

DATA SUMMARY POSTING

Station: Midwest Generation Waukegan Generating Station

Regulated Unit(s): East Pond (IEPA ID No. W0971900021-01)
West Pond (IEPA ID No. W0971900021-02)

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 4th quarter 2021 which includes the entire list of parameters specified under Section 845.600(a)(1) and (b). Table 1 is a summary table of all available CCR monitoring data to date including any data generated previously as part of the Federal CCR Rule monitoring. In addition, Table 2 provides a summary of turbidity data which was collected as part of State CCR Rule requirements which is a data parameter that was not required under the Federal CCR Rule.

No background statistics or proposed Groundwater Protection Standards are included on these tables. 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 dated October 29, 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, Waukegan Station, Waukegan, IL.

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-09 up-gradient	11/4/2015	13	210	450	0.14	6.60	370	1700	< 0.003	< 0.001	0.015	^< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.081	< 0.0002	0.260	0.1818	< 0.0025	< 0.002	
	3/2/2016	35	380	720	0.11	7.02	970	2800	< 0.003	0.06	0.05	< 0.001	< 0.0005	0.043	< 0.001	0.00061	0.094	< 0.0002	0.51	< 0.36	0.025	< 0.002	
	5/3/2016	16	310	620	0.12	7.02	740	2500	< 0.003	0.0014	0.025	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.083	< 0.0002	0.63	< 0.512	0.024	< 0.002	
	8/25/2016	4.5	130	270	0.21	7.13	190	1100	0.0041	0.042	0.024	< 0.001	0.0011	0.056	0.0027	0.0012	0.049	< 0.0002	0.063	0.482	0.039	< 0.002	
	12/8/2016	15	200	330	0.18	7.01	270	1300	< 0.003	0.004	0.016	< 0.001	0.00052	< 0.005	< 0.001	< 0.0005	0.077	< 0.0002	0.24	< 0.72	0.038	< 0.002	
	2/23/2017	14	190	290	0.12	7.68	320	1300	< 0.003	0.0027	0.014	< 0.001	< 0.0005	0.059	0.0018	< 0.0005	0.068	< 0.0002	0.26	< 0.461	0.016	< 0.002	
	5/16/2017	27	160	67	0.29	8.15	420	970	< 0.003	< 0.001	0.0094	^< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.045	< 0.0002	0.51	< 0.342	0.0085	< 0.002	
	7/6/2017	21	220	430	0.13	7.18	610	1800	< 0.003	0.002	0.018	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.089	< 0.0002	0.31	< 0.316	0.021	< 0.002	
	9/13/2017	21	250	420	0.14	7.17	520	1800	< 0.003	0.0067	0.019	< 0.001	0.0052	0.0017	< 0.0005	0.069	< 0.0002	0.33	0.0017	0.944	0.0041	< 0.002	
	11/29/2017	26	200	390	0.13	7.05	390	1600	< 0.003	0.0017	0.015	< ^ 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.086	< 0.0002	0.47	0.625	0.042	< 0.002	
	5/31/2018	32	200	29	0.1	6.85	490	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/6/2018	30	170	23	0.11	7.33	290	930	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/15/2019	26	120	260	0.13	7.53	31	1000	< 0.003	< 0.001	0.0073	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.035	< 0.0002	0.54	< 0.433	< 0.0025	< 0.002	
	11/19/2019	22	160	17	0.16	8.04	300	750	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4/22/2020	22	140	9.2	0.18	7.81	360	700	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/18/2020	28	250	290	0.18	7.43	420	1700	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
5/6/2021	31	170	35	0.12	7.51	420	910	< 0.003	< 0.001	0.0075	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.04	< 0.0002	0.47	< 0.614	0.023	< 0.002		
8/19/2021	7.2	150	170	0.13	7.01	210	350	< 0.003	0.0019	0.015	< 0.001	< 0.0005	< 0.005	< ^+ 0.001	0.015	0.0015	0.066	< 0.0002	0.12	< 0.457	0.071	< ^+ 0.002	
11/4/2021	10	150	160	0.24	7.07	180	980	< 0.003	0.0026	0.074	< ^+ 0.001	< 0.0005	< 0.005	0.0011	< 0.0005	0.06	< 0.0002	0.12	< 0.775	0.097	< 0.002		
MW-11 up-gradient	11/5/2015	5.2	140	240	0.13	6.51	190	1100	< 0.003	0.77	0.039	< 0.001	< 0.0005	< 0.005	< 0.001	0.039	0.001	0.055	< 0.0002	< 0.0050	0.656	< 0.0025	< 0.002
	3/2/2016	4.0	170	240	0.1	7.16	210	1200	< 0.003	0.55	0.048	< 0.001	< 0.0005	0.0058	< 0.001	0.0011	0.049	< 0.0002	< 0.0050	1.09	< 0.0025	< 0.002	
	5/5/2016	5.0	140	280	0.11	7.17	160	1000	< 0.003	0.51	0.038	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.057	< 0.0002	< 0.005	1.24	< 0.0025	< 0.002	
	8/26/2016	3.5	180	240	0.13	6.97	110	1100	< 0.003	1.1	0.05	< 0.001	< 0.0005	0.0055	< 0.001	0.0005	0.055	< 0.0002	< 0.005	1.04	< 0.0025	< 0.002	
	12/7/2016	3.0	170	270	0.12	7.06	110	1200	< 0.003	0.87	0.049	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.038	< 0.0002	< 0.005	1.87	< 0.0025	< 0.002	
	2/24/2017	2.4	180	220	4.9	6.61	170	1200	< 0.003	0.58	0.047	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.039	< 0.0002	< 0.005	0.982	< 0.0025	< 0.002	
	5/18/2017	1.8	160	170	0.12	7.42	120	1000	< 0.003	0.5	0.047	^< 0.001	< 0.0005	0.0056	< 0.001	< 0.0005	0.036	< 0.0002	< 0.005	1.31	< 0.0025	< 0.002	
	7/6/2017	2.4	160	190	0.14	7.33	130	1100	< 0.003	0.69	0.056	< 0.001	< 0.0005	0.0057	< 0.001	< 0.0005	0.041	< 0.0002	< 0.005	0.889	< 0.0025	< 0.002	
	9/13/2017	1.9	140	150	0.26	7.16	96	870	< 0.003	0.86	0.036	< 0.001	< 0.0005	0.008	< 0.001	< 0.00071	0.037	< 0.0002	0.0054	0.718	< 0.0025	< 0.002	
	11/30/2017	2.2	170	200	0.14	6.99	93	1100	< 0.003	0.59	0.05	< ^ 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.041	< 0.0002	< 0.005	1.21	< 0.0025	< 0.002	
	5/31/2018	1.5	210	160	0.1	6.74	130	1100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/6/2018	2.3	170	150	0.12	7.21	78	990	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/15/2019	3.2	120	260	0.13	7.14	31	1000	< 0.003	0.3	0.048	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.038	< 0.0002	< 0.005	1.5	< 0.0025	< 0.002	
	11/19/2019	4.1	130	200	0.15	7.51	29	860	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4/22/2020	3.2	110	150	0.15	7.16	47	740	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/19/2020	2.3	140	130	0.2	7.00	28	800	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
5/6/2021	2.4	130	120	0.15	7.13	45	770	< 0.003	0.44	0.044	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.038	< 0.0002	< 0.005	1.7	< 0.0025	< 0.002		
8/19/2021	1.3	140	88	0.16	6.95	45	730	< 0.003	1.1	0.055	< 0.001	< 0.0005	0.0057	< ^+ 0.001	< 0.0005	0.033	< 0.0002	< 0.005	1.89	< 0.0025	< ^+ 0.002		
11/4/2021	1.6	130	100	0.16	6.80	45	740	< 0.003	0.9	0.052	< ^+ 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.037	< 0.0002	0.006	1.35	< ^+ 0.0025	< 0.002		
MW-14 up-gradient	11/5/2015	1.4	150	190	0.19	6.78	140	1000	< 0.003	0.19	0.052	< ^ 0.001	< 0.0005	0.01	< 0.0005	0.025	< 0.0002	< 0.005	0.0012	< 0.0002	0.7087	< 0.0025	< 0.002
	3/2/2016	0.93	150	110	0.17	7.24	150	870	0.015	4.3	0.12	< 0.001	< 0.0005	1.1	0.0036	0.00068	0.019	< 0.0002	< 0.005	1.36	< 0.0025	< 0.002	
	5/5/2016	1.2	170	120	0.18	7.17	190	980	< 0.003	0.35	0.054	< 0.001	< 0.0005	0.017	0.0014	< 0.0005	0.021	< 0.0002	< 0.005	< 0.488	< 0.0025	< 0.002	
	8/26/2016	1.5	200	210	0.12	7.00	190	1300	< 0.003	1.0	0.058	< 0.001	< 0.0005	0.021	< 0.001	< 0.0005	0.026	< 0.0002	< 0.005	0.75	< 0.0025	< 0.002	
	12/7/2016	0.95	240	340	0.25	6.81	120	1100	0.0096	19	0.42	< 0.001	0.00089	4.6	0.0025	0.00084	0.022	< 0.0002	0.0094	< 0.866	0.014	< 0.002	
	2/23/2017	0.73	150	99	0.19	6.88	110	730	0.0061	9.3	0.36	< 0.001	0.001	4.6	0.0070	0.00095	0.017	< 0.0002	< 0.005	< 0.514	0.0031	< 0.002	
	5/18/2017	0.81	120	130	0.3	7.62	70	590	0.0035	3.3	0.44	^< 0.001	0.002	4.8	0.0041	0.00054	0.013	0.00043	< 0.005	0.779	< 0.0025	< 0.002	
	7/6/2017	1.2	190	180	0.13	7.29	190	1300	< 0.003	0.4	0.071	< 0.001	< 0.0005	0.026	0.0013	< 0.0005	0.034	< 0.0002	< 0.005	0.549	< 0.0025	< 0.002	
	9/13/2017	2.3	180	190	0.15	7.20	270	1200	< 0.003	0.52	0.065	< 0.001	< 0.0005	0.0078	< 0.001	< 0.0005	0.025	< 0.0002	< 0.005	< 0.359	< 0.0025	< 0.002	
	11/30/2017	0.85	170	130	0.19	7.33	99	940	0.0093	21	0.27	< ^ 0.001											

Table 1. Groundwater Analytical Results - Midwest Generation, LLC, Waukegan Station, Waukegan, IL.

