

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 1st quarter 2022 which includes the entire list of parameters specified under Section 845.600(a)(1) and (b). Table 1 is a summary table of all available CCR monitoring data to date including any data generated previously as part of the Federal CCR Rule monitoring. In addition, Table 2 provides a summary of turbidity data which was collected as part of State CCR Rule requirements which is a data parameter that was not required under the Federal CCR Rule.

No background statistics or proposed Groundwater Protection Standards are included on these tables. The background statistics and Proposed Groundwater Protection Standards were submitted to Illinois Environmental Protection Agency (EPA) as part of the Application for Initial Operating Permit submitted October 31, 2021. Upon Illinois EPA approval of the Operating Permit and Proposed Groundwater Protection Standards, the approved comparison values will be included on the tables for subsequent data comparisons/evaluations.

Table 1. Groundwater Analytical Results - Midwest Generation, LLC, Powerton Station, Pekin, IL, 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	< 0.0005	< 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	< 0.0005	0.0014	0.019	< 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	< 0.0007	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	< 0.0005	< 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	< 0.0005	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	< 0.0005	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	< 0.0005	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	< 0.0005	< 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	< 0.0005	< 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	< 0.0005	< 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	< 0.0005	< 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	< 0.0005	< 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	< 0.0005	< 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	0.041	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	< 0.0005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.01	< 0.523	< 0.0025	< 0.002				
	8/24/2021	0.26	98	40	0.18	7.19	56	450	< 0.003	< 0.001	0.06	< 0.001	< 0.0005	< 0.0005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.0069	1.08	< 0.0025	< 0.002				
	11/30/2021	0.33	97	42	0.2	7.14	28	410	< 0.003	< 0.001	0.06	< 0.001	< 0.0005	< 0.0005	< 0.001	< 0.0005	0.005	< 0.0002	0.0072	1.1	0.0026	< 0.002				
2/9/2022	0.18	95	47	0.17	7.33	47	520	< 0.003	0.0013	0.051	< 0.001	< 0.0005	< 0.0005	< 0.001	< 0.00089	0.0026	< 0.0002	0.0075	< 0.628	< 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	0.43	< 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	< 0.361	< 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	0.42	< 0.394	0.0032	< 0.002		
	8/17/2016	2.7	74		39		0.15	7.32		120		750	< 0.003	< 0.001	0.031	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.36	< 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	0.36	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	0.35	< 0.377	0.0062	< 0.002		
	5/3/2017	3.5	85		38		0.17	7.48		170		680	< 0.003	0.0012	0.034	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.34	< 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	0.33	< 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	0.28	< 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	0.26	< 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	0.31	< 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	0.32	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	0.31	< 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	0.0076	< 0.010	< 0.0002	0.26	< 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	0.28	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	0.25	< 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	0.25	< 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	0.22	< 0.579	< 0.0025	< 0.002		
	12/1/2021	3.2	79		32		0.2	7.22		100		570	< 0.003	< 0.001	0.036	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.28	< 0.365	< 0.0025	< 0.002		
	2/10/2022	3.5	79		33		0.23	7.12		120		510	< 0.003	0.0019	0.043	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.03	< 0.393	< 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	0.0068	< 0.01	< 0.0002	0.35	< 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	0.0061	< 0.01	< 0.0002	0.46	< 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	0.012	< 0.01	< 0.0002	0.35	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						

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	0.008	< 0.005	0.0053	0.0012	< 0.01	< 0.0002	0.013	1.48	< 0.0025	< 0.002	
	5/1/2019	2.3	110	60	0.62	7.08	200	730	< 0.003	0.11	0.6	< 0.001	< 0.0005	< 0.005	0.0026	0.0011	< 0.01	< 0.0002	0.014	1.59	< 0.0025	< 0.002	
	11/14/2019	1.8	120	83	0.55	7.43	150	890	NA	0.14	0.72	NA	< 0.0005	NA	0.0041	0.0021	< 0.01	< 0.0002	0.02	2.64	< 0.0025	< 0.002	
	4/29/2020	1.2	100	110	0.62	7.08	320	950	NA	0.019	0.21	NA	< 0.0005	NA	0.0019	< 0.0005	< 0.01	< 0.0002	0.024	0.47	< 0.0025	< 0.002	
	12/8/2020	0.7	86	94	0.67	7.26	200	650	NA	0.027	0.26	NA	< 0.0005	NA	0.0021	< 0.0005	< 0.01	< 0.0002	0.03	< 0.523	< 0.0025	< 0.002	
	5/11/2021	1.0	99	130	0.72	7.26	230	820	< 0.003	0.024	0.25	< 0.001	< 0.0005	< 0.005	0.0019	< 0.0005	< 0.012	< 0.0002	0.032	1.59	< 0.0025	< 0.002	
	8/25/2021	0.9	100	100	0.65	7.03	210	800	< 0.003	0.015	0.16	< 0.001	< 0.0005	< 0.005	0.0016	< 0.0005	< 0.01	< 0.0002	0.03	< 0.472	< 0.0025	< 0.002	
	12/1/2021	1.2	100	85	0.67	7.17	^ 210	850	< 0.003	0.0093	0.17	< 0.001	< 0.0005	< 0.005	0.0019	< 0.0005	0.0067	< 0.0002	0.032	1.3	< 0.0025	< 0.002	
	2/10/2022	0.93	110	110	0.68	7.11	^ 220	920	< 0.003	0.015	0.2	< 0.001	< 0.0005	< 0.005	0.0024	0.00059	0.007	< 0.0002	0.027	0.839	< 0.0025	< 0.002	
	MW-12 (CL) down-gradient	11/19/2015	0.94	160	H 220	H 0.57	7.12	H 650	H 1400	< 0.003	0.10	0.180	^ < 0.001	< 0.00068	< 0.005	< 0.001	0.00063	0.023	H < 0.0002	0.0280	< 0.685	< 0.0025	< 0.002
		2/26/2016	0.42	130	200	0.40	7.96	530	1200	< 0.003	0.077	0.130	< 0.001	0.0016	< 0.005	< 0.001	0.0014	0.014	< 0.0002	0.0150	1.11	< 0.0025	< 0.002
		5/20/2016	0.65	150	200	0.49	7.28	550	1400	< 0.003	0.065	0.16	F1 < 0.001	0.00077	< 0.005	< 0.001	0.0016	0.013	< 0.0002	0.028	0.576	< 0.0025	< 0.002
8/18/2016		0.69	170	200	0.49	7.06	620	1600	< 0.003	0.33	0.88	0.0013	0.007	< 0.005	0.001	0.0011	0.015	< 0.0002	0.011	3.68	< 0.0025	< 0.002	
11/18/2016		0.83	140	180	0.46	7.34	340	1300	< 0.003	0.23	0.67	< 0.001	0.0028	< 0.005	< 0.001	< 0.0005	0.017	< 0.0002	< 0.01	1.86	< 0.0025	< 0.002	
2/16/2017		0.48	140	190	0.37	7.54	630	1300	< 0.003	0.29	0.26	< 0.001	0.0057	< 0.005	0.0013	0.0042	0.010	< 0.0002	0.015	1.15	< 0.0025	< 0.002	
5/3/2017		0.49	120	190	0.37	7.47	500	1200	< 0.003	0.10	0.17	< 0.001	0.0022	< 0.005	< 0.001	0.0038	0.011	< 0.0002	0.017	0.518	< 0.0025	< 0.002	
6/22/2017		0.50	130	190	0.48	7.36	580	1400	< 0.003	0.025	0.11	< 0.001	< 0.0005	< 0.005	< 0.001	0.00096	< 0.010	< 0.0002	0.028	0.376	< 0.0025	< 0.002	
8/29/2017		0.78	140	180	0.52	7.34	520	1400	< 0.003	0.02	0.095	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.014	< 0.0002	0.024	0.529	< 0.0025	< 0.002	
11/10/2017		0.94	130	170	0.48	7.38	370	1200	< 0.003	0.50	0.45	< 0.001	0.0015	< 0.005	< 0.001	0.00097	0.018	< 0.0002	0.023	1.67	< 0.0025	< 0.002	
5/16/2018		0.46	100	180	0.47	8.12	720	1500	< 0.003	0.09	0.1	< 0.001	0.00052	< 0.005	< 0.001	0.00067	0.012	< 0.0002	0.021	0.741	< 0.0025	< 0.002	
8/9/2018		0.61	120	190	0.44	7.42	480	1300	< 0.003	0.12	0.15	< 0.001	0.00084	< 0.005	< 0.001	0.00072	< 0.010	< 0.0002	0.026	0.735	< 0.0025	< 0.002	
5/1/2019		0.4	100	170	0.38	7.68	330	1000	< 0.003	0.04	0.13	< 0.001	0.00054	< 0.005	< 0.001	0.00054	0.014	< 0.0002	0.011	0.666	< 0.0025	< 0.002	
11/14/2019		0.74	120	160	0.45	7.61	280	1100	NA	0.026	0.072	NA	< 0.0005	NA	< 0.001	< 0.0005	0.014	< 0.0002	0.027	0.568	< 0.0025	< 0.002	
4/29/2020		0.34	71	150	0.34	7.96	360	980	NA	0.003	0.034	NA	< 0.0005	NA	< 0.001	< 0.0005	0.012	< 0.0002	0.015	0.578	< 0.0025	< 0.002	
12/8/2020		0.61	92	160	0.56	7.36	320	990	NA	0.025	0.069	NA	< 0.0005	NA	< 0.001	< 0.0005	0.012	< 0.0002	0.027	< 0.476	< 0.0025	< 0.002	
5/13/2021		0.4	89	140	0.23	7.39	350	990	< 0.003	0.003	0.058	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.017	< 0.0002	0.016	0.563	< 0.0025	< 0.002	
8/25/2021		0.5	82	130	0.46	7.43	220	740	< 0.003	0.0083	0.04	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.017	< 0.0002	0.019	< 0.502	< 0.0025	< 0.002	
12/1/2021		0.53	72	130	0.52	7.38	^ 170	730	< 0.003	0.018	0.045	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.009	< 0.0002	0.017	0.623	< 0.0025	< 0.002	
2/10/2022		0.35	96	140	0.27	7.28	320	980	< 0.003	0.0072	0.059	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.012	< 0.0002	0.017	0.602	< 0.0025	< 0.002	
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	< 0.0025	< 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	< 0.0025	< 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	< 0.0025	< 0.002	
	11/17/2016	1.3	120	180	0.47	6.91	560	1900	< 0.003	0.0033	0.051	< 0.001	< 0.0005	< 0.0050	< 0.010	< 0.0005	0.016	< 0.0002					

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

Well	Date	Turbidity (NTU)
MW-01	2/23/2021	78.20
	4/9/2021	6.96
	5/11/2021	3.24
	6/2/2021	3.80
	6/28/2021	4.30
	7/19/2021	4.88
	8/24/2021	3.34
	9/30/2021	3.04
	11/30/2021	5.43
	2/9/2022	11.5
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	3.2
	12/1/2021	0.0
	2/10/2022	0.0
MW-19	2/22/2021	0.56
	4/9/2021	4.25
	5/10/2021	1.80
	6/2/2021	5.77
	6/29/2021	8.79
	7/19/2021	7.30
	8/26/2021	30.91
	9/30/2021	2.92
	12/1/2021	0.0
	2/7/2022	3.54
MW-08	2/23/2021	47.30
	4/9/2021	23.05
	5/11/2021	8.93
	6/3/2021	11.11
	6/29/2021	5.48
	7/19/2021	6.86
	8/25/2021	6.80
	9/30/2021	5.01
	12/1/2021	5.01
	2/10/2022	14.98
MW-11	2/25/2021	35.10
	4/9/2021	41.53
	5/13/2021	14.70
	6/3/2021	14.92
	6/29/2021	40.48
	7/19/2021	25.73
	8/25/2021	55.39
	9/30/2021	4.06
	12/1/2021	2.48
	2/10/2022	9.29
MW-12	2/25/2021	26.50
	4/9/2021	66.11
	5/13/2021	5.17
	6/3/2021	106.47
	6/29/2021	21.40
	7/19/2021	22.70
	8/25/2021	12.62
	9/30/2021	18.66
	12/1/2021	29.27
	2/10/2022	7.08
MW-15	2/24/2021	64.90
	4/9/2021	16.80
	5/12/2021	16.45
	6/3/2021	7.85
	6/29/2021	6.58
	7/20/2021	5.82
	8/23/2021	4.28
	10/1/2021	13.13
	11/29/2021	12.35
	2/9/2022	9.38
MW-17	2/24/2021	42.00
	4/8/2021	17.10
	5/12/2021	10.90
	6/3/2021	38.15
	6/28/2021	29.15
	7/20/2021	16.38
	8/23/2021	26.51
	10/1/2021	21.26
	11/29/2021	8.86
	2/7/2022	11.19
MW-18	2/22/2021	3.40
	4/9/2021	4.62
	5/10/2021	2.28
	6/3/2021	2.38
	6/29/2021	3.96
	7/19/2021	5.19
	8/26/2021	7.96
	9/30/2021	37.94
	12/1/2021	5.88
	2/8/2022	39.3

ANALYTICAL REPORT

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

Laboratory Job ID: 500-211999-1
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:
3/1/2022 3:18:04 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: 500-211999-1

Job ID: 500-211999-1

Laboratory: Eurofins Chicago

Narrative

**Job Narrative
500-211999-1**

Comments

No additional comments.

Receipt

The samples were received on 2/8/2022 4:15 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 0.3° C, 0.8° C, 2.1° C and 2.8° C.

