 0.001	0.00093	< 0.005	0.0014	0.00079	0.019	< 0.0002	0.088	2.08	< 0.0025	0.0025
	5/4/2017	1.2	170	210	0.61	7.29	720	1500	< 0.003	0.24	0.39	0.0013	0.0023	< 0.005	0.0023	0.00066	0.016	< 0.0002	0.036	1.91	< 0.0025	0.0065
	6/22/2017	0.95	150	230	0.72	7.38	580	1600	< 0.003	0.41	0.13	< 0.001	0.0007	< 0.005	0.0012	0.0011	0.022	< 0.0002	0.11	1.21	< 0.0025	0.0022
	8/29/2017	1.4	190	230	0.64	7.19	640	1900	< 0.003	0.24	0.092	< 0.001	< 0.0005	< 0.005	< 0.001	0.00058	0.021	< 0.0002	0.13	3.32	< 0.0025	0.0025
	11/6/2017	1.7	190	240	0.62	7.27	840	1800	< 0.003	0.17	0.38	< 0.001	0.0022	< 0.005	0.0015	< 0.0005	< 0.01	< 0.0002	0.019	2.54	< 0.0025	0.0075
	5/14/2018	1.6	170	220	0.6	7.79	800	1700	< 0.003	0.42	0.17	< 0.001	0.002	< 0.005	0.0029	0.0021	0.015	< 0.0002	0.13	2.03	< 0.0025	0.0068
	8/6/2018	1.3	170	230	0.6	7.12	620	1600	< 0.003	0.087	0.055	<^ 0.001	0.00094	< 0.005	0.0015	< 0.0005	0.019	< 0.0002	0.084	1.34	< 0.0025	0.0023
	4/29/2019	0.98	150	190	0.66	7.25	660	1500	< 0.003	0.042	0.04	< 0.001	0.00052	< 0.005	< 0.001	0.00069	0.015	< 0.0002	0.06	0.517	< 0.0025	< 0.002
	11/13/2019	1.9	230	600	0.55	7.16	730	2300	NA	0.088	0.1	NA	0.0015	NA	0.0011	0.00093	0.021	< 0.0002	0.058	0.643	< 0.0025	0.0029
	4/27/2020	1.2	150	170	0.79	7.27	520	1300	NA	0.026	0.036	NA	< 0.0005	NA	< 0.001	0.00081	0.021	< 0.0002	0.075	0.498	< 0.0025	< 0.002
	12/7/2020	1.3	140	160	0.8	7.22	430	1100	NA	0.08	0.05	NA	0.001	NA	< 0.001	0.0011	0.022	< 0.0002	0.056	< 0.438	< 0.0025	< 0.002
	5/12/2021	0.99	130	160	0.77	7.52	480	1200	< 0.003	0.0053	0.027	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.018	< 0.0002	0.049	< 0.478	< 0.0025	< 0.002
	8/23/2021	0.92	140	150	0.7	7.37	500	1100	< 0.003	0.0058	0.028	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.017	< 0.0002	0.043	0.553	< 0.0025	< 0.002
	11/29/2021	1	140	150	0.76	7.30	430	1200	< 0.003	0.0039	0.025	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.017	< 0.0002	0.04	0.892	< 0.0025	< 0.002
	2/7/2022	0.9	140	160	0.82	7.27	430	1300	< 0.003	0.0044	0.026	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.016	< 0.0002	0.038	0.693	< 0.0025	< 0.002
	6/8/2022	1.3	200	190	0.69	7.51	810	1900	< 0.003	0.0051	0.037	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.018	< 0.0002	0.052	< 0.601	< 0.0025	< 0.002
	8/31/2022	1.1	150	170	0.73	7.12	430	1200	< 0.003	0.003	0.031	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.016	< 0.0002	0.024	< 0.533	< 0.0025	< 0.002
	11/16/2022	1.1	150	170	0.98	7.56	530	1400	< 0.003	0.0058	0.04	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.013	< 0.0002	0.028	0.512	< 0.0025	< 0.002
	2/23/2023	1.6	170	210	0.67	7.87	690	1700	< 0.0030	0.0034	0.027	^1+ ^+< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.0150	< 0.00020	0.043	< 0.583	< 0.0025	0.0020
	5/18/2023	0.98	150	190	0.65	7.34	460	1400	< 0.0030	0.0026	0.023	^+ ^1+< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.011	< 0.00020	0.058	< 0.521	< 0.0025	< 0.0020
	8/30/2023	1.1	130	210	0.67	7.21	560	1500	< 0.0020	0.0025	0.023	< 0.0010	0.00026	< 0.0050	< 0.00050	< 0.00050	0.012	< 0.00020	0.051	< 0.630	< 0.0050	0.0015
MW-18 (S) down-gradient	11/19/2015	0.80	140	H 220	H 0.66	7.62	H 310	H 1200	< 0.003	0.0014	0.14	^ < 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.017	H < 0.0002	0.0051	< 0.845	< 0.0025	< 0.002
	2/22/2016	0.76	150	220	0.68	7.06	310	1200	< 0.003	0.0012	0.15	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.022	< 0.0002	0.0055	1.88	< 0.0025	< 0.002
	5/18/2016	0.72	120	230	0.71	7.68	230	1200	< 0.003	< 0.001	0.13	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.014	< 0.0002	0.0052	< 0.493	< 0.0025	< 0.002
	8/15/2016	0.67	130	210	0.64	7.52	330	1300	< 0.003	< 0.001	0.14	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.012	< 0.0002	0.0059	0.836	< 0.0025	< 0.002
	11/18/2016	0.94	130	200	0.58	7.69	250	1300	< 0.003	< 0.001	0.14	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.013	< 0.0002	0.0053	0.488	< 0.0025	< 0.002
	2/15/2017	0.56	140	190	0.50	7.81	340	1200	< 0.003	< 0.001	0.14	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.014	< 0.0002	0.0058	< 0.347	< 0.0025	< 0.002
	5/5/2017	0.46	130	180	0.52	8.12	360	1100	< 0.003	0.0032	0.12	< 0.001	< 0.0005	< 0.005	< 0.001	0.00057	0.01	< 0.0002	< 0.005	0.612	< 0.0025	< 0.002
	6/21/2017	0.53	120	190	0.51	8.10	320	1200	< 0.003	< 0.001	0.12	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.014	< 0.0002	0.0051	0.629	< 0.0025	< 0.002
	8/28/2017	0.65	120	200	0.53	7.81	310	1200	< 0.003	< 0.001	0.12	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.012	< 0.0002	0.005	0.498	< 0.0025	< 0.002
	11/6/2017	0.67	120	190	0.57	7.74	400	1200	< 0.003	< 0.001	0.12	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.011	< 0.0002	0.0057	0.755	< 0.0025	< 0.002
	5/14/2018	0.57	130	180	0.59	8.27	440	1200	< 0.003	< 0.001	0.13	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.013	< 0.0002	0.0052	0.641	< 0.0025	< 0.002
	8/6/2018	0.58	120	230	0.57	7.88	270	1100	< 0.003	< 0.001	0.12	<^ 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.013	< 0.0002	0.0052	1.02	< 0.0025	< 0.002
	4/29/2019	0.54	120	180	0.61	7.77	170	1000	< 0.003	< 0.001	0.12	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.013	< 0.0002	< 0.005	< 0.445	< 0.0025	< 0.002
	11/13/2019	0.79	130	180	0.56	8.26	210	1100	NA	0.0013	0.12	NA	< 0.0005	NA	< 0.001	< 0.0005	0.014	< 0.0002	< 0.005	< 0.49	< 0.0025	< 0.002
	4/27/2020	0.60	120	170	0.69	7.90	180	1000	NA	< 0.001	0.12	NA	< 0.0005	NA	< 0.001	< 0.0005	0.016	< 0.0002	< 0.005	< 0.526	< 0.0025	< 0.002
	12/7/2020	0.75	110	F1 150	0.70	7.70	160	910	NA	0.0032	0.11	NA	< 0.0005	NA	< 0.001	< 0.0005	0.014	< 0.0002	0.061	< 0.497	< 0.0025	< 0.002
	5/10/2021	0.66	130	140	0.66	8.02	350	880	< 0.003	< 0.001	0.12	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.013	< 0.0002	0.005	< 0.544	< 0.0025	< 0.002
	8/26/2021	0.52	140	140	0.56	7.97	340	1000	< 0.003	0.0023	0.13	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.014	< 0.0002	0.03	0.633	< 0.0025	< 0.002
	12/1/2021	0.61	140	150	0.59	7.93	^- 310	1200	< 0.003	0.0036	0.15	< 0.001	< 0.005	< 0.0005	< 0.001	0.00062	0.015	< 0.0002	0.018	< 0.514	< 0.0025	< 0.002
	2/8/2022	0.55	130	150	0.60	7.81	270	1200	< 0.003	0.01	0.26	< 0.001	< 0.0005	0.01	0.0034	0.005	0.014	< 0.0002	0.013	1.6	< 0.0025	< 0.002
	6/6/2022	0.65	120	150	0.55	8.01	230	1000	< 0.003	< 0.001	0.11	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.012	< 0.0002	0.0067	0.832	< 0.0025	< 0.002
	8/30/2022	0.66	130	160	0.55	7.82	240	1400	< 0.003	0.0085	0.23	< 0.001	< 0.0005	0.0071	0.0027	0.0039	0.016	< 0.0002	0.0056	0.645	< 0.0025	< 0.002
	11/16/2022	0.54	110	160	0.63	7.90	220	1100	< 0.003	0.0069	0.28	< 0.001	< 0.0005	0.017	0.0056	0.0092	0.019	< 0.0002	0.007	4.93	< 0.0025	< 0.002
	2/21/2023	0.68	130	160	0.52	8.27	180	1100	< 0.0030	< 0.0010	0.12	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.012	< 0.00020	< 0.0050	1.55	< 0.0025	< 0.0020
	5/18/2023	0.61	130	140	0.52	8.04	120	1000	< 0.0030	< 0.0010	0.12	^+ ^1+< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.0060	< 0.433	< 0.0025	< 0.0020
	8/29/2023	0.75	140	170	0.50	7.88	110	970	< 0.0020	< 0.0020	0.13	< 0.0010	< 0.00020	< 0.0050	< 0.00050	< 0.00050	< 0.010	< 0.00020	0.0039	< 0.796	< 0.0050	< 0.0010

Notes: All units are in mg/l except pH is in standard units.
F1 - MS and/or MSD Recovery outside of limits.
H - Sample was prepped or analyzed beyond the specified holding time.
V- Serial dilution exceeds control limits.

* - LCS or LCSD is outside acceptance limits.
^ - Denotes instrument related QC exceeds the control limits
(R) - Resample Event
NA - Not Analyzed

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

Well	Date	Turbidity (NTU)
MW-01	2/23/2021	78.20
	4/9/2021	6.96
	5/11/2021	3.24
	6/2/2021	3.80
	6/28/2021	4.30
	7/19/2021	4.88
	8/24/2021	3.34
	9/30/2021	3.04
	11/30/2021	5.43
	2/9/2022	11.5
	6/7/2022	3.63
	8/30/2022	4.73
	11/15/2022	3.90
	2/22/2023	4.54
	5/17/2023	4.33
	8/29/2023	4.40
MW-09	2/24/2021	16.9
	4/9/2021	5.73
	5/13/2021	0.49
	6/2/2021	2.37
	6/29/2021	4.53
	7/19/2021	6.12
	8/25/2021	16.65
	9/30/2021	3.2
	12/1/2021	0.0
	2/10/2022	0.0
	6/8/2022	6.93
	8/31/2022	4.95
	11/15/2022	1.82
	2/23/2023	3.22
	5/16/2023	15.52
	8/30/2023	1.64
MW-19	2/22/2021	0.56
	4/9/2021	4.25
	5/10/2021	1.80
	6/2/2021	5.77
	6/29/2021	8.79
	7/19/2021	7.30
	8/26/2021	30.91
	9/30/2021	2.92
	12/1/2021	0.0
	2/7/2022	3.54
	6/6/2022	2.35
	8/30/2022	3.56
	11/16/2022	2.02
	2/21/2023	2.13
	5/18/2023	2.25
	8/29/2023	1.28
MW-08	2/23/2021	47.30
	4/9/2021	23.05
	5/11/2021	8.93
	6/3/2021	11.11
	6/29/2021	5.48
	7/19/2021	6.86
	8/25/2021	6.80
	9/30/2021	5.01
	12/1/2021	5.01
	2/10/2022	14.98
	6/8/2022	8.65
	8/30/2022	9.75
	11/15/2022	12.65
	2/22/2023	4.12
	5/17/2023	17.75
	8/29/2023	8.43

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

Well	Date	Turbidity (NTU)
MW-11	2/25/2021	35.10
	4/9/2021	41.53
	5/13/2021	14.70
	6/3/2021	14.92
	6/29/2021	40.48
	7/19/2021	25.73
	8/25/2021	55.39
	9/30/2021	4.06
	12/1/2021	2.48
	2/10/2022	9.29
	6/8/2022	77.21
	8/31/2022	66.8
	11/15/2022	36.1
	2/23/2023	14.07
	5/16/2023	10.18
	8/30/2023	44.60
MW-12	2/25/2021	26.50
	4/9/2021	66.11
	5/13/2021	5.17
	6/3/2021	106.47
	6/29/2021	21.40
	7/19/2021	22.70
	8/25/2021	12.62
	9/30/2021	18.66
	12/1/2021	29.27
	2/10/2022	7.08
	6/8/2022	57.5
	8/31/2022	703.1
	11/15/2022	335.9
	2/23/2023	18.01
	5/16/2023	21.37
	8/30/2023	104.06
MW-15	2/24/2021	64.90
	4/9/2021	16.80
	5/12/2021	16.45
	6/3/2021	7.85
	6/29/2021	6.58
	7/20/2021	5.82
	8/23/2021	4.28
	10/1/2021	13.13
	11/29/2021	12.35
	2/9/2022	9.38
	6/8/2022	10.32
	8/31/2022	28.7
	11/16/2022	55.82
	2/23/2023	21.36
	5/17/2023	13.90
	8/30/2023	34.65
MW-17	2/24/2021	42.00
	4/8/2021	17.10
	5/12/2021	10.90
	6/3/2021	38.15
	6/28/2021	29.15
	7/20/2021	16.38
	8/23/2021	26.51
	10/1/2021	21.26
	11/29/2021	8.86
	2/7/2022	11.19
	6/8/2022	41.49
	8/31/2022	22.58
	11/16/2022	116.69
	2/23/2023	20.65
	5/18/2023	9.92
	8/30/2023	3.56
MW-18	2/22/2021	3.40
	4/9/2021	4.62
	5/10/2021	2.28
	6/3/2021	2.38
	6/29/2021	3.96
	7/19/2021	5.19
	8/26/2021	7.96
	9/30/2021	37.94
	12/1/2021	5.88
	2/8/2022	39.3
	6/6/2022	2.73
	8/30/2022	5.66
	11/16/2022	28.47
	2/21/2023	17.88
	5/18/2023	3.04
	8/29/2023	10.04

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 9/25/2023 4:34:01 PM

JOB DESCRIPTION

Powerton CCR ABB/ASB

JOB NUMBER

500-238830-1

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

Job Notes

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

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

Authorization

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9/25/2023 4:34:01 PM

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

Table of Contents

Job ID: 500-238830-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative
500-238830-1

Receipt
The samples were received on 8/30/2023 10:10 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 0.7º C, 1.2º C, 1.6º C and 1.8º C.