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-02 down-gradient	11/2/2015	3.0	32	47	0.78	8.27	230	460	< 0.003	0.014	0.016	^< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.0630	0.4628	< 0.0025	< 0.002	
	3/1/2016	4.1	39	47	1.3	8.57	220	510	< 0.003	0.011	0.02	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.078	0.529	< 0.0025	< 0.002	
	5/4/2016	3.3	34	51	1.5	8.19	180	440	< 0.003	0.0081	0.018	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.069	< 0.425	< 0.0025	< 0.002	
	8/23/2016	3.1	42	59	1.3	7.52	250	500	< 0.003	0.0082	0.016	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.010	< 0.0002	0.056	< 0.439	< 0.0025	< 0.002	
	12/5/2016	3.1	28	56	1.0	8.62	160	430	< 0.003	0.018	0.015	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.071	0.509	< 0.0025	< 0.002	
	2/21/2017	3.3	31	52	0.76	8.75	190	420	< 0.003	0.028	0.012	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.051	< 0.416	0.0038	< 0.002	
	5/15/2017	3.6	85	48	0.64	8.33	320	640	< 0.003	0.02	0.029	^< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.047	0.425	0.023	< 0.002	
	7/5/2017	4.2	100	52	0.42	7.92	300	710	< 0.003	0.0094	0.031	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.047	< 0.295	0.017	< 0.002	
	9/14/2017	2.5	87	54	0.44	8.19	340	780	< 0.003	0.012	0.035	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.049	0.769	0.052	< 0.002	
	11/27/2017	3.4	69	57	0.62	7.34	200	570	< 0.003	0.011	0.022	<^ 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.048	< 0.442	< 0.0025	< 0.002	
	5/29/2018	4.5	160	43	0.40	6.85	420	990	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/5/2018	3.1	77	59	0.61	8.06	180	610	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/14/2019	2.9	47	49	1.0	8.30	140	430	< 0.003	0.0094	0.013	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.069	0.37	< 0.0025	< 0.002	
	11/19/2019	4.7	140	43	0.7	7.37	270	900	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4/21/2020	3.4	86	48	1.0	8.02	250	580	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/17/2020	4.0	79	20	0.8	7.67	310	610	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/5/2021	4.6	70	37	0.7	8.39	190	420	< 0.003	0.008	0.03	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.023	0.97	< 0.0025	< 0.002	
	8/18/2021	4.1	84	39	0.5	7.92	190	480	< 0.003	0.0088	0.029	< 0.001	< 0.0005	< 0.005	<^+ 0.001	< 0.0005	< 0.01	< 0.0002	0.021	< 0.525	< 0.0025	<^+ 0.002	
	11/3/2021	4.2	59	43	0.63	7.78	170	410	< 0.003	0.009	0.025	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	<^+ 0.01	< 0.0002	0.03	0.763	< 0.0025	< 0.002	
	MW-03 down-gradient	11/2/2015	2.3	72	87	0.51	9.26	270	570	< 0.003	0.0068	0.011	^< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.0370	0.071	< 0.0025	< 0.002
3/1/2016		2.9	61	70	0.33	7.33	220	530	< 0.003	0.0069	0.015	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.0560	< 0.332	0.0043	< 0.002	
5/4/2016		2.4	42	74	0.56	7.25	170	470	< 0.003	0.007	0.011	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.058	< 0.48	< 0.0025	< 0.002	
8/24/2016		2.0	70	59	0.3	9.13	200	430	< 0.003	0.010	0.0069	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.042	< 0.428	< 0.0025	< 0.002	
12/5/2016		2.4	57	60	0.41	7.62	120	440	< 0.003	0.0065	0.0094	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.010	< 0.0002	0.044	< 0.526	< 0.0025	< 0.002	
2/21/2017		2.2	56	65	0.33	7.56	180	460	< 0.003	0.011	0.0067	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.010	< 0.0002	0.043	0.437	< 0.0025	< 0.002	
5/16/2017		3.9	110	61	0.27	7.90	320	820	< 0.003	0.0087	0.039	^< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.010	< 0.0002	0.041	< 0.461	< 0.0025	< 0.002	
7/5/2017		3.0	60	60	0.28	7.46	200	470	< 0.003	0.0029	0.017	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.010	< 0.0002	0.058	< 0.304	0.0045	< 0.002	
9/14/2017		2.1	86	57	0.26	7.53	260	680	< 0.003	0.0024	0.026	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.010	< 0.0002	0.056	0.081	< 0.0025	< 0.002	
11/28/2017		2.6	69	63	0.56	6.96	120	500	< 0.003	0.0025	0.016	<^ 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.010	< 0.0002	0.057	1.17	< 0.0025	< 0.002	
5/29/2018		2.4	67	61	0.38	6.84	190	480	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
11/5/2018		2.4	54	54	0.5	8.99	150	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
5/14/2019		4.2	86	17	0.59	7.21	270	660	< 0.003	0.0059	0.022	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.010	< 0.0002	0.053	0.657	0.0061	< 0.002	
11/19/2019		4.2	130	15	0.25	7.47	300	740	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4/21/2020		3.8	120	23	0.29	6.87	270	660	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
11/17/2020		3.8	120	53	0.29	7.05	240	650	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
5/5/2021		3.3	110	43	0.23	7.18	210	550	< 0.003	0.0066	0.035	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.010	< 0.0002	0.016	0.689	0.0065	< 0.002	
8/18/2021		3	150	46	0.17	6.9	250	690	< 0.003	0.0052	0.041	< 0.001	< 0.0005	< 0.005	<^+ 0.001	< 0.0005	< 0.010	< 0.00031	0.045	0.656	< 0.0025	<^+ 0.002	
11/3/2021		3.2	120	40	0.18	7.05	250	600	< 0.003	0.0071	0.036	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	<^+ 0.010	< 0.0002	0.025	< 0.438	0.0093	< 0.002	
MW-04 down-gradient		11/3/2015	1.8	66	62	0.51	6.68	240	480	< 0.003	0.0066	0.032	^< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.031	< 0.2732	< 0.0025	< 0.002
	3/1/2016	2.0	58	51	0.5	7.17	170	450	< 0.003	0.0083	0.033	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.048	0.478	< 0.0025	< 0.002	
	5/4/2016	1.6	44	49	0.61	6.92	140	340	< 0.003	0.0083	0.017	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.046	< 0.542	< 0.0025	< 0.002	
	8/24/2016	2.0	46	58	0.56	7.01	120	370	< 0.003	0.0099	0.019	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.049	< 0.461	< 0.0025	< 0.002	
	12/5/2016	3.4	200	60	0.21	7.40	300	1000	< 0.003	0.019	0.13	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.010	< 0.0002	0.0097	1.04	0.02	< 0.002	
	2/22/2017	2.4	150	41	0.17	7.44	290	850	< 0.003	0.036	0.093	< 0.001	< 0.0005	< 0.005	< 0.0010	< 0.0005	< 0.01	< 0.0002	0.015	0.886	0.0042	< 0.002	
	5/16/2017	2.5	170	29	0.32	7.94	400	970	< 0.003	0.024	0.072	^< 0.001	< 0.0005	< 0.005	< 0.0010	< 0.0005	< 0.01	< 0.0002	0.017	0.55	0.032	< 0.002	
	7/5/2017	3.6	200	51	0.29	7.09	520	1100	< 0.003	0.0034	0.076	< 0.001	< 0.0005	< 0.005	< 0.0010	< 0.0005	< 0.01	< 0.0002	0.017	0.515	0.062	< 0.002	
	9/14/2017	2.5	180	45	0.28	7.04	480	1100	< 0.003	0.0028	0.076	< 0.001	< 0.0005	< 0.005	< 0.0010	< 0.0005	< 0.01	< 0.0002	0.021	0.794	0.026	< 0.002	

Table 2. Groundwater Turbidity - Midwest Generation, LLC, Waukegan Station, Waukegan, IL.

Well	Date	Turbidity (NTU)
MW-09	3/3/2021	4.70
	3/30/2021	10.15
	5/6/2021	3.44
	5/27/2021	12.41
	6/18/2021	27.7
	7/8/2021	28.77
	8/19/2021	77.36
	9/29/2021	18.41
	11/4/2021	12.66
MW-11	3/2/2021	2.20
	3/30/2021	6.08
	5/6/2021	2.34
	5/27/2021	2.69
	6/18/2021	13.7
	7/8/2021	4.71
	8/19/2021	139.34
	9/29/2021	402.9
	11/4/2021	152.7
MW-14	3/2/2021	2035
	3/30/2021	151.5
	5/6/2021	901.4
	5/27/2021	2385.61
	6/18/2021	69.25
	7/8/2021	73.18
	8/19/2021	77.04
	9/29/2021	8.42
	11/4/2021	7.42
MW-01	3/1/2021	0.59
	3/30/2021	5.72
	5/5/2021	1.42
	5/27/2021	2.02
	6/18/2021	2.33
	7/8/2021	3.6
	8/18/2021	2.33
	9/29/2021	3.03
	11/3/2021	3.05
MW-02	3/1/2021	0.69
	3/30/2021	5.66
	5/5/2021	1.65
	5/27/2021	2.95
	6/18/2021	2.71
	7/8/2021	4.2
	8/18/2021	9.03
	9/29/2021	3.42
	11/3/2021	4.05
MW-03	3/1/2021	0.75
	3/30/2021	5.73
	5/5/2021	1.71
	5/27/2021	2.02
	6/18/2021	2.56
	7/8/2021	3.74
	8/18/2021	2.6
	9/29/2021	2.82
	11/3/2021	3.26
MW-04	3/1/2021	1.30
	3/30/2021	6.21
	5/5/2021	1.77
	5/27/2021	2.73
	6/18/2021	3.69
	7/8/2021	5.36
	8/18/2021	40.61
	9/29/2021	3.48
	11/3/2021	4.26
MW-16	3/1/2021	0.77
	3/30/2021	6.07
	5/6/2021	1.63
	5/27/2021	2.00
	6/18/2021	2.59
	7/8/2021	3.58
	8/18/2021	3.22
	9/29/2021	6.05
	11/4/2021	4.0

ANALYTICAL REPORT

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

Laboratory Job ID: 500-207904-1
Client Project/Site: Waukegan CCR

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

Attn: Richard Gnat



Authorized for release by:
11/24/2021 3:58:10 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: Waukegan CCR

Job ID: 500-207904-1

Job ID: 500-207904-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative 500-207904-1

Comments

No additional comments.

Receipt

The samples were received on 11/4/2021 10:10 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 5 coolers at receipt time were -0.9° C, 0.1° C, 0.8° C, 0.8° C and 1.2° C.

Metals

Method 6010C: The continuing calibration verification (CCV) associated with batch 500-630849 recovered above the upper control limit for Lithium. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: MW-01 (500-207904-1), MW-02 (500-207904-2), MW-03 (500-207904-3) and MW-04 (500-207904-4).

Method 6020A: The Initial low level continuing calibration verification (ICVL) associated with batch 500-629571 recovered above the upper control limit for Beryllium. The samples associated with this ICVL were non-detects for the affected analyte; therefore, the data have been reported.

Method 6020A: The low level continuing calibration verification (CCVL) at line 116, associated with batch 500-629571 recovered above the upper control limit for Selenium. The samples associated with this CCVL were non-detects for the affected analyte; therefore, the data have been reported.

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

General Chemistry

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



Method Summary

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

Job ID: 500-207904-1

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

Protocol References:

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

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

Laboratory References:

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

Sample Summary

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

Job ID: 500-207904-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-207904-1	MW-01	Water	11/03/21 12:23	11/04/21 10:10
500-207904-2	MW-02	Water	11/03/21 13:22	11/04/21 10:10
500-207904-3	MW-03	Water	11/03/21 14:24	11/04/21 10:10
500-207904-4	MW-04	Water	11/03/21 15:24	11/04/21 10:10
500-207904-5	MW-09	Water	11/04/21 13:24	11/05/21 09:55
500-207904-6	MW-11	Water	11/04/21 11:09	11/05/21 09:55
500-207904-7	MW-14	Water	11/04/21 12:20	11/05/21 09:55
500-207904-8	MW-16	Water	11/04/21 14:28	11/05/21 09:55
500-207904-9	Duplicate	Water	11/04/21 00:00	11/05/21 09:55

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

Client Sample Results

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

Job ID: 500-207904-1

Client Sample ID: MW-01

Lab Sample ID: 500-207904-1

Date Collected: 11/03/21 12:23

Matrix: Water

Date Received: 11/04/21 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010	^+	0.010		mg/L		11/23/21 10:23	11/24/21 12:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		11/23/21 10:23	11/23/21 22:19	1
Arsenic	0.024		0.0010		mg/L		11/23/21 10:23	11/23/21 22:19	1
Barium	0.040		0.0025		mg/L		11/23/21 10:23	11/23/21 22:19	1
Beryllium	<0.0010		0.0010		mg/L		11/23/21 10:23	11/23/21 22:19	1
Boron	2.9		0.25		mg/L		11/23/21 10:23	11/24/21 11:46	5
Cadmium	<0.00050		0.00050		mg/L		11/23/21 10:23	11/23/21 22:19	1
Calcium	67		0.20		mg/L		11/23/21 10:23	11/23/21 22:19	1
Chromium	<0.0050		0.0050		mg/L		11/23/21 10:23	11/23/21 22:19	1
Cobalt	<0.0010		0.0010		mg/L		11/23/21 10:23	11/23/21 22:19	1
Lead	<0.00050		0.00050		mg/L		11/23/21 10:23	11/23/21 22:19	1
Molybdenum	0.026		0.0050		mg/L		11/23/21 10:23	11/23/21 22:19	1
Selenium	<0.0025		0.0025		mg/L		11/23/21 10:23	11/24/21 14:27	1
Thallium	<0.0020		0.0020		mg/L		11/23/21 10:23	11/23/21 22:19	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		11/16/21 10:15	11/17/21 07:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	440		10		mg/L			11/05/21 07:01	1
Chloride	60		6.0		mg/L			11/10/21 18:06	3
Fluoride	0.22		0.10		mg/L			11/16/21 19:26	1
Sulfate	180		50		mg/L			11/10/21 19:21	10

Client Sample ID: MW-02

Lab Sample ID: 500-207904-2

Date Collected: 11/03/21 13:22

Matrix: Water

Date Received: 11/04/21 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010	^+	0.010		mg/L		11/23/21 10:23	11/24/21 12:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		11/23/21 10:23	11/23/21 22:23	1
Arsenic	0.0090		0.0010		mg/L		11/23/21 10:23	11/23/21 22:23	1
Barium	0.025		0.0025		mg/L		11/23/21 10:23	11/23/21 22:23	1
Beryllium	<0.0010		0.0010		mg/L		11/23/21 10:23	11/23/21 22:23	1
Boron	4.2		0.50		mg/L		11/23/21 10:23	11/24/21 11:49	10
Cadmium	<0.00050		0.00050		mg/L		11/23/21 10:23	11/23/21 22:23	1
Calcium	59		0.20		mg/L		11/23/21 10:23	11/23/21 22:23	1
Chromium	<0.0050		0.0050		mg/L		11/23/21 10:23	11/23/21 22:23	1
Cobalt	<0.0010		0.0010		mg/L		11/23/21 10:23	11/23/21 22:23	1
Lead	<0.00050		0.00050		mg/L		11/23/21 10:23	11/23/21 22:23	1
Molybdenum	0.030		0.0050		mg/L		11/23/21 10:23	11/23/21 22:23	1
Selenium	<0.0025		0.0025		mg/L		11/23/21 10:23	11/24/21 14:31	1

Eurofins TestAmerica, Chicago

Client Sample Results

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

Job ID: 500-207904-1

Client Sample ID: MW-02

Lab Sample ID: 500-207904-2

Date Collected: 11/03/21 13:22

Matrix: Water

Date Received: 11/04/21 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020		mg/L		11/23/21 10:23	11/23/21 22:23	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		11/16/21 10:15	11/17/21 07:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	410		10		mg/L			11/05/21 07:04	1
Chloride	43		2.0		mg/L			11/10/21 18:06	1
Fluoride	0.63		0.10		mg/L			11/16/21 19:29	1
Sulfate	170		50		mg/L			11/10/21 19:22	10