Metals

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

General Chemistry

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

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Method Summary

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

Job ID: 500-211999-1

Method	Method Description	Protocol	Laboratory
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 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: 500-211999-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-211999-1	MW-17	Water	02/07/22 14:58	02/08/22 16:15
500-211999-2	MW-19	Water	02/07/22 16:11	02/08/22 16:15
500-211999-3	MW-18	Water	02/08/22 11:56	02/09/22 16:05
500-211999-4	Duplicate	Water	02/08/22 00:00	02/09/22 16:05
500-211999-5	MW-01	Water	02/09/22 15:02	02/10/22 13:55
500-211999-6	MW-15	Water	02/09/22 10:56	02/10/22 13:55
500-211999-7	MW-08	Water	02/10/22 11:19	02/11/22 10:45
500-211999-8	MW-09	Water	02/10/22 15:42	02/11/22 10:45
500-211999-9	MW-11	Water	02/10/22 13:33	02/11/22 10:45
500-211999-10	MW-12	Water	02/10/22 14:27	02/11/22 10:45

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- 12
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Client Sample Results

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

Job ID: 500-211999-1

Client Sample ID: MW-17
Date Collected: 02/07/22 14:58
Date Received: 02/08/22 16:15

Lab Sample ID: 500-211999-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		02/18/22 10:48	02/19/22 00:52	1
Arsenic	0.0044		0.0010		mg/L		02/18/22 10:48	02/19/22 00:52	1
Barium	0.026		0.0025		mg/L		02/18/22 10:48	02/19/22 00:52	1
Beryllium	<0.0010		0.0010		mg/L		02/18/22 10:48	02/19/22 00:52	1
Boron	0.90		0.25		mg/L		02/18/22 10:48	02/21/22 15:08	5
Cadmium	<0.00050		0.00050		mg/L		02/18/22 10:48	02/19/22 00:52	1
Calcium	140		0.20		mg/L		02/18/22 10:48	02/19/22 00:52	1
Chromium	<0.0050		0.0050		mg/L		02/18/22 10:48	02/19/22 00:52	1
Cobalt	<0.0010		0.0010		mg/L		02/18/22 10:48	02/19/22 00:52	1
Lead	<0.00050		0.00050		mg/L		02/18/22 10:48	02/19/22 00:52	1
Lithium	0.016		0.0020		mg/L		02/18/22 10:48	02/19/22 00:52	1
Molybdenum	0.038		0.0050		mg/L		02/18/22 10:48	02/19/22 00:52	1
Selenium	<0.0025		0.0025		mg/L		02/18/22 10:48	02/19/22 00:52	1
Thallium	<0.0020		0.0020		mg/L		02/18/22 10:48	02/19/22 00:52	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		02/22/22 09:45	02/23/22 12:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1300		10		mg/L			02/09/22 04:27	1
Chloride	160		10		mg/L			02/28/22 13:51	5
Fluoride	0.82		0.10		mg/L			02/15/22 19:27	1
Sulfate	430		50		mg/L			02/28/22 14:33	10

Client Sample Results

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

Job ID: 500-211999-1

Client Sample ID: MW-19

Lab Sample ID: 500-211999-2

Date Collected: 02/07/22 16:11

Matrix: Water

Date Received: 02/08/22 16:15

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		02/18/22 10:48	02/19/22 00:56	1
Arsenic	<0.0010		0.0010		mg/L		02/18/22 10:48	02/19/22 00:56	1
Barium	0.074		0.0025		mg/L		02/18/22 10:48	02/19/22 00:56	1
Beryllium	<0.0010		0.0010		mg/L		02/18/22 10:48	02/19/22 00:56	1
Boron	3.9		0.50		mg/L		02/18/22 10:48	02/21/22 15:11	10
Cadmium	<0.00050		0.00050		mg/L		02/18/22 10:48	02/19/22 00:56	1
Calcium	77		0.20		mg/L		02/18/22 10:48	02/19/22 00:56	1
Chromium	<0.0050		0.0050		mg/L		02/18/22 10:48	02/19/22 00:56	1
Cobalt	<0.0010		0.0010		mg/L		02/18/22 10:48	02/19/22 00:56	1
Lead	<0.00050		0.00050		mg/L		02/18/22 10:48	02/19/22 00:56	1
Lithium	0.0030		0.0020		mg/L		02/18/22 10:48	02/19/22 00:56	1
Molybdenum	0.043		0.0050		mg/L		02/18/22 10:48	02/19/22 00:56	1
Selenium	<0.0025		0.0025		mg/L		02/18/22 10:48	02/19/22 00:56	1
Thallium	<0.0020		0.0020		mg/L		02/18/22 10:48	02/19/22 00:56	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		02/22/22 09:45	02/23/22 12:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	600		10		mg/L			02/09/22 04:30	1
Chloride	34		2.0		mg/L			02/28/22 13:51	1
Fluoride	0.17		0.10		mg/L			02/15/22 19:45	1
Sulfate	140		25		mg/L			02/28/22 14:34	5

Client Sample Results

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

Job ID: 500-211999-1

Client Sample ID: MW-18
Date Collected: 02/08/22 11:56
Date Received: 02/09/22 16:05

Lab Sample ID: 500-211999-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		02/18/22 10:48	02/19/22 00:59	1
Arsenic	0.010		0.0010		mg/L		02/18/22 10:48	02/19/22 00:59	1
Barium	0.26		0.0025		mg/L		02/18/22 10:48	02/19/22 00:59	1
Beryllium	<0.0010		0.0010		mg/L		02/18/22 10:48	02/19/22 00:59	1
Boron	0.55		0.050		mg/L		02/18/22 10:48	02/21/22 15:15	1
Cadmium	<0.00050		0.00050		mg/L		02/18/22 10:48	02/19/22 00:59	1
Calcium	130		0.20		mg/L		02/18/22 10:48	02/19/22 00:59	1
Chromium	0.010		0.0050		mg/L		02/18/22 10:48	02/19/22 00:59	1
Cobalt	0.0034		0.0010		mg/L		02/18/22 10:48	02/19/22 00:59	1
Lead	0.0050		0.00050		mg/L		02/18/22 10:48	02/19/22 00:59	1
Lithium	0.014		0.0020		mg/L		02/18/22 10:48	02/19/22 00:59	1
Molybdenum	0.013		0.0050		mg/L		02/18/22 10:48	02/19/22 00:59	1
Selenium	<0.0025		0.0025		mg/L		02/18/22 10:48	02/19/22 00:59	1
Thallium	<0.0020		0.0020		mg/L		02/18/22 10:48	02/19/22 00:59	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		02/22/22 09:45	02/23/22 12:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1200		10		mg/L			02/10/22 05:00	1
Chloride	150		10		mg/L			02/28/22 13:52	5
Fluoride	0.60		0.10		mg/L			02/15/22 20:04	1
Sulfate	270		50		mg/L			02/28/22 14:55	10

Client Sample Results

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

Job ID: 500-211999-1

Client Sample ID: Duplicate
Date Collected: 02/08/22 00:00
Date Received: 02/09/22 16:05

Lab Sample ID: 500-211999-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		02/18/22 10:48	02/19/22 01:03	1
Arsenic	0.0041		0.0010		mg/L		02/18/22 10:48	02/19/22 01:03	1
Barium	0.16		0.0025		mg/L		02/18/22 10:48	02/19/22 01:03	1
Beryllium	<0.0010		0.0010		mg/L		02/18/22 10:48	02/19/22 01:03	1
Boron	0.64		0.10		mg/L		02/18/22 10:48	02/21/22 15:18	2
Cadmium	<0.00050		0.00050		mg/L		02/18/22 10:48	02/19/22 01:03	1
Calcium	140		0.20		mg/L		02/18/22 10:48	02/19/22 01:03	1
Chromium	<0.0050		0.0050		mg/L		02/18/22 10:48	02/19/22 01:03	1
Cobalt	<0.0010		0.0010		mg/L		02/18/22 10:48	02/19/22 01:03	1
Lead	0.00061		0.00050		mg/L		02/18/22 10:48	02/19/22 01:03	1
Lithium	0.011		0.0020		mg/L		02/18/22 10:48	02/19/22 01:03	1
Molybdenum	0.0093		0.0050		mg/L		02/18/22 10:48	02/19/22 01:03	1
Selenium	<0.0025		0.0025		mg/L		02/18/22 10:48	02/19/22 01:03	1
Thallium	<0.0020		0.0020		mg/L		02/18/22 10:48	02/19/22 01:03	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		02/22/22 09:45	02/23/22 12:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1100		10		mg/L			02/10/22 05:03	1
Chloride	150		10		mg/L			02/28/22 13:53	5
Fluoride	0.58		0.10		mg/L			02/15/22 20:09	1
Sulfate	240		25		mg/L			02/28/22 14:55	5

Client Sample Results

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

Job ID: 500-211999-1

Client Sample ID: MW-01

Lab Sample ID: 500-211999-5

Date Collected: 02/09/22 15:02

Matrix: Water

Date Received: 02/10/22 13:55

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		02/18/22 10:48	02/19/22 01:13	1
Arsenic	0.0013		0.0010		mg/L		02/18/22 10:48	02/19/22 01:13	1
Barium	0.051		0.0025		mg/L		02/18/22 10:48	02/19/22 01:13	1
Beryllium	<0.0010		0.0010		mg/L		02/18/22 10:48	02/19/22 01:13	1
Boron	0.18		0.050		mg/L		02/18/22 10:48	02/21/22 15:21	1
Cadmium	<0.00050		0.00050		mg/L		02/18/22 10:48	02/19/22 01:13	1
Calcium	95		0.20		mg/L		02/18/22 10:48	02/19/22 01:13	1
Chromium	<0.0050		0.0050		mg/L		02/18/22 10:48	02/19/22 01:13	1
Cobalt	<0.0010		0.0010		mg/L		02/18/22 10:48	02/19/22 01:13	1
Lead	0.00089		0.00050		mg/L		02/18/22 10:48	02/19/22 01:13	1
Lithium	0.0026		0.0020		mg/L		02/18/22 10:48	02/19/22 01:13	1
Molybdenum	0.0075		0.0050		mg/L		02/18/22 10:48	02/19/22 01:13	1
Selenium	<0.0025		0.0025		mg/L		02/18/22 10:48	02/19/22 01:13	1
Thallium	<0.0020		0.0020		mg/L		02/18/22 10:48	02/19/22 01:13	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		02/22/22 09:45	02/23/22 12:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	520		10		mg/L			02/11/22 05:00	1
Chloride	47		4.0		mg/L			02/28/22 13:53	2
Fluoride	0.17		0.10		mg/L			02/15/22 20:13	1
Sulfate	47		5.0		mg/L			02/28/22 14:33	1

Client Sample Results

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

Job ID: 500-211999-1

Client Sample ID: MW-15

Lab Sample ID: 500-211999-6

Date Collected: 02/09/22 10:56

Matrix: Water

Date Received: 02/10/22 13:55

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		02/18/22 10:48	02/19/22 01:17	1
Arsenic	0.0080		0.0010		mg/L		02/18/22 10:48	02/19/22 01:17	1
Barium	0.055		0.0025		mg/L		02/18/22 10:48	02/19/22 01:17	1
Beryllium	<0.0010		0.0010		mg/L		02/18/22 10:48	02/19/22 01:17	1
Boron	0.93		0.25		mg/L		02/18/22 10:48	02/21/22 15:25	5
Cadmium	<0.00050		0.00050		mg/L		02/18/22 10:48	02/19/22 01:17	1
Calcium	140		0.20		mg/L		02/18/22 10:48	02/19/22 01:17	1
Chromium	<0.0050		0.0050		mg/L		02/18/22 10:48	02/19/22 01:17	1
Cobalt	<0.0010		0.0010		mg/L		02/18/22 10:48	02/19/22 01:17	1
Lead	<0.00050		0.00050		mg/L		02/18/22 10:48	02/19/22 01:17	1
Lithium	0.024		0.0020		mg/L		02/18/22 10:48	02/19/22 01:17	1
Molybdenum	0.014		0.0050		mg/L		02/18/22 10:48	02/19/22 01:17	1
Selenium	0.0034		0.0025		mg/L		02/18/22 10:48	02/19/22 01:17	1
Thallium	<0.0020		0.0020		mg/L		02/18/22 10:48	02/19/22 01:17	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		02/22/22 09:45	02/23/22 12:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1200		10		mg/L			02/11/22 05:03	1
Chloride	160		10		mg/L			02/28/22 13:54	5
Fluoride	0.59		0.10		mg/L			02/15/22 20:16	1
Sulfate	320		50		mg/L			02/28/22 14:34	10

Client Sample Results

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

Job ID: 500-211999-1

Client Sample ID: MW-08

Lab Sample ID: 500-211999-7

Date Collected: 02/10/22 11:19

Matrix: Water

Date Received: 02/11/22 10:45

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		02/18/22 10:48	02/19/22 01:20	1
Arsenic	0.0029		0.0010		mg/L		02/18/22 10:48	02/19/22 01:20	1
Barium	0.13		0.0025		mg/L		02/18/22 10:48	02/19/22 01:20	1
Beryllium	<0.0010		0.0010		mg/L		02/18/22 10:48	02/19/22 01:20	1
Boron	0.81		0.25		mg/L		02/18/22 10:48	02/21/22 15:28	5
Cadmium	<0.00050		0.00050		mg/L		02/18/22 10:48	02/19/22 01:20	1
Calcium	110		0.20		mg/L		02/18/22 10:48	02/19/22 01:20	1
Chromium	<0.0050		0.0050		mg/L		02/18/22 10:48	02/19/22 01:20	1
Cobalt	<0.0010		0.0010		mg/L		02/18/22 10:48	02/19/22 01:20	1
Lead	<0.00050		0.00050		mg/L		02/18/22 10:48	02/19/22 01:20	1
Lithium	0.023		0.0020		mg/L		02/18/22 10:48	02/19/22 01:20	1
Molybdenum	0.0092		0.0050		mg/L		02/18/22 10:48	02/19/22 01:20	1
Selenium	<0.0025		0.0025		mg/L		02/18/22 10:48	02/19/22 01:20	1
Thallium	<0.0020		0.0020		mg/L		02/18/22 10:48	02/19/22 01:20	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		02/22/22 09:45	02/23/22 12:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	670		10		mg/L			02/14/22 03:44	1
Chloride	130		10		mg/L			02/28/22 13:54	5
Fluoride	0.37		0.10		mg/L			02/15/22 20:22	1
Sulfate	55		10		mg/L			02/28/22 14:35	2

