

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 2021 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 as they will be calculated and proposed as part of the Operating Permit submittals due by October 31, 2021. Upon Illinois Environmental Protection Agency approval of the Operating Permit, the approved comparison values will be included 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	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Radium 226 + 228	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	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	< 0.0010	0.060	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.0069	1.08	< 0.0025	< 0.002	
	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	< 0.0025	< 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	< 0.0025	< 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	
MW-19A (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	<											

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	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Radium 226 + 228	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	< 0.001	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	0.030	< 0.472	< 0.0025	< 0.002	
	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	< 0.001	0.0013	< 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	330	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	0.040	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.017	< 0.0002	0.019	< 0.502	< 0.0025	< 0.002	
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	< 0.0025	< 0.002
	5/19/2016	2.7	320	240	0.53	6.83	1200	2800	< 0.003	0.04	0.097	< 0.001	0.00098	< 0.005	< 0.001	< 0.0005	0.044	< 0.0002	0.041	< 0.420	< 0.0067	< 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	< 0.001	< 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	190	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	< 0.0019	< 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</						

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
MW-09	2/24/2021	16.90
	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	3.20
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
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
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
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
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
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
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

ANALYTICAL REPORT

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

Laboratory Job ID: 500-204293-1
Client Project/Site: Powerton CCR
Revision: 1

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

Attn: Richard Gnat



Authorized for release by:
10/4/2021 12:01:10 PM

Diana Mockler, Project Manager I
(219)252-7570
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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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



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Case Narrative

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

Job ID: 500-204293-1

Job ID: 500-204293-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative 500-204293-1

Comments

No additional comments.

Revision

The report being provided is a revision of the original report sent on 9/17/2021. The report (revision 1) is being revised due to: The units for Antimony and Beryllium need reported in mg/L.

Receipt

The samples were received on 8/25/2021 10:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 7 coolers at receipt time were 4.9° C, 5.8° C, 5.8° C, 5.9° C, 8.6° C, 10.1° C and 10.8° C.

Receipt Exceptions

A Chain-of-Custody (COC) was not received with these samples: Received two samples (MW-15 and MW-17) with no COC. Logged per container labels.

The following sample(s) was received at the laboratory outside the required temperature criteria: Receiving cooler temp: 10.1°C. Water present in cooler. (Samples #1 and 2)

*Receiving cooler temp 2nd cooler 8/25/21 1510 10.8°C (Sample #3)

**One cooler received on 8/26/21 1650 out of temp. Cooler temp: 8.6°C. Cooler contained sample #7 "MW-12".

Received a set of 7 containers with no sample ID. Sample time of 1102 on all containers. Waiting on client confirmation if MS/MSD to sample #4 "MW-08" (matching sample time) or if sample dup.

*Per client logged sample as #8 "Duplicate".

The units for Antimony and Beryllium need reported in mg/L

The units for Antimony and Beryllium need reported in mg/L

Units for Antimony and Beryllium need reported in mg/L

Metals

Method 6020A: The internal standard Terbium (Tb) was used to report the elements Lead and Thallium in batch 500-617270. This was due to the LCS being spiked with the trace digestion spike which contains Bismuth.

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

General Chemistry

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

Method Summary

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

Job ID: 500-204293-1

Method	Method Description	Protocol	Laboratory
6010C	Metals (ICP)	SW846	TAL CHI
6020A	Metals (ICP/MS)	SW846	TAL CHI
7470A	Mercury (CVAA)	SW846	TAL CHI
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL CHI
SM 4500 Cl- E	Chloride, Total	SM	TAL CHI
SM 4500 F C	Fluoride	SM	TAL CHI
SM 4500 SO4 E	Sulfate, Total	SM	TAL CHI
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL CHI
7470A	Preparation, Mercury	SW846	TAL CHI

Protocol References:

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

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

Laboratory References:

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

Sample Summary

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

Job ID: 500-204293-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-204293-1	MW-15	Water	08/23/21 12:41	08/25/21 10:30
500-204293-2	MW-17	Water	08/23/21 15:41	08/25/21 10:30
500-204293-3	MW-01	Water	08/24/21 15:07	08/25/21 15:10
500-204293-4	MW-08	Water	08/25/21 11:02	08/26/21 16:50
500-204293-5	MW-09	Water	08/25/21 15:21	08/26/21 16:50
500-204293-6	MW-11	Water	08/25/21 13:37	08/26/21 16:50
500-204293-7	MW-12	Water	08/25/21 12:22	08/26/21 16:50
500-204293-8	Duplicate	Water	08/25/21 11:02	08/26/21 16:50
500-204293-9	MW-18	Water	08/26/21 09:06	08/27/21 16:12
500-204293-10	MW-19	Water	08/26/21 10:06	08/27/21 16:12

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

Client Sample Results

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

Job ID: 500-204293-1

Client Sample ID: MW-15

Lab Sample ID: 500-204293-1

Date Collected: 08/23/21 12:41

Matrix: Water

Date Received: 08/25/21 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.025		0.010		mg/L		09/02/21 08:58	09/03/21 12:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		09/02/21 08:58	09/02/21 19:06	1
Arsenic	0.0019		0.0010		mg/L		09/02/21 08:58	09/02/21 19:06	1
Barium	0.055		0.0025		mg/L		09/02/21 08:58	09/02/21 19:06	1
Beryllium	<0.0010		0.0010		mg/L		09/02/21 08:58	09/02/21 19:06	1
Boron	1.5		0.25		mg/L		09/02/21 08:58	09/03/21 14:38	5
Cadmium	<0.00050		0.00050		mg/L		09/02/21 08:58	09/02/21 19:06	1
Calcium	200		0.20		mg/L		09/02/21 08:58	09/02/21 19:06	1
Chromium	<0.0050		0.0050		mg/L		09/02/21 08:58	09/02/21 19:06	1
Cobalt	<0.0010		0.0010		mg/L		09/02/21 08:58	09/02/21 19:06	1
Lead	<0.00050		0.00050		mg/L		09/02/21 08:58	09/02/21 19:06	1
Molybdenum	0.024		0.0050		mg/L		09/02/21 08:58	09/02/21 19:06	1
Selenium	0.015		0.0025		mg/L		09/02/21 08:58	09/02/21 19:06	1
Thallium	<0.0020		0.0020		mg/L		09/02/21 08:58	09/02/21 19:06	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/31/21 09:35	09/01/21 07:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1500		10		mg/L			08/27/21 05:09	1
Chloride	180		10		mg/L			09/10/21 15:34	5
Fluoride	0.52		0.10		mg/L			09/10/21 13:28	1
Sulfate	470		100		mg/L			09/16/21 15:17	20

Client Sample Results

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

Job ID: 500-204293-1

Client Sample ID: MW-17

Lab Sample ID: 500-204293-2

Date Collected: 08/23/21 15:41

Matrix: Water

Date Received: 08/25/21 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.017		0.010		mg/L		09/02/21 08:58	09/03/21 12:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		09/02/21 08:58	09/02/21 19:09	1
Arsenic	0.0058		0.0010		mg/L		09/02/21 08:58	09/02/21 19:09	1
Barium	0.028		0.0025		mg/L		09/02/21 08:58	09/02/21 19:09	1
Beryllium	<0.0010		0.0010		mg/L		09/02/21 08:58	09/02/21 19:09	1
Boron	0.92		0.25		mg/L		09/02/21 08:58	09/03/21 14:41	5
Cadmium	<0.00050		0.00050		mg/L		09/02/21 08:58	09/02/21 19:09	1
Calcium	140		0.20		mg/L		09/02/21 08:58	09/02/21 19:09	1
Chromium	<0.0050		0.0050		mg/L		09/02/21 08:58	09/02/21 19:09	1
Cobalt	<0.0010		0.0010		mg/L		09/02/21 08:58	09/02/21 19:09	1
Lead	<0.00050		0.00050		mg/L		09/02/21 08:58	09/02/21 19:09	1
Molybdenum	0.043		0.0050		mg/L		09/02/21 08:58	09/02/21 19:09	1
Selenium	<0.0025		0.0025		mg/L		09/02/21 08:58	09/02/21 19:09	1
Thallium	<0.0020		0.0020		mg/L		09/02/21 08:58	09/02/21 19:09	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/31/21 09:35	09/01/21 07:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1100		10		mg/L			08/27/21 05:12	1
Chloride	150		10		mg/L			09/10/21 15:50	5
Fluoride	0.70		0.10		mg/L			09/10/21 13:31	1
Sulfate	500		100		mg/L			09/16/21 15:18	20

Client Sample Results

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

Job ID: 500-204293-1

Client Sample ID: MW-01

Lab Sample ID: 500-204293-3

Date Collected: 08/24/21 15:07

Matrix: Water

Date Received: 08/25/21 15:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		09/02/21 08:58	09/03/21 12:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		09/02/21 08:58	09/02/21 19:13	1
Arsenic	<0.0010		0.0010		mg/L		09/02/21 08:58	09/02/21 19:13	1
Barium	0.060		0.0025		mg/L		09/02/21 08:58	09/02/21 19:13	1
Beryllium	<0.0010		0.0010		mg/L		09/02/21 08:58	09/02/21 19:13	1
Boron	0.26		0.050		mg/L		09/02/21 08:58	09/03/21 14:45	1
Cadmium	<0.00050		0.00050		mg/L		09/02/21 08:58	09/02/21 19:13	1
Calcium	98		0.20		mg/L		09/02/21 08:58	09/02/21 19:13	1
Chromium	<0.0050		0.0050		mg/L		09/02/21 08:58	09/02/21 19:13	1
Cobalt	<0.0010		0.0010		mg/L		09/02/21 08:58	09/02/21 19:13	1
Lead	<0.00050		0.00050		mg/L		09/02/21 08:58	09/02/21 19:13	1
Molybdenum	0.0069		0.0050		mg/L		09/02/21 08:58	09/02/21 19:13	1
Selenium	<0.0025		0.0025		mg/L		09/02/21 08:58	09/02/21 19:13	1
Thallium	<0.0020		0.0020		mg/L		09/02/21 08:58	09/02/21 19:13	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/31/21 09:35	09/01/21 07:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	450		10		mg/L			08/27/21 05:14	1
Chloride	40		2.0		mg/L			09/10/21 15:50	1
Fluoride	0.18		0.10		mg/L			09/10/21 13:34	1
Sulfate	56		25		mg/L			09/16/21 15:23	5

Client Sample Results

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

Job ID: 500-204293-1

Client Sample ID: MW-08

Lab Sample ID: 500-204293-4

Date Collected: 08/25/21 11:02

Matrix: Water

Date Received: 08/26/21 16:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.018		0.010		mg/L		09/02/21 08:58	09/03/21 12:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		09/02/21 08:58	09/02/21 19:16	1
Arsenic	0.0015		0.0010		mg/L		09/02/21 08:58	09/02/21 19:16	1
Barium	0.059		0.0025		mg/L		09/02/21 08:58	09/02/21 19:16	1
Beryllium	<0.0010		0.0010		mg/L		09/02/21 08:58	09/02/21 19:16	1
Boron	0.60		0.050		mg/L		09/02/21 08:58	09/03/21 14:48	1
Cadmium	<0.00050		0.00050		mg/L		09/02/21 08:58	09/02/21 19:16	1
Calcium	100		0.20		mg/L		09/02/21 08:58	09/02/21 19:16	1
Chromium	<0.0050		0.0050		mg/L		09/02/21 08:58	09/02/21 19:16	1
Cobalt	<0.0010		0.0010		mg/L		09/02/21 08:58	09/02/21 19:16	1
Lead	<0.00050		0.00050		mg/L		09/02/21 08:58	09/02/21 19:16	1
Molybdenum	0.011		0.0050		mg/L		09/02/21 08:58	09/02/21 19:16	1
Selenium	<0.0025		0.0025		mg/L		09/02/21 08:58	09/02/21 19:16	1
Thallium	<0.0020		0.0020		mg/L		09/02/21 08:58	09/02/21 19:16	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/31/21 09:35	09/01/21 07:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	550		10		mg/L			08/27/21 05:17	1
Chloride	110		20		mg/L			09/10/21 15:51	10
Fluoride	0.35		0.10		mg/L			09/10/21 13:37	1
Sulfate	100		50		mg/L			09/16/21 15:19	10

Client Sample Results

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

Job ID: 500-204293-1

Client Sample ID: MW-09

Lab Sample ID: 500-204293-5

Date Collected: 08/25/21 15:21

Matrix: Water

Date Received: 08/26/21 16:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		09/02/21 08:58	09/03/21 12:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		09/02/21 08:58	09/02/21 19:20	1
Arsenic	<0.0010		0.0010		mg/L		09/02/21 08:58	09/02/21 19:20	1
Barium	0.035		0.0025		mg/L		09/02/21 08:58	09/02/21 19:20	1
Beryllium	<0.0010		0.0010		mg/L		09/02/21 08:58	09/02/21 19:20	1
Boron	2.2		0.50		mg/L		09/02/21 08:58	09/03/21 14:51	10
Cadmium	<0.00050		0.00050		mg/L		09/02/21 08:58	09/02/21 19:20	1
Calcium	80		0.20		mg/L		09/02/21 08:58	09/02/21 19:20	1
Chromium	<0.0050		0.0050		mg/L		09/02/21 08:58	09/02/21 19:20	1
Cobalt	<0.0010		0.0010		mg/L		09/02/21 08:58	09/02/21 19:20	1
Lead	<0.00050		0.00050		mg/L		09/02/21 08:58	09/02/21 19:20	1
Molybdenum	0.022		0.0050		mg/L		09/02/21 08:58	09/02/21 19:20	1
Selenium	<0.0025		0.0025		mg/L		09/02/21 08:58	09/02/21 19:20	1
Thallium	<0.0020		0.0020		mg/L		09/02/21 08:58	09/02/21 19:20	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/31/21 09:35	09/01/21 07:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	420		10		mg/L			08/27/21 05:20	1
Chloride	32		2.0		mg/L			09/10/21 15:51	1
Fluoride	0.17		0.10		mg/L			09/10/21 13:41	1
Sulfate	130		25		mg/L			09/16/21 15:19	5