Client Sample ID: MW-03

Lab Sample ID: 500-207904-3

Date Collected: 11/03/21 14:24

Matrix: Water

Date Received: 11/04/21 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010	^+	0.010		mg/L		11/23/21 10:23	11/24/21 13:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		11/23/21 10:23	11/23/21 22:27	1
Arsenic	0.0071		0.0010		mg/L		11/23/21 10:23	11/23/21 22:27	1
Barium	0.036		0.0025		mg/L		11/23/21 10:23	11/23/21 22:27	1
Beryllium	<0.0010		0.0010		mg/L		11/23/21 10:23	11/23/21 22:27	1
Boron	3.2		0.50		mg/L		11/23/21 10:23	11/24/21 11:53	10
Cadmium	<0.00050		0.00050		mg/L		11/23/21 10:23	11/23/21 22:27	1
Calcium	120		0.20		mg/L		11/23/21 10:23	11/23/21 22:27	1
Chromium	<0.0050		0.0050		mg/L		11/23/21 10:23	11/23/21 22:27	1
Cobalt	<0.0010		0.0010		mg/L		11/23/21 10:23	11/23/21 22:27	1
Lead	<0.00050		0.00050		mg/L		11/23/21 10:23	11/23/21 22:27	1
Molybdenum	0.025		0.0050		mg/L		11/23/21 10:23	11/23/21 22:27	1
Selenium	0.0093		0.0025		mg/L		11/23/21 10:23	11/24/21 14:34	1
Thallium	<0.0020		0.0020		mg/L		11/23/21 10:23	11/23/21 22:27	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		11/16/21 10:15	11/17/21 07:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	600		10		mg/L			11/05/21 07:06	1
Chloride	40		6.0		mg/L			11/10/21 18:06	3
Fluoride	0.18		0.10		mg/L			11/16/21 19:32	1
Sulfate	250		50		mg/L			11/10/21 19:23	10

Client Sample Results

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

Job ID: 500-207904-1

Client Sample ID: MW-04
Date Collected: 11/03/21 15:24
Date Received: 11/04/21 10:10

Lab Sample ID: 500-207904-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010	^+	0.010		mg/L		11/23/21 10:23	11/24/21 13:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		11/23/21 10:23	11/23/21 22:30	1
Arsenic	0.0094		0.0010		mg/L		11/23/21 10:23	11/23/21 22:30	1
Barium	0.037		0.0025		mg/L		11/23/21 10:23	11/23/21 22:30	1
Beryllium	<0.0010		0.0010		mg/L		11/23/21 10:23	11/23/21 22:30	1
Boron	2.7		0.25		mg/L		11/23/21 10:23	11/24/21 11:57	5
Cadmium	<0.00050		0.00050		mg/L		11/23/21 10:23	11/23/21 22:30	1
Calcium	67		0.20		mg/L		11/23/21 10:23	11/23/21 22:30	1
Chromium	<0.0050		0.0050		mg/L		11/23/21 10:23	11/23/21 22:30	1
Cobalt	<0.0010		0.0010		mg/L		11/23/21 10:23	11/23/21 22:30	1
Lead	<0.00050		0.00050		mg/L		11/23/21 10:23	11/23/21 22:30	1
Molybdenum	0.040		0.0050		mg/L		11/23/21 10:23	11/23/21 22:30	1
Selenium	<0.0025		0.0025		mg/L		11/23/21 10:23	11/24/21 14:38	1
Thallium	<0.0020		0.0020		mg/L		11/23/21 10:23	11/23/21 22:30	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		11/16/21 10:15	11/17/21 08:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	550		10		mg/L			11/05/21 07:09	1
Chloride	50		6.0		mg/L			11/10/21 18:19	3
Fluoride	0.99		0.10		mg/L			11/16/21 19:34	1
Sulfate	150		50		mg/L			11/10/21 19:23	10

Client Sample ID: MW-09
Date Collected: 11/04/21 13:24
Date Received: 11/05/21 09:55

Lab Sample ID: 500-207904-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.060		0.010		mg/L		11/17/21 10:04	11/18/21 15:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		11/17/21 10:04	11/18/21 00:43	1
Arsenic	0.0026		0.0010		mg/L		11/17/21 10:04	11/18/21 00:43	1
Barium	0.074		0.0025		mg/L		11/17/21 10:04	11/18/21 00:43	1
Beryllium	<0.0010	^1+	0.0010		mg/L		11/17/21 10:04	11/18/21 00:43	1
Boron	10		0.50		mg/L		11/17/21 10:04	11/18/21 11:14	10
Cadmium	<0.00050		0.00050		mg/L		11/17/21 10:04	11/18/21 00:43	1
Calcium	150		0.20		mg/L		11/17/21 10:04	11/18/21 00:43	1
Chromium	<0.0050		0.0050		mg/L		11/17/21 10:04	11/18/21 00:43	1
Cobalt	0.0011		0.0010		mg/L		11/17/21 10:04	11/18/21 00:43	1
Lead	<0.00050		0.00050		mg/L		11/17/21 10:04	11/18/21 00:43	1
Molybdenum	0.12		0.0050		mg/L		11/17/21 10:04	11/18/21 00:43	1
Selenium	0.097		0.025		mg/L		11/17/21 10:04	11/18/21 11:14	10

Eurofins TestAmerica, Chicago

Client Sample Results

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

Job ID: 500-207904-1

Client Sample ID: MW-09

Lab Sample ID: 500-207904-5

Date Collected: 11/04/21 13:24

Matrix: Water

Date Received: 11/05/21 09:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020		mg/L		11/17/21 10:04	11/18/21 00:43	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		11/09/21 09:45	11/10/21 10:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	980		10		mg/L			11/08/21 04:15	1
Chloride	160		10		mg/L			11/10/21 18:07	5
Fluoride	0.24		0.10		mg/L			11/16/21 19:38	1
Sulfate	180		50		mg/L			11/10/21 19:23	10

Client Sample ID: MW-11

Lab Sample ID: 500-207904-6

Date Collected: 11/04/21 11:09

Matrix: Water

Date Received: 11/05/21 09:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.037		0.010		mg/L		11/17/21 10:04	11/18/21 15:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		11/17/21 10:04	11/18/21 00:46	1
Arsenic	0.90		0.0010		mg/L		11/17/21 10:04	11/18/21 00:46	1
Barium	0.052		0.0025		mg/L		11/17/21 10:04	11/18/21 00:46	1
Beryllium	<0.0010	^1+	0.0010		mg/L		11/17/21 10:04	11/18/21 00:46	1
Boron	1.6		0.25		mg/L		11/17/21 10:04	11/18/21 11:18	5
Cadmium	<0.00050		0.00050		mg/L		11/17/21 10:04	11/18/21 00:46	1
Calcium	130		0.20		mg/L		11/17/21 10:04	11/18/21 00:46	1
Chromium	<0.0050		0.0050		mg/L		11/17/21 10:04	11/18/21 00:46	1
Cobalt	<0.0010		0.0010		mg/L		11/17/21 10:04	11/18/21 00:46	1
Lead	<0.00050		0.00050		mg/L		11/17/21 10:04	11/18/21 00:46	1
Molybdenum	0.0058		0.0050		mg/L		11/17/21 10:04	11/18/21 00:46	1
Selenium	<0.0025	^6+ ^+	0.0025		mg/L		11/17/21 10:04	11/18/21 00:46	1
Thallium	<0.0020		0.0020		mg/L		11/17/21 10:04	11/18/21 00:46	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		11/09/21 09:45	11/10/21 10:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	740		10		mg/L			11/08/21 04:18	1
Chloride	100		10		mg/L			11/10/21 18:19	5
Fluoride	0.16		0.10		mg/L			11/16/21 19:41	1
Sulfate	45		5.0		mg/L			11/10/21 19:23	1

Client Sample Results

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

Job ID: 500-207904-1

Client Sample ID: MW-14
Date Collected: 11/04/21 12:20
Date Received: 11/05/21 09:55

Lab Sample ID: 500-207904-7
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.014		0.010		mg/L		11/17/21 10:04	11/18/21 15:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0046		0.0030		mg/L		11/17/21 10:04	11/18/21 00:49	1
Arsenic	0.37		0.0010		mg/L		11/17/21 10:04	11/18/21 00:49	1
Barium	0.036		0.0025		mg/L		11/17/21 10:04	11/18/21 00:49	1
Beryllium	<0.0010	^1+	0.0010		mg/L		11/17/21 10:04	11/18/21 00:49	1
Boron	0.66		0.050		mg/L		11/17/21 10:04	11/18/21 11:21	1
Cadmium	<0.00050		0.00050		mg/L		11/17/21 10:04	11/18/21 00:49	1
Calcium	120		0.20		mg/L		11/17/21 10:04	11/18/21 00:49	1
Chromium	0.12		0.0050		mg/L		11/17/21 10:04	11/18/21 00:49	1
Cobalt	<0.0010		0.0010		mg/L		11/17/21 10:04	11/18/21 00:49	1
Lead	<0.00050		0.00050		mg/L		11/17/21 10:04	11/18/21 00:49	1
Molybdenum	0.0078		0.0050		mg/L		11/17/21 10:04	11/18/21 00:49	1
Selenium	0.016		0.0025		mg/L		11/17/21 10:04	11/18/21 11:21	1
Thallium	<0.0020		0.0020		mg/L		11/17/21 10:04	11/18/21 00:49	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		11/09/21 09:45	11/10/21 10:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	580		10		mg/L			11/08/21 04:20	1
Chloride	37		2.0		mg/L			11/10/21 18:20	1
Fluoride	0.21		0.10		mg/L			11/16/21 19:44	1
Sulfate	72		15		mg/L			11/10/21 19:41	3

Client Sample ID: MW-16
Date Collected: 11/04/21 14:28
Date Received: 11/05/21 09:55

Lab Sample ID: 500-207904-8
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.010		0.010		mg/L		11/17/21 10:04	11/18/21 15:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		11/17/21 10:04	11/18/21 01:00	1
Arsenic	0.0010		0.0010		mg/L		11/17/21 10:04	11/18/21 01:00	1
Barium	0.023		0.0025		mg/L		11/17/21 10:04	11/18/21 01:00	1
Beryllium	<0.0010	^1+	0.0010		mg/L		11/17/21 10:04	11/18/21 01:00	1
Boron	3.0		0.50		mg/L		11/17/21 10:04	11/18/21 11:24	10
Cadmium	<0.00050		0.00050		mg/L		11/17/21 10:04	11/18/21 01:00	1
Calcium	120		0.20		mg/L		11/17/21 10:04	11/18/21 01:00	1
Chromium	<0.0050		0.0050		mg/L		11/17/21 10:04	11/18/21 01:00	1
Cobalt	<0.0010		0.0010		mg/L		11/17/21 10:04	11/18/21 01:00	1
Lead	<0.00050		0.00050		mg/L		11/17/21 10:04	11/18/21 01:00	1
Molybdenum	0.020		0.0050		mg/L		11/17/21 10:04	11/18/21 01:00	1
Selenium	<0.0025	^6+ ^+	0.0025		mg/L		11/17/21 10:04	11/18/21 01:00	1

Eurofins TestAmerica, Chicago

Client Sample Results

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

Job ID: 500-207904-1

Client Sample ID: MW-16
Date Collected: 11/04/21 14:28
Date Received: 11/05/21 09:55

Lab Sample ID: 500-207904-8
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020		mg/L		11/17/21 10:04	11/18/21 01:00	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		11/09/21 09:45	11/10/21 10:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	810		10		mg/L			11/08/21 04:23	1
Chloride	48		10		mg/L			11/10/21 18:21	5
Fluoride	0.68		0.10		mg/L			11/16/21 19:56	1
Sulfate	290		50		mg/L			11/10/21 19:25	10

Client Sample ID: Duplicate
Date Collected: 11/04/21 00:00
Date Received: 11/05/21 09:55

Lab Sample ID: 500-207904-9
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.011		0.010		mg/L		11/17/21 10:04	11/18/21 15:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		11/17/21 10:04	11/18/21 01:04	1
Arsenic	0.0010		0.0010		mg/L		11/17/21 10:04	11/18/21 01:04	1
Barium	0.024		0.0025		mg/L		11/17/21 10:04	11/18/21 01:04	1
Beryllium	<0.0010	^1+	0.0010		mg/L		11/17/21 10:04	11/18/21 01:04	1
Boron	3.2		0.25		mg/L		11/17/21 10:04	11/18/21 11:28	5
Cadmium	<0.00050		0.00050		mg/L		11/17/21 10:04	11/18/21 01:04	1
Calcium	120		0.20		mg/L		11/17/21 10:04	11/18/21 01:04	1
Chromium	<0.0050		0.0050		mg/L		11/17/21 10:04	11/18/21 01:04	1
Cobalt	<0.0010		0.0010		mg/L		11/17/21 10:04	11/18/21 01:04	1
Lead	<0.00050		0.00050		mg/L		11/17/21 10:04	11/18/21 01:04	1
Molybdenum	0.021		0.0050		mg/L		11/17/21 10:04	11/18/21 01:04	1
Selenium	<0.0025	^6+ ^+	0.0025		mg/L		11/17/21 10:04	11/18/21 01:04	1
Thallium	<0.0020		0.0020		mg/L		11/17/21 10:04	11/18/21 01:04	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		11/09/21 09:45	11/10/21 10:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	780		10		mg/L			11/08/21 04:25	1
Chloride	47		6.0		mg/L			11/10/21 18:21	3
Fluoride	0.67		0.10		mg/L			11/16/21 19:59	1
Sulfate	290		50		mg/L			11/10/21 19:25	10

Definitions/Glossary

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

Job ID: 500-207904-1

Qualifiers

Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
^1+	Initial Calibration Verification (ICV) is outside acceptance limits, high biased.
^6+	Interference Check Standard (ICSA and/or ICSAB) is outside acceptance limits, high biased.