Client Sample Results

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

Job ID: 500-211999-1

Client Sample ID: MW-09

Lab Sample ID: 500-211999-8

Date Collected: 02/10/22 15:42

Matrix: Water

Date Received: 02/11/22 10:45

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		02/18/22 10:48	02/19/22 01:24	1
Arsenic	0.0019		0.0010		mg/L		02/18/22 10:48	02/19/22 01:24	1
Barium	0.043		0.0025		mg/L		02/18/22 10:48	02/19/22 01:24	1
Beryllium	<0.0010		0.0010		mg/L		02/18/22 10:48	02/19/22 01:24	1
Boron	3.5		0.50		mg/L		02/18/22 10:48	02/21/22 15:32	10
Cadmium	<0.00050		0.00050		mg/L		02/18/22 10:48	02/19/22 01:24	1
Calcium	79		0.20		mg/L		02/18/22 10:48	02/19/22 01:24	1
Chromium	<0.0050		0.0050		mg/L		02/18/22 10:48	02/19/22 01:24	1
Cobalt	<0.0010		0.0010		mg/L		02/18/22 10:48	02/19/22 01:24	1
Lead	<0.00050		0.00050		mg/L		02/18/22 10:48	02/19/22 01:24	1
Lithium	0.0028		0.0020		mg/L		02/18/22 10:48	02/19/22 01:24	1
Molybdenum	0.030		0.0050		mg/L		02/18/22 10:48	02/19/22 01:24	1
Selenium	<0.0025		0.0025		mg/L		02/18/22 10:48	02/19/22 01:24	1
Thallium	<0.0020		0.0020		mg/L		02/18/22 10:48	02/19/22 01:24	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		02/22/22 09:45	02/23/22 12:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	510		10		mg/L			02/14/22 03:51	1
Chloride	33		2.0		mg/L			02/28/22 13:33	1
Fluoride	0.23		0.10		mg/L			02/15/22 20:25	1
Sulfate	120		25		mg/L			02/28/22 14:55	5

Client Sample Results

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

Job ID: 500-211999-1

Client Sample ID: MW-11
Date Collected: 02/10/22 13:33
Date Received: 02/11/22 10:45

Lab Sample ID: 500-211999-9
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		02/18/22 10:48	02/19/22 01:27	1
Arsenic	0.015		0.0010		mg/L		02/18/22 10:48	02/19/22 01:27	1
Barium	0.20		0.0025		mg/L		02/18/22 10:48	02/19/22 01:27	1
Beryllium	<0.0010		0.0010		mg/L		02/18/22 10:48	02/19/22 01:27	1
Boron	0.93		0.10		mg/L		02/18/22 10:48	02/21/22 15:35	2
Cadmium	<0.00050		0.00050		mg/L		02/18/22 10:48	02/19/22 01:27	1
Calcium	110		0.20		mg/L		02/18/22 10:48	02/19/22 01:27	1
Chromium	<0.0050		0.0050		mg/L		02/18/22 10:48	02/19/22 01:27	1
Cobalt	0.0024		0.0010		mg/L		02/18/22 10:48	02/19/22 01:27	1
Lead	0.00059		0.00050		mg/L		02/18/22 10:48	02/19/22 01:27	1
Lithium	0.0070		0.0020		mg/L		02/18/22 10:48	02/19/22 01:27	1
Molybdenum	0.027		0.0050		mg/L		02/18/22 10:48	02/19/22 01:27	1
Selenium	<0.0025		0.0025		mg/L		02/18/22 10:48	02/19/22 01:27	1
Thallium	<0.0020		0.0020		mg/L		02/18/22 10:48	02/19/22 01:27	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		02/22/22 09:45	02/23/22 13:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	920		10		mg/L			02/14/22 03:57	1
Chloride	110		10		mg/L			02/28/22 13:54	5
Fluoride	0.68		0.10		mg/L			02/15/22 20:31	1
Sulfate	220		25		mg/L			02/28/22 14:35	5

Client Sample Results

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

Job ID: 500-211999-1

Client Sample ID: MW-12
Date Collected: 02/10/22 14:27
Date Received: 02/11/22 10:45

Lab Sample ID: 500-211999-10
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		02/18/22 10:48	02/19/22 01:30	1
Arsenic	0.0072		0.0010		mg/L		02/18/22 10:48	02/19/22 01:30	1
Barium	0.059		0.0025		mg/L		02/18/22 10:48	02/19/22 01:30	1
Beryllium	<0.0010		0.0010		mg/L		02/18/22 10:48	02/19/22 01:30	1
Boron	0.35		0.050		mg/L		02/18/22 10:48	02/21/22 15:50	1
Cadmium	<0.00050		0.00050		mg/L		02/18/22 10:48	02/19/22 01:30	1
Calcium	96		0.20		mg/L		02/18/22 10:48	02/19/22 01:30	1
Chromium	<0.0050		0.0050		mg/L		02/18/22 10:48	02/19/22 01:30	1
Cobalt	<0.0010		0.0010		mg/L		02/18/22 10:48	02/19/22 01:30	1
Lead	<0.00050		0.00050		mg/L		02/18/22 10:48	02/19/22 01:30	1
Lithium	0.012		0.0020		mg/L		02/18/22 10:48	02/19/22 01:30	1
Molybdenum	0.017		0.0050		mg/L		02/18/22 10:48	02/19/22 01:30	1
Selenium	<0.0025		0.0025		mg/L		02/18/22 10:48	02/19/22 01:30	1
Thallium	<0.0020		0.0020		mg/L		02/18/22 10:48	02/19/22 01:30	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		02/22/22 09:45	02/23/22 13:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	980		10		mg/L			02/14/22 03:59	1
Chloride	140		10		mg/L			02/28/22 13:55	5
Fluoride	0.27		0.10		mg/L			02/15/22 20:34	1
Sulfate	320		50		mg/L			02/28/22 14:56	10

Definitions/Glossary

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

Job ID: 500-211999-1

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: 500-211999-1

Metals

Prep Batch: 643201

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-211999-1	MW-17	Total Recoverable	Water	3005A	
500-211999-2	MW-19	Total Recoverable	Water	3005A	
500-211999-3	MW-18	Total Recoverable	Water	3005A	
500-211999-4	Duplicate	Total Recoverable	Water	3005A	
500-211999-5	MW-01	Total Recoverable	Water	3005A	
500-211999-6	MW-15	Total Recoverable	Water	3005A	
500-211999-7	MW-08	Total Recoverable	Water	3005A	
500-211999-8	MW-09	Total Recoverable	Water	3005A	
500-211999-9	MW-11	Total Recoverable	Water	3005A	
500-211999-10	MW-12	Total Recoverable	Water	3005A	
MB 500-643201/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-643201/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 643537

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-211999-1	MW-17	Total Recoverable	Water	6020A	643201
500-211999-2	MW-19	Total Recoverable	Water	6020A	643201
500-211999-3	MW-18	Total Recoverable	Water	6020A	643201
500-211999-4	Duplicate	Total Recoverable	Water	6020A	643201
500-211999-5	MW-01	Total Recoverable	Water	6020A	643201
500-211999-6	MW-15	Total Recoverable	Water	6020A	643201
500-211999-7	MW-08	Total Recoverable	Water	6020A	643201
500-211999-8	MW-09	Total Recoverable	Water	6020A	643201
500-211999-9	MW-11	Total Recoverable	Water	6020A	643201
500-211999-10	MW-12	Total Recoverable	Water	6020A	643201
MB 500-643201/1-A	Method Blank	Total Recoverable	Water	6020A	643201
LCS 500-643201/2-A	Lab Control Sample	Total Recoverable	Water	6020A	643201

Analysis Batch: 643796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-211999-1	MW-17	Total Recoverable	Water	6020A	643201
500-211999-2	MW-19	Total Recoverable	Water	6020A	643201
500-211999-3	MW-18	Total Recoverable	Water	6020A	643201
500-211999-4	Duplicate	Total Recoverable	Water	6020A	643201
500-211999-5	MW-01	Total Recoverable	Water	6020A	643201
500-211999-6	MW-15	Total Recoverable	Water	6020A	643201
500-211999-7	MW-08	Total Recoverable	Water	6020A	643201
500-211999-8	MW-09	Total Recoverable	Water	6020A	643201
500-211999-9	MW-11	Total Recoverable	Water	6020A	643201
500-211999-10	MW-12	Total Recoverable	Water	6020A	643201
MB 500-643201/1-A	Method Blank	Total Recoverable	Water	6020A	643201
LCS 500-643201/2-A	Lab Control Sample	Total Recoverable	Water	6020A	643201

Prep Batch: 643799

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-211999-1	MW-17	Total/NA	Water	7470A	
500-211999-2	MW-19	Total/NA	Water	7470A	
500-211999-3	MW-18	Total/NA	Water	7470A	
500-211999-4	Duplicate	Total/NA	Water	7470A	
500-211999-5	MW-01	Total/NA	Water	7470A	
500-211999-6	MW-15	Total/NA	Water	7470A	

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QC Association Summary

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

Job ID: 500-211999-1

Metals (Continued)

Prep Batch: 643799 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-211999-7	MW-08	Total/NA	Water	7470A	
500-211999-8	MW-09	Total/NA	Water	7470A	
500-211999-9	MW-11	Total/NA	Water	7470A	
500-211999-10	MW-12	Total/NA	Water	7470A	
MB 500-643799/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-643799/13-A	Lab Control Sample	Total/NA	Water	7470A	
500-211999-6 MS	MW-15	Total/NA	Water	7470A	
500-211999-6 MSD	MW-15	Total/NA	Water	7470A	
500-211999-6 DU	MW-15	Total/NA	Water	7470A	

Analysis Batch: 644140

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-211999-1	MW-17	Total/NA	Water	7470A	643799
500-211999-2	MW-19	Total/NA	Water	7470A	643799
500-211999-3	MW-18	Total/NA	Water	7470A	643799
500-211999-4	Duplicate	Total/NA	Water	7470A	643799
500-211999-5	MW-01	Total/NA	Water	7470A	643799
500-211999-6	MW-15	Total/NA	Water	7470A	643799
500-211999-7	MW-08	Total/NA	Water	7470A	643799
500-211999-8	MW-09	Total/NA	Water	7470A	643799
500-211999-9	MW-11	Total/NA	Water	7470A	643799
500-211999-10	MW-12	Total/NA	Water	7470A	643799
MB 500-643799/12-A	Method Blank	Total/NA	Water	7470A	643799
LCS 500-643799/13-A	Lab Control Sample	Total/NA	Water	7470A	643799
500-211999-6 MS	MW-15	Total/NA	Water	7470A	643799
500-211999-6 MSD	MW-15	Total/NA	Water	7470A	643799
500-211999-6 DU	MW-15	Total/NA	Water	7470A	643799

General Chemistry

Analysis Batch: 641481

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-211999-1	MW-17	Total/NA	Water	SM 2540C	
500-211999-2	MW-19	Total/NA	Water	SM 2540C	
MB 500-641481/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-641481/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 641700

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-211999-3	MW-18	Total/NA	Water	SM 2540C	
500-211999-4	Duplicate	Total/NA	Water	SM 2540C	
MB 500-641700/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-641700/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 641914

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-211999-5	MW-01	Total/NA	Water	SM 2540C	
500-211999-6	MW-15	Total/NA	Water	SM 2540C	
MB 500-641914/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-641914/2	Lab Control Sample	Total/NA	Water	SM 2540C	

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QC Association Summary

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

Job ID: 500-211999-1

General Chemistry

Analysis Batch: 642215

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-211999-7	MW-08	Total/NA	Water	SM 2540C	
500-211999-8	MW-09	Total/NA	Water	SM 2540C	
500-211999-9	MW-11	Total/NA	Water	SM 2540C	
500-211999-10	MW-12	Total/NA	Water	SM 2540C	
MB 500-642215/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-642215/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-211999-7 MS	MW-08	Total/NA	Water	SM 2540C	
500-211999-7 DU	MW-08	Total/NA	Water	SM 2540C	
500-211999-8 DU	MW-09	Total/NA	Water	SM 2540C	

Analysis Batch: 642706

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-211999-1	MW-17	Total/NA	Water	SM 4500 F C	
500-211999-2	MW-19	Total/NA	Water	SM 4500 F C	
500-211999-3	MW-18	Total/NA	Water	SM 4500 F C	
500-211999-4	Duplicate	Total/NA	Water	SM 4500 F C	
500-211999-5	MW-01	Total/NA	Water	SM 4500 F C	
500-211999-6	MW-15	Total/NA	Water	SM 4500 F C	
500-211999-7	MW-08	Total/NA	Water	SM 4500 F C	
500-211999-8	MW-09	Total/NA	Water	SM 4500 F C	
500-211999-9	MW-11	Total/NA	Water	SM 4500 F C	
500-211999-10	MW-12	Total/NA	Water	SM 4500 F C	
MB 500-642706/31	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-642706/32	Lab Control Sample	Total/NA	Water	SM 4500 F C	
500-211999-1 MS	MW-17	Total/NA	Water	SM 4500 F C	
500-211999-1 MSD	MW-17	Total/NA	Water	SM 4500 F C	