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

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

Method Summary

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

Job ID: 500-238830-1

Method	Method Description	Protocol	Laboratory
6020B	Metals (ICP/MS)	SW846	EET CF
7470A	Mercury (CVAA)	SW846	EET CF
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 CF
7470A	Preparation, Mercury	SW846	EET CF

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 CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

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 ABB/ASB

Job ID: 500-238830-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-238830-1	MW-08	Water	08/29/23 11:21	08/30/23 10:10
500-238830-2	MW-01	Water	08/29/23 12:20	08/30/23 10:10
500-238830-3	MW-19	Water	08/29/23 14:55	08/30/23 10:10
500-238830-4	Duplicate	Water	08/29/23 00:00	08/30/23 10:10
500-238830-5	MW-18	Water	08/29/23 15:47	08/30/23 10:10
500-238830-6	MW-09	Water	08/30/23 13:44	08/31/23 10:05
500-238830-7	MW-17	Water	08/30/23 11:18	08/31/23 10:05
500-238830-8	MW-15	Water	08/30/23 09:32	08/31/23 10:05
500-238830-9	MW-11	Water	08/30/23 14:43	08/31/23 10:05
500-238830-10	MW-12	Water	08/30/23 15:47	08/31/23 10:05

Client Sample Results

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

Job ID: 500-238830-1

Client Sample ID: MW-08

Date Collected: 08/29/23 11:21
Date Received: 08/30/23 10:10

Lab Sample ID: 500-238830-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0022**		0.0020		mg/L		09/01/23 09:00	09/15/23 20:06	1
Boron	**0.67**		0.10		mg/L		09/01/23 09:00	09/19/23 18:16	1
Barium	**0.11**		0.0020		mg/L		09/01/23 09:00	09/15/23 20:06	1
Beryllium	<0.0010		0.0010		mg/L		09/01/23 09:00	09/15/23 20:06	1
Calcium	**110**		0.50		mg/L		09/01/23 09:00	09/15/23 20:06	1
Cadmium	<0.00020		0.00020		mg/L		09/01/23 09:00	09/15/23 20:06	1
Cobalt	<0.00050		0.00050		mg/L		09/01/23 09:00	09/15/23 20:06	1
Chromium	<0.0050		0.0050		mg/L		09/01/23 09:00	09/15/23 20:06	1
Molybdenum	**0.0069**		0.0020		mg/L		09/01/23 09:00	09/15/23 20:06	1
Lead	<0.00050		0.00050		mg/L		09/01/23 09:00	09/19/23 18:16	1
Antimony	<0.0020		0.0020		mg/L		09/01/23 09:00	09/19/23 18:16	1
Selenium	<0.0050		0.0050		mg/L		09/01/23 09:00	09/15/23 20:06	1
Thallium	<0.0010		0.0010		mg/L		09/01/23 09:00	09/19/23 18:16	1
Lithium	**0.020**		0.010		mg/L		09/01/23 09:00	09/15/23 20:06	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		09/12/23 11:54	09/13/23 12:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**700**		10		mg/L			09/01/23 01:06	1
Chloride (SM 4500 Cl- E)	**140**		20		mg/L			09/12/23 17:04	10
Fluoride (SM 4500 F C)	**0.34**		0.10		mg/L			09/10/23 13:19	1
Sulfate (SM 4500 SO4 E)	**49**		5.0		mg/L			09/21/23 11:15	1

Client Sample Results

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

Job ID: 500-238830-1

Client Sample ID: MW-01

Date Collected: 08/29/23 12:20
Date Received: 08/30/23 10:10

Lab Sample ID: 500-238830-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0020		0.0020		mg/L		09/01/23 09:00	09/15/23 20:09	1
Boron	**0.53**		0.10		mg/L		09/01/23 09:00	09/19/23 18:18	1
Barium	**0.076**		0.0020		mg/L		09/01/23 09:00	09/15/23 20:09	1
Beryllium	<0.0010		0.0010		mg/L		09/01/23 09:00	09/15/23 20:09	1
Calcium	**100**		0.50		mg/L		09/01/23 09:00	09/15/23 20:09	1
Cadmium	<0.00020		0.00020		mg/L		09/01/23 09:00	09/15/23 20:09	1
Cobalt	<0.00050		0.00050		mg/L		09/01/23 09:00	09/15/23 20:09	1
Chromium	<0.0050		0.0050		mg/L		09/01/23 09:00	09/15/23 20:09	1
Molybdenum	<0.0020		0.0020		mg/L		09/01/23 09:00	09/15/23 20:09	1
Lead	<0.00050		0.00050		mg/L		09/01/23 09:00	09/19/23 18:18	1
Antimony	<0.0020		0.0020		mg/L		09/01/23 09:00	09/19/23 18:18	1
Selenium	<0.0050		0.0050		mg/L		09/01/23 09:00	09/15/23 20:09	1
Thallium	<0.0010		0.0010		mg/L		09/01/23 09:00	09/19/23 18:18	1
Lithium	<0.010		0.010		mg/L		09/01/23 09:00	09/15/23 20:09	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		09/12/23 11:54	09/13/23 12:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**520**		10		mg/L			09/01/23 01:13	1
Chloride (SM 4500 Cl- E)	**50**		4.0		mg/L			09/14/23 14:33	2
Fluoride (SM 4500 F C)	<0.10		0.10		mg/L			09/10/23 13:24	1
Sulfate (SM 4500 SO4 E)	**43**		5.0		mg/L			09/21/23 11:15	1

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

Job ID: 500-238830-1

Client Sample ID: MW-19

Date Collected: 08/29/23 14:55
Date Received: 08/30/23 10:10

Lab Sample ID: 500-238830-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0020		0.0020		mg/L		09/01/23 09:00	09/15/23 20:13	1
Boron	**3.0**		0.10		mg/L		09/01/23 09:00	09/19/23 18:21	1
Barium	**0.060**		0.0020		mg/L		09/01/23 09:00	09/15/23 20:13	1
Beryllium	<0.0010		0.0010		mg/L		09/01/23 09:00	09/15/23 20:13	1
Calcium	**80**		0.50		mg/L		09/01/23 09:00	09/15/23 20:13	1
Cadmium	<0.00020		0.00020		mg/L		09/01/23 09:00	09/15/23 20:13	1
Cobalt	<0.00050		0.00050		mg/L		09/01/23 09:00	09/15/23 20:13	1
Chromium	<0.0050		0.0050		mg/L		09/01/23 09:00	09/15/23 20:13	1
Molybdenum	**0.026**		0.0020		mg/L		09/01/23 09:00	09/15/23 20:13	1
Lead	<0.00050		0.00050		mg/L		09/01/23 09:00	09/19/23 18:21	1
Antimony	<0.0020		0.0020		mg/L		09/01/23 09:00	09/19/23 18:21	1
Selenium	<0.0050		0.0050		mg/L		09/01/23 09:00	09/15/23 20:13	1
Thallium	<0.0010		0.0010		mg/L		09/01/23 09:00	09/19/23 18:21	1
Lithium	<0.010		0.010		mg/L		09/01/23 09:00	09/15/23 20:13	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		09/12/23 11:54	09/13/23 12:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**610**		10		mg/L			09/01/23 01:19	1
Chloride (SM 4500 Cl- E)	**32**		2.0		mg/L			09/14/23 14:09	1
Fluoride (SM 4500 F C)	**0.18**		0.10		mg/L			09/10/23 13:29	1
Sulfate (SM 4500 SO4 E)	**120**		25		mg/L			09/21/23 12:02	5

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

Job ID: 500-238830-1

Client Sample ID: Duplicate

Date Collected: 08/29/23 00:00
Date Received: 08/30/23 10:10

Lab Sample ID: 500-238830-4

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0020		0.0020		mg/L		09/01/23 09:00	09/19/23 18:23	1
Boron	**3.1**		0.10		mg/L		09/01/23 09:00	09/19/23 18:23	1
Barium	**0.071**		0.0020		mg/L		09/01/23 09:00	09/19/23 18:23	1
Beryllium	<0.0010		0.0010		mg/L		09/01/23 09:00	09/19/23 18:23	1
Calcium	**92**		0.50		mg/L		09/01/23 09:00	09/19/23 18:23	1
Cadmium	<0.00020		0.00020		mg/L		09/01/23 09:00	09/19/23 18:23	1
Cobalt	<0.00050		0.00050		mg/L		09/01/23 09:00	09/19/23 18:23	1
Chromium	<0.0050		0.0050		mg/L		09/01/23 09:00	09/19/23 18:23	1
Molybdenum	**0.032**		0.0020		mg/L		09/01/23 09:00	09/19/23 18:23	1
Lead	<0.00050		0.00050		mg/L		09/01/23 09:00	09/19/23 18:23	1
Antimony	<0.0020		0.0020		mg/L		09/01/23 09:00	09/19/23 18:23	1
Selenium	**0.0053**		0.0050		mg/L		09/01/23 09:00	09/19/23 18:23	1
Thallium	<0.0010		0.0010		mg/L		09/01/23 09:00	09/19/23 18:23	1
Lithium	<0.010		0.010		mg/L		09/01/23 09:00	09/19/23 18:23	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		09/12/23 11:54	09/13/23 12:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**560**		10		mg/L			09/01/23 01:21	1
Chloride (SM 4500 Cl- E)	**32**		2.0		mg/L			09/14/23 14:56	1
Fluoride (SM 4500 F C)	**0.18**		0.10		mg/L			09/10/23 13:34	1
Sulfate (SM 4500 SO4 E)	**120**		25		mg/L			09/21/23 11:36	5

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

Job ID: 500-238830-1

Client Sample ID: MW-18

Date Collected: 08/29/23 15:47
Date Received: 08/30/23 10:10

Lab Sample ID: 500-238830-5

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0020		0.0020		mg/L		09/01/23 09:00	09/15/23 20:38	1
Boron	**0.75**		0.10		mg/L		09/01/23 09:00	09/19/23 18:27	1
Barium	**0.13**		0.0020		mg/L		09/01/23 09:00	09/15/23 20:38	1
Beryllium	<0.0010		0.0010		mg/L		09/01/23 09:00	09/15/23 20:38	1
Calcium	**140**		0.50		mg/L		09/01/23 09:00	09/19/23 18:27	1
Cadmium	<0.00020		0.00020		mg/L		09/01/23 09:00	09/15/23 20:38	1
Cobalt	<0.00050		0.00050		mg/L		09/01/23 09:00	09/15/23 20:38	1
Chromium	<0.0050		0.0050		mg/L		09/01/23 09:00	09/15/23 20:38	1
Molybdenum	**0.0039**		0.0020		mg/L		09/01/23 09:00	09/15/23 20:38	1
Lead	<0.00050		0.00050		mg/L		09/01/23 09:00	09/19/23 18:27	1
Antimony	<0.0020		0.0020		mg/L		09/01/23 09:00	09/19/23 18:27	1
Selenium	<0.0050		0.0050		mg/L		09/01/23 09:00	09/15/23 20:38	1
Thallium	<0.0010		0.0010		mg/L		09/01/23 09:00	09/19/23 18:27	1
Lithium	<0.010		0.010		mg/L		09/01/23 09:00	09/15/23 20:38	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		09/12/23 11:54	09/13/23 12:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**970**		10		mg/L			09/01/23 01:24	1
Chloride (SM 4500 Cl- E)	**170**		20		mg/L			09/14/23 14:09	10
Fluoride (SM 4500 F C)	**0.50**		0.10		mg/L			09/10/23 13:39	1
Sulfate (SM 4500 SO4 E)	**110**		25		mg/L			09/21/23 11:37	5

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

Job ID: 500-238830-1

Client Sample ID: MW-09

Date Collected: 08/30/23 13:44
Date Received: 08/31/23 10:05

Lab Sample ID: 500-238830-6

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0020		0.0020		mg/L		09/05/23 08:00	09/20/23 23:56	1
Boron	**2.8**		0.10		mg/L		09/05/23 08:00	09/20/23 23:56	1
Barium	**0.032**		0.0020		mg/L		09/05/23 08:00	09/20/23 23:56	1
Beryllium	<0.0010		0.0010		mg/L		09/05/23 08:00	09/20/23 23:56	1
Calcium	**73**		0.50		mg/L		09/05/23 08:00	09/20/23 23:56	1
Cadmium	<0.00020		0.00020		mg/L		09/05/23 08:00	09/20/23 23:56	1
Cobalt	<0.00050		0.00050		mg/L		09/05/23 08:00	09/20/23 23:56	1
Chromium	<0.0050		0.0050		mg/L		09/05/23 08:00	09/20/23 23:56	1
Molybdenum	**0.020**		0.0020		mg/L		09/05/23 08:00	09/20/23 23:56	1
Lead	<0.00050		0.00050		mg/L		09/05/23 08:00	09/20/23 23:56	1
Antimony	<0.0020		0.0020		mg/L		09/05/23 08:00	09/20/23 23:56	1
Selenium	<0.0050		0.0050		mg/L		09/05/23 08:00	09/20/23 23:56	1
Thallium	<0.0010		0.0010		mg/L		09/05/23 08:00	09/21/23 17:37	1
Lithium	<0.010		0.010		mg/L		09/05/23 08:00	09/20/23 23:56	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		09/12/23 11:54	09/13/23 12:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**500**		10		mg/L			09/01/23 01:26	1
Chloride (SM 4500 Cl- E)	**30**		2.0		mg/L			09/14/23 14:52	1
Fluoride (SM 4500 F C)	**0.15**		0.10		mg/L			09/10/23 14:21	1
Sulfate (SM 4500 SO4 E)	**120**		25		mg/L			09/21/23 11:37	5

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

Job ID: 500-238830-1

Client Sample ID: MW-17

Date Collected: 08/30/23 11:18
Date Received: 08/31/23 10:05

Lab Sample ID: 500-238830-7

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0025**		0.0020		mg/L		09/05/23 08:00	09/21/23 00:00	1
Boron	**1.1**		0.10		mg/L		09/05/23 08:00	09/21/23 00:00	1
Barium	**0.023**		0.0020		mg/L		09/05/23 08:00	09/21/23 00:00	1
Beryllium	<0.0010		0.0010		mg/L		09/05/23 08:00	09/21/23 00:00	1
Calcium	**130**		0.50		mg/L		09/05/23 08:00	09/21/23 00:00	1
Cadmium	**0.00026**		0.00020		mg/L		09/05/23 08:00	09/21/23 17:39	1
Cobalt	<0.00050		0.00050		mg/L		09/05/23 08:00	09/21/23 00:00	1
Chromium	<0.0050		0.0050		mg/L		09/05/23 08:00	09/21/23 00:00	1
Molybdenum	**0.051**		0.0020		mg/L		09/05/23 08:00	09/21/23 00:00	1
Lead	<0.00050		0.00050		mg/L		09/05/23 08:00	09/21/23 00:00	1
Antimony	<0.0020		0.0020		mg/L		09/05/23 08:00	09/21/23 00:00	1
Selenium	<0.0050		0.0050		mg/L		09/05/23 08:00	09/21/23 00:00	1
Thallium	**0.0015**		0.0010		mg/L		09/05/23 08:00	09/21/23 17:39	1
Lithium	**0.012**		0.010		mg/L		09/05/23 08:00	09/21/23 00:00	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		09/12/23 11:54	09/13/23 12:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**1500**		10		mg/L			09/01/23 01:29	1
Chloride (SM 4500 Cl- E)	**210**		20		mg/L			09/14/23 14:57	10
Fluoride (SM 4500 F C)	**0.67**		0.10		mg/L			09/10/23 14:26	1
Sulfate (SM 4500 SO4 E)	**560**		100		mg/L			09/21/23 12:03	20