General Chemistry

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
e1	Result exceeds calibration range

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: Waukegan CCR

Job ID: 500-207904-1

Metals

Prep Batch: 627936

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-207904-5	MW-09	Total/NA	Water	7470A	
500-207904-6	MW-11	Total/NA	Water	7470A	
500-207904-7	MW-14	Total/NA	Water	7470A	
500-207904-8	MW-16	Total/NA	Water	7470A	
500-207904-9	Duplicate	Total/NA	Water	7470A	
MB 500-627936/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-627936/13-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 628162

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-207904-5	MW-09	Total/NA	Water	7470A	627936
500-207904-6	MW-11	Total/NA	Water	7470A	627936
500-207904-7	MW-14	Total/NA	Water	7470A	627936
500-207904-8	MW-16	Total/NA	Water	7470A	627936
500-207904-9	Duplicate	Total/NA	Water	7470A	627936
MB 500-627936/12-A	Method Blank	Total/NA	Water	7470A	627936
LCS 500-627936/13-A	Lab Control Sample	Total/NA	Water	7470A	627936

Prep Batch: 629113

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-207904-1	MW-01	Total/NA	Water	7470A	
500-207904-2	MW-02	Total/NA	Water	7470A	
500-207904-3	MW-03	Total/NA	Water	7470A	
500-207904-4	MW-04	Total/NA	Water	7470A	
MB 500-629113/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-629113/13-A	Lab Control Sample	Total/NA	Water	7470A	
500-207904-3 MS	MW-03	Total/NA	Water	7470A	
500-207904-3 MSD	MW-03	Total/NA	Water	7470A	
500-207904-3 DU	MW-03	Total/NA	Water	7470A	

Prep Batch: 629350

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-207904-5	MW-09	Total Recoverable	Water	3005A	
500-207904-6	MW-11	Total Recoverable	Water	3005A	
500-207904-7	MW-14	Total Recoverable	Water	3005A	
500-207904-8	MW-16	Total Recoverable	Water	3005A	
500-207904-9	Duplicate	Total Recoverable	Water	3005A	
MB 500-629350/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-629350/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 629363

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-207904-1	MW-01	Total/NA	Water	7470A	629113
500-207904-2	MW-02	Total/NA	Water	7470A	629113
500-207904-3	MW-03	Total/NA	Water	7470A	629113
500-207904-4	MW-04	Total/NA	Water	7470A	629113
MB 500-629113/12-A	Method Blank	Total/NA	Water	7470A	629113
LCS 500-629113/13-A	Lab Control Sample	Total/NA	Water	7470A	629113
500-207904-3 MS	MW-03	Total/NA	Water	7470A	629113
500-207904-3 MSD	MW-03	Total/NA	Water	7470A	629113
500-207904-3 DU	MW-03	Total/NA	Water	7470A	629113

Eurofins TestAmerica, Chicago

QC Association Summary

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

Job ID: 500-207904-1

Metals

Analysis Batch: 629571

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-207904-5	MW-09	Total Recoverable	Water	6020A	629350
500-207904-6	MW-11	Total Recoverable	Water	6020A	629350
500-207904-7	MW-14	Total Recoverable	Water	6020A	629350
500-207904-8	MW-16	Total Recoverable	Water	6020A	629350
500-207904-9	Duplicate	Total Recoverable	Water	6020A	629350
MB 500-629350/1-A	Method Blank	Total Recoverable	Water	6020A	629350
LCS 500-629350/2-A	Lab Control Sample	Total Recoverable	Water	6020A	629350

Analysis Batch: 629681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-207904-5	MW-09	Total Recoverable	Water	6020A	629350
500-207904-6	MW-11	Total Recoverable	Water	6020A	629350
500-207904-7	MW-14	Total Recoverable	Water	6020A	629350
500-207904-8	MW-16	Total Recoverable	Water	6020A	629350
500-207904-9	Duplicate	Total Recoverable	Water	6020A	629350
MB 500-629350/1-A	Method Blank	Total Recoverable	Water	6020A	629350
LCS 500-629350/2-A	Lab Control Sample	Total Recoverable	Water	6020A	629350

Analysis Batch: 629759

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-207904-5	MW-09	Total Recoverable	Water	6010C	629350
500-207904-6	MW-11	Total Recoverable	Water	6010C	629350
500-207904-7	MW-14	Total Recoverable	Water	6010C	629350
500-207904-8	MW-16	Total Recoverable	Water	6010C	629350
500-207904-9	Duplicate	Total Recoverable	Water	6010C	629350
MB 500-629350/1-A	Method Blank	Total Recoverable	Water	6010C	629350
LCS 500-629350/2-A	Lab Control Sample	Total Recoverable	Water	6010C	629350

Prep Batch: 630567

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-207904-1	MW-01	Total Recoverable	Water	3005A	
500-207904-2	MW-02	Total Recoverable	Water	3005A	
500-207904-3	MW-03	Total Recoverable	Water	3005A	
500-207904-4	MW-04	Total Recoverable	Water	3005A	
MB 500-630567/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-630567/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 630784

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-207904-1	MW-01	Total Recoverable	Water	6020A	630567
500-207904-2	MW-02	Total Recoverable	Water	6020A	630567
500-207904-3	MW-03	Total Recoverable	Water	6020A	630567
500-207904-4	MW-04	Total Recoverable	Water	6020A	630567
MB 500-630567/1-A	Method Blank	Total Recoverable	Water	6020A	630567
LCS 500-630567/2-A	Lab Control Sample	Total Recoverable	Water	6020A	630567

Analysis Batch: 630849

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-207904-1	MW-01	Total Recoverable	Water	6010C	630567
500-207904-2	MW-02	Total Recoverable	Water	6010C	630567
500-207904-3	MW-03	Total Recoverable	Water	6010C	630567

Eurofins TestAmerica, Chicago

QC Association Summary

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

Job ID: 500-207904-1

Metals (Continued)

Analysis Batch: 630849 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-207904-4	MW-04	Total Recoverable	Water	6010C	630567
MB 500-630567/1-A	Method Blank	Total Recoverable	Water	6010C	630567
LCS 500-630567/2-A	Lab Control Sample	Total Recoverable	Water	6010C	630567

Analysis Batch: 630869

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-207904-1	MW-01	Total Recoverable	Water	6020A	630567
500-207904-1	MW-01	Total Recoverable	Water	6020A	630567
500-207904-2	MW-02	Total Recoverable	Water	6020A	630567
500-207904-2	MW-02	Total Recoverable	Water	6020A	630567
500-207904-3	MW-03	Total Recoverable	Water	6020A	630567
500-207904-3	MW-03	Total Recoverable	Water	6020A	630567
500-207904-4	MW-04	Total Recoverable	Water	6020A	630567
500-207904-4	MW-04	Total Recoverable	Water	6020A	630567
MB 500-630567/1-A	Method Blank	Total Recoverable	Water	6020A	630567
LCS 500-630567/2-A	Lab Control Sample	Total Recoverable	Water	6020A	630567

General Chemistry

Analysis Batch: 627341

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-207904-1	MW-01	Total/NA	Water	SM 2540C	
500-207904-2	MW-02	Total/NA	Water	SM 2540C	
500-207904-3	MW-03	Total/NA	Water	SM 2540C	
500-207904-4	MW-04	Total/NA	Water	SM 2540C	
MB 500-627341/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-627341/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 627628

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-207904-5	MW-09	Total/NA	Water	SM 2540C	
500-207904-6	MW-11	Total/NA	Water	SM 2540C	
500-207904-7	MW-14	Total/NA	Water	SM 2540C	
500-207904-8	MW-16	Total/NA	Water	SM 2540C	
500-207904-9	Duplicate	Total/NA	Water	SM 2540C	
MB 500-627628/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-627628/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 628229

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-207904-1	MW-01	Total/NA	Water	SM 4500 CI- E	
500-207904-2	MW-02	Total/NA	Water	SM 4500 CI- E	
500-207904-3	MW-03	Total/NA	Water	SM 4500 CI- E	
500-207904-4	MW-04	Total/NA	Water	SM 4500 CI- E	
500-207904-5	MW-09	Total/NA	Water	SM 4500 CI- E	
500-207904-6	MW-11	Total/NA	Water	SM 4500 CI- E	
500-207904-7	MW-14	Total/NA	Water	SM 4500 CI- E	
500-207904-8	MW-16	Total/NA	Water	SM 4500 CI- E	
500-207904-9	Duplicate	Total/NA	Water	SM 4500 CI- E	
MB 500-628229/100	Method Blank	Total/NA	Water	SM 4500 CI- E	
MB 500-628229/136	Method Blank	Total/NA	Water	SM 4500 CI- E	

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QC Association Summary

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

Job ID: 500-207904-1

General Chemistry (Continued)

Analysis Batch: 628229 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-628229/101	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
LCS 500-628229/137	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
500-207904-6 MS	MW-11	Total/NA	Water	SM 4500 Cl- E	
500-207904-6 MSD	MW-11	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 628230

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-207904-1	MW-01	Total/NA	Water	SM 4500 SO4 E	
500-207904-2	MW-02	Total/NA	Water	SM 4500 SO4 E	
500-207904-3	MW-03	Total/NA	Water	SM 4500 SO4 E	
500-207904-4	MW-04	Total/NA	Water	SM 4500 SO4 E	
500-207904-5	MW-09	Total/NA	Water	SM 4500 SO4 E	
500-207904-6	MW-11	Total/NA	Water	SM 4500 SO4 E	
500-207904-7	MW-14	Total/NA	Water	SM 4500 SO4 E	
500-207904-8	MW-16	Total/NA	Water	SM 4500 SO4 E	
500-207904-9	Duplicate	Total/NA	Water	SM 4500 SO4 E	
MB 500-628230/15	Method Blank	Total/NA	Water	SM 4500 SO4 E	
MB 500-628230/36	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-628230/16	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
LCS 500-628230/37	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
500-207904-6 MS	MW-11	Total/NA	Water	SM 4500 SO4 E	
500-207904-6 MSD	MW-11	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 629537

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-207904-1	MW-01	Total/NA	Water	SM 4500 F C	
500-207904-2	MW-02	Total/NA	Water	SM 4500 F C	
500-207904-3	MW-03	Total/NA	Water	SM 4500 F C	
500-207904-4	MW-04	Total/NA	Water	SM 4500 F C	
500-207904-5	MW-09	Total/NA	Water	SM 4500 F C	
500-207904-6	MW-11	Total/NA	Water	SM 4500 F C	
500-207904-7	MW-14	Total/NA	Water	SM 4500 F C	
500-207904-8	MW-16	Total/NA	Water	SM 4500 F C	
500-207904-9	Duplicate	Total/NA	Water	SM 4500 F C	
MB 500-629537/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-629537/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	

QC Sample Results

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

Job ID: 500-207904-1

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 500-629350/1-A
Matrix: Water
Analysis Batch: 629759

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 629350

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		11/17/21 10:04	11/18/21 15:27	1

Lab Sample ID: LCS 500-629350/2-A
Matrix: Water
Analysis Batch: 629759

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 629350

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lithium	0.500	0.499		mg/L		100	80 - 120

Lab Sample ID: MB 500-630567/1-A
Matrix: Water
Analysis Batch: 630849

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 630567

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010	^+	0.010		mg/L		11/23/21 10:23	11/24/21 12:48	1

Lab Sample ID: LCS 500-630567/2-A
Matrix: Water
Analysis Batch: 630849

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 630567

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lithium	0.500	0.572	^+	mg/L		114	80 - 120

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 500-629350/1-A
Matrix: Water
Analysis Batch: 629571

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 629350

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		11/17/21 10:04	11/18/21 00:18	1
Arsenic	<0.0010		0.0010		mg/L		11/17/21 10:04	11/18/21 00:18	1
Barium	<0.0025		0.0025		mg/L		11/17/21 10:04	11/18/21 00:18	1
Beryllium	<0.0010	^1+	0.0010		mg/L		11/17/21 10:04	11/18/21 00:18	1
Cadmium	<0.00050		0.00050		mg/L		11/17/21 10:04	11/18/21 00:18	1
Calcium	<0.20		0.20		mg/L		11/17/21 10:04	11/18/21 00:18	1
Chromium	<0.0050		0.0050		mg/L		11/17/21 10:04	11/18/21 00:18	1
Cobalt	<0.0010		0.0010		mg/L		11/17/21 10:04	11/18/21 00:18	1
Lead	<0.00050		0.00050		mg/L		11/17/21 10:04	11/18/21 00:18	1
Molybdenum	<0.0050		0.0050		mg/L		11/17/21 10:04	11/18/21 00:18	1
Thallium	<0.0020		0.0020		mg/L		11/17/21 10:04	11/18/21 00:18	1

Lab Sample ID: MB 500-629350/1-A
Matrix: Water
Analysis Batch: 629681

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 629350

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.050		0.050		mg/L		11/17/21 10:04	11/18/21 11:07	1