Analysis Batch: 644868

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-211999-1	MW-17	Total/NA	Water	SM 4500 Cl- E	
500-211999-2	MW-19	Total/NA	Water	SM 4500 Cl- E	
500-211999-3	MW-18	Total/NA	Water	SM 4500 Cl- E	
500-211999-4	Duplicate	Total/NA	Water	SM 4500 Cl- E	
500-211999-5	MW-01	Total/NA	Water	SM 4500 Cl- E	
500-211999-6	MW-15	Total/NA	Water	SM 4500 Cl- E	
500-211999-7	MW-08	Total/NA	Water	SM 4500 Cl- E	
500-211999-8	MW-09	Total/NA	Water	SM 4500 Cl- E	
500-211999-9	MW-11	Total/NA	Water	SM 4500 Cl- E	
500-211999-10	MW-12	Total/NA	Water	SM 4500 Cl- E	
MB 500-644868/16	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 500-644868/17	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
500-211999-2 MS	MW-19	Total/NA	Water	SM 4500 Cl- E	
500-211999-2 MSD	MW-19	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 644883

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-211999-1	MW-17	Total/NA	Water	SM 4500 SO4 E	
500-211999-2	MW-19	Total/NA	Water	SM 4500 SO4 E	
500-211999-3	MW-18	Total/NA	Water	SM 4500 SO4 E	
500-211999-4	Duplicate	Total/NA	Water	SM 4500 SO4 E	
500-211999-5	MW-01	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: 500-211999-1

General Chemistry (Continued)

Analysis Batch: 644883 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-211999-6	MW-15	Total/NA	Water	SM 4500 SO4 E	
500-211999-7	MW-08	Total/NA	Water	SM 4500 SO4 E	
500-211999-8	MW-09	Total/NA	Water	SM 4500 SO4 E	
500-211999-9	MW-11	Total/NA	Water	SM 4500 SO4 E	
500-211999-10	MW-12	Total/NA	Water	SM 4500 SO4 E	
MB 500-644883/15	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-644883/16	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	

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

QC Sample Results

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

Job ID: 500-211999-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 500-643201/1-A
Matrix: Water
Analysis Batch: 643537

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 643201

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0030		0.0030		mg/L		02/18/22 10:48	02/18/22 23:50	1
Arsenic	<0.0010		0.0010		mg/L		02/18/22 10:48	02/18/22 23:50	1
Barium	<0.0025		0.0025		mg/L		02/18/22 10:48	02/18/22 23:50	1
Beryllium	<0.0010		0.0010		mg/L		02/18/22 10:48	02/18/22 23:50	1
Cadmium	<0.00050		0.00050		mg/L		02/18/22 10:48	02/18/22 23:50	1
Calcium	<0.20		0.20		mg/L		02/18/22 10:48	02/18/22 23:50	1
Chromium	<0.0050		0.0050		mg/L		02/18/22 10:48	02/18/22 23:50	1
Cobalt	<0.0010		0.0010		mg/L		02/18/22 10:48	02/18/22 23:50	1
Lead	<0.00050		0.00050		mg/L		02/18/22 10:48	02/18/22 23:50	1
Lithium	<0.0020		0.0020		mg/L		02/18/22 10:48	02/18/22 23:50	1
Molybdenum	<0.0050		0.0050		mg/L		02/18/22 10:48	02/18/22 23:50	1
Selenium	<0.0025		0.0025		mg/L		02/18/22 10:48	02/18/22 23:50	1
Thallium	<0.0020		0.0020		mg/L		02/18/22 10:48	02/18/22 23:50	1

Lab Sample ID: MB 500-643201/1-A
Matrix: Water
Analysis Batch: 643796

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 643201

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Boron	<0.050		0.050		mg/L		02/18/22 10:48	02/21/22 14:22	1

Lab Sample ID: LCS 500-643201/2-A
Matrix: Water
Analysis Batch: 643537

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 643201

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.100	0.0854		mg/L		85	80 - 120
Barium	2.00	1.93		mg/L		96	80 - 120
Beryllium	0.0500	0.0464		mg/L		93	80 - 120
Cadmium	0.0500	0.0475		mg/L		95	80 - 120
Calcium	10.0	9.29		mg/L		93	80 - 120
Chromium	0.200	0.199		mg/L		100	80 - 120
Cobalt	0.500	0.495		mg/L		99	80 - 120
Lead	0.100	0.102		mg/L		102	80 - 120
Lithium	0.500	0.493		mg/L		99	80 - 120
Molybdenum	1.00	0.927		mg/L		93	80 - 120
Selenium	0.100	0.0917		mg/L		92	80 - 120
Thallium	0.100	0.104		mg/L		104	80 - 120

Lab Sample ID: LCS 500-643201/2-A
Matrix: Water
Analysis Batch: 643796

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 643201

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits

QC Sample Results

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

Job ID: 500-211999-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-643799/12-A
Matrix: Water
Analysis Batch: 644140

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 643799

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		02/22/22 09:45	02/23/22 12:09	1

Lab Sample ID: LCS 500-643799/13-A
Matrix: Water
Analysis Batch: 644140

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 643799

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00200	0.00204		mg/L		102	80 - 120

Lab Sample ID: 500-211999-6 MS
Matrix: Water
Analysis Batch: 644140

Client Sample ID: MW-15
Prep Type: Total/NA
Prep Batch: 643799

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	<0.00020		0.00100	0.000964		mg/L		96	75 - 125

Lab Sample ID: 500-211999-6 MSD
Matrix: Water
Analysis Batch: 644140

Client Sample ID: MW-15
Prep Type: Total/NA
Prep Batch: 643799

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	<0.00020		0.00100	0.00102		mg/L		102	75 - 125	6	20

Lab Sample ID: 500-211999-6 DU
Matrix: Water
Analysis Batch: 644140

Client Sample ID: MW-15
Prep Type: Total/NA
Prep Batch: 643799

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

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

Lab Sample ID: MB 500-641481/1
Matrix: Water
Analysis Batch: 641481

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10		mg/L			02/09/22 03:31	1

Lab Sample ID: LCS 500-641481/2
Matrix: Water
Analysis Batch: 641481

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	238		mg/L		95	80 - 120

QC Sample Results

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

Job ID: 500-211999-1

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

Lab Sample ID: MB 500-641700/1
Matrix: Water
Analysis Batch: 641700

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10		mg/L			02/10/22 04:35	1

Lab Sample ID: LCS 500-641700/2
Matrix: Water
Analysis Batch: 641700

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

Lab Sample ID: MB 500-641914/1
Matrix: Water
Analysis Batch: 641914

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10		mg/L			02/11/22 04:22	1

Lab Sample ID: LCS 500-641914/2
Matrix: Water
Analysis Batch: 641914

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	272		mg/L		109	80 - 120

Lab Sample ID: MB 500-642215/1
Matrix: Water
Analysis Batch: 642215

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10		mg/L			02/14/22 03:39	1

Lab Sample ID: LCS 500-642215/2
Matrix: Water
Analysis Batch: 642215

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

Lab Sample ID: 500-211999-7 MS
Matrix: Water
Analysis Batch: 642215

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	670		250	978		mg/L		122	75 - 125

Lab Sample ID: 500-211999-7 DU
Matrix: Water
Analysis Batch: 642215

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

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	670		638		mg/L		5	5

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QC Sample Results

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

Job ID: 500-211999-1

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

Lab Sample ID: 500-211999-8 DU
Matrix: Water
Analysis Batch: 642215

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

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	510		524		mg/L		2	5

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 500-644868/16
Matrix: Water
Analysis Batch: 644868

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<2.0		2.0		mg/L			02/28/22 13:28	1

Lab Sample ID: LCS 500-644868/17
Matrix: Water
Analysis Batch: 644868

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

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

Lab Sample ID: 500-211999-2 MS
Matrix: Water
Analysis Batch: 644868

Client Sample ID: MW-19
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	34		20.0	50.5		mg/L		83	75 - 125

Lab Sample ID: 500-211999-2 MSD
Matrix: Water
Analysis Batch: 644868

Client Sample ID: MW-19
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	34		20.0	51.2		mg/L		87	75 - 125	1	20

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-642706/31
Matrix: Water
Analysis Batch: 642706

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			02/15/22 19:13	1

Lab Sample ID: LCS 500-642706/32
Matrix: Water
Analysis Batch: 642706

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	10.6		mg/L		106	90 - 119

QC Sample Results

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

Job ID: 500-211999-1

Method: SM 4500 F C - Fluoride (Continued)

Lab Sample ID: 500-211999-1 MS
Matrix: Water
Analysis Batch: 642706

Client Sample ID: MW-17
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	0.82		5.00	6.06		mg/L		105	75 - 125

Lab Sample ID: 500-211999-1 MSD
Matrix: Water
Analysis Batch: 642706

Client Sample ID: MW-17
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	0.82		5.00	6.03		mg/L		104	75 - 125	0	20

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 500-644883/15
Matrix: Water
Analysis Batch: 644883

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<5.0		5.0		mg/L			02/28/22 14:30	1

Lab Sample ID: LCS 500-644883/16
Matrix: Water
Analysis Batch: 644883

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

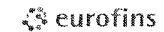
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	20.0	20.6		mg/L		103	88 - 123

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

Chain of Custody Record

MKE 232



Environnemental

Client Information		Sampler: <u>M. Kess</u>		Lab PM: Mockler Diana J		Carrier Tracking No(s)		COC No. 500-98564-43259 1	
Client Contact: Mitchel Dolan		Phone: <u>630.203.7240</u>		E-Mail: Diana.Mockler@Eurofinset.com		State of Origin		Page 1 of 1 <u>211999</u>	
Company: KPRG and Associates Inc		PWS#		Analysis Requested				Job #: <u>500-211999-#12/18/22</u>	
Address: 14865 West Lisbon Road Suite 1A		Due Date Requested		 500-211999 COC				Preservation Codes	
City: Brookfield		TAT Requested (days)						A HCL M Hexane	
State Zip: WI 53005		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No		C Zn Acetate O AsNaO2		D Nitric Acid P Na2O4S		E NaHSO4 Q Na2SO3	
Phone: 262-781-0475(Tel)		PO #: 4502081030		F MeOH R Na2S2O3		G Amchlor S H2SO4		H Ascorbic Acid T TSP Dodecahydrate	
Email: mitched@kprginc.com		WO #		I Ice U Acetone		J DI Water v MC		K EDTA W pH 4-5	
Project Name: Powerton CCR Event Desc: Quarterly Powerton CCR Sampling		Project #: 50011612		L EDA Z other (specify)		Other			
Site: Illinois		SSOW#		Field Filtered Sample (Yes or No)		Total Number of Containers		Special Instructions/Note	
Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp. G=grab)		Matrix (W=water S=solid G=water/oil)	
								BT-Tissue, A=Air	
								Preservation Code: <u>D D N N</u>	
MW-01								Water	
MW-08								Water	
MW-09								Water	
MW-11								Water	
MW-12								Water	
MW-15								Water	
1 MW-17		<u>2/7/22</u>		<u>14:58</u>		<u>G</u>		Water <u>XXXX</u>	
2 MW-18								Water	
3 MW-19		<u>2/7/22</u>		<u>16:11</u>		<u>G</u>		Water <u>XXXX</u>	
								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			
Reinquired by: <u>M. Kess</u>		Date/Time: <u>2/7/22 17:30</u>		Company: <u>KPRG</u>		Received by: <u>Stephanie Hernandez</u>		Date/Time: <u>2/10/22 11:15</u>	
Reinquired by:		Date/Time: <u>me</u>		Company:		Received by:		Date/Time:	
Reinquired by:		Date/Time:		Company:		Received by:		Date/Time:	
Custody Seals Intact? <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No: <u>173227</u>		Cooler Temperature(s) °C and Other Remarks: <u>0.8 → 0.5</u>					

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

ABB/713

Chain of Custody Record

MKE 232

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Client Information		Sampler	Lab PM	Carrier Tracking No(s)	COC No.
Client Contact Mitche Doian		Phone	Mockler Diana J		500-98564-43259 1
Company KPRG and Associates Inc			E-Mail Diana Mockler@Eurofins.com	State of Origin	Page of 1
Address 14665 West Lisbon Road Suite 1A		Due Date Requested	Analysis Requested		
City Brookfield		TAT Requested (days)	 500-211999 COC		
State Zip WI 53005		Compliance Project. <input type="checkbox"/> Yes <input type="checkbox"/> No			
Phone 262-781-0475(Tel)		PO # 4502081030			
Email mitcheid@kprg.com		WO #			
Project Name Powerton CCR Event Desc Quarterly Powerton CCR Sampling		Projec. # 50011612	Preservation Codes A HCL M Hexane B NaOH N None C Zn Acetate O As/NaO2 D Nitric Acid P Na2O4S E NaHSO4 Q Na2SO3 F MeOH R Na2S2O3 G Amchlor S H2SO4 H Ascorbic Acid T SP Dodacahyd.ate I ce U Acetone J DI Water V MCAA K ED*A W pH 4-R L ED; Z Other (specify)		
Site Illinois		SSOW#	Other:		
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue Air)
					Field Filtered Sample (Yes or No)
					Performs MS/MSD (Yes or No)
					9030, 9040
					6020A, 7470A
					2540C 4600_F_C, SM4500_CL_E, SM4500_SO4_E
					SM4500_SO4_E Sulfate
					Total Number of Containers
					Special Instructions/Note
MW 01					Water
MW 08					Water
MW-09					Water
MW 11					Water
MW 12					Water
MW 15					Water
MW 17					Water
3	MW 18	2/8	11:56	G	Water
4	DUP	2/8	-	G	Water
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 M. Bess		Date/Time 2/8/2012 17:45	Company KPRG	Received by Stephanie Humonday	
Relinquished by		Date/Time	Company	Received by	
Relinquished by		Date/Time	Company	Received by	
Custody Seals Intact. <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No 1741064		Cooler Temperature/s °C and Other Remarks 1.3 + 0.8	