Client Sample Results

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

Job ID: 500-204293-1

Client Sample ID: MW-11

Lab Sample ID: 500-204293-6

Date Collected: 08/25/21 13:37

Matrix: Water

Date Received: 08/26/21 16:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		09/02/21 08:58	09/03/21 12:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		09/02/21 08:58	09/02/21 19:23	1
Arsenic	0.015		0.0010		mg/L		09/02/21 08:58	09/02/21 19:23	1
Barium	0.16		0.0025		mg/L		09/02/21 08:58	09/02/21 19:23	1
Beryllium	<0.0010		0.0010		mg/L		09/02/21 08:58	09/02/21 19:23	1
Boron	0.88		0.10		mg/L		09/02/21 08:58	09/03/21 14:55	2
Cadmium	<0.00050		0.00050		mg/L		09/02/21 08:58	09/02/21 19:23	1
Calcium	100		0.20		mg/L		09/02/21 08:58	09/02/21 19:23	1
Chromium	<0.0050		0.0050		mg/L		09/02/21 08:58	09/02/21 19:23	1
Cobalt	0.0016		0.0010		mg/L		09/02/21 08:58	09/02/21 19:23	1
Lead	<0.00050		0.00050		mg/L		09/02/21 08:58	09/02/21 19:23	1
Molybdenum	0.030		0.0050		mg/L		09/02/21 08:58	09/02/21 19:23	1
Selenium	<0.0025		0.0025		mg/L		09/02/21 08:58	09/02/21 19:23	1
Thallium	<0.0020		0.0020		mg/L		09/02/21 08:58	09/02/21 19:23	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/31/21 09:35	09/01/21 08:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	800		10		mg/L			08/27/21 05:22	1
Chloride	100		10		mg/L			09/10/21 15:51	5
Fluoride	0.65		0.10		mg/L			09/10/21 13:44	1
Sulfate	210		50		mg/L			09/16/21 15:19	10

Client Sample Results

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

Job ID: 500-204293-1

Client Sample ID: MW-12

Lab Sample ID: 500-204293-7

Date Collected: 08/25/21 12:22

Matrix: Water

Date Received: 08/26/21 16:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		09/02/21 08:58	09/03/21 12:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		09/02/21 08:58	09/02/21 19:27	1
Arsenic	0.0083		0.0010		mg/L		09/02/21 08:58	09/02/21 19:27	1
Barium	0.040		0.0025		mg/L		09/02/21 08:58	09/02/21 19:27	1
Beryllium	<0.0010		0.0010		mg/L		09/02/21 08:58	09/02/21 19:27	1
Boron	0.50		0.050		mg/L		09/02/21 08:58	09/03/21 14:58	1
Cadmium	<0.00050		0.00050		mg/L		09/02/21 08:58	09/02/21 19:27	1
Calcium	82		0.20		mg/L		09/02/21 08:58	09/02/21 19:27	1
Chromium	<0.0050		0.0050		mg/L		09/02/21 08:58	09/02/21 19:27	1
Cobalt	<0.0010		0.0010		mg/L		09/02/21 08:58	09/02/21 19:27	1
Lead	<0.00050		0.00050		mg/L		09/02/21 08:58	09/02/21 19:27	1
Molybdenum	0.019		0.0050		mg/L		09/02/21 08:58	09/02/21 19:27	1
Selenium	<0.0025		0.0025		mg/L		09/02/21 08:58	09/02/21 19:27	1
Thallium	<0.0020		0.0020		mg/L		09/02/21 08:58	09/02/21 19:27	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/31/21 09:35	09/01/21 08:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	740		10		mg/L			08/27/21 05:25	1
Chloride	130		10		mg/L			09/10/21 15:51	5
Fluoride	0.46		0.10		mg/L			09/10/21 13:47	1
Sulfate	220		50		mg/L			09/16/21 15:20	10

Client Sample Results

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

Job ID: 500-204293-1

Client Sample ID: Duplicate

Lab Sample ID: 500-204293-8

Date Collected: 08/25/21 11:02

Matrix: Water

Date Received: 08/26/21 16:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.018		0.010		mg/L		09/02/21 08:58	09/03/21 13:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		09/02/21 08:58	09/02/21 19:31	1
Arsenic	0.0014		0.0010		mg/L		09/02/21 08:58	09/02/21 19:31	1
Barium	0.059		0.0025		mg/L		09/02/21 08:58	09/02/21 19:31	1
Beryllium	<0.0010		0.0010		mg/L		09/02/21 08:58	09/02/21 19:31	1
Boron	0.60		0.050		mg/L		09/02/21 08:58	09/03/21 15:02	1
Cadmium	<0.00050		0.00050		mg/L		09/02/21 08:58	09/02/21 19:31	1
Calcium	100		0.20		mg/L		09/02/21 08:58	09/02/21 19:31	1
Chromium	<0.0050		0.0050		mg/L		09/02/21 08:58	09/02/21 19:31	1
Cobalt	<0.0010		0.0010		mg/L		09/02/21 08:58	09/02/21 19:31	1
Lead	<0.00050		0.00050		mg/L		09/02/21 08:58	09/02/21 19:31	1
Molybdenum	0.011		0.0050		mg/L		09/02/21 08:58	09/02/21 19:31	1
Selenium	<0.0025		0.0025		mg/L		09/02/21 08:58	09/02/21 19:31	1
Thallium	<0.0020		0.0020		mg/L		09/02/21 08:58	09/02/21 19:31	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/31/21 09:35	09/01/21 08:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	440		10		mg/L			08/31/21 00:28	1
Chloride	100		10		mg/L			09/10/21 15:52	5
Fluoride	0.35		0.10		mg/L			09/10/21 14:00	1
Sulfate	110		25		mg/L			09/16/21 15:20	5

Client Sample Results

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

Job ID: 500-204293-1

Client Sample ID: MW-18

Lab Sample ID: 500-204293-9

Date Collected: 08/26/21 09:06

Matrix: Water

Date Received: 08/27/21 16:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.014		0.010		mg/L		09/02/21 08:58	09/03/21 13:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		09/02/21 08:58	09/02/21 19:41	1
Arsenic	0.0023		0.0010		mg/L		09/02/21 08:58	09/02/21 19:41	1
Barium	0.13		0.0025		mg/L		09/02/21 08:58	09/02/21 19:41	1
Beryllium	<0.0010		0.0010		mg/L		09/02/21 08:58	09/02/21 19:41	1
Boron	0.52		0.050		mg/L		09/02/21 08:58	09/03/21 15:12	1
Cadmium	<0.00050		0.00050		mg/L		09/02/21 08:58	09/02/21 19:41	1
Calcium	140		0.20		mg/L		09/02/21 08:58	09/02/21 19:41	1
Chromium	<0.0050		0.0050		mg/L		09/02/21 08:58	09/02/21 19:41	1
Cobalt	<0.0010		0.0010		mg/L		09/02/21 08:58	09/02/21 19:41	1
Lead	<0.00050		0.00050		mg/L		09/02/21 08:58	09/02/21 19:41	1
Molybdenum	0.030		0.0050		mg/L		09/02/21 08:58	09/02/21 19:41	1
Selenium	<0.0025		0.0025		mg/L		09/02/21 08:58	09/02/21 19:41	1
Thallium	<0.0020		0.0020		mg/L		09/02/21 08:58	09/02/21 19:41	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/31/21 09:35	09/01/21 08:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1000		10		mg/L			08/31/21 00:31	1
Chloride	140		10		mg/L			09/10/21 15:52	5
Fluoride	0.56		0.10		mg/L			09/10/21 14:03	1
Sulfate	340		100		mg/L			09/16/21 15:27	20

Client Sample Results

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

Job ID: 500-204293-1

Client Sample ID: MW-19

Lab Sample ID: 500-204293-10

Date Collected: 08/26/21 10:06

Matrix: Water

Date Received: 08/27/21 16:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		09/02/21 08:58	09/03/21 13:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		09/02/21 08:58	09/02/21 19:45	1
Arsenic	<0.0010		0.0010		mg/L		09/02/21 08:58	09/02/21 19:45	1
Barium	0.066		0.0025		mg/L		09/02/21 08:58	09/02/21 19:45	1
Beryllium	<0.0010		0.0010		mg/L		09/02/21 08:58	09/02/21 19:45	1
Boron	2.1		0.50		mg/L		09/02/21 08:58	09/03/21 15:15	10
Cadmium	<0.00050		0.00050		mg/L		09/02/21 08:58	09/02/21 19:45	1
Calcium	85		0.20		mg/L		09/02/21 08:58	09/02/21 19:45	1
Chromium	<0.0050		0.0050		mg/L		09/02/21 08:58	09/02/21 19:45	1
Cobalt	<0.0010		0.0010		mg/L		09/02/21 08:58	09/02/21 19:45	1
Lead	<0.00050		0.00050		mg/L		09/02/21 08:58	09/02/21 19:45	1
Molybdenum	0.028		0.0050		mg/L		09/02/21 08:58	09/02/21 19:45	1
Selenium	<0.0025		0.0025		mg/L		09/02/21 08:58	09/02/21 19:45	1
Thallium	<0.0020		0.0020		mg/L		09/02/21 08:58	09/02/21 19:45	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/31/21 09:35	09/01/21 08:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	320		10		mg/L			08/31/21 00:33	1
Chloride	32		2.0		mg/L			09/10/21 15:52	1
Fluoride	0.11		0.10		mg/L			09/10/21 14:07	1
Sulfate	130		25		mg/L			09/16/21 15:22	5

Definitions/Glossary

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

Job ID: 500-204293-1

Qualifiers

General Chemistry

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

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

QC Association Summary

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

Job ID: 500-204293-1

Metals

Prep Batch: 616694

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-204293-1	MW-15	Total/NA	Water	7470A	
500-204293-2	MW-17	Total/NA	Water	7470A	
500-204293-3	MW-01	Total/NA	Water	7470A	
500-204293-4	MW-08	Total/NA	Water	7470A	
500-204293-5	MW-09	Total/NA	Water	7470A	
500-204293-6	MW-11	Total/NA	Water	7470A	
500-204293-7	MW-12	Total/NA	Water	7470A	
500-204293-8	Duplicate	Total/NA	Water	7470A	
500-204293-9	MW-18	Total/NA	Water	7470A	
500-204293-10	MW-19	Total/NA	Water	7470A	
MB 500-616694/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-616694/13-A	Lab Control Sample	Total/NA	Water	7470A	
500-204293-5 MS	MW-09	Total/NA	Water	7470A	
500-204293-5 MSD	MW-09	Total/NA	Water	7470A	
500-204293-5 DU	MW-09	Total/NA	Water	7470A	

Analysis Batch: 616923

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-204293-1	MW-15	Total/NA	Water	7470A	616694
500-204293-2	MW-17	Total/NA	Water	7470A	616694
500-204293-3	MW-01	Total/NA	Water	7470A	616694
500-204293-4	MW-08	Total/NA	Water	7470A	616694
500-204293-5	MW-09	Total/NA	Water	7470A	616694
500-204293-6	MW-11	Total/NA	Water	7470A	616694
500-204293-7	MW-12	Total/NA	Water	7470A	616694
500-204293-8	Duplicate	Total/NA	Water	7470A	616694
500-204293-9	MW-18	Total/NA	Water	7470A	616694
500-204293-10	MW-19	Total/NA	Water	7470A	616694
MB 500-616694/12-A	Method Blank	Total/NA	Water	7470A	616694
LCS 500-616694/13-A	Lab Control Sample	Total/NA	Water	7470A	616694
500-204293-5 MS	MW-09	Total/NA	Water	7470A	616694
500-204293-5 MSD	MW-09	Total/NA	Water	7470A	616694
500-204293-5 DU	MW-09	Total/NA	Water	7470A	616694

Prep Batch: 617063

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-204293-1	MW-15	Total Recoverable	Water	3005A	
500-204293-2	MW-17	Total Recoverable	Water	3005A	
500-204293-3	MW-01	Total Recoverable	Water	3005A	
500-204293-4	MW-08	Total Recoverable	Water	3005A	
500-204293-5	MW-09	Total Recoverable	Water	3005A	
500-204293-6	MW-11	Total Recoverable	Water	3005A	
500-204293-7	MW-12	Total Recoverable	Water	3005A	
500-204293-8	Duplicate	Total Recoverable	Water	3005A	
500-204293-9	MW-18	Total Recoverable	Water	3005A	
500-204293-10	MW-19	Total Recoverable	Water	3005A	
MB 500-617063/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-617063/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Eurofins TestAmerica, Chicago

QC Association Summary

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

Job ID: 500-204293-1

Metals

Analysis Batch: 617270

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-204293-1	MW-15	Total Recoverable	Water	6020A	617063
500-204293-2	MW-17	Total Recoverable	Water	6020A	617063
500-204293-3	MW-01	Total Recoverable	Water	6020A	617063
500-204293-4	MW-08	Total Recoverable	Water	6020A	617063
500-204293-5	MW-09	Total Recoverable	Water	6020A	617063
500-204293-6	MW-11	Total Recoverable	Water	6020A	617063
500-204293-7	MW-12	Total Recoverable	Water	6020A	617063
500-204293-8	Duplicate	Total Recoverable	Water	6020A	617063
500-204293-9	MW-18	Total Recoverable	Water	6020A	617063
500-204293-10	MW-19	Total Recoverable	Water	6020A	617063
MB 500-617063/1-A	Method Blank	Total Recoverable	Water	6020A	617063
LCS 500-617063/2-A	Lab Control Sample	Total Recoverable	Water	6020A	617063

Analysis Batch: 617324

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-204293-1	MW-15	Total Recoverable	Water	6010C	617063
500-204293-2	MW-17	Total Recoverable	Water	6010C	617063
500-204293-3	MW-01	Total Recoverable	Water	6010C	617063
500-204293-4	MW-08	Total Recoverable	Water	6010C	617063
500-204293-5	MW-09	Total Recoverable	Water	6010C	617063
500-204293-6	MW-11	Total Recoverable	Water	6010C	617063
500-204293-7	MW-12	Total Recoverable	Water	6010C	617063
500-204293-8	Duplicate	Total Recoverable	Water	6010C	617063
500-204293-9	MW-18	Total Recoverable	Water	6010C	617063
500-204293-10	MW-19	Total Recoverable	Water	6010C	617063
MB 500-617063/1-A	Method Blank	Total Recoverable	Water	6010C	617063
LCS 500-617063/2-A	Lab Control Sample	Total Recoverable	Water	6010C	617063