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QC Sample Results

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

Job ID: 500-207904-1

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

Lab Sample ID: LCS 500-629350/2-A
Matrix: Water
Analysis Batch: 629571

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 629350

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.500	0.537		mg/L		107	80 - 120
Arsenic	0.100	0.100		mg/L		100	80 - 120
Barium	2.00	2.03		mg/L		102	80 - 120
Beryllium	0.0500	0.0490	^1+	mg/L		98	80 - 120
Cadmium	0.0500	0.0493		mg/L		99	80 - 120
Calcium	10.0	9.45		mg/L		95	80 - 120
Chromium	0.200	0.191		mg/L		96	80 - 120
Cobalt	0.500	0.484		mg/L		97	80 - 120
Lead	0.100	0.104		mg/L		104	80 - 120
Molybdenum	1.00	0.955		mg/L		96	80 - 120
Thallium	0.100	0.105		mg/L		105	80 - 120

Lab Sample ID: LCS 500-629350/2-A
Matrix: Water
Analysis Batch: 629681

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 629350

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	1.00	0.978		mg/L		98	80 - 120

Lab Sample ID: MB 500-630567/1-A
Matrix: Water
Analysis Batch: 630784

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 630567

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		11/23/21 10:23	11/23/21 20:44	1
Arsenic	<0.0010		0.0010		mg/L		11/23/21 10:23	11/23/21 20:44	1
Barium	<0.0025		0.0025		mg/L		11/23/21 10:23	11/23/21 20:44	1
Beryllium	<0.0010		0.0010		mg/L		11/23/21 10:23	11/23/21 20:44	1
Cadmium	<0.00050		0.00050		mg/L		11/23/21 10:23	11/23/21 20:44	1
Calcium	<0.20		0.20		mg/L		11/23/21 10:23	11/23/21 20:44	1
Chromium	<0.0050		0.0050		mg/L		11/23/21 10:23	11/23/21 20:44	1
Cobalt	<0.0010		0.0010		mg/L		11/23/21 10:23	11/23/21 20:44	1
Lead	<0.00050		0.00050		mg/L		11/23/21 10:23	11/23/21 20:44	1
Molybdenum	<0.0050		0.0050		mg/L		11/23/21 10:23	11/23/21 20:44	1
Selenium	<0.0025		0.0025		mg/L		11/23/21 10:23	11/23/21 20:44	1
Thallium	<0.0020		0.0020		mg/L		11/23/21 10:23	11/23/21 20:44	1

Lab Sample ID: MB 500-630567/1-A
Matrix: Water
Analysis Batch: 630869

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 630567

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.050		0.050		mg/L		11/23/21 10:23	11/24/21 11:25	1
Selenium	<0.0025		0.0025		mg/L		11/23/21 10:23	11/24/21 11:25	1

QC Sample Results

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

Job ID: 500-207904-1

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

Lab Sample ID: LCS 500-630567/2-A
Matrix: Water
Analysis Batch: 630784

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 630567

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	
							Limits	
Antimony	0.500	0.519		mg/L		104	80 - 120	
Arsenic	0.100	0.0999		mg/L		100	80 - 120	
Barium	2.00	2.03		mg/L		101	80 - 120	
Beryllium	0.0500	0.0473		mg/L		95	80 - 120	
Cadmium	0.0500	0.0485		mg/L		97	80 - 120	
Calcium	10.0	10.0		mg/L		100	80 - 120	
Chromium	0.200	0.198		mg/L		99	80 - 120	
Cobalt	0.500	0.494		mg/L		99	80 - 120	
Lead	0.100	0.104		mg/L		104	80 - 120	
Molybdenum	1.00	0.962		mg/L		96	80 - 120	
Selenium	0.100	0.0999		mg/L		100	80 - 120	
Thallium	0.100	0.104		mg/L		104	80 - 120	

Lab Sample ID: LCS 500-630567/2-A
Matrix: Water
Analysis Batch: 630869

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 630567

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	
							Limits	
Boron	1.00	0.970		mg/L		97	80 - 120	
Selenium	0.100	0.0985		mg/L		99	80 - 120	

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-627936/12-A
Matrix: Water
Analysis Batch: 628162

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 627936

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.00020		0.00020		mg/L		11/09/21 09:45	11/10/21 09:43	1

Lab Sample ID: LCS 500-627936/13-A
Matrix: Water
Analysis Batch: 628162

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 627936

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	
							Limits	
Mercury	0.00200	0.00188		mg/L		94	80 - 120	

Lab Sample ID: MB 500-629113/12-A
Matrix: Water
Analysis Batch: 629363

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 629113

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.00020		0.00020		mg/L		11/16/21 10:15	11/17/21 07:39	1

Lab Sample ID: LCS 500-629113/13-A
Matrix: Water
Analysis Batch: 629363

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 629113

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	
							Limits	
Mercury	0.00200	0.00201		mg/L		100	80 - 120	

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QC Sample Results

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

Job ID: 500-207904-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: 500-207904-3 MS
Matrix: Water
Analysis Batch: 629363

Client Sample ID: MW-03
Prep Type: Total/NA
Prep Batch: 629113
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	<0.00020		0.00100	0.000974		mg/L		97	75 - 125

Lab Sample ID: 500-207904-3 MSD
Matrix: Water
Analysis Batch: 629363

Client Sample ID: MW-03
Prep Type: Total/NA
Prep Batch: 629113
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	<0.00020		0.00100	0.000981		mg/L		98	75 - 125	1	20

Lab Sample ID: 500-207904-3 DU
Matrix: Water
Analysis Batch: 629363

Client Sample ID: MW-03
Prep Type: Total/NA
Prep Batch: 629113
%Rec.

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

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

Lab Sample ID: MB 500-627341/1
Matrix: Water
Analysis Batch: 627341

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			11/05/21 06:40	1

Lab Sample ID: LCS 500-627341/2
Matrix: Water
Analysis Batch: 627341

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Total Dissolved Solids	250	240		mg/L		96	80 - 120

Lab Sample ID: MB 500-627628/1
Matrix: Water
Analysis Batch: 627628

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			11/08/21 03:29	1

Lab Sample ID: LCS 500-627628/2
Matrix: Water
Analysis Batch: 627628

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Total Dissolved Solids	250	240		mg/L		96	80 - 120

QC Sample Results

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

Job ID: 500-207904-1

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 500-628229/100
Matrix: Water
Analysis Batch: 628229

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			11/10/21 18:00	1

Lab Sample ID: MB 500-628229/136
Matrix: Water
Analysis Batch: 628229

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			11/10/21 18:19	1

Lab Sample ID: LCS 500-628229/101
Matrix: Water
Analysis Batch: 628229

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	20.9		mg/L		105	85 - 115

Lab Sample ID: LCS 500-628229/137
Matrix: Water
Analysis Batch: 628229

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

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

Lab Sample ID: 500-207904-6 MS
Matrix: Water
Analysis Batch: 628229

Client Sample ID: MW-11
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	100		20.0	116	4	mg/L		81	75 - 125

Lab Sample ID: 500-207904-6 MSD
Matrix: Water
Analysis Batch: 628229

Client Sample ID: MW-11
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	100		20.0	115	4	mg/L		76	75 - 125	1	20

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-629537/3
Matrix: Water
Analysis Batch: 629537

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			11/16/21 18:38	1

QC Sample Results

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

Job ID: 500-207904-1

Method: SM 4500 F C - Fluoride (Continued)

Lab Sample ID: LCS 500-629537/4
Matrix: Water
Analysis Batch: 629537

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

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 500-628230/15
Matrix: Water
Analysis Batch: 628230

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			11/10/21 19:14	1

Lab Sample ID: MB 500-628230/36
Matrix: Water
Analysis Batch: 628230

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			11/10/21 19:22	1

Lab Sample ID: LCS 500-628230/16
Matrix: Water
Analysis Batch: 628230

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	20.0	21.6		mg/L		108	88 - 123

Lab Sample ID: LCS 500-628230/37
Matrix: Water
Analysis Batch: 628230

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	20.0	21.9		mg/L		109	88 - 123

Lab Sample ID: 500-207904-6 MS
Matrix: Water
Analysis Batch: 628230

Client Sample ID: MW-11
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	45		20.0	63.7	e1	mg/L		93	75 - 125

Lab Sample ID: 500-207904-6 MSD
Matrix: Water
Analysis Batch: 628230

Client Sample ID: MW-11
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	45		20.0	65.5	e1	mg/L		102	75 - 125	3	20

TestAmerica Chicago

2417 Bond Street

Chain of Custody Record



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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500-207904 COC

Regulatory Program: DW NPDES RCRA Other

TestAmerica Laboratories, Inc.

Client Contact		Project Manager: Rich Gnat			Site Contact: Mitchel Dolan		Date: 11/3/21		COC No					
KPRG and Associates Inc 14665 West Lisbon Road Suite 1A Brookfield WI 53154 (262) 781-0475 Phone (262) 781-0478 FAX		Tel/Fax (262) 781-0475			Lab Contact: Diana Mockler		Carrier FedEx		1 of 1 COCs					
Project Name Waukegan CCR Site Waukegan Station - Waukegan IL P O # 4502042830		Analysis Turnaround Time <input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____ <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day			Filtered Sample (Y/N)		Perform MS / MSD (Y/N)		Sampler					
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	903 0 904 0 Radium 226/228 + Combined	6020A, 7470A 14 Metals & Mercury	6010C - Lithium	4500_F_C - Fluoride	SM4500_Cl_E - Chloride	SM4500_SO4_E - Sulfate	2540C - TDS	For Lab Use Only: Walk-in Client Lab Sampling
														Job / SDG No 500-207904
														Sample Specific Notes
1 2 3 4		MW-01	11/3 1223	G W		5	N N	X X X X X X						
		MW-02	11/3 1322	G W		5		↓ ↓ ↓ ↓ ↓ ↓						
		MW-03	11/3 1424	G W		5		↓ ↓ ↓ ↓ ↓ ↓						
		MW-04	11/3 1524	G W		5		↓ ↓ ↓ ↓ ↓ ↓						
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other							4 4 4 1 1 1 1							
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample <input type="checkbox"/> Non Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown							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 & Comments Appendix III and Appendix IV Parameters. 14 Metals for analysis = Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chloride, Chromium, Cobalt, Lead, Molybdenum, Selenium, Thallium											CCR			
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No			Cooler Temp (°C) Obs'd _____ Corr'd _____		Therm ID No _____							
Relinquished by Mitchel Dolan		Company KPRG		Date/Time 11/3/1700	Received by FedEx			Company		Date/Time 11/3/1700				
Relinquished by		Company		Date/Time	Received by			Company		Date/Time				
Relinquished by		Company		Date/Time	Received by Laboratory by			Company ETR		Date/Time 11/4/21 1010				

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

Eurofins TestAmerica, Chicago

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

Chain of Custody Record



ns Environment Testing
 America

Client Information		Sampler: <u>Mitchel Dolan</u>		Lab PM: Mockler Diana J		Carrier Tracking No(s): 500-207904 COC		Page: 42474 1												
Client Contact: Mitchel Dolan		Phone: <u>262-761-0475</u>		E-Mail: Diana Mockler@Eurofinset.com		State of Origin: <u>IL</u>		Page: Page 1 of 1												
Company: KPRG and Associates Inc		PWSID:		Analysis Requested						Job#: <u>500-207904</u>										
Address: 14665 West Lisbon Road Suite 1A		Due Date Requested:		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 903.0 904.0 6010C 6020A, 7470A 2540C, 4500_F_C, SM4500_CI_E, SM4500_S04_E 180 1 - Turbidity						Total Number of containers		Preservation Codes A HCL M Hexane B NaOH N None C Zn Acetate O AsNaO2 D Nitric Acid P Na2O4S E NaHSO4 Q Na2SO3 F MeOH R Na2S2O3 G Amchlor S H2SO4 H Ascorbic Acid T TSP Dodecahydrate I Ice U Acetone J DI Water V MCAA K EDTA W pH 4-5 L EDA Z other (specify)								
City: Brookfield		TAT Requested (days):																		
State Zip: WI 53005		Compliance Project. <input type="checkbox"/> Yes <input type="checkbox"/> No																		
Phone: 262 781-0475(Tel)		PO #: 4502012555																		
Email: mitcheld@kprginc.com		WO #:																		
Project Name: Waukegan CCR Event Desc Quarterly Waukegan CCR		Project #: 50011597		Other:																
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)							Special Instructions/Note								
						Preservation Code														
MW-01					Water															
MW-02					Water															
MW-03					Water															
MW-04					Water															
MW-09		11/4/21	1324	G	Water		X		X		X									
MW 11		11/4/21	1109	G	Water		X		X		X									
MW-14		11/4/21	1220	G	Water		X		X		X									
MW-16		11/4/21	1428	G	Water		X		X		X									
Duplicate		11/4/21	-	G	Water		X		X		X									
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: <u>Mitchel Dolan MDD</u>			Date/Time: <u>11/4/21 / 1700</u>			Company: <u>KPRG</u>			Received by: <u>FEDEX</u>											
Relinquished by:			Date/Time:			Company:			Received by:											
Relinquished by:			Date/Time:			Company:			Received by: <u>ETA</u>											
Custody Seals Intact. <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) C and Other Remarks: <u>1, 2, 8.8</u>																

1591-889

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Do Not Lift Using This Tag

ORIGIN ID: FEPA (262) 622-1143
KPRG AND ASSOCIATES
414 PLAZA DR STE 106
WESTMONT, IL 60559
UNITED STATES US
SHIP DATE: 03NOV21
ACTWT: 52.25 LB
CAD: 6994083/SSFE2220
DIMS: 24x14x14 IN
BILL THIRD PARTY