Eurofins Chicago

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

Chain of Custody Record

MKE 232

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Client Information				Sampler <i>M Russ</i>		Lab PM Mockler Diana J		Carrier Tracking No		COC No. 500-98564-43259 1	
Client Contact Mitchel Dolan				Phone <i>630.203.7240</i>		Email Diana.Mockler@Eurofinset.com		State		Page Page 1 of 1	
Company KPRG and Associates Inc.				FV/SID		Analysis Request		500-211999 COC		Job #: <i>500-211999</i>	
Address 14665 West Lisbon Road Suite 1A				Due Date Requested		Total Number of Containers		Preservation Codes		A HCL M Hexane	
City Brookfield				TAT Requested (days)		903.0 904.0		B NaOH N None		C Zn Acetate O AsNaO2	
State Zip WI 53005				Compliance Project. <input type="checkbox"/> Yes <input type="checkbox"/> No		6020A 7470A		D Nitric Acid F Na2O4S		E NaHSO4 Q Na2SO3	
Phone 262 781-0475(Tel)				PC # 4502081030		2540C, 4600_F_C SM4500_CLE, SM4500_SO4_E		F MeOH R Na2S2O3		G Amcnlo S H2SO4	
Email mitcheld@kprginc.com				NO #		SM4500_SO4_E Sulfate		H Ascorbic Acid T TSP undecahydra e		I Ice U Acetone	
Project Name Powerton CCR Event Desc Quarterly Powerton CCR Sampling				Project # 50011612				J DI water v MCAA		K EDTA W n-1 4-5	
Site				SSCW#				L EDA Z other specify		Other	
Sample Identification				Sample Date		Sample Time		Sample Type (C=Comp G=grab)		Matrix (W=water S=slud. O=water/soil)	
								Field Filtered Sample (Yes or No)		Special Instructions/Note	
								Perform (S/MSD (Yes or No))			
5 MW 6				<i>2/9</i>		<i>15:02</i>		G		Water	
MW-08										XXXX	
MW-09											
MW 11											
MW 12											
6 MW 15				<i>2/9</i>		<i>10:56</i>		G		Water	
MW 17										XXXX	
MW-18											
MW 19											
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							
Derivable Requested I II III IV Other (specify)				Special Instructions/QC Requirements							
Empty Kit Relinquished by				Date		Time		Method of Disposal			
Relinquished by <i>M Russ</i>				Date/Time <i>16:00 2/9</i>		Company <i>KPRG</i>		Received by <i>Stephanie Hernandez</i>		Date/Time <i>2/10/22 1355</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>1802642</i>		Cooler Temperatures °C and Other Remarks <i>21</i>							

Eurofins Chicago


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

Chain of Custody Record

MKE 232



Environment Testing
America

Client Information		Sampler <i>M. R. Hess</i>		Lab PM Mockler Diana J		Carrier Tracking No(s)		COC No: 500-98564-43259 1	
Client Contact: Mitchel Dolan		Phone <i>630.203.7240</i>		E-Mail Diana Mockler@Eurofinset.com		State of Origin:		Page 1 of 1	
Company: KPRG and Associates Inc.		PWSID:		Analysis Request  500-211999 COC		Job #: <i>500-211999</i> 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:	
Address: 14665 West Lisbon Road Suite 1A		Due Date Requested							
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 #: 4502081030		Field Filtered Sample (Yes/No)		Perform MS (MSD) (Yes/No)		Total Number of Containers	
Email: mitcheld@kprginc.com		WO #:		903.0, 904.0		6020A, 7470A		2540C, 4500, F., C, SM4500, CI, E, SM4500, SO4, E	
Project Name: Powerton CCR Event Desc Quarterly Powerton CCR Sampling		Project #: 50011612		SM4500, SO4, E - Sulfate					
Site: Illinois		SSOW#:							
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 Codes	
MW-01								D D N N	
7 MW-08		<i>2/10</i>		<i>11:19</i>		<i>G</i>		Water	
8 MW-09		↓		<i>15:42</i>		<i>G</i>		Water	
9 MW-11		↓		<i>13:33</i>		<i>G</i>		Water	
10 MW-12		↓		<i>14:27</i>		<i>G</i>		Water	
MW-15								Water	
MW-17								Water	
MW-18								Water	
MW-19								Water	
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		Special Instructions/QC Requirements	
Deliverable Requested I, II, III, IV Other (specify)		Empty Kit Relinquished by		Date		Time		Method of Shipment: <i>Client DROP OFF</i>	
Relinquished by: <i>M. R. Hess</i>		Date/Time: <i>2/11/20 10:45</i>		Company: <i>KPRG</i>		Received by: <i>Rubia Buckley</i>		Date/Time: <i>2/11/20 10:45</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		Cooler Temperature(s) °C and Other Remarks: <i>28</i>					

ORIGIN ID:PIAA (555) 555-5555
MITCH DOLAN
KPRG AND ASSOCIATES
414 PLAZA DR STE 106

WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 07FEB22
ACTWGT: 57.50 LB
CAD: 6994780/SSFE2220
DIMS: 23x13x13 IN

BILL THIRD PARTY

Part # 150297-435 RHDB2 EXP 1/1/22



500-211999 Wayb

TO TESTAMERICA CHICAGO
TESTAMERICA CHICAGO
2417 BOND ST

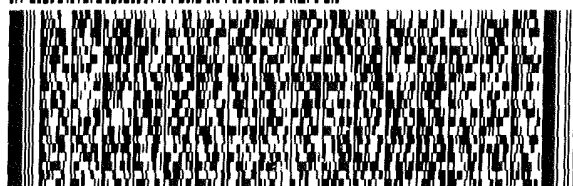
UNIVERSITY PARK IL 60484

(708) 534-6200

REF:

INV:
PO:

DEPT:



FedEx
Express



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REL#
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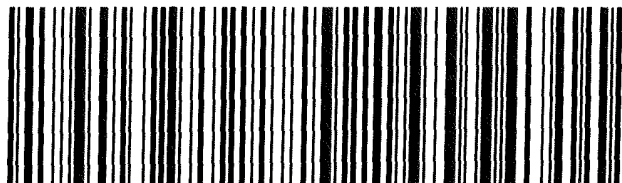
WED - 09 FEB 4:30P

** 2DAY **

TRK# 2895 7994 9275
0201

4Z QMCKQ

60484
IL-US ORD



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Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-211999-1

Login Number: 211999

List Number: 1

Creator: Hernandez, Stephanie

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.3,0.8,2.1,2.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <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: 500-211999-1

Client Sample ID: MW-17

Date Collected: 02/07/22 14:58

Date Received: 02/08/22 16:15

Lab Sample ID: 500-211999-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			643201	02/18/22 10:48		TAL CHI
Total Recoverable	Analysis	6020A		1	643537	02/19/22 00:52	FXG	TAL CHI
Total Recoverable	Prep	3005A			643201	02/18/22 10:48		TAL CHI
Total Recoverable	Analysis	6020A		5	643796	02/21/22 15:08	FXG	TAL CHI
Total/NA	Prep	7470A			643799	02/22/22 09:45	MJG	TAL CHI
Total/NA	Analysis	7470A		1	644140	02/23/22 12:29	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	641481	02/09/22 04:27	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	644868	02/28/22 13:51	PFK	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	642706	02/15/22 19:27	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	644883	02/28/22 14:33	PFK	TAL CHI

Client Sample ID: MW-19

Date Collected: 02/07/22 16:11

Date Received: 02/08/22 16:15

Lab Sample ID: 500-211999-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			643201	02/18/22 10:48		TAL CHI
Total Recoverable	Analysis	6020A		1	643537	02/19/22 00:56	FXG	TAL CHI
Total Recoverable	Prep	3005A			643201	02/18/22 10:48		TAL CHI
Total Recoverable	Analysis	6020A		10	643796	02/21/22 15:11	FXG	TAL CHI
Total/NA	Prep	7470A			643799	02/22/22 09:45	MJG	TAL CHI
Total/NA	Analysis	7470A		1	644140	02/23/22 12:31	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	641481	02/09/22 04:30	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		1	644868	02/28/22 13:51	PFK	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	642706	02/15/22 19:45	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		5	644883	02/28/22 14:34	PFK	TAL CHI

Client Sample ID: MW-18

Date Collected: 02/08/22 11:56

Date Received: 02/09/22 16:05

Lab Sample ID: 500-211999-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			643201	02/18/22 10:48		TAL CHI
Total Recoverable	Analysis	6020A		1	643537	02/19/22 00:59	FXG	TAL CHI
Total Recoverable	Prep	3005A			643201	02/18/22 10:48		TAL CHI
Total Recoverable	Analysis	6020A		1	643796	02/21/22 15:15	FXG	TAL CHI
Total/NA	Prep	7470A			643799	02/22/22 09:45	MJG	TAL CHI
Total/NA	Analysis	7470A		1	644140	02/23/22 12:34	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	641700	02/10/22 05:00	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	644868	02/28/22 13:52	PFK	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	642706	02/15/22 20:04	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	644883	02/28/22 14:55	PFK	TAL CHI

Lab Chronicle

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

Job ID: 500-211999-1

Client Sample ID: Duplicate
Date Collected: 02/08/22 00:00
Date Received: 02/09/22 16:05

Lab Sample ID: 500-211999-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			643201	02/18/22 10:48		TAL CHI
Total Recoverable	Analysis	6020A		1	643537	02/19/22 01:03	FXG	TAL CHI
Total Recoverable	Prep	3005A			643201	02/18/22 10:48		TAL CHI
Total Recoverable	Analysis	6020A		2	643796	02/21/22 15:18	FXG	TAL CHI
Total/NA	Prep	7470A			643799	02/22/22 09:45	MJG	TAL CHI
Total/NA	Analysis	7470A		1	644140	02/23/22 12:36	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	641700	02/10/22 05:03	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	644868	02/28/22 13:53	PFK	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	642706	02/15/22 20:09	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		5	644883	02/28/22 14:55	PFK	TAL CHI

Client Sample ID: MW-01
Date Collected: 02/09/22 15:02
Date Received: 02/10/22 13:55

Lab Sample ID: 500-211999-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			643201	02/18/22 10:48		TAL CHI
Total Recoverable	Analysis	6020A		1	643537	02/19/22 01:13	FXG	TAL CHI
Total Recoverable	Prep	3005A			643201	02/18/22 10:48		TAL CHI
Total Recoverable	Analysis	6020A		1	643796	02/21/22 15:21	FXG	TAL CHI
Total/NA	Prep	7470A			643799	02/22/22 09:45	MJG	TAL CHI
Total/NA	Analysis	7470A		1	644140	02/23/22 12:39	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	641914	02/11/22 05:00	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		2	644868	02/28/22 13:53	PFK	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	642706	02/15/22 20:13	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		1	644883	02/28/22 14:33	PFK	TAL CHI

Client Sample ID: MW-15
Date Collected: 02/09/22 10:56
Date Received: 02/10/22 13:55

Lab Sample ID: 500-211999-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			643201	02/18/22 10:48		TAL CHI
Total Recoverable	Analysis	6020A		1	643537	02/19/22 01:17	FXG	TAL CHI
Total Recoverable	Prep	3005A			643201	02/18/22 10:48		TAL CHI
Total Recoverable	Analysis	6020A		5	643796	02/21/22 15:25	FXG	TAL CHI
Total/NA	Prep	7470A			643799	02/22/22 09:45	MJG	TAL CHI
Total/NA	Analysis	7470A		1	644140	02/23/22 12:41	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	641914	02/11/22 05:03	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	644868	02/28/22 13:54	PFK	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	642706	02/15/22 20:16	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	644883	02/28/22 14:34	PFK	TAL CHI

Lab Chronicle

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

Job ID: 500-211999-1

Client Sample ID: MW-08
Date Collected: 02/10/22 11:19
Date Received: 02/11/22 10:45

Lab Sample ID: 500-211999-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			643201	02/18/22 10:48		TAL CHI
Total Recoverable	Analysis	6020A		1	643537	02/19/22 01:20	FXG	TAL CHI
Total Recoverable	Prep	3005A			643201	02/18/22 10:48		TAL CHI
Total Recoverable	Analysis	6020A		5	643796	02/21/22 15:28	FXG	TAL CHI
Total/NA	Prep	7470A			643799	02/22/22 09:45	MJG	TAL CHI
Total/NA	Analysis	7470A		1	644140	02/23/22 12:57	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	642215	02/14/22 03:44	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	644868	02/28/22 13:54	PFK	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	642706	02/15/22 20:22	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		2	644883	02/28/22 14:35	PFK	TAL CHI

Client Sample ID: MW-09
Date Collected: 02/10/22 15:42
Date Received: 02/11/22 10:45

Lab Sample ID: 500-211999-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			643201	02/18/22 10:48		TAL CHI
Total Recoverable	Analysis	6020A		1	643537	02/19/22 01:24	FXG	TAL CHI
Total Recoverable	Prep	3005A			643201	02/18/22 10:48		TAL CHI
Total Recoverable	Analysis	6020A		10	643796	02/21/22 15:32	FXG	TAL CHI
Total/NA	Prep	7470A			643799	02/22/22 09:45	MJG	TAL CHI
Total/NA	Analysis	7470A		1	644140	02/23/22 12:59	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	642215	02/14/22 03:51	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		1	644868	02/28/22 13:33	PFK	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	642706	02/15/22 20:25	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		5	644883	02/28/22 14:55	PFK	TAL CHI

Client Sample ID: MW-11
Date Collected: 02/10/22 13:33
Date Received: 02/11/22 10:45

Lab Sample ID: 500-211999-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			643201	02/18/22 10:48		TAL CHI
Total Recoverable	Analysis	6020A		1	643537	02/19/22 01:27	FXG	TAL CHI
Total Recoverable	Prep	3005A			643201	02/18/22 10:48		TAL CHI
Total Recoverable	Analysis	6020A		2	643796	02/21/22 15:35	FXG	TAL CHI
Total/NA	Prep	7470A			643799	02/22/22 09:45	MJG	TAL CHI
Total/NA	Analysis	7470A		1	644140	02/23/22 13:02	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	642215	02/14/22 03:57	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	644868	02/28/22 13:54	PFK	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	642706	02/15/22 20:31	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		5	644883	02/28/22 14:35	PFK	TAL CHI

Lab Chronicle

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

Job ID: 500-211999-1

Client Sample ID: MW-12

Lab Sample ID: 500-211999-10

Date Collected: 02/10/22 14:27

Matrix: Water

Date Received: 02/11/22 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			643201	02/18/22 10:48		TAL CHI
Total Recoverable	Analysis	6020A		1	643537	02/19/22 01:30	FXG	TAL CHI
Total Recoverable	Prep	3005A			643201	02/18/22 10:48		TAL CHI
Total Recoverable	Analysis	6020A		1	643796	02/21/22 15:50	FXG	TAL CHI
Total/NA	Prep	7470A			643799	02/22/22 09:45	MJG	TAL CHI
Total/NA	Analysis	7470A		1	644140	02/23/22 13:04	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	642215	02/14/22 03:59	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		5	644868	02/28/22 13:55	PFK	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	642706	02/15/22 20:34	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	644883	02/28/22 14:56	PFK	TAL CHI

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 500-211999-1

Laboratory: Eurofins Chicago

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

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

- 1
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ANALYTICAL REPORT

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

Laboratory Job ID: 500-211999-2
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:
3/16/2022 8:55:14 AM

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

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results through
TotalAccess

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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: 500-211999-2

Job ID: 500-211999-2

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-211999-2

Comments

No additional comments.