Analysis Batch: 617331

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-204293-1	MW-15	Total Recoverable	Water	6020A	617063
500-204293-2	MW-17	Total Recoverable	Water	6020A	617063
500-204293-3	MW-01	Total Recoverable	Water	6020A	617063
500-204293-4	MW-08	Total Recoverable	Water	6020A	617063
500-204293-5	MW-09	Total Recoverable	Water	6020A	617063
500-204293-6	MW-11	Total Recoverable	Water	6020A	617063
500-204293-7	MW-12	Total Recoverable	Water	6020A	617063
500-204293-8	Duplicate	Total Recoverable	Water	6020A	617063
500-204293-9	MW-18	Total Recoverable	Water	6020A	617063
500-204293-10	MW-19	Total Recoverable	Water	6020A	617063
MB 500-617063/1-A	Method Blank	Total Recoverable	Water	6020A	617063
LCS 500-617063/2-A	Lab Control Sample	Total Recoverable	Water	6020A	617063

General Chemistry

Analysis Batch: 616103

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-204293-1	MW-15	Total/NA	Water	SM 2540C	
500-204293-2	MW-17	Total/NA	Water	SM 2540C	
500-204293-3	MW-01	Total/NA	Water	SM 2540C	
500-204293-4	MW-08	Total/NA	Water	SM 2540C	

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QC Association Summary

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

Job ID: 500-204293-1

General Chemistry (Continued)

Analysis Batch: 616103 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-204293-5	MW-09	Total/NA	Water	SM 2540C	
500-204293-6	MW-11	Total/NA	Water	SM 2540C	
500-204293-7	MW-12	Total/NA	Water	SM 2540C	
MB 500-616103/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-616103/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 616591

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-204293-8	Duplicate	Total/NA	Water	SM 2540C	
500-204293-9	MW-18	Total/NA	Water	SM 2540C	
500-204293-10	MW-19	Total/NA	Water	SM 2540C	
MB 500-616591/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-616591/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 618117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-204293-1	MW-15	Total/NA	Water	SM 4500 F C	
500-204293-2	MW-17	Total/NA	Water	SM 4500 F C	
500-204293-3	MW-01	Total/NA	Water	SM 4500 F C	
500-204293-4	MW-08	Total/NA	Water	SM 4500 F C	
500-204293-5	MW-09	Total/NA	Water	SM 4500 F C	
500-204293-6	MW-11	Total/NA	Water	SM 4500 F C	
500-204293-7	MW-12	Total/NA	Water	SM 4500 F C	
500-204293-8	Duplicate	Total/NA	Water	SM 4500 F C	
500-204293-9	MW-18	Total/NA	Water	SM 4500 F C	
500-204293-10	MW-19	Total/NA	Water	SM 4500 F C	
MB 500-618117/29	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-618117/30	Lab Control Sample	Total/NA	Water	SM 4500 F C	

Analysis Batch: 618135

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-204293-1	MW-15	Total/NA	Water	SM 4500 Cl- E	
500-204293-2	MW-17	Total/NA	Water	SM 4500 Cl- E	
500-204293-3	MW-01	Total/NA	Water	SM 4500 Cl- E	
500-204293-4	MW-08	Total/NA	Water	SM 4500 Cl- E	
500-204293-5	MW-09	Total/NA	Water	SM 4500 Cl- E	
500-204293-6	MW-11	Total/NA	Water	SM 4500 Cl- E	
500-204293-7	MW-12	Total/NA	Water	SM 4500 Cl- E	
500-204293-8	Duplicate	Total/NA	Water	SM 4500 Cl- E	
500-204293-9	MW-18	Total/NA	Water	SM 4500 Cl- E	
500-204293-10	MW-19	Total/NA	Water	SM 4500 Cl- E	
MB 500-618135/39	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 500-618135/40	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 618960

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-204293-1	MW-15	Total/NA	Water	SM 4500 SO4 E	
500-204293-2	MW-17	Total/NA	Water	SM 4500 SO4 E	
500-204293-3	MW-01	Total/NA	Water	SM 4500 SO4 E	
500-204293-4	MW-08	Total/NA	Water	SM 4500 SO4 E	
500-204293-5	MW-09	Total/NA	Water	SM 4500 SO4 E	

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QC Association Summary

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

Job ID: 500-204293-1

General Chemistry (Continued)

Analysis Batch: 618960 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-204293-6	MW-11	Total/NA	Water	SM 4500 SO4 E	
500-204293-7	MW-12	Total/NA	Water	SM 4500 SO4 E	
500-204293-8	Duplicate	Total/NA	Water	SM 4500 SO4 E	
500-204293-9	MW-18	Total/NA	Water	SM 4500 SO4 E	
500-204293-10	MW-19	Total/NA	Water	SM 4500 SO4 E	
MB 500-618960/85	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-618960/90	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
500-204293-1 MS	MW-15	Total/NA	Water	SM 4500 SO4 E	
500-204293-1 MSD	MW-15	Total/NA	Water	SM 4500 SO4 E	

QC Sample Results

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

Job ID: 500-204293-1

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 500-617063/1-A
Matrix: Water
Analysis Batch: 617324

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 617063

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		09/02/21 08:58	09/03/21 12:17	1

Lab Sample ID: LCS 500-617063/2-A
Matrix: Water
Analysis Batch: 617324

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 617063

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lithium	0.500	0.518		mg/L		104	80 - 120

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 500-617063/1-A
Matrix: Water
Analysis Batch: 617270

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 617063

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		09/02/21 08:58	09/02/21 18:58	1
Arsenic	<0.0010		0.0010		mg/L		09/02/21 08:58	09/02/21 18:58	1
Barium	<0.0025		0.0025		mg/L		09/02/21 08:58	09/02/21 18:58	1
Beryllium	<0.0010		0.0010		mg/L		09/02/21 08:58	09/02/21 18:58	1
Cadmium	<0.00050		0.00050		mg/L		09/02/21 08:58	09/02/21 18:58	1
Calcium	<0.20		0.20		mg/L		09/02/21 08:58	09/02/21 18:58	1
Chromium	<0.0050		0.0050		mg/L		09/02/21 08:58	09/02/21 18:58	1
Cobalt	<0.0010		0.0010		mg/L		09/02/21 08:58	09/02/21 18:58	1
Lead	<0.00050		0.00050		mg/L		09/02/21 08:58	09/02/21 18:58	1
Molybdenum	<0.0050		0.0050		mg/L		09/02/21 08:58	09/02/21 18:58	1
Selenium	<0.0025		0.0025		mg/L		09/02/21 08:58	09/02/21 18:58	1
Thallium	<0.0020		0.0020		mg/L		09/02/21 08:58	09/02/21 18:58	1

Lab Sample ID: MB 500-617063/1-A
Matrix: Water
Analysis Batch: 617331

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 617063

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.050		0.050		mg/L		09/02/21 08:58	09/03/21 14:31	1

Lab Sample ID: LCS 500-617063/2-A
Matrix: Water
Analysis Batch: 617270

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 617063

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.500	0.507		mg/L		101	80 - 120
Arsenic	0.100	0.0985		mg/L		99	80 - 120
Barium	2.00	1.96		mg/L		98	80 - 120
Beryllium	0.0500	0.0477		mg/L		95	80 - 120
Cadmium	0.0500	0.0491		mg/L		98	80 - 120
Calcium	10.0	9.59		mg/L		96	80 - 120
Chromium	0.200	0.202		mg/L		101	80 - 120
Cobalt	0.500	0.496		mg/L		99	80 - 120
Lead	0.100	0.105		mg/L		105	80 - 120

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QC Sample Results

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

Job ID: 500-204293-1

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

Lab Sample ID: LCS 500-617063/2-A
Matrix: Water
Analysis Batch: 617270

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 617063

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Molybdenum	1.00	0.953		mg/L		95	80 - 120
Selenium	0.100	0.100		mg/L		100	80 - 120
Thallium	0.100	0.107		mg/L		107	80 - 120

Lab Sample ID: LCS 500-617063/2-A
Matrix: Water
Analysis Batch: 617331

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 617063

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	1.00	0.940		mg/L		94	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-616694/12-A
Matrix: Water
Analysis Batch: 616923

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 616694

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/31/21 09:35	09/01/21 07:24	1

Lab Sample ID: LCS 500-616694/13-A
Matrix: Water
Analysis Batch: 616923

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 616694

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

Lab Sample ID: 500-204293-5 MS
Matrix: Water
Analysis Batch: 616923

Client Sample ID: MW-09
Prep Type: Total/NA
Prep Batch: 616694

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	<0.00020		0.00100	0.000971		mg/L		97	75 - 125

Lab Sample ID: 500-204293-5 MSD
Matrix: Water
Analysis Batch: 616923

Client Sample ID: MW-09
Prep Type: Total/NA
Prep Batch: 616694

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	<0.00020		0.00100	0.000975		mg/L		98	75 - 125	0	20

Lab Sample ID: 500-204293-5 DU
Matrix: Water
Analysis Batch: 616923

Client Sample ID: MW-09
Prep Type: Total/NA
Prep Batch: 616694

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

QC Sample Results

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

Job ID: 500-204293-1

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

Lab Sample ID: MB 500-616103/1
Matrix: Water
Analysis Batch: 616103

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			08/27/21 04:31	1

Lab Sample ID: LCS 500-616103/2
Matrix: Water
Analysis Batch: 616103

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: MB 500-616591/1
Matrix: Water
Analysis Batch: 616591

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			08/30/21 23:50	1

Lab Sample ID: LCS 500-616591/2
Matrix: Water
Analysis Batch: 616591

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	250	266		mg/L		106	80 - 120

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 500-618135/39
Matrix: Water
Analysis Batch: 618135

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			09/10/21 15:29	1

Lab Sample ID: LCS 500-618135/40
Matrix: Water
Analysis Batch: 618135

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

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

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-618117/29
Matrix: Water
Analysis Batch: 618117

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			09/10/21 12:45	1

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QC Sample Results

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

Job ID: 500-204293-1

Method: SM 4500 F C - Fluoride (Continued)

Lab Sample ID: LCS 500-618117/30
Matrix: Water
Analysis Batch: 618117

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	10.7		mg/L		107	90 - 119

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 500-618960/85
Matrix: Water
Analysis Batch: 618960

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			09/16/21 15:16	1

Lab Sample ID: LCS 500-618960/90
Matrix: Water
Analysis Batch: 618960

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	20.8		mg/L		104	88 - 123

Lab Sample ID: 500-204293-1 MS
Matrix: Water
Analysis Batch: 618960

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	470		20.0	487	4	mg/L		86	75 - 125

Lab Sample ID: 500-204293-1 MSD
Matrix: Water
Analysis Batch: 618960

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	470		20.0	487	4	mg/L		88	75 - 125	0	20

University Park IL 60484-3101
phone 708 534 5200 fax 708 534 5211

Regulatory Program: DW NPDES RCRA Other


TestAmerica Laboratories, Inc.

Client Contact KPRG and Associates Inc 14665 West Lisbon Road Suite 1A Brookfield WI 53154 (262) 781-0475 Phone (262) 781-0478 FAX Project Name Powerton CCR Site Powerton Station - Pekin IL		Project Manager: Rich Gnat Tel/Fax: (262) 781-0475 Analysis Turnaround Time <input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Site Contact: Mitchel Dolan Lab Contact: Diana Mockler Date: Carrier: Fe		COC No of COCs Sampler: M Dolan For Lab Use Only: Walk-in Client Lab Sampling Job / SDG No 500-204293															
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	903.0 904.0 Radium 226/228 + Combined	6020A, 7470A - 14 Metals & Mercury	6010C - Lithium	4500_F_C - Fluoride	SM4500_CL_E - Chloride	SM4500_SO4_E - Sulfate	2540C - TDS	500-204293 COC	Sample Specific Notes				
3 MW-01		8/24	15:27	G	W	7	N	N	X	X	X	X	X	X							
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other								4 4 4 1 1 1 1								Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)					
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 <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown								<input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months								Special Instructions/QC Requirements & Comments: Lab Project 50011612 CCR Appendix III and Appendix IV Parameters 14 Metals for analysis = Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chloride, Chromium, Cobalt, Lead, Molybdenum, Selenium, Thallium 1679170 1679171 1679168					
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No 1679172, 1679173		Cooler Temp (°C) Obs'd 10.8		Corr'd		Therm ID No		Relinquished by Mitchel Dolan Michael Less		Company KPRG		Date/Time 8/24/18-00		Received by FedEx		Company		Date/Time	
Relinquished by		Company		Date/Time		Received by		Company		Date/Time		Received in Laboratory by		Company ETA-CHI		Date/Time 8/25/21 1510					

University Park IL 60484-3101
phone 708 534 5200 fax 708 534 5211

Regulatory Program: DW NPDES RCRA Other:

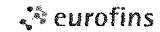
TestAmerica Laboratories, Inc.