TO TEST AMERICA

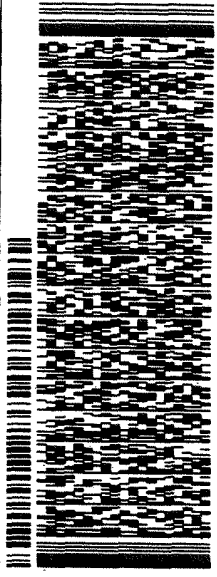
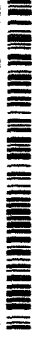
2417 BOND ST

UNIVERSITY PARK IL 60484

(999) 999-9999
REF: 0201

500 207904 Wayb

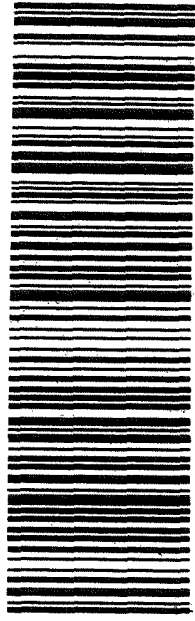
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THU - 04 NOV 11:30A
PRIORITY OVERNIGHT
AHS
60484
IL-US ORD

1 of 3
TRK# 2856 9328 7944
0201
MASTER

79 JOTA



ORIGIN ID: FEPA (262) 622-1143
KPRG AND ASSOCIATES
414 PLAZA DR STE 106
WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 03NOV21
ACTWT: 52.25 LB
CAD: 6994083/SSFE2220
DIMS: 24x14x14 IN

BILL THIRD PARTY

TO TEST AMERICA

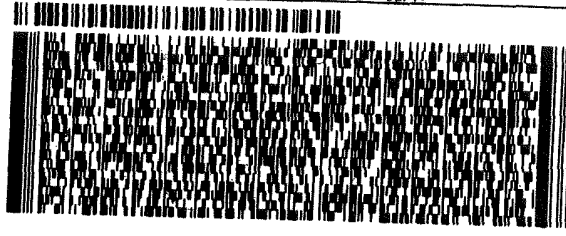
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UNIVERSITY PARK IL 60484

(999) 999-9999
REF: 0201

DEPT:

DEPT:



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0263
Mstr# 2856 9328 7944
0201

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PRIORITY OVERNIGHT
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ORIGIN ID: FEPA (262) 622-1143
KPRG AND ASSOCIATES
414 PLAZA DR STE 106
WESTMONT, IL 60559
UNITED STATES US
SHIP DATE: 03NOV21
ACTWT: 52.25 LB
CAD: 6994083/SSFE2220
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BILL THIRD PARTY

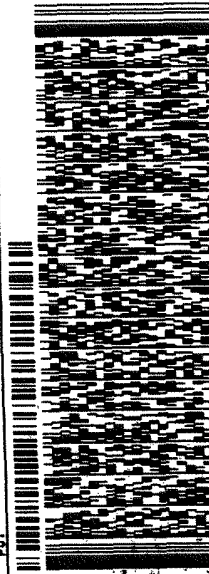
TO TEST AMERICA

2417 BOND ST

UNIVERSITY PARK IL 60484

(999) 999-9999
REF: 0201

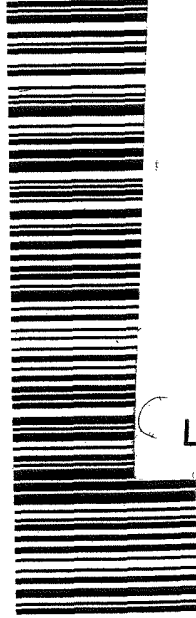
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PRIORITY OVERNIGHT
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3 of 3
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0263
Mstr# 2856 9328 7944
0201

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500-207904 Wayb

ORIGIN ID:FEPA (262) 781-0475

KPRG AND ASSOCIATES
414 PLAZA DR STE 106

WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 04NOV21
ACTWGT: 35.95 LB
CAD: 6994085/SSFE2220
DIMS: 24x13x14 IN

BILL THIRD PARTY

TO TEST AMERICA

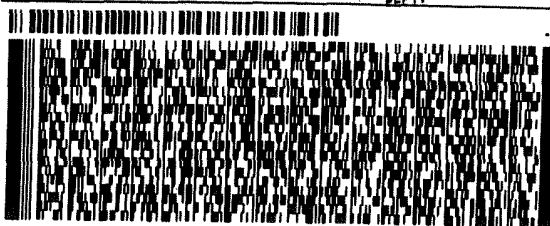
2417 BOND ST

UNIVERSITY PARK IL 60484

(999) 999-9999
TNU:
PO:

REF:

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Express



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3 of 4

MPS# 2857 4034 9864
0263

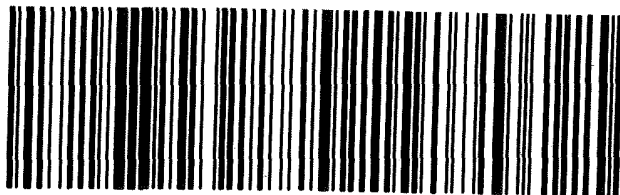
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0201

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60484
IL-US ORD



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ORIGIN ID:FEPA (262) 781-0475

KPRG AND ASSOCIATES
414 PLAZA DR STE 106

WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 04NOV21
ACTWGT: 35.95 LB
CAD: 6994085/SSFE2220
DIMS: 24x13x14 IN

BILL THIRD PARTY

TO TEST AMERICA

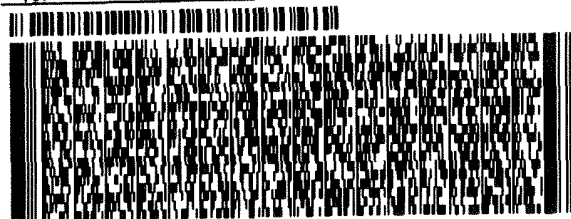
2417 BOND ST

UNIVERSITY PARK IL 60484

(999) 999-9999
TNU:
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DEPT:



FedEx
Express



Part #: 156297-4834444/2102

2 of 4

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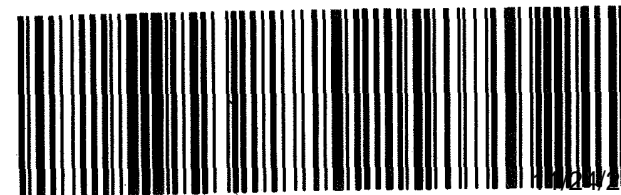
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0201

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Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-207904-1

Login Number: 207904

List Source: Eurofins TestAmerica, Chicago

List Number: 1

Creator: James, Jeff A

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	0.1,0.8,-0.9,1.2,0.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <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: Waukegan CCR

Job ID: 500-207904-1

Client Sample ID: MW-01
Date Collected: 11/03/21 12:23
Date Received: 11/04/21 10:10

Lab Sample ID: 500-207904-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			630567	11/23/21 10:23	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	630849	11/24/21 12:55	JJB	TAL CHI
Total Recoverable	Prep	3005A			630567	11/23/21 10:23	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	630784	11/23/21 22:19	FXG	TAL CHI
Total Recoverable	Prep	3005A			630567	11/23/21 10:23	BDE	TAL CHI
Total Recoverable	Analysis	6020A		5	630869	11/24/21 11:46	FXG	TAL CHI
Total Recoverable	Prep	3005A			630567	11/23/21 10:23	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	630869	11/24/21 14:27	FXG	TAL CHI
Total/NA	Prep	7470A			629113	11/16/21 10:15	MJG	TAL CHI
Total/NA	Analysis	7470A		1	629363	11/17/21 07:51	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	627341	11/05/21 07:01	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		3	628229	11/10/21 18:06	RES	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	629537	11/16/21 19:26	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	628230	11/10/21 19:21	RES	TAL CHI

Client Sample ID: MW-02
Date Collected: 11/03/21 13:22
Date Received: 11/04/21 10:10

Lab Sample ID: 500-207904-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			630567	11/23/21 10:23	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	630849	11/24/21 12:58	JJB	TAL CHI
Total Recoverable	Prep	3005A			630567	11/23/21 10:23	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	630784	11/23/21 22:23	FXG	TAL CHI
Total Recoverable	Prep	3005A			630567	11/23/21 10:23	BDE	TAL CHI
Total Recoverable	Analysis	6020A		10	630869	11/24/21 11:49	FXG	TAL CHI
Total Recoverable	Prep	3005A			630567	11/23/21 10:23	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	630869	11/24/21 14:31	FXG	TAL CHI
Total/NA	Prep	7470A			629113	11/16/21 10:15	MJG	TAL CHI
Total/NA	Analysis	7470A		1	629363	11/17/21 07:54	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	627341	11/05/21 07:04	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		1	628229	11/10/21 18:06	RES	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	629537	11/16/21 19:29	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	628230	11/10/21 19:22	RES	TAL CHI

Client Sample ID: MW-03
Date Collected: 11/03/21 14:24
Date Received: 11/04/21 10:10

Lab Sample ID: 500-207904-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			630567	11/23/21 10:23	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	630849	11/24/21 13:01	JJB	TAL CHI
Total Recoverable	Prep	3005A			630567	11/23/21 10:23	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	630784	11/23/21 22:27	FXG	TAL CHI

Eurofins TestAmerica, Chicago

Lab Chronicle

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

Job ID: 500-207904-1

Client Sample ID: MW-03

Lab Sample ID: 500-207904-3

Date Collected: 11/03/21 14:24

Matrix: Water

Date Received: 11/04/21 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			630567	11/23/21 10:23	BDE	TAL CHI
Total Recoverable	Analysis	6020A		10	630869	11/24/21 11:53	FXG	TAL CHI
Total Recoverable	Prep	3005A			630567	11/23/21 10:23	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	630869	11/24/21 14:34	FXG	TAL CHI
Total/NA	Prep	7470A			629113	11/16/21 10:15	MJG	TAL CHI
Total/NA	Analysis	7470A		1	629363	11/17/21 07:56	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	627341	11/05/21 07:06	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		3	628229	11/10/21 18:06	RES	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	629537	11/16/21 19:32	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	628230	11/10/21 19:23	RES	TAL CHI

Client Sample ID: MW-04

Lab Sample ID: 500-207904-4

Date Collected: 11/03/21 15:24

Matrix: Water

Date Received: 11/04/21 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			630567	11/23/21 10:23	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	630849	11/24/21 13:04	JJB	TAL CHI
Total Recoverable	Prep	3005A			630567	11/23/21 10:23	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	630784	11/23/21 22:30	FXG	TAL CHI
Total Recoverable	Prep	3005A			630567	11/23/21 10:23	BDE	TAL CHI
Total Recoverable	Analysis	6020A		5	630869	11/24/21 11:57	FXG	TAL CHI
Total Recoverable	Prep	3005A			630567	11/23/21 10:23	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	630869	11/24/21 14:38	FXG	TAL CHI
Total/NA	Prep	7470A			629113	11/16/21 10:15	MJG	TAL CHI
Total/NA	Analysis	7470A		1	629363	11/17/21 08:30	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	627341	11/05/21 07:09	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		3	628229	11/10/21 18:19	RES	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	629537	11/16/21 19:34	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	628230	11/10/21 19:23	RES	TAL CHI

Client Sample ID: MW-09

Lab Sample ID: 500-207904-5

Date Collected: 11/04/21 13:24

Matrix: Water

Date Received: 11/05/21 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			629350	11/17/21 10:04	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	629759	11/18/21 15:33	JJB	TAL CHI
Total Recoverable	Prep	3005A			629350	11/17/21 10:04	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	629571	11/18/21 00:43	FXG	TAL CHI
Total Recoverable	Prep	3005A			629350	11/17/21 10:04	BDE	TAL CHI
Total Recoverable	Analysis	6020A		10	629681	11/18/21 11:14	FXG	TAL CHI
Total/NA	Prep	7470A			627936	11/09/21 09:45	MJG	TAL CHI
Total/NA	Analysis	7470A		1	628162	11/10/21 10:15	MJG	TAL CHI

Eurofins TestAmerica, Chicago

Lab Chronicle

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

Job ID: 500-207904-1

Client Sample ID: MW-09
Date Collected: 11/04/21 13:24
Date Received: 11/05/21 09:55

Lab Sample ID: 500-207904-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	627628	11/08/21 04:15	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		5	628229	11/10/21 18:07	RES	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	629537	11/16/21 19:38	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	628230	11/10/21 19:23	RES	TAL CHI

Client Sample ID: MW-11
Date Collected: 11/04/21 11:09
Date Received: 11/05/21 09:55

Lab Sample ID: 500-207904-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			629350	11/17/21 10:04	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	629759	11/18/21 15:46	JJB	TAL CHI
Total Recoverable	Prep	3005A			629350	11/17/21 10:04	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	629571	11/18/21 00:46	FXG	TAL CHI
Total Recoverable	Prep	3005A			629350	11/17/21 10:04	BDE	TAL CHI
Total Recoverable	Analysis	6020A		5	629681	11/18/21 11:18	FXG	TAL CHI
Total/NA	Prep	7470A			627936	11/09/21 09:45	MJG	TAL CHI
Total/NA	Analysis	7470A		1	628162	11/10/21 10:17	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	627628	11/08/21 04:18	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		5	628229	11/10/21 18:19	RES	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	629537	11/16/21 19:41	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		1	628230	11/10/21 19:23	RES	TAL CHI

Client Sample ID: MW-14
Date Collected: 11/04/21 12:20
Date Received: 11/05/21 09:55