Receipt

The samples were received on 2/8/2022 4:15 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 0.3° C, 0.8° C, 2.1° C and 2.8° C.

RAD

Methods 903.0, 9315: Radium 226 batch 550803

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-17 (500-211999-1), MW-19 (500-211999-2), MW-18 (500-211999-3), Duplicate (500-211999-4), MW-01 (500-211999-5), MW-15 (500-211999-6), (LCS 160-550803/1-A), (MB 160-550803/20-A), (500-211998-E-1-A) and (500-211998-D-1-A DU)

Method 903.0: Radium 226 Bath 160-551623:

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

MW-08 (500-211999-7), MW-09 (500-211999-8), MW-11 (500-211999-9), MW-12 (500-211999-10), (LCS 160-551623/1-A), (MB 160-551623/21-A), (500-212021-K-15-A) and (500-212021-J-15-B DU)

Methods 904.0, 9320: Radium 228 batch 550806

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-17 (500-211999-1), MW-19 (500-211999-2), MW-18 (500-211999-3), Duplicate (500-211999-4), MW-01 (500-211999-5), MW-15 (500-211999-6), (LCS 160-550806/1-A), (MB 160-550806/20-A), (500-211998-E-1-B) and (500-211998-D-1-B DU)

Method 904.0: Radium 228 batch 551624

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

MW-08 (500-211999-7), MW-09 (500-211999-8), MW-11 (500-211999-9), MW-12 (500-211999-10), (LCS 160-551624/1-A), (MB 160-551624/21-A), (500-212021-K-15-B) and (500-212021-J-15-C DU)

Method PrecSep_0:

Method PrecSep_0:

Method PrecSep-21:

Method PrecSep-21:

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: 500-211999-2

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 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: 500-211999-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-211999-1	MW-17	Water	02/07/22 14:58	02/08/22 16:15
500-211999-2	MW-19	Water	02/07/22 16:11	02/08/22 16:15
500-211999-3	MW-18	Water	02/08/22 11:56	02/09/22 16:05
500-211999-4	Duplicate	Water	02/08/22 00:00	02/09/22 16:05
500-211999-5	MW-01	Water	02/09/22 15:02	02/10/22 13:55
500-211999-6	MW-15	Water	02/09/22 10:56	02/10/22 13:55
500-211999-7	MW-08	Water	02/10/22 11:19	02/11/22 10:45
500-211999-8	MW-09	Water	02/10/22 15:42	02/11/22 10:45
500-211999-9	MW-11	Water	02/10/22 13:33	02/11/22 10:45
500-211999-10	MW-12	Water	02/10/22 14:27	02/11/22 10:45

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Client Sample Results

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

Job ID: 500-211999-2

Client Sample ID: MW-17

Lab Sample ID: 500-211999-1

Date Collected: 02/07/22 14:58

Matrix: Water

Date Received: 02/08/22 16:15

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.00657	U	0.0810	0.0810	1.00	0.160	pCi/L	02/16/22 13:27	03/11/22 11:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.5		40 - 110					02/16/22 13:27	03/11/22 11:51	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	0.699		0.318	0.325	1.00	0.459	pCi/L	02/16/22 13:53	03/02/22 13:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.5		40 - 110					02/16/22 13:53	03/02/22 13:52	1
Y Carrier	85.6		40 - 110					02/16/22 13:53	03/02/22 13:52	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	0.693		0.328	0.335	5.00	0.459	pCi/L		03/14/22 18:04	1

Client Sample Results

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

Job ID: 500-211999-2

Client Sample ID: MW-19
Date Collected: 02/07/22 16:11
Date Received: 02/08/22 16:15

Lab Sample ID: 500-211999-2
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	0.111	U	0.0874	0.0880	1.00	0.126	pCi/L	02/16/22 13:27	03/11/22 11:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.3		40 - 110					02/16/22 13:27	03/11/22 11:52	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	0.770		0.283	0.292	1.00	0.381	pCi/L	02/16/22 13:53	03/02/22 13:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.3		40 - 110					02/16/22 13:53	03/02/22 13:52	1
Y Carrier	85.2		40 - 110					02/16/22 13:53	03/02/22 13:52	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	0.881		0.296	0.305	5.00	0.381	pCi/L		03/14/22 18:04	1

Client Sample Results

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

Job ID: 500-211999-2

Client Sample ID: MW-18
Date Collected: 02/08/22 11:56
Date Received: 02/09/22 16:05

Lab Sample ID: 500-211999-3
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	0.176	U	0.135	0.136	1.00	0.196	pCi/L	02/16/22 13:27	03/11/22 11:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	63.8		40 - 110					02/16/22 13:27	03/11/22 11:52	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	1.42		0.508	0.524	1.00	0.668	pCi/L	02/16/22 13:53	03/02/22 13:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	63.8		40 - 110					02/16/22 13:53	03/02/22 13:52	1
Y Carrier	86.7		40 - 110					02/16/22 13:53	03/02/22 13:52	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	1.60		0.526	0.541	5.00	0.668	pCi/L		03/14/22 18:04	1

Client Sample Results

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

Job ID: 500-211999-2

Client Sample ID: Duplicate
Date Collected: 02/08/22 00:00
Date Received: 02/09/22 16:05

Lab Sample ID: 500-211999-4
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	0.383		0.143	0.147	1.00	0.147	pCi/L	02/16/22 13:27	03/11/22 11:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.8		40 - 110					02/16/22 13:27	03/11/22 11:52	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	0.630	U	0.435	0.439	1.00	0.683	pCi/L	02/16/22 13:53	03/02/22 13:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.8		40 - 110					02/16/22 13:53	03/02/22 13:53	1
Y Carrier	85.6		40 - 110					02/16/22 13:53	03/02/22 13:53	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	1.01		0.458	0.463	5.00	0.683	pCi/L		03/14/22 18:04	1

Client Sample Results

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

Job ID: 500-211999-2

Client Sample ID: MW-01
Date Collected: 02/09/22 15:02
Date Received: 02/10/22 13:55

Lab Sample ID: 500-211999-5
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	0.0826	U	0.0807	0.0811	1.00	0.123	pCi/L	02/16/22 13:27	03/11/22 11:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	62.8		40 - 110					02/16/22 13:27	03/11/22 11:52	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	0.516	U	0.397	0.400	1.00	0.628	pCi/L	02/16/22 13:53	03/02/22 13:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	62.8		40 - 110					02/16/22 13:53	03/02/22 13:54	1
Y Carrier	85.6		40 - 110					02/16/22 13:53	03/02/22 13:54	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	0.598	U	0.405	0.408	5.00	0.628	pCi/L		03/14/22 18:04	1

Client Sample Results

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

Job ID: 500-211999-2

Client Sample ID: MW-15
Date Collected: 02/09/22 10:56
Date Received: 02/10/22 13:55

Lab Sample ID: 500-211999-6
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	0.0892	U	0.0736	0.0740	1.00	0.109	pCi/L	02/16/22 13:27	03/11/22 11:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.5		40 - 110					02/16/22 13:27	03/11/22 11:52	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	0.154	U	0.251	0.252	1.00	0.424	pCi/L	02/16/22 13:53	03/02/22 13:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.5		40 - 110					02/16/22 13:53	03/02/22 13:54	1
Y Carrier	85.2		40 - 110					02/16/22 13:53	03/02/22 13:54	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	0.243	U	0.262	0.263	5.00	0.424	pCi/L		03/14/22 18:04	1

Client Sample Results

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

Job ID: 500-211999-2

Client Sample ID: MW-08
Date Collected: 02/10/22 11:19
Date Received: 02/11/22 10:45

Lab Sample ID: 500-211999-7
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	0.141	U	0.122	0.123	1.00	0.188	pCi/L	02/21/22 12:59	03/15/22 11:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.3		40 - 110					02/21/22 12:59	03/15/22 11:27	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	0.794		0.421	0.428	1.00	0.634	pCi/L	02/21/22 13:23	03/04/22 12:32	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.3		40 - 110					02/21/22 13:23	03/04/22 12:32	1
Y Carrier	83.7		40 - 110					02/21/22 13:23	03/04/22 12:32	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	0.935		0.438	0.445	5.00	0.634	pCi/L		03/15/22 15:30	1

Client Sample Results

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

Job ID: 500-211999-2

Client Sample ID: MW-09

Lab Sample ID: 500-211999-8

Date Collected: 02/10/22 15:42

Matrix: Water

Date Received: 02/11/22 10:45

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0963	U	0.0751	0.0756	1.00	0.110	pCi/L	02/21/22 12:59	03/15/22 11:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.8		40 - 110					02/21/22 12:59	03/15/22 11:27	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	0.0808	U	0.226	0.227	1.00	0.393	pCi/L	02/21/22 13:23	03/04/22 12:32	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.8		40 - 110					02/21/22 13:23	03/04/22 12:32	1
Y Carrier	83.7		40 - 110					02/21/22 13:23	03/04/22 12:32	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	0.177	U	0.238	0.239	5.00	0.393	pCi/L		03/15/22 15:30	1

Client Sample Results

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

Job ID: 500-211999-2

Client Sample ID: MW-11
Date Collected: 02/10/22 13:33
Date Received: 02/11/22 10:45

Lab Sample ID: 500-211999-9
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	0.364		0.138	0.142	1.00	0.142	pCi/L	02/21/22 12:59	03/15/22 11:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.5		40 - 110					02/21/22 12:59	03/15/22 11:27	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	0.475	U	0.331	0.333	1.00	0.511	pCi/L	02/21/22 13:23	03/04/22 12:32	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.5		40 - 110					02/21/22 13:23	03/04/22 12:32	1
Y Carrier	83.4		40 - 110					02/21/22 13:23	03/04/22 12:32	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	0.839		0.359	0.362	5.00	0.511	pCi/L		03/15/22 15:30	1

Client Sample Results

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

Job ID: 500-211999-2

Client Sample ID: MW-12
Date Collected: 02/10/22 14:27
Date Received: 02/11/22 10:45

Lab Sample ID: 500-211999-10
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	0.218		0.0996	0.101	1.00	0.116	pCi/L	02/21/22 12:59	03/15/22 11:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.8		40 - 110					02/21/22 12:59	03/15/22 11:27	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	0.384	U	0.270	0.272	1.00	0.418	pCi/L	02/21/22 13:23	03/04/22 12:32	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.8		40 - 110					02/21/22 13:23	03/04/22 12:32	1
Y Carrier	83.0		40 - 110					02/21/22 13:23	03/04/22 12:32	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	0.602		0.288	0.290	5.00	0.418	pCi/L		03/15/22 15:30	1

Definitions/Glossary

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

Job ID: 500-211999-2

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: 500-211999-2

Rad

Prep Batch: 550803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-211999-1	MW-17	Total/NA	Water	PrecSep-21	
500-211999-2	MW-19	Total/NA	Water	PrecSep-21	
500-211999-3	MW-18	Total/NA	Water	PrecSep-21	
500-211999-4	Duplicate	Total/NA	Water	PrecSep-21	
500-211999-5	MW-01	Total/NA	Water	PrecSep-21	
500-211999-6	MW-15	Total/NA	Water	PrecSep-21	
MB 160-550803/20-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-550803/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 550806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-211999-1	MW-17	Total/NA	Water	PrecSep_0	
500-211999-2	MW-19	Total/NA	Water	PrecSep_0	
500-211999-3	MW-18	Total/NA	Water	PrecSep_0	
500-211999-4	Duplicate	Total/NA	Water	PrecSep_0	
500-211999-5	MW-01	Total/NA	Water	PrecSep_0	
500-211999-6	MW-15	Total/NA	Water	PrecSep_0	
MB 160-550806/20-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-550806/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Prep Batch: 551623

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-211999-7	MW-08	Total/NA	Water	PrecSep-21	
500-211999-8	MW-09	Total/NA	Water	PrecSep-21	
500-211999-9	MW-11	Total/NA	Water	PrecSep-21	
500-211999-10	MW-12	Total/NA	Water	PrecSep-21	
MB 160-551623/21-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-551623/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 551624