Client Contact		Project Manager: Rich Gnat		Site Contact: Mitchel Dolan		Date: 8/25/21		COC No							
KPRG and Associates Inc		Tel/Fax: (262) 781-0475		Lab Contact: Diana Mockler		Carrier: FedEx		_____ of _____ COCs							
14665 West Lisbon Road Suite 1A		Analysis Turnaround Time		Filtered Sample (Y/N) Perform MS / MSD (Y/N) 903.0, 904.0 Radium - 226/228 + Combine 6020A, 7470A - 14 Metals & Mercury 6010C - Lithium 4500_F_C - Fluoride SM4500_CL_E - Chloride SM4500_SO4_E - Sulfate 2540C - TDS		 500-204293 COC		Sampler:							
Brookfield, WI 53154		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____ <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day						For Lab Use Only. Walk-in Client Lab Sampling							
(262) 781-0475 Phone								Job / SDG No							
(262) 781-0478 FAX								500-204293							
Project Name Powerton CCR								Sample Specific Notes							
Site Powerton Station - Pekin, IL															
P O # 4501908159															
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	903.0, 904.0 Radium - 226/228 + Combine	6020A, 7470A - 14 Metals & Mercury	6010C - Lithium	4500_F_C - Fluoride	SM4500_CL_E - Chloride	SM4500_SO4_E - Sulfate	2540C - TDS	Sample Specific Notes
MW-15	8/23/21	1241	G	W	7	N	N	X	X	X	X	X	X	X	
MW-17	8/23/21	1541	G	W	7	N	N	X	X	X	X	X	X	X	
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other							4 4 4 1 1 1 1								
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample							Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)								
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown							<input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months								
Special Instructions/QC Requirements & Comments: Lab Project #50011612.															
CCR Appendix III and Appendix IV Parameters. 14 Metals for analysis = Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chloride, Chromium, Cobalt, Lead, Molybdenum, Selenium, Thallium															
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No			Custody Seal No			Cooler Temp (°C) Obs'd 101			Corr'd			Therm ID No			
Relinquished by Mitchel Dolan <i>Mitch Dolan</i>		Company: KPRG		Date/Time: 8/25/21 1700		Received by		Company:		Date/Time					
Relinquished by		Company:		Date/Time		Received by		Company:		Date/Time					
Relinquished by		Company:		Date/Time		Received in Laboratory by <i>Stephanie Hemminger</i>		Company: ETA-CHI		Date/Time: 8/25/21 1030					


Eurofins TestAmerica, Chicago

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

Chain of Custody Record



Environment Testing
America

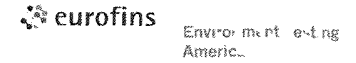
Client Information			Sampler <i>Michael Ressler</i>	Lab PM Mockler Diana J	Carrier Tracking No(s)	COC No 500-94071-41743 1			
Client Contact: Mitchel Dolan			Phone <i>630.602.7240</i>	E-Mail Diana Mockler@Eurofinset.com	State of Origin <i>IL</i>	Page Page 1 of 1			
Company KPRG and Associates Inc			PWSID	Analysis Requested		Job #: <i>500-204293</i>			
Address 14665 West Lisbon Road Suite 1A			Due Date Requested		 500-204293 COC	Preservation Codes A HCL M Hexane B NaOH N None C Zn Acetate O AsNaO2 D Nitric Acid P Na2O4S E NaHSO4 Q Na2SO3 F MeOH R Na2S2O3 G Amchlor S H2SO4 H Ascorbic Acid T TSP Dodecahydrate I Ice U Acetone J DI Water V MCAA K EDTA W pH 4-5 L EDA Z other (specify) Other:			
City Brookfield			TAT Requested (days):						
State, Zip WI 53005			Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No						
Phone 262-781-0475(Tel)			PO # 4502051132						
Email mitcheld@kprginc.com			WO #						
Project Name: Powerton CCR Event Desc Quarterly Powerton CCR Sampling			Project # 50011612						
Site Illinois			SSOW#		Total Number of containers:				
Sample Identification			Sample Date	Sample Time		Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT-Tissue A=Air)	Special Instructions/Note	
Preservation Code			Field Filtered Sample (Yes or No) <input type="checkbox"/> Perform MS/MSD (Yes or No) <input type="checkbox"/> 903 0, 904 0 6010C 6020A, 7470A 2540C 4500_F_C SM4500_Cl_E SM4500_SO4_E SM4500_SO4_E - <i>Sulfate</i>						
MW-01									
4 MW-01 MW-08			8/25	11:02		G	Water		
5 MW-02 MW-09			↓	15:21		↓	Water		
6 MW-03 MW-11			↓	13:37	↓	Water			
7 MW-04 MW-12				12:22	↓	Water			
MW-05						Water			
MW-10						Water			
MW-11						Water			
MW-12						Water			
MW-13						Water			
MW-14						Water			
MW-15						Water			
MW-16						Water			
MW-17						Water			
MW-18						Water			
MW-19						Water			
MW-20						Water			
Possible Hazard Identification			Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)						
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological			<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months						
Deliverable Requested I II III IV Other (specify)			Special Instructions/QC Requirements						
Empty Kit Relinquished by			Date	Time	Method of Shipment				
Relinquished by: <i>Michael Ressler</i>			Date/Time: <i>8/25 17:00</i>	Company: <i>KPRG</i>	Received by: <i>Stephanie Hernandez</i>	Date/Time: <i>9/26/21 16:50</i>			
Relinquished by:			Date/Time:	Company:	Received by:	Date/Time:			
Relinquished by:			Date/Time:	Company:	Received by:	Date/Time:			
Custody Seals Intact. <input type="checkbox"/> Yes <input type="checkbox"/> No			Custody Seal No <i>1655941, 1655942, 1655944</i> <i>1541431, 1541430</i>		Cooler Temperature(s) °C and Other Remarks <i>4, 5, 8, 8, 6, 5, 8</i>				




Eurofins TestAmerica, Chicago

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

Chain of Custody Record



Client Information		Sampler: <u>Manuel Rios</u>		Lab PM: Mockler Diana J		Carrier Tracking No(s)		COC No. 500-94071-41743 1			
Client Contact: Mitchel Dolan		Phone: <u>630.602.7240</u>		E Mail: Diana Mockler@Eurofinset.com		State of Origin: <u>IL</u>		Page 1 of 1			
Company: KPRG and Associates Inc		PWSID:		Analysis Requested					Job #: <u>500-204293</u>		
Address: 14665 West Lisbon Road Suite 1A		Due Date Requested		 500-204293 COC					Preservation Codes A HCL M Hexane B NaOH N None C Zn Acetate O AsNaO2 D Nitric Acid P Na2O4S E NaHSO4 Q Na2SO3 F MeOH R Na2S2O3 G Amchlor S H2SO4 H Ascorbic Acid T TSP Dodecahydrate I Ice U Acetone J DI Water V MCAA K EDTA W pH 4-5 L EDA Z other (specify) Other:		
City: Brookfield		TAT Requested (days)									
State, Zip: WI 53005		Compliance Project <input type="checkbox"/> Yes <input type="checkbox"/> No									
Phone: 262-781-0475(Tel)		PO #: 4502051132									
Email: mitcheld@kprginc.com		WO #		Project #		Project Name		Project Description			
Project Name: Powerton CCR Event Desc Quarterly Powerton CCR Sampling		Project #: 50011612		Project Name: Powerton CCR Event Desc Quarterly Powerton CCR Sampling		Project Description: Quarterly Powerton CCR Sampling					
Site: Illinois		SSOW#		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)					
Sample Identification		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue A=Air)		Special Instructions/Note	
4 MW-04 <u>MW-08</u>		8/25		11:02		G		Water			
5 MW-02 <u>MW-09</u>		↓		15:21		↓		Water			
6 MW-03 <u>MW-11</u>		↓		13:37		↓		Water			
7 MW-04 <u>MW-12</u>		↓		12:22		↓		Water			
8 MW-05								Water			
8 Duplicate								Water		Added by EIA-CHI 8/25/21 SH	

Possible Hazard Identification

Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological

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

Return To Client Disposal By Lab Archive For _____ Months

Deliverable Requested I II III IV Other (specify)

Special Instructions/QC Requirements

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

Relinquished by: Manuel Rios Date/Time: 8/25 17:00 Company: WRG

Relinquished by: _____ Date/Time: _____ Company: _____

Relinquished by: _____ Date/Time: _____ Company: _____

Received by: Stephanie Hernandez Date/Time: 8/26/21 16:50 Company: EIA-CHI


Received by: _____ Date/Time: _____ Company: _____

Received by: _____ Date/Time: _____ Company: _____

Custody Seals Intact Yes No Custody Seal No: 1655941, 1655942, 1655944

Cooler Temperature(s) °C and Other Remarks: 4, 5, 8, 8, 6, 5, 8

Chain of Custody Record

Client Information		Sampler: <i>Michael Riss</i>		Lab PM: Mockler Diana J		Carrier Tracking No(s)		COC No. 500-94072-41744 1	
Client Contact: Mitchel Dolan		Phone: <i>630.602.7240</i>		E-Mail: Diana.Mockler@Eurofinset.com		State of Origin:		Page 1 of 1	
Company: KPRG and Associates, Inc.		PWSID:		Analysis Requested				Job #: <i>500-204293</i>	
Address: 14665 West Lisbon Road Suite 1A		Due Date Requested:		 <p>500-204293 COC</p>				Preservation Codes A HCL M Hexane B NaOH N None C Zn Acetate O AsNaO2 D Nitric Acid P Na2O4S E NaHSO4 Q Na2SO3 F MeOH R Na2S2O3 G Amchlor S H2SO4 H Ascorbic Acid T TSP Dodecahydrate I Ice U Acetone J DI Water V MCAA K EDTA W pH 4-5 L EDA Z other (specify) Other:	
City: Brookfield		TAT Requested (days):							
State, Zip: WI 53005		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No							
Phone: 262-781-0475(Tel)		PO #: 4502051132							
Email: mitcheld@kprginc.com		WO #:							
Project Name: Powerton CCR Event Desc. Quarterly Powerton CCR Sampling		Project #: 50011612		Field Filtered Sample (Yes or No)		Total Number of Containers			
Site: Illinois		SSOW#:		Perform MS/MSD (Yes or No)					
Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	
								Preservation Code: <input checked="" type="checkbox"/> D <input type="checkbox"/> N	
<i>MW-01</i>								Water	
MW-08								Water	
<i>MW-09</i>								Water	
<i>MW-11</i>								Water	
<i>MW-12</i>								Water	
<i>MW-15</i>								Water	
<i>MW-17</i>								Water	
<i>MW-18</i>		<i>8/26</i>		<i>9:06</i>		<i>G</i>		Water	
<i>MW-19</i>		<i>↓</i>		<i>10:06</i>		<i>G</i>		Water	
<i>Trip Blank</i>									
Possible Hazard Identification					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)				
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological					<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months				
Deliverable Requested I, II, III, IV, Other (specify)					Special Instructions/QC Requirements.				
Empty Kit Relinquished by:		Date		Time		Method of Shipment:			
Relinquished by: <i>Michael Riss</i>		Date/Time: <i>8/26/2021 11:45</i>		Company: <i>KPRG</i>		Received by: <i>Stephanie Hemondley</i>		Date/Time: <i>8/27/21 16:12</i>	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No: <i>1655943</i>		Cooler Temperature(s) °C and Other Remarks: <i>5.9</i>					

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

WES MONT, IL 60559
UNITED STATES US

SHIP DATE
ACTWGT: 5
CAD: 6994
DIMS: 23

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

UNIVERSITY PARK IL 60484

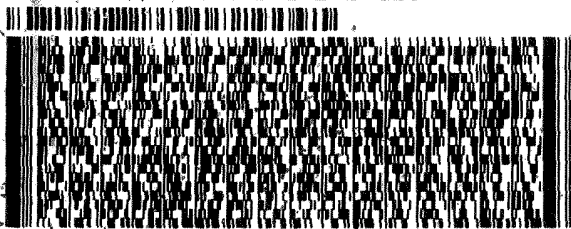
(709) 624-6211

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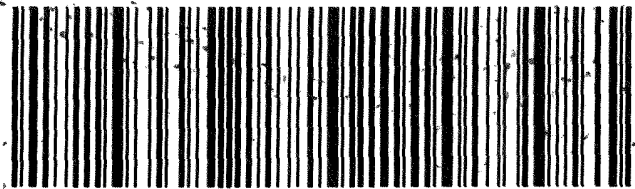
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ORIG ID:PIAA (262) 622-1143
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KIRKLAND ASSOCIATES
444 LAZA DR STE 106
WILSON, IL 60559
UNITED STATES US

SHIP DATE: 24AUG21
ACTWGT: 52.80 LB
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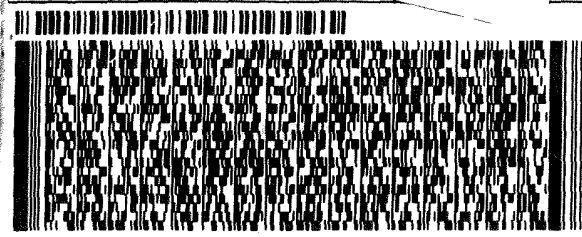


500-204293 Wayb

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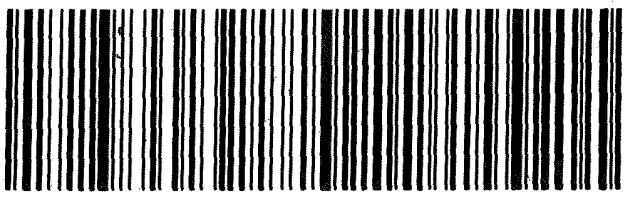


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500-204293 Wayb

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AND ASSOCIATES
414 PLAZA DR STE 106

SHIP DATE: 25AUG21
ACTWTG: 44.05 LB
CAD: 6994780/SSFE2202
DIMS: 20x17x14 IN

Part # 156293W489CBNDYVASEXP 04/22

ORIGIN ID:PIAA (262) 622-1143
LIKE RESS
FRG AND ASSOCIATES
414 PLAZA DR STE 106

SHIP DATE: 25AUG21
ACTWTG: 44.05 LB
CAD: 6994780/SSFE2202
DIMS: 20x17x14 IN

WESTMONT, IL 60559
UNITED STATES US

BILL THIRD PARTY

WESTMONT, IL 60559
UNITED STATES US

BILL THIRD PARTY

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EUROFINS TEST AMERICA
2417 BOND ST**

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

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UNIVERSITY PARK IL 60484

UNIVERSITY PARK IL 60484

(708) 534-5211

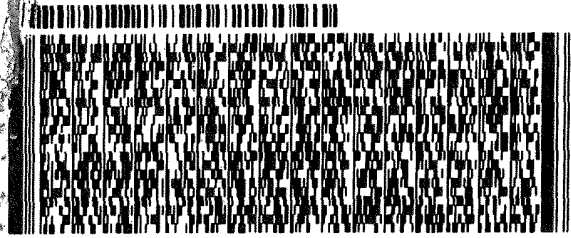
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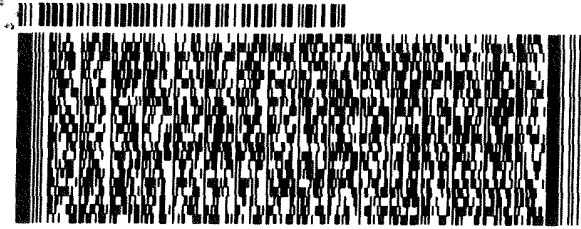
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3 of 4