Lab Sample ID: 500-207904-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			629350	11/17/21 10:04	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	629759	11/18/21 15:49	JJB	TAL CHI
Total Recoverable	Prep	3005A			629350	11/17/21 10:04	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	629571	11/18/21 00:49	FXG	TAL CHI
Total Recoverable	Prep	3005A			629350	11/17/21 10:04	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	629681	11/18/21 11:21	FXG	TAL CHI
Total/NA	Prep	7470A			627936	11/09/21 09:45	MJG	TAL CHI
Total/NA	Analysis	7470A		1	628162	11/10/21 10:20	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	627628	11/08/21 04:20	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		1	628229	11/10/21 18:20	RES	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	629537	11/16/21 19:44	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		3	628230	11/10/21 19:41	RES	TAL CHI

Lab Chronicle

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

Job ID: 500-207904-1

Client Sample ID: MW-16

Lab Sample ID: 500-207904-8

Date Collected: 11/04/21 14:28

Matrix: Water

Date Received: 11/05/21 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			629350	11/17/21 10:04	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	629759	11/18/21 15:52	JJB	TAL CHI
Total Recoverable	Prep	3005A			629350	11/17/21 10:04	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	629571	11/18/21 01:00	FXG	TAL CHI
Total Recoverable	Prep	3005A			629350	11/17/21 10:04	BDE	TAL CHI
Total Recoverable	Analysis	6020A		10	629681	11/18/21 11:24	FXG	TAL CHI
Total/NA	Prep	7470A			627936	11/09/21 09:45	MJG	TAL CHI
Total/NA	Analysis	7470A		1	628162	11/10/21 10:22	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	627628	11/08/21 04:23	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		5	628229	11/10/21 18:21	RES	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	629537	11/16/21 19:56	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	628230	11/10/21 19:25	RES	TAL CHI

Client Sample ID: Duplicate

Lab Sample ID: 500-207904-9

Date Collected: 11/04/21 00:00

Matrix: Water

Date Received: 11/05/21 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			629350	11/17/21 10:04	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	629759	11/18/21 15:55	JJB	TAL CHI
Total Recoverable	Prep	3005A			629350	11/17/21 10:04	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	629571	11/18/21 01:04	FXG	TAL CHI
Total Recoverable	Prep	3005A			629350	11/17/21 10:04	BDE	TAL CHI
Total Recoverable	Analysis	6020A		5	629681	11/18/21 11:28	FXG	TAL CHI
Total/NA	Prep	7470A			627936	11/09/21 09:45	MJG	TAL CHI
Total/NA	Analysis	7470A		1	628162	11/10/21 10:24	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	627628	11/08/21 04:25	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		3	628229	11/10/21 18:21	RES	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	629537	11/16/21 19:59	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	628230	11/10/21 19:25	RES	TAL CHI

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 500-207904-1

Laboratory: Eurofins TestAmerica, Chicago

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

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

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ANALYTICAL REPORT

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

Laboratory Job ID: 500-207904-2
Client Project/Site: Waukegan CCR

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

Attn: Richard Gnat



Authorized for release by:
12/16/2021 8:23:27 AM

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: Waukegan CCR

Job ID: 500-207904-2

Job ID: 500-207904-2

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative 500-207904-2

Comments

No additional comments.

Receipt

The samples were received on 11/4/2021 10:10 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 5 coolers at receipt time were -0.9° C, 0.1° C, 0.8° C, 0.8° C and 1.2° C.

RAD

Methods 903.0, 9315: Radium 226 batch 536245

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

MW-01 (500-207904-1), MW-02 (500-207904-2), MW-03 (500-207904-3), MW-04 (500-207904-4), MW-09 (500-207904-5), MW-11 (500-207904-6), MW-14 (500-207904-7), MW-16 (500-207904-8), Duplicate (500-207904-9), (LCS 160-536245/1-A), (MB 160-536245/25-A), (240-159571-O-5-A), (240-159571-N-5-A MS), (240-159571-K-5-A MSD) and (500-207904-D-1-B DU)

Methods 904.0, 9320: Radium 228 batch 536394

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

MW-01 (500-207904-1), MW-02 (500-207904-2), MW-03 (500-207904-3), MW-04 (500-207904-4), MW-09 (500-207904-5), MW-11 (500-207904-6), MW-14 (500-207904-7), MW-16 (500-207904-8), Duplicate (500-207904-9), (LCS 160-536394/1-A), (MB 160-536394/25-A), (240-159571-O-5-B), (240-159571-N-5-B MS), (240-159571-K-5-B MSD) and (500-207904-D-1-C DU)

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

Method Summary

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

Job ID: 500-207904-2

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

Protocol References:

EPA = US Environmental Protection Agency

None = None

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

Laboratory References:

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

Sample Summary

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

Job ID: 500-207904-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-207904-1	MW-01	Water	11/03/21 12:23	11/04/21 10:10
500-207904-2	MW-02	Water	11/03/21 13:22	11/04/21 10:10
500-207904-3	MW-03	Water	11/03/21 14:24	11/04/21 10:10
500-207904-4	MW-04	Water	11/03/21 15:24	11/04/21 10:10
500-207904-5	MW-09	Water	11/04/21 13:24	11/05/21 09:55
500-207904-6	MW-11	Water	11/04/21 11:09	11/05/21 09:55
500-207904-7	MW-14	Water	11/04/21 12:20	11/05/21 09:55
500-207904-8	MW-16	Water	11/04/21 14:28	11/05/21 09:55
500-207904-9	Duplicate	Water	11/04/21 00:00	11/05/21 09:55

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Client Sample Results

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

Job ID: 500-207904-2

Client Sample ID: MW-01
Date Collected: 11/03/21 12:23
Date Received: 11/04/21 10:10

Lab Sample ID: 500-207904-1
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	<0.146	U	0.102	0.103	1.00	0.146	pCi/L	11/12/21 09:23	12/06/21 13:28	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.5		40 - 110					11/12/21 09:23	12/06/21 13:28	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	<0.553	U	0.336	0.337	1.00	0.553	pCi/L	11/12/21 10:48	12/01/21 14:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.5		40 - 110					11/12/21 10:48	12/01/21 14:14	1
Y Carrier	89.3		40 - 110					11/12/21 10:48	12/01/21 14:14	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	<0.553	U	0.351	0.352	5.00	0.553	pCi/L		12/15/21 17:45	1

Client Sample ID: MW-02
Date Collected: 11/03/21 13:22
Date Received: 11/04/21 10:10

Lab Sample ID: 500-207904-2
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	<0.189	U	0.128	0.129	1.00	0.189	pCi/L	11/12/21 09:23	12/06/21 13:28	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.4		40 - 110					11/12/21 09:23	12/06/21 13:28	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	<0.580	U	0.373	0.377	1.00	0.580	pCi/L	11/12/21 10:48	12/01/21 14:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.4		40 - 110					11/12/21 10:48	12/01/21 14:15	1
Y Carrier	88.2		40 - 110					11/12/21 10:48	12/01/21 14:15	1

Client Sample Results

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

Job ID: 500-207904-2

Client Sample ID: MW-02
Date Collected: 11/03/21 13:22
Date Received: 11/04/21 10:10

Lab Sample ID: 500-207904-2
Matrix: Water

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	0.763		0.394	0.398	5.00	0.580	pCi/L		12/15/21 17:45	1

Client Sample ID: MW-03
Date Collected: 11/03/21 14:24
Date Received: 11/04/21 10:10

Lab Sample ID: 500-207904-3
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	<0.177	U	0.0993	0.0994	1.00	0.177	pCi/L	11/12/21 09:23	12/06/21 13:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.1		40 - 110					11/12/21 09:23	12/06/21 13:29	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	<0.438	U	0.270	0.272	1.00	0.438	pCi/L	11/12/21 10:48	12/01/21 14:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.1		40 - 110					11/12/21 10:48	12/01/21 14:15	1
Y Carrier	87.5		40 - 110					11/12/21 10:48	12/01/21 14:15	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	<0.438	U	0.288	0.290	5.00	0.438	pCi/L		12/15/21 17:45	1

Client Sample ID: MW-04
Date Collected: 11/03/21 15:24
Date Received: 11/04/21 10:10

Lab Sample ID: 500-207904-4
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	0.206		0.126	0.127	1.00	0.174	pCi/L	11/12/21 09:23	12/06/21 13:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.9		40 - 110					11/12/21 09:23	12/06/21 13:29	1

Client Sample Results

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

Job ID: 500-207904-2

Client Sample ID: MW-04

Lab Sample ID: 500-207904-4

Date Collected: 11/03/21 15:24

Matrix: Water

Date Received: 11/04/21 10:10

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	<0.454	U	0.288	0.290	1.00	0.454	pCi/L	11/12/21 10:48	12/01/21 14:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.9		40 - 110					11/12/21 10:48	12/01/21 14:15	1
Y Carrier	89.3		40 - 110					11/12/21 10:48	12/01/21 14:15	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	0.572		0.314	0.317	5.00	0.454	pCi/L		12/15/21 17:45	1

Client Sample ID: MW-09

Lab Sample ID: 500-207904-5

Date Collected: 11/04/21 13:24

Matrix: Water

Date Received: 11/05/21 09:55

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.332		0.180	0.182	1.00	0.241	pCi/L	11/12/21 09:23	12/06/21 13:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.6		40 - 110					11/12/21 09:23	12/06/21 13:29	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	<0.775	U	0.425	0.425	1.00	0.775	pCi/L	11/12/21 10:48	12/01/21 14:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.6		40 - 110					11/12/21 10:48	12/01/21 14:15	1
Y Carrier	90.8		40 - 110					11/12/21 10:48	12/01/21 14:15	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	<0.775	U	0.462	0.462	5.00	0.775	pCi/L		12/15/21 17:45	1

Client Sample Results

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

Job ID: 500-207904-2

Client Sample ID: MW-11

Lab Sample ID: 500-207904-6

Date Collected: 11/04/21 11:09

Matrix: Water

Date Received: 11/05/21 09:55

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.467		0.187	0.191	1.00	0.215	pCi/L	11/12/21 09:23	12/06/21 13:32	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.8		40 - 110					11/12/21 09:23	12/06/21 13:32	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	0.884		0.487	0.494	1.00	0.740	pCi/L	11/12/21 10:48	12/01/21 14:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.8		40 - 110					11/12/21 10:48	12/01/21 14:17	1
Y Carrier	90.8		40 - 110					11/12/21 10:48	12/01/21 14:17	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	1.35		0.522	0.530	5.00	0.740	pCi/L		12/15/21 17:45	1

Client Sample ID: MW-14

Lab Sample ID: 500-207904-7

Date Collected: 11/04/21 12:20

Matrix: Water

Date Received: 11/05/21 09:55

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.276		0.173	0.174	1.00	0.240	pCi/L	11/12/21 09:23	12/06/21 13:32	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.5		40 - 110					11/12/21 09:23	12/06/21 13:32	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	<0.798	U	0.472	0.473	1.00	0.798	pCi/L	11/12/21 10:48	12/01/21 14:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.5		40 - 110					11/12/21 10:48	12/01/21 14:17	1
Y Carrier	89.7		40 - 110					11/12/21 10:48	12/01/21 14:17	1

Eurofins TestAmerica, Chicago

Client Sample Results

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

Job ID: 500-207904-2

Client Sample ID: MW-14

Date Collected: 11/04/21 12:20

Date Received: 11/05/21 09:55

Lab Sample ID: 500-207904-7

Matrix: Water

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	<0.798	U	0.503	0.504	5.00	0.798	pCi/L		12/15/21 17:45	1

Client Sample ID: MW-16

Date Collected: 11/04/21 14:28

Date Received: 11/05/21 09:55

Lab Sample ID: 500-207904-8

Matrix: Water

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	<0.157	U	0.0958	0.0960	1.00	0.157	pCi/L	11/12/21 09:23	12/06/21 13:32	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.4		40 - 110					11/12/21 09:23	12/06/21 13:32	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	<0.457	U	0.279	0.280	1.00	0.457	pCi/L	11/12/21 10:48	12/01/21 14:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.4		40 - 110					11/12/21 10:48	12/01/21 14:17	1
Y Carrier	90.1		40 - 110					11/12/21 10:48	12/01/21 14:17	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	<0.457	U	0.295	0.296	5.00	0.457	pCi/L		12/15/21 17:45	1

Client Sample ID: Duplicate

Date Collected: 11/04/21 00:00

Date Received: 11/05/21 09:55

Lab Sample ID: 500-207904-9

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	<0.152	U	0.102	0.103	1.00	0.152	pCi/L	11/12/21 09:23	12/06/21 13:33	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.7		40 - 110					11/12/21 09:23	12/06/21 13:33	1

Client Sample Results

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

Job ID: 500-207904-2

Client Sample ID: Duplicate
Date Collected: 11/04/21 00:00
Date Received: 11/05/21 09:55

Lab Sample ID: 500-207904-9
Matrix: Water

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	<0.440	U	0.240	0.240	1.00	0.440	pCi/L	11/12/21 10:48	12/01/21 14:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.7		40 - 110					11/12/21 10:48	12/01/21 14:17	1
Y Carrier	92.0		40 - 110					11/12/21 10:48	12/01/21 14:17	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	<0.440	U	0.261	0.261	5.00	0.440	pCi/L		12/15/21 17:45	1