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

Job ID: 500-238830-1

Client Sample ID: MW-15

Date Collected: 08/30/23 09:32
Date Received: 08/31/23 10:05

Lab Sample ID: 500-238830-8

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0079**		0.0020		mg/L		09/05/23 08:00	09/21/23 00:03	1
Boron	**1.2**		0.10		mg/L		09/05/23 08:00	09/21/23 00:03	1
Barium	**0.050**		0.0020		mg/L		09/05/23 08:00	09/21/23 00:03	1
Beryllium	<0.0010		0.0010		mg/L		09/05/23 08:00	09/21/23 00:03	1
Calcium	**180**		0.50		mg/L		09/05/23 08:00	09/21/23 00:03	1
Cadmium	**0.00039**		0.00020		mg/L		09/05/23 08:00	09/21/23 17:41	1
Cobalt	**0.0018**		0.00050		mg/L		09/05/23 08:00	09/21/23 00:03	1
Chromium	<0.0050		0.0050		mg/L		09/05/23 08:00	09/21/23 00:03	1
Molybdenum	**0.097**		0.0020		mg/L		09/05/23 08:00	09/21/23 00:03	1
Lead	<0.00050		0.00050		mg/L		09/05/23 08:00	09/21/23 00:03	1
Antimony	<0.0020		0.0020		mg/L		09/05/23 08:00	09/21/23 00:03	1
Selenium	**0.021**		0.0050		mg/L		09/05/23 08:00	09/21/23 00:03	1
Thallium	<0.0010		0.0010		mg/L		09/05/23 08:00	09/21/23 17:41	1
Lithium	**0.022**		0.010		mg/L		09/05/23 08:00	09/21/23 00:03	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		09/12/23 11:54	09/13/23 12:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**1600**		10		mg/L			09/01/23 01:32	1
Chloride (SM 4500 Cl- E)	**280**		40		mg/L			09/14/23 14:57	20
Fluoride (SM 4500 F C)	**0.43**		0.10		mg/L			09/10/23 14:30	1
Sulfate (SM 4500 SO4 E)	**430**		50		mg/L			09/21/23 11:38	10

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

Job ID: 500-238830-1

Client Sample ID: MW-11

Date Collected: 08/30/23 14:43
Date Received: 08/31/23 10:05

Lab Sample ID: 500-238830-9

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.017**		0.0020		mg/L		09/05/23 08:00	09/21/23 00:07	1
Boron	**2.1**		0.10		mg/L		09/05/23 08:00	09/21/23 00:07	1
Barium	**0.17**		0.0020		mg/L		09/05/23 08:00	09/21/23 00:07	1
Beryllium	<0.0010		0.0010		mg/L		09/05/23 08:00	09/21/23 00:07	1
Calcium	**110**		0.50		mg/L		09/05/23 08:00	09/21/23 00:07	1
Cadmium	<0.00020		0.00020		mg/L		09/05/23 08:00	09/21/23 00:07	1
Cobalt	**0.0016**		0.00050		mg/L		09/05/23 08:00	09/21/23 00:07	1
Chromium	<0.0050		0.0050		mg/L		09/05/23 08:00	09/21/23 00:07	1
Molybdenum	**0.013**		0.0020		mg/L		09/05/23 08:00	09/21/23 00:07	1
Lead	<0.00050		0.00050		mg/L		09/05/23 08:00	09/21/23 00:07	1
Antimony	<0.0020		0.0020		mg/L		09/05/23 08:00	09/21/23 00:07	1
Selenium	<0.0050		0.0050		mg/L		09/05/23 08:00	09/21/23 00:07	1
Thallium	<0.0010		0.0010		mg/L		09/05/23 08:00	09/21/23 17:44	1
Lithium	<0.010		0.010		mg/L		09/05/23 08:00	09/21/23 00:07	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		09/14/23 10:57	09/15/23 10:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**760**		10		mg/L			09/01/23 01:34	1
Chloride (SM 4500 Cl- E)	**69**		4.0		mg/L			09/14/23 15:16	2
Fluoride (SM 4500 F C)	**0.54**		0.10		mg/L			09/10/23 14:34	1
Sulfate (SM 4500 SO4 E)	**87**		10		mg/L			09/21/23 11:38	2

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

Job ID: 500-238830-1

Client Sample ID: MW-12

Date Collected: 08/30/23 15:47
Date Received: 08/31/23 10:05

Lab Sample ID: 500-238830-10

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0096**		0.0020		mg/L		09/05/23 08:00	09/21/23 00:11	1
Boron	**0.50**		0.10		mg/L		09/05/23 08:00	09/21/23 00:11	1
Barium	**0.054**		0.0020		mg/L		09/05/23 08:00	09/21/23 00:11	1
Beryllium	<0.0010		0.0010		mg/L		09/05/23 08:00	09/21/23 00:11	1
Calcium	**91**		0.50		mg/L		09/05/23 08:00	09/21/23 00:11	1
Cadmium	<0.00020		0.00020		mg/L		09/05/23 08:00	09/21/23 00:11	1
Cobalt	<0.00050		0.00050		mg/L		09/05/23 08:00	09/21/23 00:11	1
Chromium	<0.0050		0.0050		mg/L		09/05/23 08:00	09/21/23 00:11	1
Molybdenum	**0.020**		0.0020		mg/L		09/05/23 08:00	09/21/23 00:11	1
Lead	<0.00050		0.00050		mg/L		09/05/23 08:00	09/21/23 00:11	1
Antimony	<0.0020		0.0020		mg/L		09/05/23 08:00	09/21/23 00:11	1
Selenium	<0.0050		0.0050		mg/L		09/05/23 08:00	09/21/23 00:11	1
Thallium	<0.0010		0.0010		mg/L		09/05/23 08:00	09/21/23 17:46	1
Lithium	<0.010		0.010		mg/L		09/05/23 08:00	09/21/23 00:11	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		09/14/23 10:57	09/15/23 10:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**1000**		10		mg/L			09/01/23 01:37	1
Chloride (SM 4500 Cl- E)	**170**		20		mg/L			09/14/23 14:52	10
Fluoride (SM 4500 F C)	**0.38**		0.10		mg/L			09/10/23 14:39	1
Sulfate (SM 4500 SO4 E)	**280**		50		mg/L			09/21/23 12:03	10

Definitions/Glossary

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

Job ID: 500-238830-1

Qualifiers

Metals

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
^-	Continuing Calibration Verification (CCV) is outside acceptance limits, low biased.

Glossary

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

Metals

Prep Batch: 398373

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238830-1	MW-08	Total Recoverable	Water	3005A	
500-238830-2	MW-01	Total Recoverable	Water	3005A	
500-238830-3	MW-19	Total Recoverable	Water	3005A	
500-238830-4	Duplicate	Total Recoverable	Water	3005A	
500-238830-5	MW-18	Total Recoverable	Water	3005A	
MB 310-398373/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 310-398373/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
500-238830-4 DU	Duplicate	Total Recoverable	Water	3005A	

Prep Batch: 398507

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238830-6	MW-09	Total Recoverable	Water	3005A	
500-238830-7	MW-17	Total Recoverable	Water	3005A	
500-238830-8	MW-15	Total Recoverable	Water	3005A	
500-238830-9	MW-11	Total Recoverable	Water	3005A	
500-238830-10	MW-12	Total Recoverable	Water	3005A	
MB 310-398507/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 310-398507/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 399305

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238830-1	MW-08	Total/NA	Water	7470A	
500-238830-2	MW-01	Total/NA	Water	7470A	
500-238830-3	MW-19	Total/NA	Water	7470A	
500-238830-4	Duplicate	Total/NA	Water	7470A	
500-238830-5	MW-18	Total/NA	Water	7470A	
500-238830-6	MW-09	Total/NA	Water	7470A	
500-238830-7	MW-17	Total/NA	Water	7470A	
500-238830-8	MW-15	Total/NA	Water	7470A	
MB 310-399305/1-A	Method Blank	Total/NA	Water	7470A	
LCS 310-399305/2-A	Lab Control Sample	Total/NA	Water	7470A	
500-238830-1 MS	MW-08	Total/NA	Water	7470A	
500-238830-1 MSD	MW-08	Total/NA	Water	7470A	

Analysis Batch: 399463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238830-1	MW-08	Total/NA	Water	7470A	399305
500-238830-2	MW-01	Total/NA	Water	7470A	399305
500-238830-3	MW-19	Total/NA	Water	7470A	399305
500-238830-4	Duplicate	Total/NA	Water	7470A	399305
500-238830-5	MW-18	Total/NA	Water	7470A	399305
500-238830-6	MW-09	Total/NA	Water	7470A	399305
500-238830-7	MW-17	Total/NA	Water	7470A	399305
500-238830-8	MW-15	Total/NA	Water	7470A	399305
MB 310-399305/1-A	Method Blank	Total/NA	Water	7470A	399305
LCS 310-399305/2-A	Lab Control Sample	Total/NA	Water	7470A	399305
500-238830-1 MS	MW-08	Total/NA	Water	7470A	399305
500-238830-1 MSD	MW-08	Total/NA	Water	7470A	399305

Metals

Prep Batch: 399566

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238830-9	MW-11	Total/NA	Water	7470A	
500-238830-10	MW-12	Total/NA	Water	7470A	
MB 310-399566/1-A	Method Blank	Total/NA	Water	7470A	
LCS 310-399566/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 399704

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238830-9	MW-11	Total/NA	Water	7470A	399566
500-238830-10	MW-12	Total/NA	Water	7470A	399566
MB 310-399566/1-A	Method Blank	Total/NA	Water	7470A	399566
LCS 310-399566/2-A	Lab Control Sample	Total/NA	Water	7470A	399566

Analysis Batch: 399821

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238830-1	MW-08	Total Recoverable	Water	6020B	398373
500-238830-2	MW-01	Total Recoverable	Water	6020B	398373
500-238830-3	MW-19	Total Recoverable	Water	6020B	398373
500-238830-5	MW-18	Total Recoverable	Water	6020B	398373
MB 310-398373/1-A	Method Blank	Total Recoverable	Water	6020B	398373
LCS 310-398373/2-A	Lab Control Sample	Total Recoverable	Water	6020B	398373
500-238830-4 DU	Duplicate	Total Recoverable	Water	6020B	398373

Analysis Batch: 400043

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238830-1	MW-08	Total Recoverable	Water	6020B	398373
500-238830-2	MW-01	Total Recoverable	Water	6020B	398373
500-238830-3	MW-19	Total Recoverable	Water	6020B	398373
500-238830-4	Duplicate	Total Recoverable	Water	6020B	398373
500-238830-5	MW-18	Total Recoverable	Water	6020B	398373
MB 310-398373/1-A	Method Blank	Total Recoverable	Water	6020B	398373
LCS 310-398373/2-A	Lab Control Sample	Total Recoverable	Water	6020B	398373
500-238830-4 DU	Duplicate	Total Recoverable	Water	6020B	398373

Analysis Batch: 400176

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238830-6	MW-09	Total Recoverable	Water	6020B	398507
500-238830-7	MW-17	Total Recoverable	Water	6020B	398507
500-238830-8	MW-15	Total Recoverable	Water	6020B	398507
500-238830-9	MW-11	Total Recoverable	Water	6020B	398507
500-238830-10	MW-12	Total Recoverable	Water	6020B	398507
MB 310-398507/1-A	Method Blank	Total Recoverable	Water	6020B	398507
LCS 310-398507/2-A	Lab Control Sample	Total Recoverable	Water	6020B	398507

Analysis Batch: 400290

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 310-398373/2-A	Lab Control Sample	Total Recoverable	Water	6020B	398373

Analysis Batch: 400337

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238830-6	MW-09	Total Recoverable	Water	6020B	398507
500-238830-7	MW-17	Total Recoverable	Water	6020B	398507

Metals (Continued)

Analysis Batch: 400337 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238830-8	MW-15	Total Recoverable	Water	6020B	398507
500-238830-9	MW-11	Total Recoverable	Water	6020B	398507
500-238830-10	MW-12	Total Recoverable	Water	6020B	398507
MB 310-398507/1-A	Method Blank	Total Recoverable	Water	6020B	398507

Analysis Batch: 400466

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 310-398507/2-A	Lab Control Sample	Total Recoverable	Water	6020B	398507

General Chemistry

Analysis Batch: 730464

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238830-1	MW-08	Total/NA	Water	SM 2540C	
500-238830-2	MW-01	Total/NA	Water	SM 2540C	
500-238830-3	MW-19	Total/NA	Water	SM 2540C	
500-238830-4	Duplicate	Total/NA	Water	SM 2540C	
500-238830-5	MW-18	Total/NA	Water	SM 2540C	
500-238830-6	MW-09	Total/NA	Water	SM 2540C	
500-238830-7	MW-17	Total/NA	Water	SM 2540C	
500-238830-8	MW-15	Total/NA	Water	SM 2540C	
500-238830-9	MW-11	Total/NA	Water	SM 2540C	
500-238830-10	MW-12	Total/NA	Water	SM 2540C	
MB 500-730464/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-730464/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-238830-1 MS	MW-08	Total/NA	Water	SM 2540C	
500-238830-1 DU	MW-08	Total/NA	Water	SM 2540C	
500-238830-2 DU	MW-01	Total/NA	Water	SM 2540C	

Analysis Batch: 731562

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238830-1	MW-08	Total/NA	Water	SM 4500 F C	
500-238830-2	MW-01	Total/NA	Water	SM 4500 F C	
500-238830-3	MW-19	Total/NA	Water	SM 4500 F C	
500-238830-4	Duplicate	Total/NA	Water	SM 4500 F C	
500-238830-5	MW-18	Total/NA	Water	SM 4500 F C	
500-238830-6	MW-09	Total/NA	Water	SM 4500 F C	
500-238830-7	MW-17	Total/NA	Water	SM 4500 F C	
500-238830-8	MW-15	Total/NA	Water	SM 4500 F C	
500-238830-9	MW-11	Total/NA	Water	SM 4500 F C	
500-238830-10	MW-12	Total/NA	Water	SM 4500 F C	
MB 500-731562/31	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-731562/32	Lab Control Sample	Total/NA	Water	SM 4500 F C	

Analysis Batch: 731959

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238830-1	MW-08	Total/NA	Water	SM 4500 Cl- E	
MB 500-731959/16	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 500-731959/17	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	

General Chemistry

Analysis Batch: 732370

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238830-2	MW-01	Total/NA	Water	SM 4500 Cl- E	
500-238830-3	MW-19	Total/NA	Water	SM 4500 Cl- E	
500-238830-4	Duplicate	Total/NA	Water	SM 4500 Cl- E	
500-238830-5	MW-18	Total/NA	Water	SM 4500 Cl- E	
500-238830-6	MW-09	Total/NA	Water	SM 4500 Cl- E	
500-238830-7	MW-17	Total/NA	Water	SM 4500 Cl- E	
500-238830-8	MW-15	Total/NA	Water	SM 4500 Cl- E	
500-238830-9	MW-11	Total/NA	Water	SM 4500 Cl- E	
500-238830-10	MW-12	Total/NA	Water	SM 4500 Cl- E	
MB 500-732370/16	Method Blank	Total/NA	Water	SM 4500 Cl- E	
MB 500-732370/58	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 500-732370/17	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
LCS 500-732370/59	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 733424

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238830-1	MW-08	Total/NA	Water	SM 4500 SO4 E	
500-238830-2	MW-01	Total/NA	Water	SM 4500 SO4 E	
500-238830-3	MW-19	Total/NA	Water	SM 4500 SO4 E	
500-238830-4	Duplicate	Total/NA	Water	SM 4500 SO4 E	
500-238830-5	MW-18	Total/NA	Water	SM 4500 SO4 E	
500-238830-6	MW-09	Total/NA	Water	SM 4500 SO4 E	
500-238830-7	MW-17	Total/NA	Water	SM 4500 SO4 E	
500-238830-8	MW-15	Total/NA	Water	SM 4500 SO4 E	
500-238830-9	MW-11	Total/NA	Water	SM 4500 SO4 E	
500-238830-10	MW-12	Total/NA	Water	SM 4500 SO4 E	
MB 500-733424/16	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-733424/17	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 310-398373/1-A
Matrix: Water
Analysis Batch: 399821

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 398373

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0020		0.0020		mg/L		09/01/23 09:00	09/15/23 18:58	1
Barium	<0.0020		0.0020		mg/L		09/01/23 09:00	09/15/23 18:58	1
Beryllium	<0.0010		0.0010		mg/L		09/01/23 09:00	09/15/23 18:58	1
Calcium	<0.50		0.50		mg/L		09/01/23 09:00	09/15/23 18:58	1
Cadmium	<0.00020		0.00020		mg/L		09/01/23 09:00	09/15/23 18:58	1
Cobalt	<0.00050		0.00050		mg/L		09/01/23 09:00	09/15/23 18:58	1
Chromium	<0.0050		0.0050		mg/L		09/01/23 09:00	09/15/23 18:58	1
Molybdenum	<0.0020		0.0020		mg/L		09/01/23 09:00	09/15/23 18:58	1
Selenium	<0.0050		0.0050		mg/L		09/01/23 09:00	09/15/23 18:58	1
Lithium	<0.010		0.010		mg/L		09/01/23 09:00	09/15/23 18:58	1