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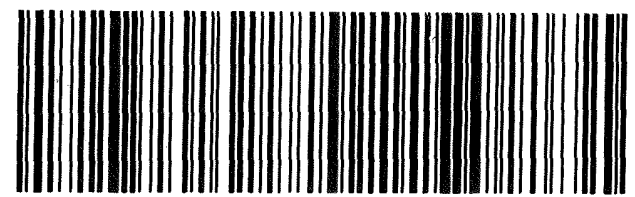
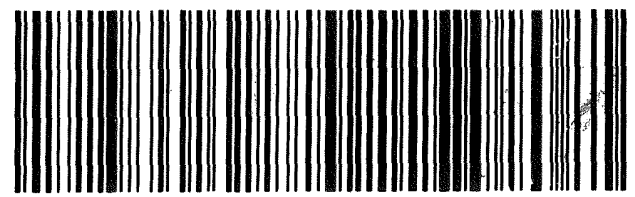
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ORIGIN ID:PIAA (262) 622-1143
MIKE RESS
KPRG AND ASSOCIATES
414 PLAZA DR STE 106

SHIP DATE: 25AUG2
ACTWGT: 44.05 LB
CAD: 6994780/SSFE202
DIMS: 20x17x14 IN

WESTMONT, IL 60559
UNITED STATES US

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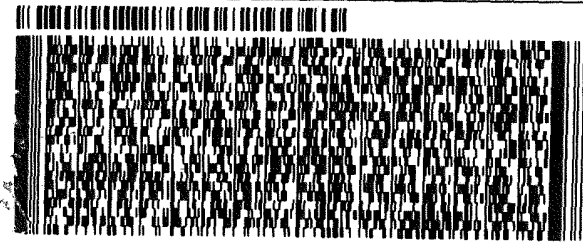
UNIVERSITY PARK IL 60484

(708) 634-6211

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4 of 4

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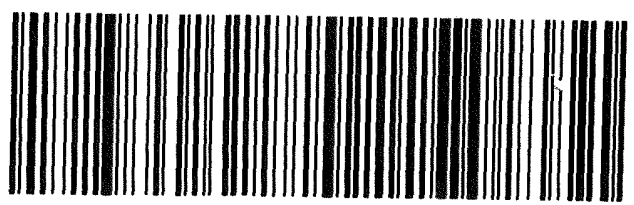
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ORIGIN ID:PIAA (262) 622-1143
MIKE RESS
KPRG AND ASSOCIATES
414 PLAZA DR STE 106

SHIP DATE: 25AUG21
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CAD: 6994780/SSFE2202
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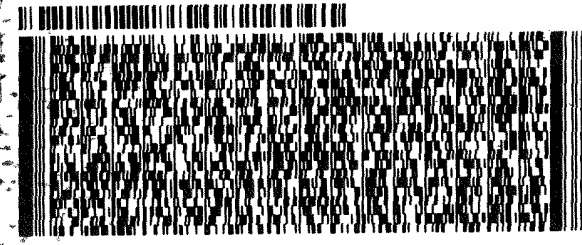
UNIVERSITY PARK IL 60484

(708) 634-6211

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Part # 156297455F-5180V2180XP 04/22

2 of 4

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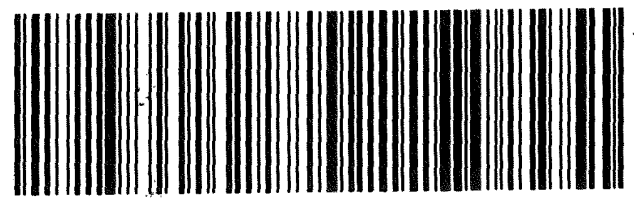
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ORIGIN ID:PIAA (262) 622-1143

KPRG AND ASSOCIATES
414 PLAZA DR STE 106

WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 26AUG21
ACTWGT: 52.00 LB
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Part # 156297-4934F3E3B0WZ-03AP 04/22

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TESTAMERICA CHICAGO
2417 BOND ST

UNIVERSITY PARK IL 60484

(708) 534-5200

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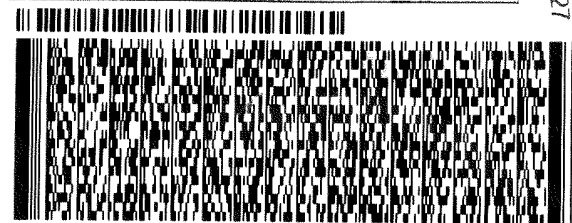
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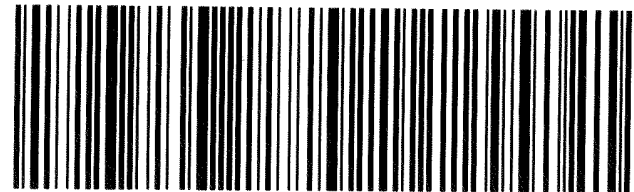
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Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-204293-1

Login Number: 204293

List Source: Eurofins TestAmerica, Chicago

List Number: 1

Creator: Hernandez, Stephanie

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	Water present in cooler; indicates evidence of melted ice.
Cooler Temperature is acceptable.	False	
Cooler Temperature is recorded.	True	10.1,10.8,4.9,5.8,8.6,5.8,5.9
COC is present.	False	
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.	False	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Lab Chronicle

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

Job ID: 500-204293-1

Client Sample ID: MW-15

Lab Sample ID: 500-204293-1

Date Collected: 08/23/21 12:41

Matrix: Water

Date Received: 08/25/21 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			617063	09/02/21 08:58	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	617324	09/03/21 12:25	JJB	TAL CHI
Total Recoverable	Prep	3005A			617063	09/02/21 08:58	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	617270	09/02/21 19:06	FXG	TAL CHI
Total Recoverable	Prep	3005A			617063	09/02/21 08:58	BDE	TAL CHI
Total Recoverable	Analysis	6020A		5	617331	09/03/21 14:38	FXG	TAL CHI
Total/NA	Prep	7470A			616694	08/31/21 09:35	MJG	TAL CHI
Total/NA	Analysis	7470A		1	616923	09/01/21 07:30	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	616103	08/27/21 05:09	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	618135	09/10/21 15:34	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	618117	09/10/21 13:28	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	618960	09/16/21 15:17	RES	TAL CHI

Client Sample ID: MW-17

Lab Sample ID: 500-204293-2

Date Collected: 08/23/21 15:41

Matrix: Water

Date Received: 08/25/21 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			617063	09/02/21 08:58	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	617324	09/03/21 12:29	JJB	TAL CHI
Total Recoverable	Prep	3005A			617063	09/02/21 08:58	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	617270	09/02/21 19:09	FXG	TAL CHI
Total Recoverable	Prep	3005A			617063	09/02/21 08:58	BDE	TAL CHI
Total Recoverable	Analysis	6020A		5	617331	09/03/21 14:41	FXG	TAL CHI
Total/NA	Prep	7470A			616694	08/31/21 09:35	MJG	TAL CHI
Total/NA	Analysis	7470A		1	616923	09/01/21 07:32	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	616103	08/27/21 05:12	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	618135	09/10/21 15:50	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	618117	09/10/21 13:31	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	618960	09/16/21 15:18	RES	TAL CHI

Client Sample ID: MW-01

Lab Sample ID: 500-204293-3

Date Collected: 08/24/21 15:07

Matrix: Water

Date Received: 08/25/21 15:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			617063	09/02/21 08:58	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	617324	09/03/21 12:33	JJB	TAL CHI
Total Recoverable	Prep	3005A			617063	09/02/21 08:58	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	617270	09/02/21 19:13	FXG	TAL CHI
Total Recoverable	Prep	3005A			617063	09/02/21 08:58	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	617331	09/03/21 14:45	FXG	TAL CHI
Total/NA	Prep	7470A			616694	08/31/21 09:35	MJG	TAL CHI
Total/NA	Analysis	7470A		1	616923	09/01/21 07:34	MJG	TAL CHI

Eurofins TestAmerica, Chicago

Lab Chronicle

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

Job ID: 500-204293-1

Client Sample ID: MW-01
Date Collected: 08/24/21 15:07
Date Received: 08/25/21 15:10

Lab Sample ID: 500-204293-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	616103	08/27/21 05:14	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		1	618135	09/10/21 15:50	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	618117	09/10/21 13:34	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		5	618960	09/16/21 15:23	RES	TAL CHI

Client Sample ID: MW-08
Date Collected: 08/25/21 11:02
Date Received: 08/26/21 16:50

Lab Sample ID: 500-204293-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			617063	09/02/21 08:58	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	617324	09/03/21 12:37	JJB	TAL CHI
Total Recoverable	Prep	3005A			617063	09/02/21 08:58	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	617270	09/02/21 19:16	FXG	TAL CHI
Total Recoverable	Prep	3005A			617063	09/02/21 08:58	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	617331	09/03/21 14:48	FXG	TAL CHI
Total/NA	Prep	7470A			616694	08/31/21 09:35	MJG	TAL CHI
Total/NA	Analysis	7470A		1	616923	09/01/21 07:36	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	616103	08/27/21 05:17	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		10	618135	09/10/21 15:51	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	618117	09/10/21 13:37	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	618960	09/16/21 15:19	RES	TAL CHI

Client Sample ID: MW-09
Date Collected: 08/25/21 15:21
Date Received: 08/26/21 16:50

Lab Sample ID: 500-204293-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			617063	09/02/21 08:58	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	617324	09/03/21 12:41	JJB	TAL CHI
Total Recoverable	Prep	3005A			617063	09/02/21 08:58	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	617270	09/02/21 19:20	FXG	TAL CHI
Total Recoverable	Prep	3005A			617063	09/02/21 08:58	BDE	TAL CHI
Total Recoverable	Analysis	6020A		10	617331	09/03/21 14:51	FXG	TAL CHI
Total/NA	Prep	7470A			616694	08/31/21 09:35	MJG	TAL CHI
Total/NA	Analysis	7470A		1	616923	09/01/21 07:39	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	616103	08/27/21 05:20	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		1	618135	09/10/21 15:51	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	618117	09/10/21 13:41	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		5	618960	09/16/21 15:19	RES	TAL CHI

Lab Chronicle

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

Job ID: 500-204293-1

Client Sample ID: MW-11
Date Collected: 08/25/21 13:37
Date Received: 08/26/21 16:50

Lab Sample ID: 500-204293-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			617063	09/02/21 08:58	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	617324	09/03/21 12:53	JJB	TAL CHI
Total Recoverable	Prep	3005A			617063	09/02/21 08:58	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	617270	09/02/21 19:23	FXG	TAL CHI
Total Recoverable	Prep	3005A			617063	09/02/21 08:58	BDE	TAL CHI
Total Recoverable	Analysis	6020A		2	617331	09/03/21 14:55	FXG	TAL CHI
Total/NA	Prep	7470A			616694	08/31/21 09:35	MJG	TAL CHI
Total/NA	Analysis	7470A		1	616923	09/01/21 08:18	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	616103	08/27/21 05:22	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	618135	09/10/21 15:51	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	618117	09/10/21 13:44	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	618960	09/16/21 15:19	RES	TAL CHI

Client Sample ID: MW-12
Date Collected: 08/25/21 12:22
Date Received: 08/26/21 16:50

Lab Sample ID: 500-204293-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			617063	09/02/21 08:58	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	617324	09/03/21 12:57	JJB	TAL CHI
Total Recoverable	Prep	3005A			617063	09/02/21 08:58	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	617270	09/02/21 19:27	FXG	TAL CHI
Total Recoverable	Prep	3005A			617063	09/02/21 08:58	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	617331	09/03/21 14:58	FXG	TAL CHI
Total/NA	Prep	7470A			616694	08/31/21 09:35	MJG	TAL CHI
Total/NA	Analysis	7470A		1	616923	09/01/21 08:20	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	616103	08/27/21 05:25	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	618135	09/10/21 15:51	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	618117	09/10/21 13:47	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	618960	09/16/21 15:20	RES	TAL CHI

Client Sample ID: Duplicate
Date Collected: 08/25/21 11:02
Date Received: 08/26/21 16:50

Lab Sample ID: 500-204293-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			617063	09/02/21 08:58	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	617324	09/03/21 13:02	JJB	TAL CHI
Total Recoverable	Prep	3005A			617063	09/02/21 08:58	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	617270	09/02/21 19:31	FXG	TAL CHI
Total Recoverable	Prep	3005A			617063	09/02/21 08:58	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	617331	09/03/21 15:02	FXG	TAL CHI
Total/NA	Prep	7470A			616694	08/31/21 09:35	MJG	TAL CHI
Total/NA	Analysis	7470A		1	616923	09/01/21 08:22	MJG	TAL CHI

Eurofins TestAmerica, Chicago

Lab Chronicle

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

Job ID: 500-204293-1

Client Sample ID: Duplicate

Lab Sample ID: 500-204293-8

Date Collected: 08/25/21 11:02

Matrix: Water

Date Received: 08/26/21 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	616591	08/31/21 00:28	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	618135	09/10/21 15:52	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	618117	09/10/21 14:00	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		5	618960	09/16/21 15:20	RES	TAL CHI

Client Sample ID: MW-18

Lab Sample ID: 500-204293-9

Date Collected: 08/26/21 09:06

Matrix: Water

Date Received: 08/27/21 16:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			617063	09/02/21 08:58	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	617324	09/03/21 13:06	JJB	TAL CHI
Total Recoverable	Prep	3005A			617063	09/02/21 08:58	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	617270	09/02/21 19:41	FXG	TAL CHI
Total Recoverable	Prep	3005A			617063	09/02/21 08:58	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	617331	09/03/21 15:12	FXG	TAL CHI
Total/NA	Prep	7470A			616694	08/31/21 09:35	MJG	TAL CHI
Total/NA	Analysis	7470A		1	616923	09/01/21 08:24	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	616591	08/31/21 00:31	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	618135	09/10/21 15:52	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	618117	09/10/21 14:03	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	618960	09/16/21 15:27	RES	TAL CHI

Client Sample ID: MW-19

Lab Sample ID: 500-204293-10

Date Collected: 08/26/21 10:06

Matrix: Water

Date Received: 08/27/21 16:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			617063	09/02/21 08:58	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	617324	09/03/21 13:10	JJB	TAL CHI
Total Recoverable	Prep	3005A			617063	09/02/21 08:58	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	617270	09/02/21 19:45	FXG	TAL CHI
Total Recoverable	Prep	3005A			617063	09/02/21 08:58	BDE	TAL CHI
Total Recoverable	Analysis	6020A		10	617331	09/03/21 15:15	FXG	TAL CHI
Total/NA	Prep	7470A			616694	08/31/21 09:35	MJG	TAL CHI
Total/NA	Analysis	7470A		1	616923	09/01/21 08:27	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	616591	08/31/21 00:33	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		1	618135	09/10/21 15:52	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	618117	09/10/21 14:07	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		5	618960	09/16/21 15:22	RES	TAL CHI

Laboratory References:

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

Eurofins TestAmerica, Chicago

Accreditation/Certification Summary

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

Job ID: 500-204293-1

Laboratory: Eurofins TestAmerica, Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-22

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ANALYTICAL REPORT

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

Laboratory Job ID: 500-204293-2
Client Project/Site: Powerton CCR

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

Attn: Richard Gnat



Authorized for release by:
10/4/2021 2:15:08 PM

Diana Mockler, Project Manager I
(219)252-7570
Diana.Mockler@Eurofinset.com

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

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



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Case Narrative

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

Job ID: 500-204293-2

Job ID: 500-204293-2

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative 500-204293-2

Comments

No additional comments.