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-211999-7	MW-08	Total/NA	Water	PrecSep_0	
500-211999-8	MW-09	Total/NA	Water	PrecSep_0	
500-211999-9	MW-11	Total/NA	Water	PrecSep_0	
500-211999-10	MW-12	Total/NA	Water	PrecSep_0	
MB 160-551624/21-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-551624/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

QC Sample Results

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

Job ID: 500-211999-2

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-550803/20-A
Matrix: Water
Analysis Batch: 554763

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 550803

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.04292	U	0.0619	0.0620	1.00	0.105	pCi/L	02/16/22 13:27	03/11/22 13:37	1
Carrier	MB		Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	%Yield	Qualifier	40 - 110					02/16/22 13:27	03/11/22 13:37	1
	93.0									

Lab Sample ID: LCS 160-550803/1-A
Matrix: Water
Analysis Batch: 554763

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 550803

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits		
				Uncert. (2σ+/-)							
Radium-226	11.3	12.35		1.29	1.00	0.123	pCi/L	109	75 - 125		
Carrier	LCS	LCS									
Ba Carrier	%Yield	Qualifier	Limits								
	95.0		40 - 110								

Lab Sample ID: MB 160-551623/21-A
Matrix: Water
Analysis Batch: 555441

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 551623

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.01445	U	0.0655	0.0655	1.00	0.125	pCi/L	02/21/22 12:59	03/15/22 11:45	1
Carrier	MB		Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	%Yield	Qualifier	40 - 110					02/21/22 12:59	03/15/22 11:45	1
	82.0									

Lab Sample ID: LCS 160-551623/1-A
Matrix: Water
Analysis Batch: 555457

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 551623

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits		
				Uncert. (2σ+/-)							
Radium-226	11.3	11.20		1.16	1.00	0.137	pCi/L	99	75 - 125		
Carrier	LCS	LCS									
Ba Carrier	%Yield	Qualifier	Limits								
	92.0		40 - 110								

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-550806/20-A
Matrix: Water
Analysis Batch: 553105

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 550806

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	-0.002165	U	0.196	0.196	1.00	0.355	pCi/L	02/16/22 13:53	03/02/22 13:55	1

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QC Sample Results

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

Job ID: 500-211999-2

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

Carrier	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Yield	Qualifier				
Ba Carrier	93.0		40 - 110	02/16/22 13:53	03/02/22 13:55	1
Y Carrier	88.2		40 - 110	02/16/22 13:53	03/02/22 13:55	1

Lab Sample ID: LCS 160-550806/1-A
Matrix: Water
Analysis Batch: 552954

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 550806

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

Carrier	LCS LCS		Limits
	%Yield	Qualifier	
Ba Carrier	95.0		40 - 110
Y Carrier	87.9		40 - 110

Lab Sample ID: MB 160-551624/21-A
Matrix: Water
Analysis Batch: 553454

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 551624

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

Carrier	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Yield	Qualifier				
Ba Carrier	82.0		40 - 110	02/21/22 13:23	03/04/22 12:41	1
Y Carrier	84.5		40 - 110	02/21/22 13:23	03/04/22 12:41	1

Lab Sample ID: LCS 160-551624/1-A
Matrix: Water
Analysis Batch: 553455

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 551624

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

Carrier	LCS LCS		Limits
	%Yield	Qualifier	
Ba Carrier	92.0		40 - 110
Y Carrier	85.6		40 - 110

Eurofins Chicago

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

Chain of Custody Record

MKE 232



Environm...

Client Information		Sampler: <u>M. Kess</u>		Lab PM: Mockler Diana J		Carrier Tracking No(s)		COC No. 500-98564-43259 1		
Client Contact: Mitchel Dolan		Phone: <u>630.203.7240</u>		E-Mail: Diana.Mockler@Eurofinset.com		State of Origin		Page 1 of 1 <u>211999</u>		
Company: KPRG and Associates Inc		PWS#		Analysis Requested				Job #: <u>500-211999-#12/18/22</u>		
Address: 14865 West Lisbon Road Suite 1A		Due Date Requested		<p>500-211999 COC</p>				Preservation Codes		
City: Brookfield		TAT Requested (days)						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 MC K EDTA W pH 4-5 L EDA Z other (specify)		Other
State Zip: WI 53005		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		Total Number of Containers		
Phone: 262-781-0475(Tel)		PO #: 4502081030		903.0 904.0		6020A 7470A				
Email: mitched@kprginc.com		WO #		2040C 4500_F_C, SM4500_CL_E, SM4500_SO4_E		SM4500_SO4_E Sulfate				
Project Name: Powerton CCR Event Desc: Quarterly Powerton CCR Sampling		Project #: 50011612								
Site: Illinois		SSOW#								
Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp. G=grab)		Matrix (W=water S=solid G=water/oil)		
								BT-Tissue, A=Air		
								Preservation Code: <u>D D N N</u>		
MW-01								Water		
MW-08								Water		
MW-09								Water		
MW-11								Water		
MW-12								Water		
MW-15								Water		
1 MW-17		<u>2/7/22</u>		<u>14:58</u>		<u>G</u>		Water <u>XXXX</u>		
MW-18								Water		
2 MW-19		<u>2/7/22</u>		<u>16:11</u>		<u>G</u>		Water <u>XXXX</u>		
								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				
Reinquired by: <u>M. Kess</u>		Date/Time: <u>2/7/22 17:30</u>		Company: <u>KPRG</u>		Received by: <u>Stephanie Hernandez</u>		Date/Time: <u>2/10/22 11:15</u>		Company: <u>EETA</u>
Reinquired by:		Date/Time: <u>me</u>		Company:		Received by:		Date/Time:		Company:
Reinquired by:		Date/Time:		Company:		Received by:		Date/Time:		Company:
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No: <u>173227</u>		Cooler Temperature(s) °C and Other Remarks: <u>0.8 → 0.5</u>						

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

ABB/713

Chain of Custody Record

MKE 232

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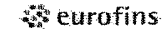
Client Information				Sampler	Lab PM	Carrier Tracking No(s)	COC No.				
Client Contact Mitche Doian				Phone	Mockler Diana J	500-98564-43259 1	500-98564-43259 1				
Company KPRG and Associates Inc				PWS D	E-Mail Diana Mockler@Eurofins.com	State of Origin	Page of 1				
Address 14665 West Lisbon Road Suite 1A				Analysis Requested				Job # 500-211999			
City Brookfield				Due Date Requested				 500-211999 COC			
State Zip WI 53005				TAT Requested (days)							
Phone 262-781-0475(Tel)				Compliance Project. <input type="checkbox"/> Yes <input type="checkbox"/> No							
Email mitcheid@kprgnc.com				PO # 4502081030							
Project Name Powerton CCR Event Desc Quarterly Powerton CCR Sampling				WO #				Preservation Codes A HCL M Hexane B NaOH N None C Zn Acetate O As/NaO2 D Nitric Acid P Na2O4S E NaHSO4 Q Na2SO3 F MeOH R Na2S2O3 G Amchlor S H2SO4 H Ascorbic Acid T SP Dodacahydrate I ce U Acetone J DI Water V MCAA K EDTA W pH 4-R L ED Z Other (specify)			
Site Illinois				Projec. # 50011612							
				SSOW#							
Sample Identification				Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue Air)	Field Filtered Sample (Yes or No)	Performs MS/MSD (Yes or No)	Total Number of Containers	Special Instructions/Note
MW 01							Water				
MW 08							Water				
MW-09							Water				
MW 11							Water				
MW 12							Water				
MW 15							Water				
MW 17							Water				
3 MW 18				2/8	11:56	G	Water			XXXX	
4 DUP				2/8		G	Water			XXXX	
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>M. Ross</i>				Date/Time 2/8/2012 17:45	Company KPRG	Received by <i>Stephanie Hummel</i>			Date/Time 2/9/22 1605	Company EETA	
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 1741064			Cooler Temperature/s °C and Other Remarks 1.3 +0.8				

Eurofins Chicago


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

Chain of Custody Record

MKE 232



Environment Testing
America

Client Information		Sampler <i>M. R. Ress</i>		Lab PM Mockler Diana J		Carrier Tracking No(s)		COC No: 500-98564-43259 1					
Client Contact: Mitchel Dolan		Phone <i>630.203.7240</i>		E-Mail Diana Mockler@Eurofinset.com		State of Origin:		Page 1 of 1					
Company: KPRG and Associates Inc.		PWSID:		Analysis Request  500-211999 COC		Total Number of Containers:		Job #: <i>500-211999</i>					
Address: 14665 West Lisbon Road Suite 1A		Due Date Requested						Field Filtered Sample (Yes/No) Perform MS (MSD) (Yes/No) 903.0, 904.0 6020A, 7470A 2540C, 4500, F., C, SM4500, Cl., E, SM4500, SO4, E SM4500, SO4, E - Sulfate		Preservation Codes			
City: Brookfield		TAT Requested (days)								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	
State Zip: WI, 53005		Compliance Project. <input type="checkbox"/> Yes <input type="checkbox"/> No								Special Instructions/Note.			
Phone: 262-781-0475(Tel)		PO #: 4502081030		Sample Identification		Sample Date		Sample Time					
Email: mitcheld@kprginc.com		WO #:		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, ET=Tested, A=Air)		Preservation Code					
Project Name: Powerton CCR Event Desc Quarterly Powerton CCR Sampling		Project #: 50011612		MW-01				Water					
Site: Illinois		SSOW#:		7 MW-08		<i>2/10</i>		<i>11:19</i>					
				8 MW-09				<i>15:42</i>					
				9 MW-11				<i>13:33</i>					
				10 MW-12				<i>14:27</i>					
				MW-15				Water					
				MW-17				Water					
				MW-18				Water					
				MW-19				Water					
								Water					
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: <i>Client DROD OFF</i>						
Relinquished by: <i>M. Ress</i>			Date/Time: <i>2/11/20 10:45</i>		Company: <i>KPRG</i>		Received by: <i>Julia Buckley</i>						
Relinquished by:			Date/Time:		Company:		Date/Time: <i>2/11/20 10:45</i>						
Relinquished by:			Date/Time:		Company:		Date/Time:						
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks: <i>28</i>									

ORIGIN ID:PIAA (555) 555-5555
MITCH DOLAN
KPRG AND ASSOCIATES
414 PLAZA DR STE 106

WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 07FEB22
ACTWGT: 57.50 LB
CAD: 6994780/SSFE2220
DIMS: 23x13x13 IN

BILL THIRD PARTY

Part # 150297-435 RHDB2 EXP 1/1/22



500-211999 Wayb

TO TESTAMERICA CHICAGO
TESTAMERICA CHICAGO
2417 BOND ST

UNIVERSITY PARK IL 60484

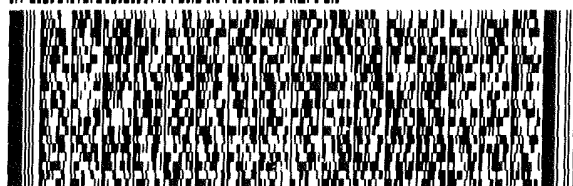
(708) 534-6200

REF:

INV:

PO:

DEPT:



FedEx
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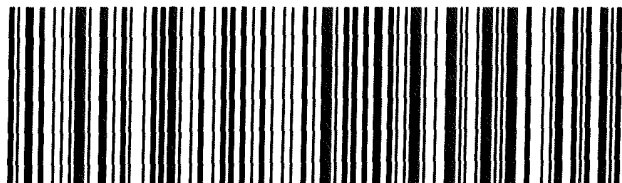
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** 2DAY **

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ORIGIN ID:PIAA (000) 000-0000

KPRG AND ASSOCIATES
414 PLAZA DR STE 106

WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 09FEB22
ACTWGT: 60.00 LB
CAD: 6994779/95FE2220
DIMS: 24x18x12 IN

BILL THIRD PARTY

Part # 156297-435 PRDB EXP 10/22

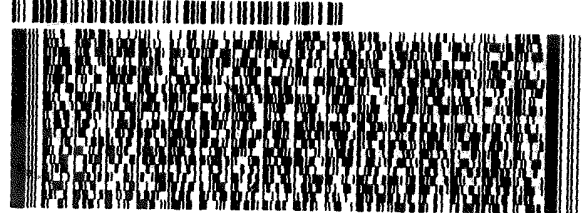


500-211999 Wayb

TO **SAMPLE RECEIVING**
EUROFINS
2417 BOND ST

UNIVERSITY PARK IL 60484

(000) 000-0000 REF: DEPT:
INU: PG:



FedEx
Express



1 of 3

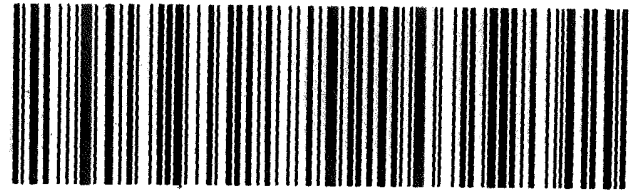
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**** 2DAY ****

TRK# 2896 6850 2775
0201

MASTER

4Z QMCKQ

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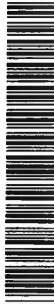
Chain of Custody Record