Lab Sample ID: MB 310-398373/1-A
Matrix: Water
Analysis Batch: 400043

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 398373

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.10		0.10		mg/L		09/01/23 09:00	09/19/23 17:38	1
Lead	<0.00050		0.00050		mg/L		09/01/23 09:00	09/19/23 17:38	1
Antimony	<0.0020		0.0020		mg/L		09/01/23 09:00	09/19/23 17:38	1
Thallium	<0.0010		0.0010		mg/L		09/01/23 09:00	09/19/23 17:38	1

Lab Sample ID: LCS 310-398373/2-A
Matrix: Water
Analysis Batch: 399821

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 398373

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.200	0.196		mg/L		98	80 - 120
Barium	0.100	0.0971		mg/L		97	80 - 120
Beryllium	0.100	0.0938		mg/L		94	80 - 120
Calcium	2.00	1.86		mg/L		93	80 - 120
Cadmium	0.100	0.0926		mg/L		93	80 - 120
Cobalt	0.100	0.0976		mg/L		98	80 - 120
Chromium	0.100	0.0978		mg/L		98	80 - 120
Molybdenum	0.200	0.197		mg/L		99	80 - 120
Selenium	0.400	0.371		mg/L		93	80 - 120
Lithium	0.200	0.192		mg/L		96	80 - 120

Lab Sample ID: LCS 310-398373/2-A
Matrix: Water
Analysis Batch: 400043

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 398373

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	0.200	0.197		mg/L		99	80 - 120
Lead	0.200	0.223		mg/L		111	80 - 120
Antimony	0.200	0.230		mg/L		115	80 - 120

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

Lab Sample ID: LCS 310-398373/2-A
Matrix: Water
Analysis Batch: 400290

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 398373

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Thallium			0.200	0.175		mg/L		88	80 - 120		

Lab Sample ID: 500-238830-4 DU
Matrix: Water
Analysis Batch: 399821

Client Sample ID: Duplicate
Prep Type: Total Recoverable
Prep Batch: 398373

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Calcium	81			78.5		mg/L				4	20
Thallium	<0.0010	^-		<0.0010	^-	mg/L				NC	20

Lab Sample ID: 500-238830-4 DU
Matrix: Water
Analysis Batch: 400043

Client Sample ID: Duplicate
Prep Type: Total Recoverable
Prep Batch: 398373

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Arsenic	<0.0020			<0.0020	*+	mg/L				NC	20
Boron	3.1			3.11	*+	mg/L				0.2	20
Barium	0.071			0.0715	*+	mg/L				0.3	20
Beryllium	<0.0010			<0.0010	*+	mg/L				NC	20
Calcium	92			93.9		mg/L				2	20
Cadmium	<0.00020			<0.00020	*+	mg/L				NC	20
Cobalt	<0.00050			<0.00050	*+	mg/L				NC	20
Chromium	<0.0050			<0.0050	*+	mg/L				NC	20
Molybdenum	0.032			0.0322	*+	mg/L				0.3	20
Lead	<0.00050			<0.00050	*+	mg/L				NC	20
Antimony	<0.0020			<0.0020	*+	mg/L				NC	20
Selenium	0.0053			0.00533	*+	mg/L				0.09	20
Lithium	<0.010			<0.010	*+	mg/L				NC	20

Lab Sample ID: MB 310-398507/1-A
Matrix: Water
Analysis Batch: 400176

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 398507

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0020		0.0020		mg/L		09/05/23 08:00	09/20/23 23:03	1
Boron	<0.10		0.10		mg/L		09/05/23 08:00	09/20/23 23:03	1
Barium	<0.0020		0.0020		mg/L		09/05/23 08:00	09/20/23 23:03	1
Beryllium	<0.0010		0.0010		mg/L		09/05/23 08:00	09/20/23 23:03	1
Calcium	<0.50		0.50		mg/L		09/05/23 08:00	09/20/23 23:03	1
Cadmium	<0.00020		0.00020		mg/L		09/05/23 08:00	09/20/23 23:03	1
Cobalt	<0.00050		0.00050		mg/L		09/05/23 08:00	09/20/23 23:03	1
Chromium	<0.0050		0.0050		mg/L		09/05/23 08:00	09/20/23 23:03	1
Molybdenum	<0.0020		0.0020		mg/L		09/05/23 08:00	09/20/23 23:03	1
Lead	<0.00050		0.00050		mg/L		09/05/23 08:00	09/20/23 23:03	1
Antimony	<0.0020		0.0020		mg/L		09/05/23 08:00	09/20/23 23:03	1
Selenium	<0.0050		0.0050		mg/L		09/05/23 08:00	09/20/23 23:03	1
Lithium	<0.010		0.010		mg/L		09/05/23 08:00	09/20/23 23:03	1

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

Lab Sample ID: MB 310-398507/1-A
Matrix: Water
Analysis Batch: 400337

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 398507

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0010		0.0010		mg/L		09/05/23 08:00	09/21/23 17:02	1

Lab Sample ID: LCS 310-398507/2-A
Matrix: Water
Analysis Batch: 400176

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 398507

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.200	0.201		mg/L		100	80 - 120
Boron	0.200	0.189		mg/L		94	80 - 120
Barium	0.100	0.0923		mg/L		92	80 - 120
Beryllium	0.100	0.0909		mg/L		91	80 - 120
Calcium	2.00	1.85		mg/L		93	80 - 120
Cadmium	0.100	0.0879		mg/L		88	80 - 120
Cobalt	0.100	0.0992		mg/L		99	80 - 120
Chromium	0.100	0.0955		mg/L		96	80 - 120
Molybdenum	0.200	0.179		mg/L		90	80 - 120
Lead	0.200	0.207		mg/L		104	80 - 120
Antimony	0.200	0.195		mg/L		98	80 - 120
Selenium	0.400	0.377		mg/L		94	80 - 120
Lithium	0.200	0.190		mg/L		95	80 - 120

Lab Sample ID: LCS 310-398507/2-A
Matrix: Water
Analysis Batch: 400466

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 398507

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Thallium	0.200	0.162		mg/L		81	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 310-399305/1-A
Matrix: Water
Analysis Batch: 399463

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 399305

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		09/12/23 11:54	09/13/23 11:34	1

Lab Sample ID: LCS 310-399305/2-A
Matrix: Water
Analysis Batch: 399463

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 399305

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00167	0.00184		mg/L		111	80 - 120

Lab Sample ID: 500-238830-1 MS
Matrix: Water
Analysis Batch: 399463

Client Sample ID: MW-08
Prep Type: Total/NA
Prep Batch: 399305

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.00020		0.00167	0.00178		mg/L		107	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: 500-238830-1 MSD
Matrix: Water
Analysis Batch: 399463

Client Sample ID: MW-08
Prep Type: Total/NA
Prep Batch: 399305

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.00020		0.00167	0.00174		mg/L		104	80 - 120	2	20

Lab Sample ID: MB 310-399566/1-A
Matrix: Water
Analysis Batch: 399704

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 399566

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		09/14/23 10:57	09/15/23 10:35	1

Lab Sample ID: LCS 310-399566/2-A
Matrix: Water
Analysis Batch: 399704

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 399566

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			0.00167	0.00163		mg/L		98	80 - 120		

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

Lab Sample ID: MB 500-730464/1
Matrix: Water
Analysis Batch: 730464

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			09/01/23 01:01	1

Lab Sample ID: LCS 500-730464/2
Matrix: Water
Analysis Batch: 730464

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	242		mg/L		97	80 - 120		

Lab Sample ID: 500-238830-1 MS
Matrix: Water
Analysis Batch: 730464

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids	700		250	1010		mg/L		123	75 - 125		

Lab Sample ID: 500-238830-1 DU
Matrix: Water
Analysis Batch: 730464

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

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	700			678		mg/L				4	5

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

Lab Sample ID: 500-238830-2 DU
Matrix: Water
Analysis Batch: 730464

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	520		540		mg/L		3	5

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 500-731959/16
Matrix: Water
Analysis Batch: 731959

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			09/12/23 17:03	1

Lab Sample ID: LCS 500-731959/17
Matrix: Water
Analysis Batch: 731959

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

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

Lab Sample ID: MB 500-732370/16
Matrix: Water
Analysis Batch: 732370

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			09/14/23 14:05	1

Lab Sample ID: MB 500-732370/58
Matrix: Water
Analysis Batch: 732370

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			09/14/23 14:51	1

Lab Sample ID: LCS 500-732370/17
Matrix: Water
Analysis Batch: 732370

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	21.6		mg/L		108	85 - 115

Lab Sample ID: LCS 500-732370/59
Matrix: Water
Analysis Batch: 732370

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	21.6		mg/L		108	85 - 115

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-731562/31
Matrix: Water
Analysis Batch: 731562

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			09/10/23 12:29	1

Lab Sample ID: LCS 500-731562/32
Matrix: Water
Analysis Batch: 731562

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	10.2		mg/L		102	90 - 119

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 500-733424/16
Matrix: Water
Analysis Batch: 733424

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			09/21/23 11:15	1

Lab Sample ID: LCS 500-733424/17
Matrix: Water
Analysis Batch: 733424

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	20.0	20.6		mg/L		103	88 - 123

Chain of Custody

ress.

TAL-8210

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Diana Mockler	Site Contact:	Date:	COC No
Company Name KPRG and Associates	Tel/Email: Diana.Mockler@et.eurofinsus.com	Lab Contact:	Carrier:	___ of ___ COCs
Address 14665 W. Lisbon Rd	Analysis Turnaround Time			Sampler:
City/State/Zip Brookfield, WI, 53005	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone 262-781-0475	TAT if different from Below Standard			Walk-in Client:
Fax.	☐ 2 weeks			Lab Sampling
Project Name Powerton CCR ABB/ASB	☐ 1 week			Job / SDG No
Site	☐ 2 days		500-238830 COC	500-238830
P O #	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Boron 6020	Radium 226/228	Total Metals	TDS	Sulfate	Chloride, fluoride	Sample Specific Notes
1	MW-08	8/29/23	1121	G	W	7	N	N		X	X	X	X	X	
2	MW-01	8/29/23	1220	↓	↓	↓	N	N		↓	↓	↓	↓	↓	
3	MW-19	8/29/23	1455	↓	↓	↓	N	N		↓	↓	↓	↓	↓	
4	Duplicate	8/29/23	—	↓	↓	↓	N	N		↓	↓	↓	↓	↓	
5	MW-18	8/29	1547	↓	↓	↓	N	N		↓	↓	↓	↓	↓	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= ... 5=NaOH; 6= Other None | 4 | 4 | 6 | 6 | 6

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☒ Non-Hazard ☐ Flammable ☐ Skin ... ☐ ...son B ☐ Unknown

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

☐ Return to Client ☒ Disposal by Lab ☐ Archive for ________ Months

Special Instructions/QC Requirements & Comments:

2.2 → 1.8, 1.0 → 0.7

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No | Cooler Temp (°C) Obs'd ______ Corr'd: ______ | Therm ID No. ______

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Kaitlyn Ornale		8/29/23 / 1720			
Relinquished by	Company	Date/Time:	Received by:	Company:	Date/Time
Relinquished by:		Date/Time	Received in Laboratory by: [signature]	Company: EETA	Date/Time 8/30/23 1015

Chain of Custody Record

667593 eurofins | Environment Testing America

Address: _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other: TAL-8210

Client Contact	Project Manager: Diana Mackie	Site Contact:	Date:	COC No
Company Name: KPRG and Associates	Tel/Email: Diana.Mackie@et.eurofinsus.com	Lab Contact:	Carrier:	1 of 1 COCs
Address: 14065 W Lisbon Rd	Analysis Turnaround Time			Sampler:
City/State/Zip: Brookfield, WI 53005	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 262-781-0475	TAT if different from Below: Standard			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: Powerton CCR - ABB/ASB	☐ 1 week			Job / SDG No: 500-238830
Site:	☐ 2 days			
PO #: ~~Powerton CCR - ABB/ASB~~	☐ 1 day		500-238830 COC	

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	904.0, 9030 Radium 226/228	Total Metals	TDS	Sulfate	chloride, fluoride	Sample Specific Notes
6 MW-09	8/30/23	1344	G	W	7	N	N	X	X	X	X	X	
7 MW-17	8/30/23	1118	G	W	7	N	N	X	X	X	X	X	
8 MW-15	8/30/23	0932	G	W	7	N	N	X	X	X	X	X	
9 MW-11	8/30/23	1443	G	W	7	N	N	X	X	X	X	X	
10 MW-12	8/30/23	1547	G	W	7	N	N	X	X	X	X	X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other: None — H 4 6 6 6

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

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

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

1.5→1.4 1.9→1.6

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No	Cooler Temp (°C) Obs'd	Corr'd	Therm ID No

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Kaelyn Ambler	KPRG	8/30/23/1800			
Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company	Date/Time
			John Loots	EETA	8/31/23 1005

ORIGIN ID:PIAA (262) 278-1621
KAELYN SPERLE
KPRG AND ASSOCIATES
414 PLAZA DR STE 106

WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 29AUG23
ACTWGT: 61.75 LB
CAD: 6994780/SSFE2422
DIMS: 24x13x14 IN

BILL THIRD PARTY

Part # 156297-435 RRDB2 EXP 04/24

TO EUROFINS CHICAGO

2417 BOND ST.

UNIVERSITY PARK IL 60484
(555) 555-5555 REF:
INV:
PO: DEPT:

2,

500-238830 Waybi

FedEx
Express
E

J233123073101uv

1 of 4
TRK# 0201 7830 9817 4786
MASTER

WED - 30 AUG 10:30A
PRIORITY OVERNIGHT

XN JOTA

AHS
60484
IL-US ORD

ORIGIN ID:PIAA (262) 278-1621
KAELYN SPERLE
KPRG AND ASSOCIATES
414 PLAZA DR STE 106

WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 29AUG23
ACTWGT: 61.75 LB
CAD: ...E2422

Part # 156297-435 RRDB2 EXP 04/24

TO EUROFINS CHIC

RT 519
ST 18

5
10:30

A
4812
08 30

2417 BOND ST.

UNIVERSITY PARK IL 60484
(555) 555-5555 REF:
INV:
PO: DEPT:

1.0→0.7

FedEx
Express
E

J233123073101uv

4 of 4
MPS# 0263 7830 9817 4812
Mstr# 7830 9817 4786

WED - 30 AUG 10:30A
PRIORITY OVERNIGHT

0201

XN JOTA

AHS
60484
IL-US ORD

ORIGIN ID:PIAA (262) 278-1621
KAELYN SPERLE
KPRG AND ASSOCIATES
414 PLAZA DR STE 106

WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 30AUG23
ACTWGT: 45.30 LB
CAD: 6994780/SSFE2422
DIMS: 24x13x15 IN

BILL THIRD PARTY

TO EUROFINS CHICAGO

2417 BOND ST.

UNIVERSITY PARK IL 60484
(555) 555-5555 REF:
INV:
PO: DEPT:

1-5-712

500-238830 Waybi

dEx
Express

E

J233123073101uv

Part # 156297-436 RRDB EXP 04/24

5 of 5
MPS# 0263 7831 4952 6481
Mstr# 7831 4952 6448 0201
XN JOTA

THU - 31 AUG 10:30A
PRIORITY OVERNIGHT
AHS
60484
IL-US ORD

ORIGIN ID:PIAA (262) 278-1621
KAELYN SPERLE
KPRG AND ASSOCIATES
414 PLAZA DR STE 106

WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 30AUG23
ACTWGT: 45.80 LB
CAD: 6994780/SSFE2422
DIMS: 24x13x15 IN

BILL THIRD PARTY

TO EUROFINS CHICAGO

2417 BOND ST.

UNIVERSITY PARK IL 60484
(555) 555-5555 REF:
INV:
PO: DEPT:

1-9-716

FedEx
Express

E

J233123073101uv

Part # 156297-436 RRDB EXP 04/24

3 of 5
MPS# 0263 7831 4952 6460
Mstr# 7831 4952 6448 0201
XN JOTA

THU - 31 AUG 10:30A
PRIORITY OVERNIGHT
AHS
60484
IL-US ORD

08 31
6460
A 10:30
5
ST 25
RT 519

eurofins | Environment Testing America

500-238830 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: Chicago

City/State: CITY | STATE: IL | Project:

Receipt Information

Date/Time Received: DATE: 8-31-23 | TIME: 1000 | Received By: MC

Delivery Type: ☐ UPS ☒ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee
☐ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other:_____

Condition of Cooler/Containers

Sample(s) received in Cooler? ☒ Yes ☐ No *If yes:* Cooler ID:

Multiple Coolers? ☐ Yes ☒ No *If yes:* Cooler # _____ of _____

Cooler Custody Seals Present? ☒ Yes ☐ No *If yes:* Cooler custody seals intact? ☒ Yes ☐ No

Sample Custody Seals Present? ☐ Yes ☒ No *If yes:* Sample custody seals intact? ☐ Yes ☐ No

Trip Blank Present? ☐ Yes ☒ No *If yes:* Which VOA samples are in cooler? ↓

Temperature Record

Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other:_____ ☐ NONE

Thermometer ID: R | Correction Factor (°C): 0

• **Temp Blank Temperature** – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature

Uncorrected Temp (°C): — | Corrected Temp (°C): —

• **Sample Container Temperature**

	CONTAINER 1	CONTAINER 2
Container(s) used:	250mL plastic	
Uncorrected Temp (°C):	0.7	
Corrected Temp (°C):	0.7	

Exceptions Noted

1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No
   a) *If yes:* Is there evidence that the chilling process began? ☐ Yes ☐ No

2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No

NOTE. If yes, contact PM before proceeding. If no, proceed with login

Additional Comments

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

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Mockler, Diana J	Carrier Tracking No(s):	COC No: 500-178460 1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Diana Mockler@et.eurofinsus com	State of Origin: Illinois	Page: Page 1 of 1
Company: Eurofins Environment Testing North Centr		Accreditations Required (See note): NELAP - Illinois		Job #: 500-238830-1
Address: 3019 Venture Way, ,	Due Date Requested: 9/20/2023			
City: Cedar Falls	TAT Requested (days):			
State, Zip: IA, 50613				
Phone: 319-277-2401(Tel) 319-277-2425(Fax)	PO #:			
Email:	WO #:			
Project Name: Powerton CCR	Project #: 50011612			
Site: MWG - Powerton	SSOW#:			

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

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020B/3005A (MOD) 14 Metals	7470A/7470A_Prep Mercury	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
MW-08 (500-238830-1)	8/29/23	11:21 Central		Water			X	X	1	
MW-01 (500-238830-2)	8/29/23	12:20 Central		Water			X	X	1	
MW-19 (500-238830-3)	8/29/23	14.55 Central		Water			X	X	1	
Duplicate (500-238830-4)	8/29/23	Central		Water			X	X	1	
MW-18 (500-238830-5)	8/29/23	15 47 Central		Water			X	X	1	

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

Possible Hazard Identification *Unconfirmed*	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)* ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For ________ Months*	
Deliverable Requested I, II, III, IV, Other (specify) Primary Deliverable Rank. 2	Special Instructions/QC Requirements	
Empty Kit Relinquished by:	Date	Time / Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by: [signature]	Date/Time: 8/30/23 1510	Company	Received by: MC	Date/Time: 8-31-23 1000	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No | Cooler Temperature(s) °C and Other Remarks.

eurofins | Environment Testing America

500-238830 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: Chicago

City/State: CITY | STATE IL | Project:

Receipt Information

Date/Time Received: DATE 9-1-23 | TIME 1000 | Received By: MC

Delivery Type: ☐ UPS ☒ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee
☐ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other:_____

Condition of Cooler/Containers

Sample(s) received in Cooler?	☒ Yes	☐ No	*If yes:* Cooler ID:
Multiple Coolers?	☐ Yes	☒ No	*If yes:* Cooler # _____ of _____
Cooler Custody Seals Present? No	☒ Yes	☐ No	*If yes:* Cooler custody seals intact? ☒ Yes ☐
Sample Custody Seals Present? No	☐ Yes	☒ No	*If yes:* Sample custody seals intact? ☐ Yes ☐
Trip Blank Present?	☐ Yes	☒ No	*If yes:* Which VOA samples are in cooler? ↓

Temperature Record

Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other:_____ ☐ NONE

Thermometer ID: R | Correction Factor (°C): 0

• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature

Uncorrected Temp (°C): — | Corrected Temp (°C): —

• Sample Container Temperature

	CONTAINER 1	CONTAINER 2
Container(s) used:	250 mL plastic	
Uncorrected Temp (°C):	1.9	
Corrected Temp (°C):	1.9	

Exceptions Noted

1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No
   a) *If yes:* Is there evidence that the chilling process began? ☐ Yes ☐ No

2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No

NOTE: If yes, contact PM before proceeding. If no, proceed with login

Additional Comments

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

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler	Lab PM: Mockler, Diana J	Carrier Tracking No(s):	COC No: 500-178516 1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Diana Mockler@et.eurofinsus com	State of Origin: Illinois	Page: Page 1 of 1
Company: Eurofins Environment Testing North Centr		Accreditations Required (See note): NELAP - Illinois		Job #: 500-238830-1
Address: 3019 Venture Way, ,	Due Date Requested: 9/20/2023			
City: Cedar Falls	TAT Requested (days):			
State, Zip: IA, 50613				
Phone: 319-277-2401(Tel) 319-277-2425(Fax)	PO #:			
Email:	WO #:			
Project Name: Powerton CCR ABB/ASB	Project #: 50011612			
Site: MWG - Powerton	SSOW#:			

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

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020B/3005A (MOD) 14 Metals	7470A/7470A_Prep Mercury	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
MW-09 (500-238830-6)	8/30/23	13 44 Central		Water			X	X	1	
MW-17 (500-238830-7)	8/30/23	11 18 Central		Water			X	X	1	
MW-15 (500-238830-8)	8/30/23	09.32 Central		Water			X	X	1	
MW-11 (500-238830-9)	8/30/23	14 43 Central		Water			X	X	1	
MW-12 (500-238830-10)	8/30/23	15 47 Central		Water			X	X	1	

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

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested I, II, III, IV, Other (specify) Primary Deliverable Rank. 2	Special Instructions/QC Requirements

Empty Kit Relinquished by:	Date	Time	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Shan Scott	8/31/23 1600		MC	9-1-23 1000	
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-238830-1

Login Number: 238830
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	1.8,0.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <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: 500-238830-1

Login Number: 238830
List Number: 3
Creator: Costello, Mackenzie K

List Source: Eurofins Cedar Falls
List Creation: 08/31/23 12:15 PM

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

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-238830-1

Login Number: 238830
List Number: 4
Creator: Costello, Mackenzie K

List Source: Eurofins Cedar Falls
List Creation: 09/01/23 10:55 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
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?	False	Received project as a subcontract.
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 ABB/ASB

Job ID: 500-238830-1

Client Sample ID: MW-08
Date Collected: 08/29/23 11:21
Date Received: 08/30/23 10:10

Lab Sample ID: 500-238830-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			398373	KCK5	EET CF	09/01/23 09:00
Total Recoverable	Analysis	6020B		1	399821	DHM5	EET CF	09/15/23 20:06
Total Recoverable	Prep	3005A			398373	KCK5	EET CF	09/01/23 09:00
Total Recoverable	Analysis	6020B		1	400043	A6US	EET CF	09/19/23 18:16
Total/NA	Prep	7470A			399305	NFT2	EET CF	09/12/23 11:54
Total/NA	Analysis	7470A		1	399463	NFT2	EET CF	09/13/23 12:13
Total/NA	Analysis	SM 2540C		1	730464	CLB	EET CHI	09/01/23 01:06
Total/NA	Analysis	SM 4500 Cl- E		10	731959	MM	EET CHI	09/12/23 17:04
Total/NA	Analysis	SM 4500 F C		1	731562	EH	EET CHI	09/10/23 13:19
Total/NA	Analysis	SM 4500 SO4 E		1	733424	TR	EET CHI	09/21/23 11:15

Client Sample ID: MW-01
Date Collected: 08/29/23 12:20
Date Received: 08/30/23 10:10

Lab Sample ID: 500-238830-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			398373	KCK5	EET CF	09/01/23 09:00
Total Recoverable	Analysis	6020B		1	399821	DHM5	EET CF	09/15/23 20:09
Total Recoverable	Prep	3005A			398373	KCK5	EET CF	09/01/23 09:00
Total Recoverable	Analysis	6020B		1	400043	A6US	EET CF	09/19/23 18:18
Total/NA	Prep	7470A			399305	NFT2	EET CF	09/12/23 11:54
Total/NA	Analysis	7470A		1	399463	NFT2	EET CF	09/13/23 12:19
Total/NA	Analysis	SM 2540C		1	730464	CLB	EET CHI	09/01/23 01:13
Total/NA	Analysis	SM 4500 Cl- E		2	732370	TR	EET CHI	09/14/23 14:33
Total/NA	Analysis	SM 4500 F C		1	731562	EH	EET CHI	09/10/23 13:24
Total/NA	Analysis	SM 4500 SO4 E		1	733424	TR	EET CHI	09/21/23 11:15

Client Sample ID: MW-19
Date Collected: 08/29/23 14:55
Date Received: 08/30/23 10:10

Lab Sample ID: 500-238830-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			398373	KCK5	EET CF	09/01/23 09:00
Total Recoverable	Analysis	6020B		1	399821	DHM5	EET CF	09/15/23 20:13
Total Recoverable	Prep	3005A			398373	KCK5	EET CF	09/01/23 09:00
Total Recoverable	Analysis	6020B		1	400043	A6US	EET CF	09/19/23 18:21
Total/NA	Prep	7470A			399305	NFT2	EET CF	09/12/23 11:54
Total/NA	Analysis	7470A		1	399463	NFT2	EET CF	09/13/23 12:21
Total/NA	Analysis	SM 2540C		1	730464	CLB	EET CHI	09/01/23 01:19
Total/NA	Analysis	SM 4500 Cl- E		1	732370	TR	EET CHI	09/14/23 14:09
Total/NA	Analysis	SM 4500 F C		1	731562	EH	EET CHI	09/10/23 13:29
Total/NA	Analysis	SM 4500 SO4 E		5	733424	TR	EET CHI	09/21/23 12:02

Lab Chronicle

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

Job ID: 500-238830-1

Client Sample ID: Duplicate

Lab Sample ID: 500-238830-4

Date Collected: 08/29/23 00:00
Matrix: Water
Date Received: 08/30/23 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			398373	KCK5	EET CF	09/01/23 09:00
Total Recoverable	Analysis	6020B		1	400043	A6US	EET CF	09/19/23 18:23
Total/NA	Prep	7470A			399305	NFT2	EET CF	09/12/23 11:54
Total/NA	Analysis	7470A		1	399463	NFT2	EET CF	09/13/23 12:23
Total/NA	Analysis	SM 2540C		1	730464	CLB	EET CHI	09/01/23 01:21
Total/NA	Analysis	SM 4500 Cl- E		1	732370	TR	EET CHI	09/14/23 14:56
Total/NA	Analysis	SM 4500 F C		1	731562	EH	EET CHI	09/10/23 13:34
Total/NA	Analysis	SM 4500 SO4 E		5	733424	TR	EET CHI	09/21/23 11:36

Client Sample ID: MW-18

Lab Sample ID: 500-238830-5

Date Collected: 08/29/23 15:47
Matrix: Water
Date Received: 08/30/23 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			398373	KCK5	EET CF	09/01/23 09:00
Total Recoverable	Analysis	6020B		1	399821	DHM5	EET CF	09/15/23 20:38
Total Recoverable	Prep	3005A			398373	KCK5	EET CF	09/01/23 09:00
Total Recoverable	Analysis	6020B		1	400043	A6US	EET CF	09/19/23 18:27
Total/NA	Prep	7470A			399305	NFT2	EET CF	09/12/23 11:54
Total/NA	Analysis	7470A		1	399463	NFT2	EET CF	09/13/23 12:26
Total/NA	Analysis	SM 2540C		1	730464	CLB	EET CHI	09/01/23 01:24
Total/NA	Analysis	SM 4500 Cl- E		10	732370	TR	EET CHI	09/14/23 14:09
Total/NA	Analysis	SM 4500 F C		1	731562	EH	EET CHI	09/10/23 13:39
Total/NA	Analysis	SM 4500 SO4 E		5	733424	TR	EET CHI	09/21/23 11:37

Client Sample ID: MW-09

Lab Sample ID: 500-238830-6

Date Collected: 08/30/23 13:44
Matrix: Water
Date Received: 08/31/23 10:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			398507	QTZ5	EET CF	09/05/23 08:00
Total Recoverable	Analysis	6020B		1	400176	DHM5	EET CF	09/20/23 23:56
Total Recoverable	Prep	3005A			398507	QTZ5	EET CF	09/05/23 08:00
Total Recoverable	Analysis	6020B		1	400337	DHM5	EET CF	09/21/23 17:37
Total/NA	Prep	7470A			399305	NFT2	EET CF	09/12/23 11:54
Total/NA	Analysis	7470A		1	399463	NFT2	EET CF	09/13/23 12:28
Total/NA	Analysis	SM 2540C		1	730464	CLB	EET CHI	09/01/23 01:26
Total/NA	Analysis	SM 4500 Cl- E		1	732370	TR	EET CHI	09/14/23 14:52
Total/NA	Analysis	SM 4500 F C		1	731562	EH	EET CHI	09/10/23 14:21
Total/NA	Analysis	SM 4500 SO4 E		5	733424	TR	EET CHI	09/21/23 11:37

Lab Chronicle

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

Job ID: 500-238830-1

Client Sample ID: MW-17

Date Collected: 08/30/23 11:18
Date Received: 08/31/23 10:05

Lab Sample ID: 500-238830-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			398507	QTZ5	EET CF	09/05/23 08:00
Total Recoverable	Analysis	6020B		1	400176	DHM5	EET CF	09/21/23 00:00
Total Recoverable	Prep	3005A			398507	QTZ5	EET CF	09/05/23 08:00
Total Recoverable	Analysis	6020B		1	400337	DHM5	EET CF	09/21/23 17:39
Total/NA	Prep	7470A			399305	NFT2	EET CF	09/12/23 11:54
Total/NA	Analysis	7470A		1	399463	NFT2	EET CF	09/13/23 12:30
Total/NA	Analysis	SM 2540C		1	730464	CLB	EET CHI	09/01/23 01:29
Total/NA	Analysis	SM 4500 Cl- E		10	732370	TR	EET CHI	09/14/23 14:57
Total/NA	Analysis	SM 4500 F C		1	731562	EH	EET CHI	09/10/23 14:26
Total/NA	Analysis	SM 4500 SO4 E		20	733424	TR	EET CHI	09/21/23 12:03

Client Sample ID: MW-15

Date Collected: 08/30/23 09:32
Date Received: 08/31/23 10:05

Lab Sample ID: 500-238830-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			398507	QTZ5	EET CF	09/05/23 08:00
Total Recoverable	Analysis	6020B		1	400176	DHM5	EET CF	09/21/23 00:03
Total Recoverable	Prep	3005A			398507	QTZ5	EET CF	09/05/23 08:00
Total Recoverable	Analysis	6020B		1	400337	DHM5	EET CF	09/21/23 17:41
Total/NA	Prep	7470A			399305	NFT2	EET CF	09/12/23 11:54
Total/NA	Analysis	7470A		1	399463	NFT2	EET CF	09/13/23 12:32
Total/NA	Analysis	SM 2540C		1	730464	CLB	EET CHI	09/01/23 01:32
Total/NA	Analysis	SM 4500 Cl- E		20	732370	TR	EET CHI	09/14/23 14:57
Total/NA	Analysis	SM 4500 F C		1	731562	EH	EET CHI	09/10/23 14:30
Total/NA	Analysis	SM 4500 SO4 E		10	733424	TR	EET CHI	09/21/23 11:38