Receipt

The samples were received on 8/25/2021 10:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 7 coolers at receipt time were 4.9° C, 5.8° C, 5.8° C, 5.9° C, 8.6° C, 10.1° C and 10.8° C.

Receipt Exceptions

A Chain-of-Custody (COC) was not received with these samples: Received two samples (MW-15 and MW-17) with no COC. Logged per container labels.

The following sample(s) was received at the laboratory outside the required temperature criteria: Receiving cooler temp: 10.1°C. Water present in cooler. (Samples #1 and 2)

*Receiving cooler temp 2nd cooler 8/25/21 1510 10.8°C (Sample #3)

**One cooler received on 8/26/21 1650 out of temp. Cooler temp: 8.6°C. Cooler contained sample #7 "MW-12".

Received a set of 7 containers with no sample ID. Sample time of 1102 on all containers. Waiting on client confirmation if MS/MSD to sample #4 "MW-08" (matching sample time) or if sample dup.

*Per client logged sample as #8 "Duplicate".

RAD

Method 903.0: Radium-226 Batch 525707

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. MW-15 (500-204293-1), MW-17 (500-204293-2), MW-01 (500-204293-3), MW-08 (500-204293-4), MW-09 (500-204293-5), MW-11 (500-204293-6), MW-12 (500-204293-7), Duplicate (500-204293-8), MW-18 (500-204293-9), MW-19 (500-204293-10), (LCS 160-525707/1-A), (MB 160-525707/23-A) and (500-204293-F-1-A DU)

Method 904.0: Radium-228 Batch 525764

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. MW-15 (500-204293-1), MW-17 (500-204293-2), MW-01 (500-204293-3), MW-08 (500-204293-4), MW-09 (500-204293-5), MW-11 (500-204293-6), MW-12 (500-204293-7), Duplicate (500-204293-8), MW-18 (500-204293-9), MW-19 (500-204293-10), (LCS 160-525764/1-A), (MB 160-525764/23-A) and (500-204293-F-1-B DU)

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

Method Summary

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

Job ID: 500-204293-2

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

Protocol References:

EPA = US Environmental Protection Agency

None = None

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

Laboratory References:

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

Sample Summary

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

Job ID: 500-204293-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-204293-1	MW-15	Water	08/23/21 12:41	08/25/21 10:30
500-204293-2	MW-17	Water	08/23/21 15:41	08/25/21 10:30
500-204293-3	MW-01	Water	08/24/21 15:07	08/25/21 15:10
500-204293-4	MW-08	Water	08/25/21 11:02	08/26/21 16:50
500-204293-5	MW-09	Water	08/25/21 15:21	08/26/21 16:50
500-204293-6	MW-11	Water	08/25/21 13:37	08/26/21 16:50
500-204293-7	MW-12	Water	08/25/21 12:22	08/26/21 16:50
500-204293-8	Duplicate	Water	08/25/21 11:02	08/26/21 16:50
500-204293-9	MW-18	Water	08/26/21 09:06	08/27/21 16:12
500-204293-10	MW-19	Water	08/26/21 10:06	08/27/21 16:12

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Client Sample Results

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

Job ID: 500-204293-2

Client Sample ID: MW-15

Lab Sample ID: 500-204293-1

Date Collected: 08/23/21 12:41

Matrix: Water

Date Received: 08/25/21 10:30

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.230	U	0.214	0.215	1.00	0.328	pCi/L	09/07/21 12:33	10/01/21 18:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.5		40 - 110					09/07/21 12:33	10/01/21 18:42	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.234	U	0.252	0.253	1.00	0.411	pCi/L	09/07/21 14:38	10/01/21 12:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.5		40 - 110					09/07/21 14:38	10/01/21 12:48	1
Y Carrier	81.1		40 - 110					09/07/21 14:38	10/01/21 12:48	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.465		0.331	0.332	5.00	0.411	pCi/L		10/04/21 13:27	1

Client Sample Results

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

Job ID: 500-204293-2

Client Sample ID: MW-17

Lab Sample ID: 500-204293-2

Date Collected: 08/23/21 15:41

Matrix: Water

Date Received: 08/25/21 10:30

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.226	U	0.237	0.238	1.00	0.379	pCi/L	09/07/21 12:33	10/01/21 18:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.3		40 - 110					09/07/21 12:33	10/01/21 18:43	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.327	U	0.303	0.305	1.00	0.490	pCi/L	09/07/21 14:38	10/01/21 12:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.3		40 - 110					09/07/21 14:38	10/01/21 12:48	1
Y Carrier	78.1		40 - 110					09/07/21 14:38	10/01/21 12:48	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.553		0.385	0.387	5.00	0.490	pCi/L		10/04/21 13:27	1

Client Sample Results

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

Job ID: 500-204293-2

Client Sample ID: MW-01

Lab Sample ID: 500-204293-3

Date Collected: 08/24/21 15:07

Matrix: Water

Date Received: 08/25/21 15:10

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.255	U	0.257	0.258	1.00	0.409	pCi/L	09/07/21 12:33	10/01/21 18:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.7		40 - 110					09/07/21 12:33	10/01/21 18:43	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.826		0.319	0.327	1.00	0.440	pCi/L	09/07/21 14:38	10/01/21 12:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.7		40 - 110					09/07/21 14:38	10/01/21 12:48	1
Y Carrier	83.0		40 - 110					09/07/21 14:38	10/01/21 12:48	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.08		0.410	0.417	5.00	0.440	pCi/L		10/04/21 13:27	1

Client Sample Results

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

Job ID: 500-204293-2

Client Sample ID: MW-08
Date Collected: 08/25/21 11:02
Date Received: 08/26/21 16:50

Lab Sample ID: 500-204293-4
Matrix: Water

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.121	U	0.213	0.213	1.00	0.473	pCi/L	09/07/21 12:33	10/01/21 18:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.7		40 - 110					09/07/21 12:33	10/01/21 18:43	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.323	U	0.306	0.308	1.00	0.494	pCi/L	09/07/21 14:38	10/01/21 12:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.7		40 - 110					09/07/21 14:38	10/01/21 12:48	1
Y Carrier	81.5		40 - 110					09/07/21 14:38	10/01/21 12:48	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.202	U	0.373	0.374	5.00	0.494	pCi/L		10/04/21 13:27	1

Client Sample Results

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

Job ID: 500-204293-2

Client Sample ID: MW-09

Lab Sample ID: 500-204293-5

Date Collected: 08/25/21 15:21

Matrix: Water

Date Received: 08/26/21 16:50

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.352	U	0.297	0.299	1.00	0.456	pCi/L	09/07/21 12:33	10/01/21 18:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.1		40 - 110					09/07/21 12:33	10/01/21 18:44	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.00274	U	0.327	0.327	1.00	0.579	pCi/L	09/07/21 14:38	10/01/21 12:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.1		40 - 110					09/07/21 14:38	10/01/21 12:49	1
Y Carrier	82.6		40 - 110					09/07/21 14:38	10/01/21 12:49	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.349	U	0.442	0.443	5.00	0.579	pCi/L		10/04/21 13:27	1

Client Sample Results

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

Job ID: 500-204293-2

Client Sample ID: MW-11
Date Collected: 08/25/21 13:37
Date Received: 08/26/21 16:50

Lab Sample ID: 500-204293-6
Matrix: Water

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.255	U	0.289	0.290	1.00	0.472	pCi/L	09/07/21 12:33	10/01/21 18:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.2		40 - 110					09/07/21 12:33	10/01/21 18:44	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.145	U	0.242	0.242	1.00	0.460	pCi/L	09/07/21 14:38	10/01/21 12:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.2		40 - 110					09/07/21 14:38	10/01/21 12:49	1
Y Carrier	82.6		40 - 110					09/07/21 14:38	10/01/21 12:49	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.109	U	0.377	0.378	5.00	0.472	pCi/L		10/04/21 13:27	1

Client Sample Results

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

Job ID: 500-204293-2

Client Sample ID: MW-12
Date Collected: 08/25/21 12:22
Date Received: 08/26/21 16:50

Lab Sample ID: 500-204293-7
Matrix: Water

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0164	U	0.209	0.209	1.00	0.421	pCi/L	09/07/21 12:33	10/01/21 18:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.1		40 - 110					09/07/21 12:33	10/01/21 18:44	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.248	U	0.304	0.304	1.00	0.502	pCi/L	09/07/21 14:38	10/01/21 12:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.1		40 - 110					09/07/21 14:38	10/01/21 12:49	1
Y Carrier	81.9		40 - 110					09/07/21 14:38	10/01/21 12:49	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.232	U	0.369	0.369	5.00	0.502	pCi/L		10/04/21 13:27	1

Client Sample Results

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

Job ID: 500-204293-2

Client Sample ID: Duplicate
Date Collected: 08/25/21 11:02
Date Received: 08/26/21 16:50

Lab Sample ID: 500-204293-8
Matrix: Water

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.102	U	0.202	0.202	1.00	0.441	pCi/L	09/07/21 12:33	10/01/21 18:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.0		40 - 110					09/07/21 12:33	10/01/21 18:44	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0408	U	0.279	0.279	1.00	0.488	pCi/L	09/07/21 14:38	10/01/21 12:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.0		40 - 110					09/07/21 14:38	10/01/21 12:53	1
Y Carrier	84.1		40 - 110					09/07/21 14:38	10/01/21 12:53	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.0614	U	0.344	0.344	5.00	0.488	pCi/L		10/04/21 13:27	1

Client Sample Results

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

Job ID: 500-204293-2

Client Sample ID: MW-18
Date Collected: 08/26/21 09:06
Date Received: 08/27/21 16:12

Lab Sample ID: 500-204293-9
Matrix: Water

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.273	U	0.244	0.245	1.00	0.371	pCi/L	09/07/21 12:33	10/01/21 18:45	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.5		40 - 110					09/07/21 12:33	10/01/21 18:45	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.360	U	0.327	0.329	1.00	0.527	pCi/L	09/07/21 14:38	10/01/21 12:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.5		40 - 110					09/07/21 14:38	10/01/21 12:53	1
Y Carrier	84.1		40 - 110					09/07/21 14:38	10/01/21 12:53	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.633		0.408	0.410	5.00	0.527	pCi/L		10/04/21 13:27	1

Client Sample Results

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

Job ID: 500-204293-2

Client Sample ID: MW-19
Date Collected: 08/26/21 10:06
Date Received: 08/27/21 16:12

Lab Sample ID: 500-204293-10
Matrix: Water

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.371	U	0.281	0.283	1.00	0.417	pCi/L	09/07/21 12:33	10/01/21 18:45	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.2		40 - 110					09/07/21 12:33	10/01/21 18:45	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0203	U	0.305	0.305	1.00	0.543	pCi/L	09/07/21 14:38	10/01/21 12:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.2		40 - 110					09/07/21 14:38	10/01/21 12:53	1
Y Carrier	80.7		40 - 110					09/07/21 14:38	10/01/21 12:53	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.351	U	0.415	0.416	5.00	0.543	pCi/L		10/04/21 13:27	1

Definitions/Glossary

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

Job ID: 500-204293-2

Qualifiers

Rad

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

Glossary

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

QC Association Summary

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

Job ID: 500-204293-2

Rad

Prep Batch: 525707

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-204293-1	MW-15	Total/NA	Water	PrecSep-21	
500-204293-2	MW-17	Total/NA	Water	PrecSep-21	
500-204293-3	MW-01	Total/NA	Water	PrecSep-21	
500-204293-4	MW-08	Total/NA	Water	PrecSep-21	
500-204293-5	MW-09	Total/NA	Water	PrecSep-21	
500-204293-6	MW-11	Total/NA	Water	PrecSep-21	
500-204293-7	MW-12	Total/NA	Water	PrecSep-21	
500-204293-8	Duplicate	Total/NA	Water	PrecSep-21	
500-204293-9	MW-18	Total/NA	Water	PrecSep-21	
500-204293-10	MW-19	Total/NA	Water	PrecSep-21	
MB 160-525707/23-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-525707/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-204293-1 DU	MW-15	Total/NA	Water	PrecSep-21	

Prep Batch: 525764

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-204293-1	MW-15	Total/NA	Water	PrecSep_0	
500-204293-2	MW-17	Total/NA	Water	PrecSep_0	
500-204293-3	MW-01	Total/NA	Water	PrecSep_0	
500-204293-4	MW-08	Total/NA	Water	PrecSep_0	
500-204293-5	MW-09	Total/NA	Water	PrecSep_0	
500-204293-6	MW-11	Total/NA	Water	PrecSep_0	
500-204293-7	MW-12	Total/NA	Water	PrecSep_0	
500-204293-8	Duplicate	Total/NA	Water	PrecSep_0	
500-204293-9	MW-18	Total/NA	Water	PrecSep_0	
500-204293-10	MW-19	Total/NA	Water	PrecSep_0	
MB 160-525764/23-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-525764/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-204293-1 DU	MW-15	Total/NA	Water	PrecSep_0	

QC Sample Results

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

Job ID: 500-204293-2

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-525707/23-A
Matrix: Water
Analysis Batch: 529742

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 525707

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	-0.1135	U	0.209	0.210	1.00	0.477	pCi/L	09/07/21 12:33	10/01/21 18:46	1
Carrier	MB	MB	Limits				Prepared		Analyzed	Dil Fac
Ba Carrier	%Yield	Qualifier	40 - 110				09/07/21 12:33		10/01/21 18:46	1
	84.9									