Client Information (Sub Contract Lab)		Lab PM: Mockler, Diana J		Carrier Tracking No(s): 500-157093.1		
Client Contact: TestAmerica Laboratories, Inc.		E-Mail: Diana.Mockler@Eurofinset.com		Page: Page 1 of 1		
Address: 13715 Rider Trail North, Earth City, MO, 63045		State of Origin: Illinois		Job #: 500-211999-2		
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		Accreditations Required (See note): NELAP - Illinois		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 - Na2SO3 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:		
Due Date Requested: 3/9/2022		Analysis Requested		Total Number of Containers		
TAT Requested (days):		Field Filtered Sample (Yes or No)		3		
PO #:		Perform MS/MSD (Yes or No)		3		
WO #:		903.0/PreSep_21 Standard Target List		Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMs		
Project #: 50011612		904.0/PreSep_0 Standard Target List		Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMs		
SSOW#:		Raz26Ra228_GPPC				
Site: MWG - Powerton						
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=soil, W=water, A=air)	Preservation Code	Special Instructions/Note:
MW-17 (500-211999-1)	2/7/22	14:58 Central		Water		
MW-19 (500-211999-2)	2/7/22	16:11 Central		Water		
<p>Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC places the ownership of method, analyte & accreditation compliance upon out 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/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing North Central, LLC.</p>						
Possible Hazard Identification						
Unconfirmed						
Deliverable Requested: I, II, III, IV, Other (specify)						
Primary Deliverable Rank: 2						
Empty Kit Relinquished by:						
Date: _____ Time: _____ Method of Shipment: _____						
Relinquished by: <i>Shirley A. Root</i> Date: 2/9/22 Time: 1600 Company: <i>ETEA</i>						
Relinquished by: _____ Date: _____ Time: _____ Company: _____						
Relinquished by: _____ Date: _____ Time: _____ Company: _____						
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No						
Custody Seal No.:						
Cooler Temperature(s) °C and Other Remarks:						



Chain of Custody Record



Client Information (Sub Contract Lab)		Lab PM: Mockler, Diana J	Carrier Tracking No(s):	COC No: 500-157126.1								
Client Contact: Diana.Mockler@Eurofins.com		E-Mail: Diana.Mockler@Eurofins.com	State of Origin: Illinois	Page: 1 of 1								
Shipping/Receiving: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois										
Address: 13715 Rider Trail North, Earth City, MO, 63045		Job #: 500-211999-2										
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - NaOH S - H2SO4 T - TSP Dodecahydrate U - Acetone V - HCAA W - pH 4-5 Z - other (specify)										
Project Name: Powerton CCR		Analysis Requested										
Site: MWG - Powerton		Total Number of Containers										
Due Date Requested: 2/28/2022		Field Filtered Sample (Yes or No)										
TAT Requested (days):		Perform MS/MSD (Yes or No)										
PO #:		903.0/PreSep_21 Standard Target List										
WO #:		94.0/PreSep_0 Standard Target List										
Project #: 50011612		R4226Ra28_GPPC										
SSOW#:		R4226Ra28_GPPC										
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Water, Spiked, On-water, A-A)	Preservation Code	903.0/PreSep_21 Standard Target List	94.0/PreSep_0 Standard Target List	R4226Ra28_GPPC	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Total Number of Containers	Special Instructions/Note:
MW-18 (500-211999-3)	2/8/22	11:56 Central	Water	Water		X	X		X	X	3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMs
Duplicate (500-211999-4)	2/8/22	15:02 Central	Water	Water		X	X		X	X	3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMs
MW-01 (500-211999-5)	2/9/22	10:56 Central	Water	Water		X	X		X	X	3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMs
MW-15 (500-211999-6)	2/9/22	10:56 Central	Water	Water		X	X		X	X	3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMs

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC places the ownership of method, analyte & accreditation compliance upon out 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/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing North Central, LLC.

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) _____ Primary Deliverable Rank: 2
 Empty Kit Relinquished by: _____ Date: _____
 Relinquished by: *Stephanie Hernandez* Date/Time: 2/10/22 10:30 Company: FEETA
 Relinquished by: _____ Date/Time: _____ Company: _____
 Relinquished by: _____ Date/Time: _____ Company: _____
 Custody Seals Intact: Yes No No
 Custody Seal No.: _____ Cooler Temperature(s) °C and Other Remarks: _____

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: _____ Method of Shipment: _____
 Received by: _____ Date/Time: _____ Company: _____
 Received by: *Steve Weatherston* Date/Time: 2-11-22 09:45 Company: EMSR
 Received by: _____ Date/Time: _____ Company: _____
 Ver: 06/08/2021



Chain of Custody Record



Client Information (Sub Contract Lab)		Lab PM: Mockler, Diana J		Carrier Tracking No(s): 500-157185.1							
Client Contact: Shipping/Receiving		E-Mail: Diana.Mockler@Eurofins.com		Page: Page 1 of 1							
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #: 500-211999-1							
Address: 13715 Rider Trail North,		Due Date Requested: 3/1/2022		Preservation Codes:							
City: Earth City		TAT Requested (days):		A - HCL M - Hexane							
State, Zip: MO, 63045		PO #:		B - NaOH N - None							
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		WO #:		C - Zn Acetate O - AsNaO2							
Email:		Project #: 50011612		D - Nitric Acid P - Na2O4S							
Project Name: Powerton CCR		SSOW#:		E - NaHSO4 Q - Na2SO3							
Site: MWG - Powerton				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 - EDTA Z - other (specify)							
				Other:							
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=water/oil, B=BI tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	90.0/PreSep_21 Standard Target List	90.0/PreSep_0 Standard Target List	Ra226Ra228_GFPc	Total Number of Containers	Special Instructions/Note:
MW-08 (500-211999-7)	2/10/22	11:19 Central	Water	Water	X	X	X	X	X	3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no
MW-09 (500-211999-8)	2/10/22	15:42 Central	Water	Water	X	X	X	X	X	3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no
MW-11 (500-211999-9)	2/10/22	13:33 Central	Water	Water	X	X	X	X	X	3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no
MW-12 (500-211999-10)	2/10/22	14:27 Central	Water	Water	X	X	X	X	X	3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC places the ownership of method, analyte & accreditation compliance upon out 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 Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing North Central, LLC.

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: _____ Date: _____ Time: _____ Method of Shipment: _____
 Relinquished by: *Ann Booth* Date/Time: 2/11/22 16:45 Company: *FEDEX*
 Relinquished by: _____ Date/Time: _____ Company: _____
 Relinquished by: _____ Date/Time: _____ Company: _____
 Custody Seals Intact: _____ Custody Seal No.: _____
 Δ Yes Δ No Cooler Temperature(s) °C and Other Remarks:



Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-211999-2

Login Number: 211999

List Source: Eurofins 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.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.3,0.8,2.1,2.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <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: 500-211999-2

Login Number: 211999

List Number: 2

Creator: Worthington, Sierra M

List Source: Eurofins St. Louis

List Creation: 02/11/22 09:30 AM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
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: 500-211999-2

Login Number: 211999

List Number: 3

Creator: Worthington, Sierra M

List Source: Eurofins St. Louis

List Creation: 02/12/22 08:58 AM

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

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-211999-2

Login Number: 211999

List Number: 4

Creator: Johnson, Autumn R

List Source: Eurofins St. Louis

List Creation: 02/14/22 10:33 AM

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	



Lab Chronicle

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

Job ID: 500-211999-2

Client Sample ID: MW-17

Date Collected: 02/07/22 14:58

Date Received: 02/08/22 16:15

Lab Sample ID: 500-211999-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			550803	02/16/22 13:27	HRT	TAL SL
Total/NA	Analysis	903.0		1	554763	03/11/22 11:51	FLC	TAL SL
Total/NA	Prep	PrecSep_0			550806	02/16/22 13:53	HRT	TAL SL
Total/NA	Analysis	904.0		1	552954	03/02/22 13:52	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	555276	03/14/22 18:04	EMH	TAL SL

Client Sample ID: MW-19

Date Collected: 02/07/22 16:11

Date Received: 02/08/22 16:15

Lab Sample ID: 500-211999-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			550803	02/16/22 13:27	HRT	TAL SL
Total/NA	Analysis	903.0		1	554763	03/11/22 11:52	FLC	TAL SL
Total/NA	Prep	PrecSep_0			550806	02/16/22 13:53	HRT	TAL SL
Total/NA	Analysis	904.0		1	552954	03/02/22 13:52	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	555276	03/14/22 18:04	EMH	TAL SL

Client Sample ID: MW-18

Date Collected: 02/08/22 11:56

Date Received: 02/09/22 16:05

Lab Sample ID: 500-211999-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			550803	02/16/22 13:27	HRT	TAL SL
Total/NA	Analysis	903.0		1	554763	03/11/22 11:52	FLC	TAL SL
Total/NA	Prep	PrecSep_0			550806	02/16/22 13:53	HRT	TAL SL
Total/NA	Analysis	904.0		1	552954	03/02/22 13:52	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	555276	03/14/22 18:04	EMH	TAL SL

Client Sample ID: Duplicate

Date Collected: 02/08/22 00:00

Date Received: 02/09/22 16:05

Lab Sample ID: 500-211999-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			550803	02/16/22 13:27	HRT	TAL SL
Total/NA	Analysis	903.0		1	554763	03/11/22 11:52	FLC	TAL SL
Total/NA	Prep	PrecSep_0			550806	02/16/22 13:53	HRT	TAL SL
Total/NA	Analysis	904.0		1	552954	03/02/22 13:53	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	555276	03/14/22 18:04	EMH	TAL SL

Lab Chronicle

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

Job ID: 500-211999-2

Client Sample ID: MW-01
Date Collected: 02/09/22 15:02
Date Received: 02/10/22 13:55

Lab Sample ID: 500-211999-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			550803	02/16/22 13:27	HRT	TAL SL
Total/NA	Analysis	903.0		1	554763	03/11/22 11:52	FLC	TAL SL
Total/NA	Prep	PrecSep_0			550806	02/16/22 13:53	HRT	TAL SL
Total/NA	Analysis	904.0		1	553105	03/02/22 13:54	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	555276	03/14/22 18:04	EMH	TAL SL

Client Sample ID: MW-15
Date Collected: 02/09/22 10:56
Date Received: 02/10/22 13:55

Lab Sample ID: 500-211999-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			550803	02/16/22 13:27	HRT	TAL SL
Total/NA	Analysis	903.0		1	554763	03/11/22 11:52	FLC	TAL SL
Total/NA	Prep	PrecSep_0			550806	02/16/22 13:53	HRT	TAL SL
Total/NA	Analysis	904.0		1	553105	03/02/22 13:54	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	555276	03/14/22 18:04	EMH	TAL SL

Client Sample ID: MW-08
Date Collected: 02/10/22 11:19
Date Received: 02/11/22 10:45

Lab Sample ID: 500-211999-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			551623	02/21/22 12:59	LPS	TAL SL
Total/NA	Analysis	903.0		1	555442	03/15/22 11:27	FLC	TAL SL
Total/NA	Prep	PrecSep_0			551624	02/21/22 13:23	LPS	TAL SL
Total/NA	Analysis	904.0		1	553455	03/04/22 12:32	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	555473	03/15/22 15:30	EMH	TAL SL

Client Sample ID: MW-09
Date Collected: 02/10/22 15:42
Date Received: 02/11/22 10:45

Lab Sample ID: 500-211999-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			551623	02/21/22 12:59	LPS	TAL SL
Total/NA	Analysis	903.0		1	555442	03/15/22 11:27	FLC	TAL SL
Total/NA	Prep	PrecSep_0			551624	02/21/22 13:23	LPS	TAL SL
Total/NA	Analysis	904.0		1	553455	03/04/22 12:32	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	555473	03/15/22 15:30	EMH	TAL SL

Lab Chronicle

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

Job ID: 500-211999-2

Client Sample ID: MW-11

Lab Sample ID: 500-211999-9

Date Collected: 02/10/22 13:33

Matrix: Water

Date Received: 02/11/22 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			551623	02/21/22 12:59	LPS	TAL SL
Total/NA	Analysis	903.0		1	555442	03/15/22 11:27	FLC	TAL SL
Total/NA	Prep	PrecSep_0			551624	02/21/22 13:23	LPS	TAL SL
Total/NA	Analysis	904.0		1	553455	03/04/22 12:32	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	555473	03/15/22 15:30	EMH	TAL SL

Client Sample ID: MW-12

Lab Sample ID: 500-211999-10

Date Collected: 02/10/22 14:27

Matrix: Water

Date Received: 02/11/22 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			551623	02/21/22 12:59	LPS	TAL SL
Total/NA	Analysis	903.0		1	555442	03/15/22 11:27	FLC	TAL SL
Total/NA	Prep	PrecSep_0			551624	02/21/22 13:23	LPS	TAL SL
Total/NA	Analysis	904.0		1	553455	03/04/22 12:32	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	555473	03/15/22 15:30	EMH	TAL SL

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 500-211999-2

Laboratory: Eurofins St. Louis

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

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

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

Tracer/Carrier Summary

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

Job ID: 500-211999-2

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)	
500-211999-1	MW-17	81.5	
500-211999-2	MW-19	91.3	
500-211999-3	MW-18	63.8	
500-211999-4	Duplicate	87.8	
500-211999-5	MW-01	62.8	
500-211999-6	MW-15	90.5	
500-211999-7	MW-08	87.3	
500-211999-8	MW-09	90.8	
500-211999-9	MW-11	88.5	
500-211999-10	MW-12	82.8	
LCS 160-550803/1-A	Lab Control Sample	95.0	
LCS 160-551623/1-A	Lab Control Sample	92.0	
MB 160-550803/20-A	Method Blank	93.0	
MB 160-551623/21-A	Method Blank	82.0	

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)
500-211999-1	MW-17	81.5	85.6
500-211999-2	MW-19	91.3	85.2
500-211999-3	MW-18	63.8	86.7
500-211999-4	Duplicate	87.8	85.6
500-211999-5	MW-01	62.8	85.6
500-211999-6	MW-15	90.5	85.2
500-211999-7	MW-08	87.3	83.7
500-211999-8	MW-09	90.8	83.7
500-211999-9	MW-11	88.5	83.4
500-211999-10	MW-12	82.8	83.0
LCS 160-550806/1-A	Lab Control Sample	95.0	87.9
LCS 160-551624/1-A	Lab Control Sample	92.0	85.6
MB 160-550806/20-A	Method Blank	93.0	88.2
MB 160-551624/21-A	Method Blank	82.0	84.5

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