Client Sample ID: MW-11

Date Collected: 08/30/23 14:43
Date Received: 08/31/23 10:05

Lab Sample ID: 500-238830-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			398507	QTZ5	EET CF	09/05/23 08:00
Total Recoverable	Analysis	6020B		1	400176	DHM5	EET CF	09/21/23 00:07
Total Recoverable	Prep	3005A			398507	QTZ5	EET CF	09/05/23 08:00
Total Recoverable	Analysis	6020B		1	400337	DHM5	EET CF	09/21/23 17:44
Total/NA	Prep	7470A			399566	NFT2	EET CF	09/14/23 10:57
Total/NA	Analysis	7470A		1	399704	NFT2	EET CF	09/15/23 10:42
Total/NA	Analysis	SM 2540C		1	730464	CLB	EET CHI	09/01/23 01:34
Total/NA	Analysis	SM 4500 Cl- E		2	732370	TR	EET CHI	09/14/23 15:16
Total/NA	Analysis	SM 4500 F C		1	731562	EH	EET CHI	09/10/23 14:34
Total/NA	Analysis	SM 4500 SO4 E		2	733424	TR	EET CHI	09/21/23 11:38

Lab Chronicle

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

Job ID: 500-238830-1

Client Sample ID: MW-12

Date Collected: 08/30/23 15:47
Date Received: 08/31/23 10:05

Lab Sample ID: 500-238830-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			398507	QTZ5	EET CF	09/05/23 08:00
Total Recoverable	Analysis	6020B		1	400176	DHM5	EET CF	09/21/23 00:11
Total Recoverable	Prep	3005A			398507	QTZ5	EET CF	09/05/23 08:00
Total Recoverable	Analysis	6020B		1	400337	DHM5	EET CF	09/21/23 17:46
Total/NA	Prep	7470A			399566	NFT2	EET CF	09/14/23 10:57
Total/NA	Analysis	7470A		1	399704	NFT2	EET CF	09/15/23 10:48
Total/NA	Analysis	SM 2540C		1	730464	CLB	EET CHI	09/01/23 01:37
Total/NA	Analysis	SM 4500 Cl- E		10	732370	TR	EET CHI	09/14/23 14:52
Total/NA	Analysis	SM 4500 F C		1	731562	EH	EET CHI	09/10/23 14:39
Total/NA	Analysis	SM 4500 SO4 E		10	733424	TR	EET CHI	09/21/23 12:03

Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

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 ABB/ASB

Job ID: 500-238830-1

Laboratory: Eurofins Chicago

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

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

Laboratory: Eurofins Cedar Falls

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Colorado	Petroleum Storage Tank Program	IA100001 (OR)	09-29-23
Georgia	State	IA100001 (OR)	09-29-23
Illinois	NELAP	200024	11-29-23
Iowa	State	007	12-01-23
Kansas	NELAP	E-10341	01-31-24
Minnesota	NELAP	019-999-319	12-31-23
Minnesota (Petrofund)	State	3349	01-18-24
North Dakota	State	R-186	09-29-23
Oregon	NELAP	IA100001	09-29-23

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 10/3/2023 11:54:55 AM

JOB DESCRIPTION

Powerton CCR ABB/ASB (RAD)

JOB NUMBER

500-238830-2

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

myEOL

Job Notes

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

Authorization

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

Table of Contents

Job ID: 500-238830-2

Laboratory: Eurofins Chicago

Narrative

Job Narrative
500-238830-2

Receipt
The samples were received on 8/30/2023 10:10 AM and 8/31/2023 10:05 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 0.7°C, 1.2°C, 1.6°C and 1.8°C

Gas Flow Proportional Counter
Method 903.0: Radium-226 batch 626333Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.MW-08 (500-238830-1), MW-01 (500-238830-2), MW-19 (500-238830-3), Duplicate (500-238830-4), MW-18 (500-238830-5), (LCS 160-626333/2-A), (MB 160-626333/1-A) and (500-238830-F-4-A DU)

Method 903.0: Radium-226 batch 626536Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.MW-09 (500-238830-6), MW-17 (500-238830-7), MW-15 (500-238830-8), MW-11 (500-238830-9), MW-12 (500-238830-10), (LCS 160-626536/2-A), (MB 160-626536/1-A) and (500-238830-E-6-A DU)

Method 904.0: Radium-228 Prep Batch 160-626334:Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. MW-08 (500-238830-1), MW-01 (500-238830-2), MW-19 (500-238830-3), Duplicate (500-238830-4), MW-18 (500-238830-5) and (500-238830-F-4-B DU)

Method 904.0: Radium-228 batch 626539Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.MW-09 (500-238830-6), MW-17 (500-238830-7), MW-15 (500-238830-8), MW-11 (500-238830-9), MW-12 (500-238830-10), (LCS 160-626539/2-A), (MB 160-626539/1-A) and (500-238830-E-6-B DU)

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

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

Method Summary

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

Job ID: 500-238830-2

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 ABB/ASB (RAD)

Job ID: 500-238830-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-238830-1	MW-08	Water	08/29/23 11:21	08/30/23 10:10
500-238830-2	MW-01	Water	08/29/23 12:20	08/30/23 10:10
500-238830-3	MW-19	Water	08/29/23 14:55	08/30/23 10:10
500-238830-4	Duplicate	Water	08/29/23 00:00	08/30/23 10:10
500-238830-5	MW-18	Water	08/29/23 15:47	08/30/23 10:10
500-238830-6	MW-09	Water	08/30/23 13:44	08/31/23 10:05
500-238830-7	MW-17	Water	08/30/23 11:18	08/31/23 10:05
500-238830-8	MW-15	Water	08/30/23 09:32	08/31/23 10:05
500-238830-9	MW-11	Water	08/30/23 14:43	08/31/23 10:05
500-238830-10	MW-12	Water	08/30/23 15:47	08/31/23 10:05

Client Sample ID: MW-08

Date Collected: 08/29/23 11:21
Date Received: 08/30/23 10:10

Lab Sample ID: 500-238830-1

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.164		0.0986	0.0997	1.00	0.127	pCi/L	09/01/23 09:04	09/26/23 09:08	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.8*		*30 - 110*	*09/01/23 09:04*	*09/26/23 09:08*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.671		0.383	0.388	1.00	0.550	pCi/L	09/01/23 09:09	09/21/23 12:00	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.8*		*30 - 110*	*09/01/23 09:09*	*09/21/23 12:00*	*1*
Y Carrier	*84.1*		*30 - 110*	*09/01/23 09:09*	*09/21/23 12:00*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.835		0.395	0.401	5.00	0.550	pCi/L		09/27/23 17:03	1

Client Sample ID: MW-01

Date Collected: 08/29/23 12:20
Date Received: 08/30/23 10:10

Lab Sample ID: 500-238830-2

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0748	U	0.0941	0.0943	1.00	0.156	pCi/L	09/01/23 09:04	09/26/23 09:09	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*86.6*		*30 - 110*	*09/01/23 09:04*	*09/26/23 09:09*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**0.637**		0.373	0.377	1.00	0.532	pCi/L	09/01/23 09:09	09/21/23 12:00	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*86.6*		*30 - 110*	*09/01/23 09:09*	*09/21/23 12:00*	*1*
Y Carrier	*87.1*		*30 - 110*	*09/01/23 09:09*	*09/21/23 12:00*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**0.712**		0.385	0.389	5.00	0.532	pCi/L		09/27/23 17:03	1

Client Sample ID: MW-19

Date Collected: 08/29/23 14:55
Date Received: 08/30/23 10:10

Lab Sample ID: 500-238830-3

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.118	U	0.107	0.107	1.00	0.165	pCi/L	09/01/23 09:04	09/26/23 09:09	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.3*		*30 - 110*	*09/01/23 09:04*	*09/26/23 09:09*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**0.638**		0.350	0.355	1.00	0.487	pCi/L	09/01/23 09:09	09/21/23 12:00	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.3*		*30 - 110*	*09/01/23 09:09*	*09/21/23 12:00*	*1*
Y Carrier	*87.1*		*30 - 110*	*09/01/23 09:09*	*09/21/23 12:00*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**0.756**		0.366	0.371	5.00	0.487	pCi/L		09/27/23 17:03	1

Client Sample ID: Duplicate

Date Collected: 08/29/23 00:00
Date Received: 08/30/23 10:10

Lab Sample ID: 500-238830-4

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.116	U	0.101	0.101	1.00	0.153	pCi/L	09/01/23 09:04	09/26/23 09:09	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.6*		*30 - 110*	*09/01/23 09:04*	*09/26/23 09:09*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.355	U	0.303	0.305	1.00	0.472	pCi/L	09/01/23 09:09	09/21/23 12:00	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.6*		*30 - 110*	*09/01/23 09:09*	*09/21/23 12:00*	*1*
Y Carrier	*89.3*		*30 - 110*	*09/01/23 09:09*	*09/21/23 12:00*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.471	U	0.319	0.321	5.00	0.472	pCi/L		09/27/23 17:03	1

Client Sample ID: MW-18

Date Collected: 08/29/23 15:47
Date Received: 08/30/23 10:10

Lab Sample ID: 500-238830-5

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.191	U	0.157	0.157	1.00	0.237	pCi/L	09/01/23 09:04	09/26/23 09:09	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*86.1*		*30 - 110*	*09/01/23 09:04*	*09/26/23 09:09*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.452	U	0.351	0.353	1.00	0.796	pCi/L	09/01/23 09:09	09/21/23 12:05	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*86.1*		*30 - 110*	*09/01/23 09:09*	*09/21/23 12:05*	*1*
Y Carrier	*86.0*		*30 - 110*	*09/01/23 09:09*	*09/21/23 12:05*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.261	U	0.385	0.386	5.00	0.796	pCi/L		09/27/23 17:03	1

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

Job ID: 500-238830-2

Client Sample ID: MW-09

Date Collected: 08/30/23 13:44
Date Received: 08/31/23 10:05

Lab Sample ID: 500-238830-6

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.135	U	0.158	0.158	1.00	0.258	pCi/L	09/05/23 10:42	09/29/23 18:25	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*70.7*		*30 - 110*	*09/05/23 10:42*	*09/29/23 18:25*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.295	U	0.442	0.443	1.00	0.747	pCi/L	09/05/23 10:45	09/26/23 16:17	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*70.7*		*30 - 110*	*09/05/23 10:45*	*09/26/23 16:17*	*1*
Y Carrier	*83.4*		*30 - 110*	*09/05/23 10:45*	*09/26/23 16:17*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.429	U	0.469	0.470	5.00	0.747	pCi/L		10/03/23 11:26	1

Client Sample ID: MW-17

Date Collected: 08/30/23 11:18
Date Received: 08/31/23 10:05

Lab Sample ID: 500-238830-7

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.112	U	0.125	0.126	1.00	0.203	pCi/L	09/05/23 10:42	09/29/23 18:25	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*81.4*		*30 - 110*	*09/05/23 10:42*	*09/29/23 18:25*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0396	U	0.344	0.344	1.00	0.630	pCi/L	09/05/23 10:45	09/26/23 16:16	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*81.4*		*30 - 110*	*09/05/23 10:45*	*09/26/23 16:16*	*1*
Y Carrier	*85.2*		*30 - 110*	*09/05/23 10:45*	*09/26/23 16:16*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.151	U	0.366	0.366	5.00	0.630	pCi/L		10/03/23 11:26	1

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

Job ID: 500-238830-2

Client Sample ID: MW-15

Date Collected: 08/30/23 09:32
Date Received: 08/31/23 10:05

Lab Sample ID: 500-238830-8

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.155		0.111	0.112	1.00	0.154	pCi/L	09/05/23 10:42	09/29/23 18:25	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.8*		*30 - 110*	*09/05/23 10:42*	*09/29/23 18:25*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.993		0.441	0.450	1.00	0.588	pCi/L	09/05/23 10:45	09/26/23 16:16	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.8*		*30 - 110*	*09/05/23 10:45*	*09/26/23 16:16*	*1*
Y Carrier	*82.6*		*30 - 110*	*09/05/23 10:45*	*09/26/23 16:16*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.15		0.455	0.464	5.00	0.588	pCi/L		10/03/23 11:26	1

Client Sample ID: MW-11

Date Collected: 08/30/23 14:43
Date Received: 08/31/23 10:05

Lab Sample ID: 500-238830-9

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.410**		0.196	0.199	1.00	0.234	pCi/L	09/05/23 10:42	09/29/23 18:25	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.1*		*30 - 110*	*09/05/23 10:42*	*09/29/23 18:25*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.414	U	0.453	0.454	1.00	0.737	pCi/L	09/05/23 10:45	09/26/23 16:16	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.1*		*30 - 110*	*09/05/23 10:45*	*09/26/23 16:16*	*1*
Y Carrier	*83.0*		*30 - 110*	*09/05/23 10:45*	*09/26/23 16:16*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**0.824**		0.494	0.496	5.00	0.737	pCi/L		10/03/23 11:26	1

Client Sample ID: MW-12

Date Collected: 08/30/23 15:47
Date Received: 08/31/23 10:05

Lab Sample ID: 500-238830-10

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.257**		0.158	0.160	1.00	0.218	pCi/L	09/05/23 10:42	09/29/23 18:25	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.6*		*30 - 110*	*09/05/23 10:42*	*09/29/23 18:25*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.504	U	0.389	0.391	1.00	0.597	pCi/L	09/05/23 10:45	09/26/23 16:16	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.6*		*30 - 110*	*09/05/23 10:45*	*09/26/23 16:16*	*1*
Y Carrier	*83.0*		*30 - 110*	*09/05/23 10:45*	*09/26/23 16:16*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**0.760**		0.420	0.422	5.00	0.597	pCi/L		10/03/23 11:26	1

Definitions/Glossary

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

Job ID: 500-238830-2

Qualifiers

Rad

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

Glossary

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

Rad

Prep Batch: 626333

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238830-1	MW-08	Total/NA	Water	PrecSep-21	
500-238830-2	MW-01	Total/NA	Water	PrecSep-21	
500-238830-3	MW-19	Total/NA	Water	PrecSep-21	
500-238830-4	Duplicate	Total/NA	Water	PrecSep-21	
500-238830-5	MW-18	Total/NA	Water	PrecSep-21	
MB 160-626333/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-626333/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-238830-4 DU	Duplicate	Total/NA	Water	PrecSep-21	

Prep Batch: 626334

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238830-1	MW-08	Total/NA	Water	PrecSep_0	
500-238830-2	MW-01	Total/NA	Water	PrecSep_0	
500-238830-3	MW-19	Total/NA	Water	PrecSep_0	
500-238830-4	Duplicate	Total/NA	Water	PrecSep_0	
500-238830-5	MW-18	Total/NA	Water	PrecSep_0	
MB 160-626334/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-626334/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-238830-4 DU	Duplicate	Total/NA	Water	PrecSep_0	

Prep Batch: 626536

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238830-6	MW-09	Total/NA	Water	PrecSep-21	
500-238830-7	MW-17	Total/NA	Water	PrecSep-21	
500-238830-8	MW-15	Total/NA	Water	PrecSep-21	
500-238830-9	MW-11	Total/NA	Water	PrecSep-21	
500-238830-10	MW-12	Total/NA	Water	PrecSep-21	
MB 160-626536/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-626536/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-238830-6 DU	MW-09	Total/NA	Water	PrecSep-21	

Prep Batch: 626539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238830-6	MW-09	Total/NA	Water	PrecSep_0	
500-238830-7	MW-17	Total/NA	Water	PrecSep_0	
500-238830-8	MW-15	Total/NA	Water	PrecSep_0	
500-238830-9	MW-11	Total/NA	Water	PrecSep_0	
500-238830-10	MW-12	Total/NA	Water	PrecSep_0	
MB 160-626539/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-626539/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-238830-6 DU	MW-09	Total/NA	Water	PrecSep_0	