Lab Sample ID: LCS 160-525707/1-A
Matrix: Water
Analysis Batch: 529704

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 525707

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	11.26		1.42	1.00	0.349	pCi/L	99	75 - 125
Carrier	LCS	LCS	Limits						
Ba Carrier	%Yield	Qualifier	40 - 110						
	89.5								

Lab Sample ID: 500-204293-1 DU
Matrix: Water
Analysis Batch: 529703

Client Sample ID: MW-15
Prep Type: Total/NA
Prep Batch: 525707

Analyte	Sample	Sample	DU	DU	Total	RL	MDC	Unit	RER	RER Limit
	Result	Qual	Result	Qual	Uncert. (2σ+/-)					
Radium-226	0.230	U	0.1653	U	0.255	1.00	0.435	pCi/L	0.14	1
Carrier	DU	DU	Limits							
Ba Carrier	%Yield	Qualifier	40 - 110							
	84.7									

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-525764/23-A
Matrix: Water
Analysis Batch: 529702

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 525764

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.2350	U	0.269	0.270	1.00	0.443	pCi/L	09/07/21 14:38	10/01/21 12:54	1
Carrier	MB	MB	Limits				Prepared		Analyzed	Dil Fac
Ba Carrier	%Yield	Qualifier	40 - 110				09/07/21 14:38		10/01/21 12:54	1
Y Carrier	86.0						09/07/21 14:38		10/01/21 12:54	1

QC Sample Results

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

Job ID: 500-204293-2

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

Lab Sample ID: LCS 160-525764/1-A
Matrix: Water
Analysis Batch: 529703

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 525764

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	9.28	11.25		1.31	1.00	0.465	pCi/L	121	75 - 125

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	89.5		40 - 110
Y Carrier	80.0		40 - 110

Lab Sample ID: 500-204293-1 DU
Matrix: Water
Analysis Batch: 529703

Client Sample ID: MW-15
Prep Type: Total/NA
Prep Batch: 525764

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-228	0.234	U	0.6599		0.325	1.00	0.464	pCi/L	0.74	1

Carrier	DU %Yield	DU Qualifier	Limits
Ba Carrier	84.7		40 - 110
Y Carrier	80.0		40 - 110

TestAmerica Chicago

2417 Bond Street

Chain of Custody Record




THE LEADER IN ENVIRONMENTAL TESTING

University Park IL 60484-3101
phone 708 534 5200 fax 708 534 5211

Regulatory Program: DW NPDES RCRA Other:

TestAmerica Laboratories, Inc.

Client Contact		Project Manager: Rich Gnat		Site Contact: Mitchel Dolan		Date: 8/25/21		COC No							
KPRG and Associates Inc		Tel/Fax: (262) 781-0475		Lab Contact: Diana Mockler		Carrier: FedEx		_____ of _____ COCs							
14665 West Lisbon Road Suite 1A		Analysis Turnaround Time		Filtered Sample (Y/N) Perform MS / MSD (Y/N) 903.0, 904.0 Radium - 226/228 + Combine 6020A, 7470A - 14 Metals & Mercury 6010C - Lithium 4500_F_C - Fluoride SM4500_Cl_E - Chloride SM4500_SO4_E - Sulfate 2540C - TDS		 500-204293 COC		Sampler:							
Brookfield, WI 53154		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____ <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day						For Lab Use Only: Walk-in Client Lab Sampling							
(262) 781-0475 Phone								Job / SDG No							
(262) 781-0478 FAX								500-204293							
Project Name Powerton CCR								Sample Specific Notes							
Site Powerton Station - Pekin, IL															
P O # 4501908159															
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	903.0, 904.0 Radium - 226/228 + Combine	6020A, 7470A - 14 Metals & Mercury	6010C - Lithium	4500_F_C - Fluoride	SM4500_Cl_E - Chloride	SM4500_SO4_E - Sulfate	2540C - TDS	Sample Specific Notes
MW-15	8/23/21	1241	G	W	7	N	N	X	X	X	X	X	X	X	
MW-17	8/23/21	1541	G	W	7	N	N	X	X	X	X	X	X	X	
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other								4	4	4	1	1	1	1	
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample								Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)							
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown								<input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months							
Special Instructions/QC Requirements & Comments: Lab Project #50011612.															
CCR Appendix III and Appendix IV Parameters. 14 Metals for analysis = Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chloride, Chromium, Cobalt, Lead, Molybdenum, Selenium, Thallium															
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temp (°C) Obs'd 101 Corr'd		Therm ID No									
Relinquished by Mitchel Dolan <i>Mitch Dolan</i>		Company: KPRG		Date/Time: 8/25/21 1700		Received by		Company:		Date/Time					
Relinquished by		Company:		Date/Time		Received by		Company:		Date/Time					
Relinquished by		Company:		Date/Time		Received in Laboratory by <i>Stephanie Hemminger</i>		Company: ETA-CHI		Date/Time: 8/25/21 1030					


Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

Eurofins TestAmerica, Chicago

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

Chain of Custody Record

eurofins Environment e-ting
 America

Client Information		Sampler: <i>Manuel Ress</i>		Lab PM: Mockler Diana J		Carrier Tracking No(s)		COC No. 500-94071-41743 1			
Client Contact: Mitchel Dolan		Phone: <i>630.602.7240</i>		E Mail: Diana Mockler@Eurofinset.com		State of Origin: <i>IL</i>		Page 1 of 1			
Company: KPRG and Associates Inc		PWSID:		Analysis Requested				Job #: <i>500-204293</i>			
Address: 14665 West Lisbon Road Suite 1A		Due Date Requested		 <p>500-204293 COC</p>				Preservation Codes			
City: Brookfield		TAT Requested (days)						A HCL M Hexane		B NaOH N None	
State, Zip: WI 53005		Compliance Project <input type="checkbox"/> Yes <input type="checkbox"/> No						C Zn Acetate O AsNaO2		D Nitric Acid P Na2O4S	
Phone: 262-781-0475(Tel)		PO #: 4502051132						E NaHSO4 Q Na2SO3		F MeOH R Na2S2O3	
Email: mitcheld@kprginc.com		WO #						G Amchlor S H2SO4		H Ascorbic Acid T TSP Dodecahydrate	
Project Name: Powerton CCR Event Desc Quarterly Powerton CCR Sampling		Project #: 50011612		I Ice U Acetone		J DI Water V MCAA		K EDTA W pH 4-5			
Site: Illinois		SSOW#		L EDA Z other (specify)		Other:					
Sample Identification		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue A=Air)			
								Field Filtered Sample (Yes or No)			
								Perform MS/MSD (Yes or No)			
								903.0 904.0			
								6010C 6020A 7470A			
								2540C, 4500_F_C SM4500_CL_E SM4500_SO4_E			
								SM4500_SO4_E - <i>Sulfate</i>			
								Total Number of containers			
								Special Instructions/Note			
4 MW-04 <i>MW-08</i>		<i>8/25</i>		<i>11:02</i>		<i>G</i>		<i>Water</i>			
5 MW-02 <i>MW-09</i>		↓		<i>15:21</i>		↓		<i>Water</i>			
6 MW-02 <i>MW-11</i>		↓		<i>13:37</i>		↓		<i>Water</i>			
7 MW-04 <i>MW-12</i>		↓		<i>12:22</i>		↓		<i>Water</i>			
MW-05								<i>Water</i>			
MW-10								<i>Water</i>			
8 <i>Duplicate</i>								<i>Water</i>			
								<i>Added by EIA-CH 8/27/21 SH</i>			

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Deliverable Requested I II III IV Other (specify)

Special Instructions/QC Requirements

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

Relinquished by: <i>Manuel Ress</i>	Date/Time: <i>8/25 17:00</i>	Company: <i>WRG</i>	Received by: <i>Stephanie Hernandez</i>	Date/Time: <i>8/26/21 16:50</i>	Company: <i>EIA-CH</i>
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:

Custody Seals Intact Yes No Custody Seal No *1655941, 1655942, 1655944, 1541431, 1541430*


Cooler Temperature(s) °C and Other Remarks *49.5.8, 86.5.8*



Eurofins TestAmerica, Chicago

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

Chain of Custody Record

Client Information		Sampler: <i>Michael Riss</i>		Lab PM: Mockler Diana J		Carrier Tracking No(s)		COC No. 500-94072-41744 1		
Client Contact: Mitchel Dolan		Phone: <i>630.602.7240</i>		E-Mail: Diana.Mockler@Eurofinset.com		State of Origin:		Page 1 of 1		
Company: KPRG and Associates, Inc.		PWSID:		Analysis Requested				Job #: <i>500-204293</i>		
Address: 14665 West Lisbon Road Suite 1A		Due Date Requested:		 <p>500-204293 COC</p>				Preservation Codes A HCL M Hexane B NaOH N None C Zn Acetate O AsNaO2 D Nitric Acid P Na2O4S E NaHSO4 Q Na2SO3 F MeOH R Na2S2O3 G Amchlor S H2SO4 H Ascorbic Acid T TSP Dodecahydrate I Ice U Acetone J DI Water V MCAA K EDTA W pH 4-5 L EDA Z other (specify)		
City: Brookfield		TAT Requested (days):								
State, Zip: WI 53005		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No								
Phone: 262-781-0475(Tel)		PO #: 4502051132								
Email: mitcheld@kprginc.com		WO #:								
Project Name: Powerton CCR Event Desc. Quarterly Powerton CCR Sampling		Project #: 50011612		Field Filtered Sample (Yes or No)		Total Number of Containers		Special Instructions/Note		
Site: Illinois		SSOW#:		Perform MS/MSD (Yes or No)						
Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)		
								Preservation Code: <input checked="" type="checkbox"/> D <input type="checkbox"/> N		
<i>MW-01</i>								Water		
MW-08								Water		
<i>MW-09</i>								Water		
<i>MW-11</i>								Water		
<i>MW-12</i>								Water		
<i>MW-15</i>								Water		
<i>MW-17</i>								Water		
<i>MW-18</i>		<i>8/26</i>		<i>9:06</i>		<i>G</i>		Water		
<i>MW-19</i>		<i>↓</i>		<i>10:06</i>		<i>G</i>		Water		
<i>Trip Blank</i>										
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months					
Deliverable Requested I, II, III, IV, Other (specify)					Special Instructions/QC Requirements.					
Empty Kit Relinquished by:		Date		Time		Method of Shipment:				
Relinquished by: <i>Michael Riss</i>		Date/Time: <i>8/26/2021 11:45</i>		Company: <i>KPRG</i>		Received by: <i>Stephanie Hemondley</i>		Date/Time: <i>8/27/21 16:12</i>		Company: <i>ETA-CHI</i>
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No: <i>1655943</i>		Cooler Temperature(s) °C and Other Remarks: <i>5.9</i>						

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

WES MONT, IL 60559
UNITED STATES US

SHIP DATE
ACTWGT: 5
CAD: 6994
DIMS: 23

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500-204293 Wayb

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

UNIVERSITY PARK IL 60484

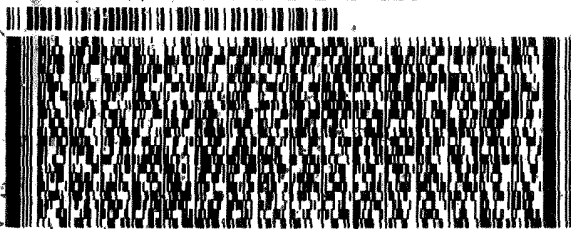
(709) 624-6211

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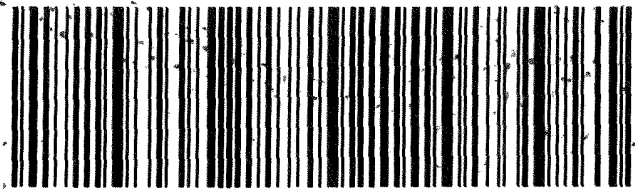
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ORIG ID:PIAA (262) 622-1143
MIKRESS
KIRKLAND ASSOCIATES
444 LAZA DR STE 106
WILSON, IL 60559
UNITED STATES US

SHIP DATE: 24AUG21
ACTWGT: 52.80 LB
CAD: 6994780/SSFE2202
DIMS: 24x13x13 IN
BILL THIRD PARTY

Part # 15629P-K395-FRNDVNS-EXP C/122

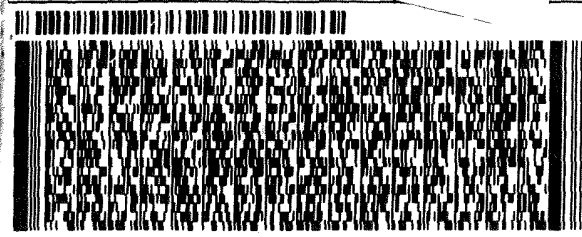


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(708) 634-6211

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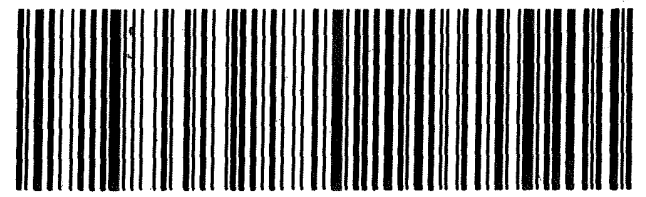


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AND ASSOCIATES
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CAD: 6994780/SSFE2202
DIMS: 20x17x14 IN

Part # 156293W489CBNDYVSEXP 04/22

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LIKE RESS
FRG AND ASSOCIATES
414 PLAZA DR STE 106

SHIP DATE: 25AUG21
ACTWTG: 44.05 LB
CAD: 6994780/SSFE2202
DIMS: 20x17x14 IN

WESTMONT, IL 60559
UNITED STATES US

BILL THIRD PARTY

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2417 BOND ST

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TO EUROFINS TEST AMERICA
EUROFINS TEST AMERICA
2417 BOND ST

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UNIVERSITY PARK IL 60484

(708) 534-6211

REF:

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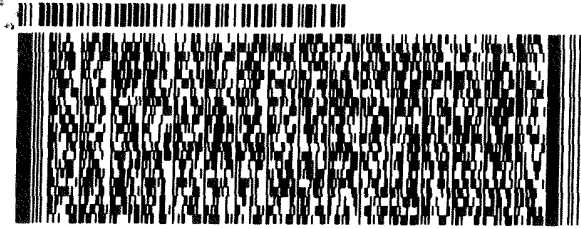
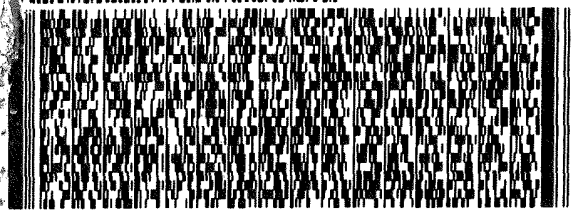
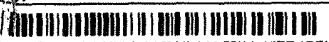
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UNIVERSITY PARK IL 60484

(708) 534-6211

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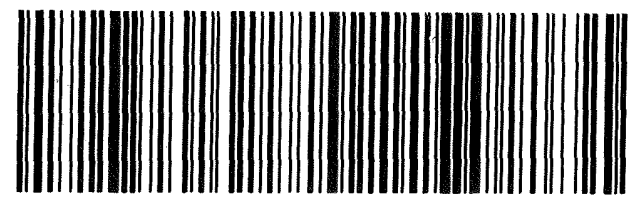
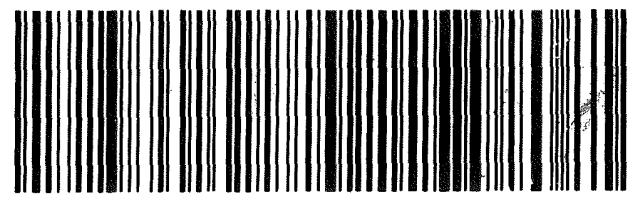
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ORIGIN ID:PIAA (262) 622-1143

KPRG AND ASSOCIATES
414 PLAZA DR STE 106

WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 26AUG21
ACTWGT: 52.00 LB
CAD: 6904
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Part # 156297-4934F3E30WZ-03AP 04/22

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TESTAMERICA CHICAGO
2417 BOND ST

UNIVERSITY PARK IL 60484

(708) 534-5200

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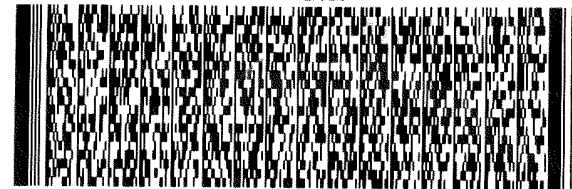
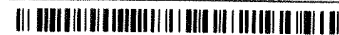
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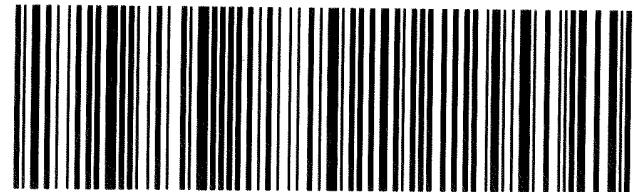
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Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler: Mockler, Diana J		Lab PM: Mockler, Diana J		Carrier Tracking No(s): 500-152005.1		COC No: 500-152005.1	
Client Contact: Diana.Mockler@Eurofins.com		Phone: 314-298-8566		E-Mail: Diana.Mockler@Eurofins.com		State of Origin: Illinois		Page: Page 1 of 1	
Shipping/Receiving Company: TestAmerica Laboratories, Inc.		Address: 13715 Rider Trail North,		Accreditations Required (See note): NELAP - Illinois		Job #: 500-204293-1		Job #: 500-204293-1	
City: Earth City		State, Zip: MO, 63045		Due Date Requested: 9/15/2021		Analysis Requested		Preservation Codes:	
PO #: 314-298-8566(Tel) 314-298-8757(Fax)		TAT Requested (days):		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		90.0/PreSep_21 Standard Target List	
Email:		Project #: 50011612		Sample Date		Sample Time		Sample Type (C=comp, G=grab)	
Site: MWG - Powerton		SSOW#:		Sample Date		Sample Time		Sample Type (C=comp, G=grab)	
Matrix (Water, Seawater, Onwast/soil, B1=issue, A=Air)		Preservation Code:		Sample Date		Sample Time		Sample Type (C=comp, G=grab)	
MW-18 (500-204293-9)		Water		8/26/21		09:06 Central		Water	
MW-19 (500-204293-10)		Water		8/26/21		10:06 Central		Water	
Total Number of Containers		90.0/PreSep_0 Standard Target List		90.0/PreSep_21 Standard Target List		Raz26Ra28 GPPC		Special Instructions/Note:	
3		X		X		X		Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no	
3		X		X		X		Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no	

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

Possible Hazard Identification
Unconfirmed

Deliverable Requested: I, II, III, IV, Other (specify) **Primary Deliverable Rank: 2**

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For **Months**

Special Instructions/QC Requirements:

Empty Kit Relinquished by: **Cheri Smith** Date: **8/30/21** Time: **1130**

Relinquished by: **Cheri Smith** Date: **8/30/21** Time: **1130** Company: **ETA-CHL**

Relinquished by: **FED EX** Date: **8/31/21** Time: **1005** Company: **ETA STL**

Custody Seals Intact: **Yes** Custody Seal No.: **Yes**

Cooler Temperature(s) °C and Other Remarks:



Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-204293-2

Login Number: 204293

List Source: Eurofins TestAmerica, Chicago

List Number: 1

Creator: Hernandez, Stephanie

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	Water present in cooler; indicates evidence of melted ice.
Cooler Temperature is acceptable.	False	
Cooler Temperature is recorded.	True	10.1,10.8,4.9,5.8,8.6,5.8,5.9
COC is present.	False	
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.	False	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-204293-2

Login Number: 204293

List Number: 2

Creator: Korrinhizer, Micha L

List Source: Eurofins TestAmerica, St. Louis

List Creation: 08/27/21 08:54 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (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: 500-204293-2

Login Number: 204293

List Number: 3

Creator: Mazariegos, Leonel A

List Source: Eurofins TestAmerica, St. Louis

List Creation: 08/28/21 01:44 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (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: 500-204293-2

Login Number: 204293

List Number: 4

Creator: Mazariegos, Leonel A

List Source: Eurofins TestAmerica, St. Louis

List Creation: 08/31/21 12:02 PM

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



Lab Chronicle

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

Job ID: 500-204293-2

Client Sample ID: MW-15

Lab Sample ID: 500-204293-1

Date Collected: 08/23/21 12:41

Matrix: Water

Date Received: 08/25/21 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			525707	09/07/21 12:33	MJ	TAL SL
Total/NA	Analysis	903.0		1	529704	10/01/21 18:42	ANW	TAL SL
Total/NA	Prep	PrecSep_0			525764	09/07/21 14:38	MJ	TAL SL
Total/NA	Analysis	904.0		1	529703	10/01/21 12:48	JCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	530059	10/04/21 13:27	FLC	TAL SL

Client Sample ID: MW-17

Lab Sample ID: 500-204293-2

Date Collected: 08/23/21 15:41

Matrix: Water

Date Received: 08/25/21 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			525707	09/07/21 12:33	MJ	TAL SL
Total/NA	Analysis	903.0		1	529703	10/01/21 18:43	JCB	TAL SL
Total/NA	Prep	PrecSep_0			525764	09/07/21 14:38	MJ	TAL SL
Total/NA	Analysis	904.0		1	529703	10/01/21 12:48	JCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	530059	10/04/21 13:27	FLC	TAL SL

Client Sample ID: MW-01

Lab Sample ID: 500-204293-3

Date Collected: 08/24/21 15:07

Matrix: Water

Date Received: 08/25/21 15:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			525707	09/07/21 12:33	MJ	TAL SL
Total/NA	Analysis	903.0		1	529703	10/01/21 18:43	JCB	TAL SL
Total/NA	Prep	PrecSep_0			525764	09/07/21 14:38	MJ	TAL SL
Total/NA	Analysis	904.0		1	529703	10/01/21 12:48	JCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	530059	10/04/21 13:27	FLC	TAL SL

Client Sample ID: MW-08

Lab Sample ID: 500-204293-4

Date Collected: 08/25/21 11:02

Matrix: Water

Date Received: 08/26/21 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			525707	09/07/21 12:33	MJ	TAL SL
Total/NA	Analysis	903.0		1	529703	10/01/21 18:43	JCB	TAL SL
Total/NA	Prep	PrecSep_0			525764	09/07/21 14:38	MJ	TAL SL
Total/NA	Analysis	904.0		1	529703	10/01/21 12:48	JCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	530059	10/04/21 13:27	FLC	TAL SL

Lab Chronicle

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

Job ID: 500-204293-2

Client Sample ID: MW-09

Lab Sample ID: 500-204293-5

Date Collected: 08/25/21 15:21

Matrix: Water

Date Received: 08/26/21 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			525707	09/07/21 12:33	MJ	TAL SL
Total/NA	Analysis	903.0		1	529703	10/01/21 18:44	JCB	TAL SL
Total/NA	Prep	PrecSep_0			525764	09/07/21 14:38	MJ	TAL SL
Total/NA	Analysis	904.0		1	529703	10/01/21 12:49	JCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	530059	10/04/21 13:27	FLC	TAL SL

Client Sample ID: MW-11

Lab Sample ID: 500-204293-6

Date Collected: 08/25/21 13:37

Matrix: Water

Date Received: 08/26/21 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			525707	09/07/21 12:33	MJ	TAL SL
Total/NA	Analysis	903.0		1	529703	10/01/21 18:44	JCB	TAL SL
Total/NA	Prep	PrecSep_0			525764	09/07/21 14:38	MJ	TAL SL
Total/NA	Analysis	904.0		1	529703	10/01/21 12:49	JCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	530059	10/04/21 13:27	FLC	TAL SL

Client Sample ID: MW-12

Lab Sample ID: 500-204293-7

Date Collected: 08/25/21 12:22

Matrix: Water

Date Received: 08/26/21 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			525707	09/07/21 12:33	MJ	TAL SL
Total/NA	Analysis	903.0		1	529703	10/01/21 18:44	JCB	TAL SL
Total/NA	Prep	PrecSep_0			525764	09/07/21 14:38	MJ	TAL SL
Total/NA	Analysis	904.0		1	529703	10/01/21 12:49	JCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	530059	10/04/21 13:27	FLC	TAL SL

Client Sample ID: Duplicate

Lab Sample ID: 500-204293-8

Date Collected: 08/25/21 11:02

Matrix: Water

Date Received: 08/26/21 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			525707	09/07/21 12:33	MJ	TAL SL
Total/NA	Analysis	903.0		1	529703	10/01/21 18:44	JCB	TAL SL
Total/NA	Prep	PrecSep_0			525764	09/07/21 14:38	MJ	TAL SL
Total/NA	Analysis	904.0		1	529702	10/01/21 12:53	EMH	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	530059	10/04/21 13:27	FLC	TAL SL

Lab Chronicle

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

Job ID: 500-204293-2

Client Sample ID: MW-18

Date Collected: 08/26/21 09:06

Date Received: 08/27/21 16:12

Lab Sample ID: 500-204293-9

Matrix: Water

<u>Prep Type</u>	<u>Batch Type</u>	<u>Batch Method</u>	<u>Run</u>	<u>Dilution Factor</u>	<u>Batch Number</u>	<u>Prepared or Analyzed</u>	<u>Analyst</u>	<u>Lab</u>
Total/NA	Prep	PrecSep-21			525707	09/07/21 12:33	MJ	TAL SL
Total/NA	Analysis	903.0		1	529703	10/01/21 18:45	JCB	TAL SL
Total/NA	Prep	PrecSep_0			525764	09/07/21 14:38	MJ	TAL SL
Total/NA	Analysis	904.0		1	529702	10/01/21 12:53	EMH	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	530059	10/04/21 13:27	FLC	TAL SL

Client Sample ID: MW-19

Date Collected: 08/26/21 10:06

Date Received: 08/27/21 16:12

Lab Sample ID: 500-204293-10

Matrix: Water

<u>Prep Type</u>	<u>Batch Type</u>	<u>Batch Method</u>	<u>Run</u>	<u>Dilution Factor</u>	<u>Batch Number</u>	<u>Prepared or Analyzed</u>	<u>Analyst</u>	<u>Lab</u>
Total/NA	Prep	PrecSep-21			525707	09/07/21 12:33	MJ	TAL SL
Total/NA	Analysis	903.0		1	529703	10/01/21 18:45	JCB	TAL SL
Total/NA	Prep	PrecSep_0			525764	09/07/21 14:38	MJ	TAL SL
Total/NA	Analysis	904.0		1	529702	10/01/21 12:53	EMH	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	530059	10/04/21 13:27	FLC	TAL SL

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 500-204293-2

Laboratory: Eurofins TestAmerica, St. Louis

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	004553	11-30-21

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

Tracer/Carrier Summary

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

Job ID: 500-204293-2

Method: 903.0 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (40-110)	
500-204293-1	MW-15	88.5	
500-204293-1 DU	MW-15	84.7	
500-204293-2	MW-17	91.3	
500-204293-3	MW-01	87.7	
500-204293-4	MW-08	77.7	
500-204293-5	MW-09	82.1	
500-204293-6	MW-11	87.2	
500-204293-7	MW-12	81.1	
500-204293-8	Duplicate	89.0	
500-204293-9	MW-18	78.5	
500-204293-10	MW-19	87.2	
LCS 160-525707/1-A	Lab Control Sample	89.5	
MB 160-525707/23-A	Method Blank	84.9	

Tracer/Carrier Legend
Ba = Ba Carrier

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (40-110)	Y (40-110)
500-204293-1	MW-15	88.5	81.1
500-204293-1 DU	MW-15	84.7	80.0
500-204293-2	MW-17	91.3	78.1
500-204293-3	MW-01	87.7	83.0
500-204293-4	MW-08	77.7	81.5
500-204293-5	MW-09	82.1	82.6
500-204293-6	MW-11	87.2	82.6
500-204293-7	MW-12	81.1	81.9
500-204293-8	Duplicate	89.0	84.1
500-204293-9	MW-18	78.5	84.1
500-204293-10	MW-19	87.2	80.7
LCS 160-525764/1-A	Lab Control Sample	89.5	80.0
MB 160-525764/23-A	Method Blank	84.9	86.0

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