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-626333/1-A
Matrix: Water
Analysis Batch: 629618

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 626333

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.04398	U	0.0696	0.0697	1.00	0.121	pCi/L	09/01/23 09:04	09/26/23 08:59	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.1*		*30 - 110*	*09/01/23 09:04*	*09/26/23 08:59*	*1*

Lab Sample ID: LCS 160-626333/2-A
Matrix: Water
Analysis Batch: 629620

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 626333

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			11.3	10.26		1.10	1.00	0.144	pCi/L	91	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*93.8*		*30 - 110*

Lab Sample ID: 500-238830-4 DU
Matrix: Water
Analysis Batch: 629621

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 626333

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-226	0.116	U		0.09150	U	0.0944	1.00	0.149	pCi/L			0.13	1

Carrier	*DU %Yield*	*DU Qualifier*	*Limits*
Ba Carrier	*89.3*		*30 - 110*

Lab Sample ID: MB 160-626536/1-A
Matrix: Water
Analysis Batch: 630165

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 626536

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.04150	U	0.0989	0.0990	1.00	0.180	pCi/L	09/05/23 10:42	09/29/23 09:48	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*97.0*		*30 - 110*	*09/05/23 10:42*	*09/29/23 09:48*	*1*

Lab Sample ID: LCS 160-626536/2-A
Matrix: Water
Analysis Batch: 630162

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 626536

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			11.3	10.54		1.19	1.00	0.153	pCi/L	93	75 - 125		

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

Lab Sample ID: LCS 160-626536/2-A
Matrix: Water
Analysis Batch: 630162

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 626536

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*88.1*		*30 - 110*

Lab Sample ID: 500-238830-6 DU
Matrix: Water
Analysis Batch: 630165

Client Sample ID: MW-09
Prep Type: Total/NA
Prep Batch: 626536

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-226	0.135	U		0.1556		0.111	1.00	0.154	pCi/L			0.08	1

Carrier	*DU %Yield*	*DU Qualifier*	*Limits*
Ba Carrier	*91.8*		*30 - 110*

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-626334/1-A
Matrix: Water
Analysis Batch: 629177

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 626334

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.1357	U	0.341	0.341	1.00	0.598	pCi/L	09/01/23 09:09	09/21/23 11:55	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.1*		*30 - 110*	*09/01/23 09:09*	*09/21/23 11:55*	*1*
Y Carrier	*90.1*		*30 - 110*	*09/01/23 09:09*	*09/21/23 11:55*	*1*

Lab Sample ID: LCS 160-626334/2-A
Matrix: Water
Analysis Batch: 629177

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 626334

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			7.86	9.255		1.26	1.00	0.503	pCi/L	118	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*93.8*		*30 - 110*
Y Carrier	*88.6*		*30 - 110*

Lab Sample ID: 500-238830-4 DU
Matrix: Water
Analysis Batch: 629177

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 626334

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-228	0.355	U		0.1230	U	0.295	1.00	0.520	pCi/L			0.39	1

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

Lab Sample ID: 500-238830-4 DU
Matrix: Water
Analysis Batch: 629177

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 626334

Carrier	DU %Yield	DU Qualifier	Limits
Ba Carrier	89.3		30 - 110
Y Carrier	90.5		30 - 110

Lab Sample ID: MB 160-626539/1-A
Matrix: Water
Analysis Batch: 629618

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 626539

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.4103	U	0.350	0.352	1.00	0.545	pCi/L	09/05/23 10:45	09/26/23 16:10	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	97.0		30 - 110	09/05/23 10:45	09/26/23 16:10	1
Y Carrier	70.7		30 - 110	09/05/23 10:45	09/26/23 16:10	1

Lab Sample ID: LCS 160-626539/2-A
Matrix: Water
Analysis Batch: 629618

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 626539

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			7.85	8.712		1.25	1.00	0.555	pCi/L	111	75 - 125		

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	88.1		30 - 110
Y Carrier	83.4		30 - 110

Lab Sample ID: 500-238830-6 DU
Matrix: Water
Analysis Batch: 629621

Client Sample ID: MW-09
Prep Type: Total/NA
Prep Batch: 626539

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-228	0.295	U		0.3699	U	0.323	1.00	0.503	pCi/L			0.1	1

Carrier	DU %Yield	DU Qualifier	Limits
Ba Carrier	91.8		30 - 110
Y Carrier	86.4		30 - 110

Chain of Custody

ress.

TAL-8210

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Diana Mockler	Site Contact:	Date:	COC No
Company Name KPRG and Associates	Tel/Email: Diana.Mockler@et.eurofinsus.com	Lab Contact:	Carrier:	___ of ___ COCs
Address 14665 W. Lisbon Rd	Analysis Turnaround Time			Sampler:
City/State/Zip Brookfield, WI, 53005	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone 262-781-0475	TAT if different from Below Standard			Walk-in Client:
Fax.	☐ 2 weeks			Lab Sampling
Project Name Powerton CCR ABB/ASB	☐ 1 week			Job / SDG No
Site	☐ 2 days			500-238830
P O #	☐ 1 day			

500-238830 COC

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	6020A/9040	Radium 226/228	Total Metals	TDS	Sulfate	Chloride, fluoride	Sample Specific Notes
1	MW-08	8/29/23	1121	G	W	7	N	N		X	X	X	X	X	
2	MW-01	8/29/23	1220	↓	↓	↓	N	N		↓	↓	↓	↓	↓	
3	MW-19	8/29/23	1455	↓	↓	↓	N	N		↓	↓	↓	↓	↓	
4	Duplicate	8/29/23	—	↓	↓	↓	N	N		↓	↓	↓	↓	↓	
5	MW-18	8/29	1547	↓	↓	↓	N	N		↓	↓	↓	↓	↓	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=... 5=NaOH; 6= Other None | 4 | 4 | 6 | 6 | 6

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please list any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

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

☐ Return to Client ☒ Disposal by Lab ☐ Archive for ________ Months

Special Instructions/QC Requirements & Comments:

2.2→1.8, 1.0→0.7

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No | Cooler Temp (°C) Obs'd ______ Corr'd: ______ | Therm ID No. ______

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Kaitlyn Ondle		8/29/23 / 1720			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:		Date/Time:	Received in Laboratory by: [signature]	Company: [signature]	Date/Time: 8/30/23 1015

Chain of Custody Record

667593 eurofins | Environment Testing America

Address: _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other: TAL-8210

Client Contact	Project Manager: Diana Mackie	Site Contact:	Date:	COC No
Company Name: KPRG and Associates	Tel/Email: Diana.Mackie@et.eurofinsus.com	Lab Contact:	Carrier:	1 of 1 COCs
Address: 14065 W Lisbon Rd	Analysis Turnaround Time			Sampler:
City/State/Zip: Brookfield WI 53005	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 262-781-0475	TAT if different from Below: Standard			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: Powerton CCR - ABB/ASB	☐ 1 week			Job / SDG No: 500-238830
Site:	☐ 2 days			
PO #: ~~Powerton CCR - ABB/ASB~~	☐ 1 day		500-238830 COC	

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	904.0, 9030 Radium 226/228	Total Metals	TDS	Sulfate	chloride, fluoride	Sample Specific Notes
6 MW-09	8/30/23	1344	G	W	7	N	N	X	X	X	X	X	
7 MW-17	8/30/23	1118	G	W	7	N	N	X	X	X	X	X	
8 MW-15	8/30/23	0932	G	W	7	N	N	X	X	X	X	X	
9 MW-11	8/30/23	1443	G	W	7	N	N	X	X	X	X	X	
10 MW-12	8/30/23	1547	G	W	7	N	N	X	X	X	X	X	

Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4=HNO3, 5=NaOH, 6= Other: None — H 4 6 6 6

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

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

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

1.5→1.4 1.9→1.6

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No	Cooler Temp (°C) Obs'd	Corr'd	Therm ID No

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Kaelyn Ambler	KPRG	8/30/23/1800			
Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company	Date/Time
			John Loots	EETA	8/31/23 1005

ORIGIN ID:PIAA (262) 278-1621
KAELYN SPERLE
KPRG AND ASSOCIATES
414 PLAZA DR STE 106

WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 29AUG23
ACTWGT: 61.75 LB
CAD: 6994780/SSFE2422
DIMS: 24x13x14 IN

BILL THIRD PARTY

TO EUROFINS CHICAGO

2417 BOND ST.

UNIVERSITY PARK IL 60484
(555) 555-5555 REF:
INV:
PO: DEPT:

2

500-238830 Waybi

FedEx Express

E

1 of 4
TRK# 0201 7830 9817 4786
MASTER

WED - 30 AUG 10:30A
PRIORITY OVERNIGHT

XN JOTA

AHS
60484
IL-US ORD

ORIGIN ID:PIAA (262) 278-1621
KAELYN SPERLE
KPRG AND ASSOCIATES
414 PLAZA DR STE 106

WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 29AUG23
ACTWGT: 61.75 LB

TO EUROFINS CHIC

RT 519 5 10:30 A
ST 18 4812 08 30

2417 BOND ST.

UNIVERSITY PARK IL 60484
(555) 555-5555 REF:
INV:
PO: DEPT:

1.0->0.7

FedEx Express

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4 of 4
MPS# 0263 7830 9817 4812
Mstr# 7830 9817 4786

WED - 30 AUG 10:30A
PRIORITY OVERNIGHT
0201

XN JOTA

AHS
60484
IL-US ORD

ORIGIN ID:PIAA (262) 278-1621
KAELYN SPERLE
KPRG AND ASSOCIATES
414 PLAZA DR STE 106

WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 30AUG23
ACTWGT: 45.30 LB
CAD: 6994780/SSFE2422
DIMS: 24x13x15 IN

BILL THIRD PARTY

TO **EUROFINS CHICAGO**

2417 BOND ST.

UNIVERSITY PARK IL 60484

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

1-5-762

500-238830 Wayb

dEx Express

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Part # 156297-435 RRDSS EXP 04/24

J233123073101uv

5 of 5

MPS# 7831 4952 6481
0263

Mstr# 7831 4952 6448

0201

THU - 31 AUG 10:30A
PRIORITY OVERNIGHT
AHS
60484
IL-US ORD

XN JOTA

ORIGIN ID:PIAA (262) 278-1621
KAELYN SPERLE
KPRG AND ASSOCIATES
414 PLAZA DR STE 106

WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 30AUG23
ACTWGT: 45.80 LB
CAD: 6994780/SSFE2422
DIMS: 24x13x15 IN

BILL THIRD PARTY

TO **EUROFINS CHICAGO**

2417 BOND ST.

UNIVERSITY PARK IL 60484

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

1-9-766

FedEx Express

E

Part # 156297-435 RRDSS EXP 04/24

J233123073101uv

3 of 5

MPS# 7831 4952 6460
0263

Mstr# 7831 4952 6448

0201

THU - 31 AUG 10:30A
PRIORITY OVERNIGHT
AHS
60484
IL-US ORD

XN JOTA

08 31
6460
A 10:30
5
ST 25
RT 519

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

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Mockler, Diana J	Carrier Tracking No(s):	COC No: 500-178472.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Diana.Mockler@et.eurofinsus.com	State of Origin: Illinois	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #: 500-238830-2
Address: 13715 Rider Trail North, ,	Due Date Requested: 10/2/2023			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: Powerton CCR	Project #: 50011612			
Site: MWG - Powerton	SSOW#:			

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

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PrecSep_21 Standard Target List	904.0/PrecSep_0 Standard Target List	Ra226Ra228_GFPC	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
MW-08 (500-238830-1)	8/29/23	11:21 Central		Water			X	X	X	3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no
MW-01 (500-238830-2)	8/29/23	12:20 Central		Water			X	X	X	3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no
MW-19 (500-238830-3)	8/29/23	14:55 Central		Water			X	X	X	3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no
Duplicate (500-238830-4)	8/29/23	Central		Water			X	X	X	3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no
MW-18 (500-238830-5)	8/29/23	15:47 Central		Water			X	X	X	3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no

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

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by: Shari Scott FedEx	Date/Time: 8/30/23 1510	Company	Received by: FedEx	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: M. Pineda	Date/Time: AUG 31 2023 0855	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

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

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Mockler, Diana J	Carrier Tracking No(s):	COC No: 500-178537.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Diana.Mockler@et.eurofinsus.com	State of Origin: Illinois	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #: 500-238830-2
Address: 13715 Rider Trail North, ,	Due Date Requested: 9/21/2023			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045	PO #:			
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	WO #:			
Email:	Project #: 50011612			
Project Name: Powerton CCR ABB/ASB (RAD)	SSOW#:			
Site: MWG - Powerton				

Preservation Codes:

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

Other:

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PrecSep_21 Standard Target List	904.0/PrecSep_0 Standard Target List	Ra226Ra228_GFPC	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
MW-09 (500-238830-6)	8/30/23	13:44 Central		Water			X	X	X	3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no
MW-17 (500-238830-7)	8/30/23	11:18 Central		Water			X	X	X	3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no
MW-15 (500-238830-8)	8/30/23	09:32 Central		Water			X	X	X	3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no
MW-11 (500-238830-9)	8/30/23	14:43 Central		Water			X	X	X	3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no
MW-12 (500-238830-10)	8/30/23	15:47 Central		Water			X	X	X	3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no

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

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by: [signature]	Date/Time: 8/31/23 1600	Company	Received by: FED EX	Date/Time:	Company
Relinquished by: FED EX	Date/Time:	Company	Received by: Brianna Sharkey-Gonzalez	Date/Time: 9/1/23 0845	Company ETAS TL
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-238830-2

Login Number: 238830
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	1.8,0.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <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: 500-238830-2

Login Number: 238830
List Number: 2
Creator: Pinette, Meadow L

List Source: Eurofins St. Louis
List Creation: 08/31/23 12:07 PM

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

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-238830-2

Login Number: 238830
List Number: 5
Creator: Sharkey-Gonzalez, Briana L

List Source: Eurofins St. Louis
List Creation: 09/01/23 02:02 PM

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

Lab Chronicle

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

Job ID: 500-238830-2

Client Sample ID: MW-08
Date Collected: 08/29/23 11:21
Date Received: 08/30/23 10:10

Lab Sample ID: 500-238830-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			626333	KAC	EET SL	09/01/23 09:04
Total/NA	Analysis	903.0		1	629621	FLC	EET SL	09/26/23 09:08
Total/NA	Prep	PrecSep_0			626334	KAC	EET SL	09/01/23 09:09
Total/NA	Analysis	904.0		1	629177	FLC	EET SL	09/21/23 12:00
Total/NA	Analysis	Ra226_Ra228		1	629878	SCB	EET SL	09/27/23 17:03

Client Sample ID: MW-01
Date Collected: 08/29/23 12:20
Date Received: 08/30/23 10:10

Lab Sample ID: 500-238830-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			626333	KAC	EET SL	09/01/23 09:04
Total/NA	Analysis	903.0		1	629621	FLC	EET SL	09/26/23 09:09
Total/NA	Prep	PrecSep_0			626334	KAC	EET SL	09/01/23 09:09
Total/NA	Analysis	904.0		1	629177	FLC	EET SL	09/21/23 12:00
Total/NA	Analysis	Ra226_Ra228		1	629878	SCB	EET SL	09/27/23 17:03

Client Sample ID: MW-19
Date Collected: 08/29/23 14:55
Date Received: 08/30/23 10:10

Lab Sample ID: 500-238830-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			626333	KAC	EET SL	09/01/23 09:04
Total/NA	Analysis	903.0		1	629621	FLC	EET SL	09/26/23 09:09
Total/NA	Prep	PrecSep_0			626334	KAC	EET SL	09/01/23 09:09
Total/NA	Analysis	904.0		1	629177	FLC	EET SL	09/21/23 12:00
Total/NA	Analysis	Ra226_Ra228		1	629878	SCB	EET SL	09/27/23 17:03

Client Sample ID: Duplicate
Date Collected: 08/29/23 00:00
Date Received: 08/30/23 10:10

Lab Sample ID: 500-238830-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			626333	KAC	EET SL	09/01/23 09:04
Total/NA	Analysis	903.0		1	629621	FLC	EET SL	09/26/23 09:09
Total/NA	Prep	PrecSep_0			626334	KAC	EET SL	09/01/23 09:09
Total/NA	Analysis	904.0		1	629177	FLC	EET SL	09/21/23 12:00
Total/NA	Analysis	Ra226_Ra228		1	629878	SCB	EET SL	09/27/23 17:03

Lab Chronicle

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

Job ID: 500-238830-2

Client Sample ID: MW-18
Date Collected: 08/29/23 15:47
Date Received: 08/30/23 10:10

Lab Sample ID: 500-238830-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			626333	KAC	EET SL	09/01/23 09:04
Total/NA	Analysis	903.0		1	629621	FLC	EET SL	09/26/23 09:09
Total/NA	Prep	PrecSep_0			626334	KAC	EET SL	09/01/23 09:09
Total/NA	Analysis	904.0		1	629183	FLC	EET SL	09/21/23 12:05
Total/NA	Analysis	Ra226_Ra228		1	629878	SCB	EET SL	09/27/23 17:03

Client Sample ID: MW-09
Date Collected: 08/30/23 13:44
Date Received: 08/31/23 10:05

Lab Sample ID: 500-238830-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			626536	KAC	EET SL	09/05/23 10:42
Total/NA	Analysis	903.0		1	630165	FLC	EET SL	09/29/23 18:25
Total/NA	Prep	PrecSep_0			626539	KAC	EET SL	09/05/23 10:45
Total/NA	Analysis	904.0		1	629621	FLC	EET SL	09/26/23 16:17
Total/NA	Analysis	Ra226_Ra228		1	630529	SCB	EET SL	10/03/23 11:26

Client Sample ID: MW-17
Date Collected: 08/30/23 11:18
Date Received: 08/31/23 10:05

Lab Sample ID: 500-238830-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			626536	KAC	EET SL	09/05/23 10:42
Total/NA	Analysis	903.0		1	630165	FLC	EET SL	09/29/23 18:25
Total/NA	Prep	PrecSep_0			626539	KAC	EET SL	09/05/23 10:45
Total/NA	Analysis	904.0		1	629621	FLC	EET SL	09/26/23 16:16
Total/NA	Analysis	Ra226_Ra228		1	630529	SCB	EET SL	10/03/23 11:26

Client Sample ID: MW-15
Date Collected: 08/30/23 09:32
Date Received: 08/31/23 10:05

Lab Sample ID: 500-238830-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			626536	KAC	EET SL	09/05/23 10:42
Total/NA	Analysis	903.0		1	630165	FLC	EET SL	09/29/23 18:25
Total/NA	Prep	PrecSep_0			626539	KAC	EET SL	09/05/23 10:45
Total/NA	Analysis	904.0		1	629621	FLC	EET SL	09/26/23 16:16
Total/NA	Analysis	Ra226_Ra228		1	630529	SCB	EET SL	10/03/23 11:26

Lab Chronicle

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

Job ID: 500-238830-2

Client Sample ID: MW-11

Lab Sample ID: 500-238830-9

Date Collected: 08/30/23 14:43

Matrix: Water

Date Received: 08/31/23 10:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			626536	KAC	EET SL	09/05/23 10:42
Total/NA	Analysis	903.0		1	630165	FLC	EET SL	09/29/23 18:25
Total/NA	Prep	PrecSep_0			626539	KAC	EET SL	09/05/23 10:45
Total/NA	Analysis	904.0		1	629621	FLC	EET SL	09/26/23 16:16
Total/NA	Analysis	Ra226_Ra228		1	630529	SCB	EET SL	10/03/23 11:26

Client Sample ID: MW-12

Lab Sample ID: 500-238830-10

Date Collected: 08/30/23 15:47

Matrix: Water

Date Received: 08/31/23 10:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			626536	KAC	EET SL	09/05/23 10:42
Total/NA	Analysis	903.0		1	630165	FLC	EET SL	09/29/23 18:25
Total/NA	Prep	PrecSep_0			626539	KAC	EET SL	09/05/23 10:45
Total/NA	Analysis	904.0		1	629621	FLC	EET SL	09/26/23 16:16
Total/NA	Analysis	Ra226_Ra228		1	630529	SCB	EET SL	10/03/23 11:26

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. Job ID: 500-238830-2
Project/Site: Powerton CCR ABB/ASB (RAD)

Laboratory: Eurofins St. Louis

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	200023	11-30-23

Tracer/Carrier Summary

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

Job ID: 500-238830-2

Method: 903.0 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)
		Ba
Lab Sample ID	Client Sample ID	(30-110)
500-238830-1	MW-08	91.8
500-238830-2	MW-01	86.6
500-238830-3	MW-19	90.3
500-238830-4	Duplicate	90.6
500-238830-4 DU	Duplicate	89.3
500-238830-5	MW-18	86.1
500-238830-6	MW-09	70.7
500-238830-6 DU	MW-09	91.8
500-238830-7	MW-17	81.4
500-238830-8	MW-15	88.8
500-238830-9	MW-11	87.1
500-238830-10	MW-12	85.6
LCS 160-626333/2-A	Lab Control Sample	93.8
LCS 160-626536/2-A	Lab Control Sample	88.1
MB 160-626333/1-A	Method Blank	89.1
MB 160-626536/1-A	Method Blank	97.0

Tracer/Carrier Legend

Ba = Ba Carrier

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)	
		Ba	Y
Lab Sample ID	Client Sample ID	(30-110)	(30-110)
500-238830-1	MW-08	91.8	84.1
500-238830-2	MW-01	86.6	87.1
500-238830-3	MW-19	90.3	87.1
500-238830-4	Duplicate	90.6	89.3
500-238830-4 DU	Duplicate	89.3	90.5
500-238830-5	MW-18	86.1	86.0
500-238830-6	MW-09	70.7	83.4
500-238830-6 DU	MW-09	91.8	86.4
500-238830-7	MW-17	81.4	85.2
500-238830-8	MW-15	88.8	82.6
500-238830-9	MW-11	87.1	83.0
500-238830-10	MW-12	85.6	83.0
LCS 160-626334/2-A	Lab Control Sample	93.8	88.6
LCS 160-626539/2-A	Lab Control Sample	88.1	83.4
MB 160-626334/1-A	Method Blank	89.1	90.1
MB 160-626539/1-A	Method Blank	97.0	70.7

Tracer/Carrier Legend

Ba = Ba Carrier
Y = Y Carrier

PROJECT NAME	NRG – POWERTON STATION – 12313.1		DATE	8/29/23
Sample Name	MW-01	Start Time	1205	
Condition of Well	good			
Water Level	28.912	Total Depth	–	
Well Diameter	PVC – 2 inch	Volume in Well	–	
Method of Purge	Low flow bladder	Purge Characteristics	clear	
Volume Removed	5 gals	W L at Sample Time	28.93	
Method of Sample	Low flow bladder	Sample Characteristics		
Sample Analysis	CCA, CCR (FAB, ABB/ASB)	Sample Time	1220	
Water Quality Meter	YSI Pro Dss			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm).	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1207	28.92	7.04	15.3	.726	6.83	39.0	5.35
1210	–	7.00	14.6	.732	5.53	43.6	6.30
1213	–	6.99	14.4	.733	5.09	45.9	5.37
1216	28.93	6.98	14.3	.729	4.87	47.2	4.40

SAMPLING NOTES:

Sampler Name and Company: KPRG and Associates KLS

PROJECT NAME	NRG – POWERTON STATION – 12313.1		DATE	8/29/23
Sample Name	MW-08	Start Time	1102	
Condition of Well	Good			
Water Level	25.85	Total Depth	–	
Well Diameter	PVC – 2 inch	Volume in Well	–	
Method of Purge	Low flow bladder	Purge Characteristics	Cloudy Brown	
Volume Removed	Sqtz	W L at Sample Time	25.85	
Method of Sample	Low flow bladder	Sample Characteristics	clear	
Sample Analysis	CCR; CCR(ASB/ASB)	Sample Time	1121	
Water Quality Meter	YSI Pro Dss			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm).	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1105	25.85	7.52	17.9	1.030	6.22	-175.1	139.98
1108	–	7.66	15.9	.992	2.57	-237.5	89.41
1111	–	7.66	15.7	.981	1.65	-241.0	23.10
1114	–	7.64	15.8	.979	1.26	-242.0	13.58
1117	25.85	7.64	15.6	.981	1.06	-242.7	8.43

SAMPLING NOTES:

Sampler Name and Company: KPRG and Associates

PROJECT NAME	**NRG – POWERTON STATION – 12313.1**		DATE	8/30/23
Sample Name	MW-09	Start Time	1328	
Condition of Well	good			
Water Level	28.08	Total Depth	—	
Well Diameter	PVC – 2 inch	Volume in Well	—	
Method of Purge	Low flow bladder	Purge Characteristics	clear	
Volume Removed	4 qts	W L at Sample Time	28.11	
Method of Sample	Low flow bladder	Sample Characteristics	clear	
Sample Analysis	CCA, CCR (ABB/ASB)	Sample Time	1344	
Water Quality Meter	YSI Pro Dss			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm).	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1331	28.08	6.99	14.7	.680	6.35	-28.8	3.74
1334	—	7.25	14.2	.684	3.41	-25.3	—
1337	—	7.26	14.2	.683	2.33	-23.6	1.98
1340	28.11	7.25	14.1	.686	1.89	-22.4	1.64

SAMPLING NOTES:

Sampler Name and Company: KPRG and Associates KLS

PROJECT NAME	**NRG – POWERTON STATION – 12313.1**		DATE	8/30/23
Sample Name	MW-11	Start Time	1428	
Condition of Well				
Water Level	33.30	Total Depth	–	
Well Diameter	PVC – 2 inch	Volume in Well	–	
Method of Purge	Low flow bladder	Purge Characteristics	Cloudy Brown	
Volume Removed	4 qtz	W L at Sample Time	33.30	
Method of Sample	Low flow bladder	Sample Characteristics	Clear/slightly Cloudy	
Sample Analysis	CCA, CCR (ABB/ASB)	Sample Time	1443	
Water Quality Meter	YSI Pro Dss			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm).	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1430	-	7.30	18.4	.884	8.33	-62.3	3.39
1433		7.01	17.2	1.119	5.21	-143.1	370.16
1436		7.02	17.1	1.117	3.03	-151.1	181.60
1439		7.04	16.8	1.064	2.33	-149.0	44.60

SAMPLING NOTES:

Sampler Name and Company: KPRG and Associates

PROJECT NAME	**NRG – POWERTON STATION – 12313.1**		DATE	9/30/23
Sample Name	MW-12	Start Time	1529	
Condition of Well	Good			
Water Level	23.11	Total Depth	—	
Well Diameter	PVC – 2 inch	Volume in Well	—	
Method of Purge	Low flow bladder	Purge Characteristics	cloudy, brown	
Volume Removed	6 qts	W L at Sample Time	23.25	
Method of Sample	Low flow bladder	Sample Characteristics	cloudy, brown	
Sample Analysis	CCA, CCR (ABB/ASB)	Sample Time	1547	
Water Quality Meter	YSI Pro Dss			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm).	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1531	23.11	7.50	21.4	1.115	7.52	-91.9	37.12
1534	—	7.35	14.8	1.216	4.24	-96.4	212.72
1537	—	7.32	14.4	1.214	2.67	-100.7	164.90
1540	—	7.32	14.6	1.196	2.06	-104.3	234.67
1543	23.25	7.33	14.4	1.179	1.72	-115.8	104.06

SAMPLING NOTES:

Sampler Name and Company: KPRG and Associates KLS

PROJECT NAME	**NRG – POWERTON STATION – 12313.1**		DATE	8/30/23
Sample Name	MW-15	Start Time	0914	
Condition of Well	good			
Water Level	25.60	Total Depth	—	
Well Diameter	PVC – 2 inch	Volume in Well	—	
Method of Purge	Low flow bladder	Purge Characteristics	Cloudy Red/Brown	
Volume Removed	4.5 gal	WL at Sample Time	26.40	
Method of Sample	Low flow bladder	Sample Characteristics	Slightly Cloudy	
Sample Analysis	CCA, CCR (ABB/ASB, MCB)	Sample Time	0932	
Water Quality Meter	YSI Pro Dss			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm).	DO (mg/L)	ORP (mV)	Turbidity (NTU)
0916	25.60	7.22	17.2	2,104	7.61	-47.9	10.08
0919	-	6.94	16.4	1.840	4.40	-93.2	607.41
0922	-	6.93	16.2	1.817	2.37	-104.2	177.12
0925	-	6.93	16.3	1.837	1.86	-108.4	154.08
0928	26.40	6.94	16.0	1.827	1.56	-111.1	34.65

SAMPLING NOTES:

Sampler Name and Company: KPRG and Associates

PROJECT NAME	**NRG – POWERTON STATION – 12313.1**		DATE	8/30/23
Sample Name	MW-17	Start Time	1100	
Condition of Well	good			
Water Level	21.25	Total Depth	—	
Well Diameter	PVC – 2 inch	Volume in Well	—	
Method of Purge	Low flow bladder	Purge Characteristics	Sl. cloudy	
Volume Removed	5 qts	W L at Sample Time	22.75	
Method of Sample	Low flow bladder	Sample Characteristics	clear	
Sample Analysis	CCR (ABB/ASB, MCB)	Sample Time	1118	
Water Quality Meter	YSI Pro Dss			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm).	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1102	21.25	7.11	18.1	1.528	5.79	-47.9	4.00
1105	—	7.19	16.4	1.611	3.36	-29.0	55.55
1108	—	7.19	16.1	1.615	2.18	-16.1	6.50
1111	—	7.20	15.9	1.587	1.71	-10.9	3.80
1114	22.75	7.21	16.0	1.559	1.46	-7.6	3.56

SAMPLING NOTES:

Sampler Name and Company: KPRG and Associates KLS

PROJECT NAME	NRG – POWERTON STATION – 12313.1		DATE	8/29/23
Sample Name	MW-18	Start Time	1537	
Condition of Well	good			
Water Level	28.67	Total Depth	–	
Well Diameter	PVC – 2 inch	Volume in Well	–	
Method of Purge	Low flow bladder	Purge Characteristics	clear/dark gray tint	
Volume Removed	4 qtz	W L at Sample Time	31.00	
Method of Sample	Low flow bladder	Sample Characteristics		
Sample Analysis	CCR (ABB/ASB)	Sample Time	1547	
Water Quality Meter	YSI Pro Dss			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm).	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1534		7.85	16.2	1.308	5.88	-113.1	22.90
1537		7.89	16.7	1.289	3.11	-110.3	27.19
1540		7.88	16.5	1.287	2.42	-116.8	19.06
1543		7.88	16.8	1.283	2.06	-121.2	10.04

SAMPLING NOTES:

Sampler Name and Company: KPRG and Associates

PROJECT NAME	NRG – POWERTON STATION – 12313.1		DATE	8/29/23
Sample Name	MW-19	Start Time	1440	
Condition of Well	good			
Water Level	26.33	Total Depth	—	
Well Diameter	PVC – 2 inch	Volume in Well	—	
Method of Purge	Low flow bladder	Purge Characteristics	clear	
Volume Removed	5 gals	WL at Sample Time	26.33	
Method of Sample	Low flow bladder	Sample Characteristics		
Sample Analysis	CCR (ABB/ASB)	Sample Time	1455	
Water Quality Meter	YSI Pro Dss			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm).	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1442	26.33	7.28	16.6	.713	7.20	-100.1	1.06
1445	—	7.18	15.4	.687	3.31	-50.7	1.29
1448	—	7.17	15.4	.685	2.02	-33.7	1.31
1451	26.33	7.16	15.2	.689	1.58	-25.4	1.28

SAMPLING NOTES:

CCR ABB/ASB Duplicate

Sampler Name and Company: KPRG and Associates KLS