Definitions/Glossary

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

Job ID: 500-207904-2

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: Waukegan CCR

Job ID: 500-207904-2

Rad

Prep Batch: 536245

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-207904-1	MW-01	Total/NA	Water	PrecSep-21	
500-207904-2	MW-02	Total/NA	Water	PrecSep-21	
500-207904-3	MW-03	Total/NA	Water	PrecSep-21	
500-207904-4	MW-04	Total/NA	Water	PrecSep-21	
500-207904-5	MW-09	Total/NA	Water	PrecSep-21	
500-207904-6	MW-11	Total/NA	Water	PrecSep-21	
500-207904-7	MW-14	Total/NA	Water	PrecSep-21	
500-207904-8	MW-16	Total/NA	Water	PrecSep-21	
500-207904-9	Duplicate	Total/NA	Water	PrecSep-21	
MB 160-536245/25-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-536245/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-207904-1 DU	MW-01	Total/NA	Water	PrecSep-21	

Prep Batch: 536394

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-207904-1	MW-01	Total/NA	Water	PrecSep_0	
500-207904-2	MW-02	Total/NA	Water	PrecSep_0	
500-207904-3	MW-03	Total/NA	Water	PrecSep_0	
500-207904-4	MW-04	Total/NA	Water	PrecSep_0	
500-207904-5	MW-09	Total/NA	Water	PrecSep_0	
500-207904-6	MW-11	Total/NA	Water	PrecSep_0	
500-207904-7	MW-14	Total/NA	Water	PrecSep_0	
500-207904-8	MW-16	Total/NA	Water	PrecSep_0	
500-207904-9	Duplicate	Total/NA	Water	PrecSep_0	
MB 160-536394/25-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-536394/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-207904-1 DU	MW-01	Total/NA	Water	PrecSep_0	

QC Sample Results

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

Job ID: 500-207904-2

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-536245/25-A
Matrix: Water
Analysis Batch: 540390

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 536245

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.2158		0.132	0.133	1.00	0.173	pCi/L	11/12/21 09:23	12/06/21 13:34	1
Carrier	MB	MB	Limits				Prepared		Analyzed	
Ba Carrier	%Yield	Qualifier	40 - 110				11/12/21 09:23		12/06/21 13:34	
	91.4									

Lab Sample ID: LCS 160-536245/1-A
Matrix: Water
Analysis Batch: 540407

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 536245

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits	
				Uncert. (2σ+/-)						
Radium-226	15.1	14.10		1.53	1.00	0.194	pCi/L	93	75 - 125	
Carrier	LCS	LCS	Limits							
Ba Carrier	%Yield	Qualifier	40 - 110							
	87.6									

Lab Sample ID: 500-207904-1 DU
Matrix: Water
Analysis Batch: 540407

Client Sample ID: MW-01
Prep Type: Total/NA
Prep Batch: 536245

Analyte	Sample	Sample	DU	DU	Total	RL	MDC	Unit	RER	RER Limit
	Result	Qual	Result	Qual	Uncert. (2σ+/-)					
Radium-226	<0.146	U	<0.200	U	0.130	1.00	0.200	pCi/L	0.01	1
Carrier	DU	DU	Limits							
Ba Carrier	%Yield	Qualifier	40 - 110							
	63.5									

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-536394/25-A
Matrix: Water
Analysis Batch: 539996

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 536394

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	<0.706	U	0.415	0.416	1.00	0.706	pCi/L	11/12/21 10:48	12/01/21 14:18	1
Carrier	MB	MB	Limits				Prepared		Analyzed	
Ba Carrier	%Yield	Qualifier	40 - 110				11/12/21 10:48		12/01/21 14:18	
	91.4									
Y Carrier	83.7		40 - 110				11/12/21 10:48		12/01/21 14:18	

QC Sample Results

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

Job ID: 500-207904-2

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

Lab Sample ID: LCS 160-536394/1-A
Matrix: Water
Analysis Batch: 539784

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 536394

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	
Radium-228	12.1	11.61		1.48	1.00	0.678	pCi/L	96	75 - 125	
LCS LCS										
Carrier	%Yield	Qualifier	Limits							
Ba Carrier	87.6		40 - 110							
Y Carrier	82.2		40 - 110							

Lab Sample ID: 500-207904-1 DU
Matrix: Water
Analysis Batch: 539784

Client Sample ID: MW-01
Prep Type: Total/NA
Prep Batch: 536394

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
										1
Radium-228	<0.553	U	<0.643	U	0.412	1.00	0.643	pCi/L	0.33	1
DU DU										
Carrier	%Yield	Qualifier	Limits							
Ba Carrier	63.5		40 - 110							
Y Carrier	87.9		40 - 110							



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

500-207904 COC

Regulatory Program: DW NPDES RCRA Other

TestAmerica Laboratories, Inc.

Client Contact		Project Manager: Rich Gnat		Site Contact: Mitchel Dolan		Date: 11/3/21		COC No	
KPRG and Associates Inc		Tel/Fax (262) 781-0475		Lab Contact: Diana Mockler		Carrier FedEx		1 of 1 COCs	
14665 West Lisbon Road Suite 1A		Analysis Turnaround Time							
Brookfield WI 53154		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____ <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day							
(262) 781-0475 Phone		Filtered Sample (Y/N) _____ Perform MS / MSD (Y/N) _____ 903.0 904.0 Radium 226/228 + Combine _____ 6020A, 7470A 14 Metals & Mercury _____ 6010C - Lithium _____ 4500_F_C - Fluoride _____ SM4500_Cl_E - Chloride _____ SM4500_SO4_E - Sulfate _____ 2540C - TDS _____							
(262) 781-0478 FAX									
Project Name Waukegan CCR									
Site Waukegan Station - Waukegan IL									
P O # 4502042830		For Lab Use Only: Walk-in Client _____ Lab Sampling _____ Job / SDG No 500-207904							

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Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	903.0 904.0 Radium 226/228 + Combine	6020A, 7470A 14 Metals & Mercury	6010C - Lithium	4500_F_C - Fluoride	SM4500_Cl_E - Chloride	SM4500_SO4_E - Sulfate	2540C - TDS	Sample Specific Notes
MW-01	11/3	1223	G	W	5	N	N	X	X	X	X	X	X	X	
MW-02	11/3	1322	G	W	5										
MW-03	11/3	1424	G	W	5										
MW-04	11/3	1524	G	W	5										

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

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

Non Hazard Flammable Skin Irritant Poison B Unknown

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

Return to Client Disposal by Lab Archive for _____ Months

Special Instructions/QC Requirements & Comments CCR
 Appendix III and Appendix IV Parameters. 14 Metals for analysis = Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chloride, Chromium, Cobalt, Lead, Molybdenum, Selenium, Thallium

Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No	Cooler Temp (°C) Obs'd _____ Corr'd _____	Therm ID No _____
Relinquished by Mitchel Dolan	Company KPRG	Date/Time 11/3/1700	Received by FedEx
Relinquished by _____	Company _____	Date/Time _____	Received by _____
Relinquished by _____	Company _____	Date/Time _____	Received by ETR

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Eurofins TestAmerica, Chicago

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

Chain of Custody Record



ns Environment Testing
 America

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Client Information		Sampler: <u>Mitchel Dolan</u>	Lab PM Mockler Diana J	Carrier Tracking No(s) <u>500-207904 COC</u>	42474 1		
Client Contact: Mitchel Dolan		Phone: <u>262-761-0475</u>	E-Mail: Diana.Mockler@Eurofinset.com	State of Origin <u>IL</u>	Page Page 1 of 1		
Company: KPRG and Associates Inc		PWSID:	Analysis Requested				
Address: 14665 West Lisbon Road Suite 1A		Due Date Requested	<u>Job# 500-207904</u>				
City: Brookfield		TAT Requested (days)	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)				
State Zip WI 53005		Compliance Project. <input type="checkbox"/> Yes <input type="checkbox"/> No					
Phone: 262 781-0475(Tel)		PO #: 4502012555	Perform MS/MSD (Yes or No)				
Email: mitcheld@kprginc.com		WO #	903.0 904.0				
Project Name: Waukegan CCR Event Desc Quarterly Waukegan CCR		Project #: 50011597	6010C 6020A, 7470A				
Site: Illinois		SSOW#	2540C, 4500_F_C, SM4500_CI_E, SM4500_SO4_E				
			180 1 - Turbidity				
			Total Number of containers				
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Special Instructions/Note	
		Preservation Code					
		D D N N					
MW-01		Water					
MW-02		Water					
MW-03		Water					
MW-04		Water					
MW-09		11/4/21	1324	G	Water	X ^ ^ ^	
MW 11		11/4/21	1109	G	Water	^ ^ ^ ^	
MW-14		11/4/21	1220	G	Water	^ ^ ^ ^	
MW-16		11/4/21	1428	G	Water	^ ^ ^ X	
Duplicate		11/4/21	-	G	Water	^ ^ X X	
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 <u>Mitchel Dolan mrd</u>		Date/Time <u>11/4/21 1700</u>	Company <u>KPRG</u>	Received by <u>FEDEX</u>	Date/Time <u>11/4/21 1700</u>		
Relinquished by		Date/Time	Company	Received by	Date/Time		
Relinquished by		Date/Time	Company	Received by <u>[Signature]</u>	Date/Time <u>11-5-21 0955</u>		
Custody Seals Intact. <input type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No	Cooler Temperature(s) C and Other Remarks <u>1, 2, 8.8</u>		Company <u>ETA</u>			

1591-085

Do Not Lift Using This Tag

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KPRG AND ASSOCIATES
414 PLAZA DR STE 106
WESTMONT, IL 60559
UNITED STATES US

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ACTWGT: 52.25 LB
CAD: 6994083/SSFE2220
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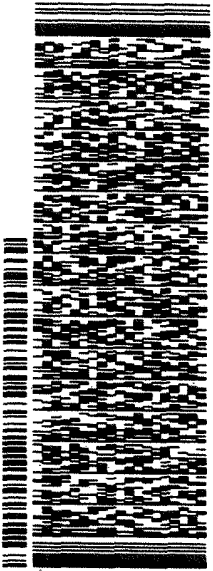
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UNIVERSITY PARK IL 60484

500 207904 Wayb

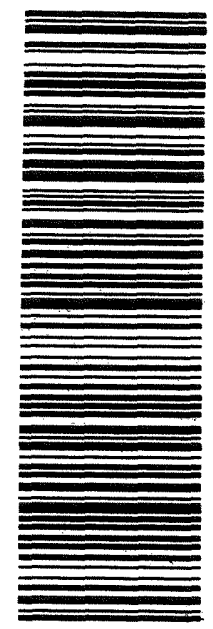
DEPT:

(999) 999-9999 REF: PO1



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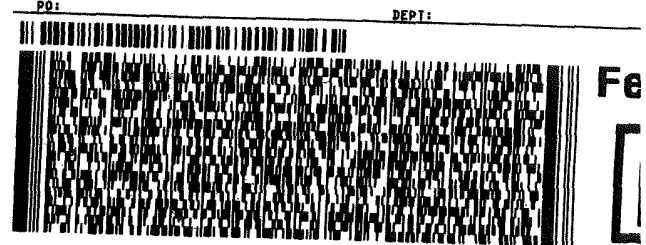


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2 of 3
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WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 03NOV21
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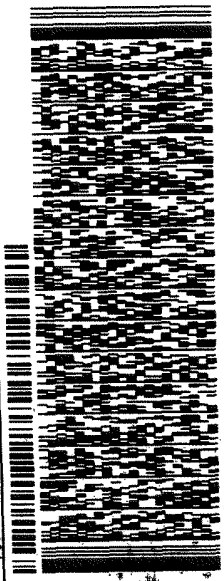
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500 207904 Wayb

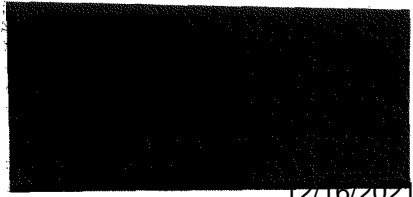
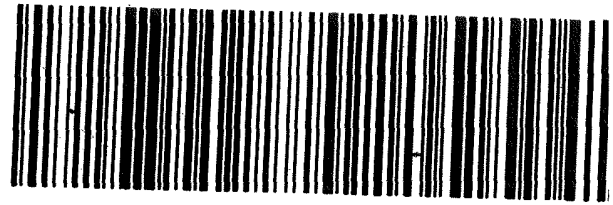
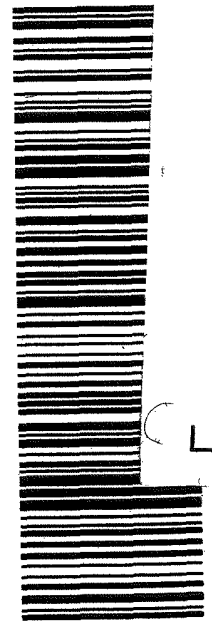
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3 of 3
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500-207904 Wayb

ORIGIN ID:FEPA (262) 781-0475

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414 PLAZA DR STE 106

WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 04NOV21
ACTWGT: 35.95 LB
CAD: 6994085/SSFE2220
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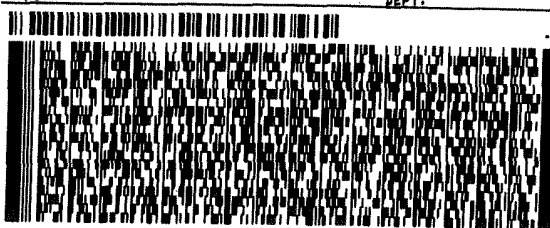
2417 BOND ST

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3 of 4

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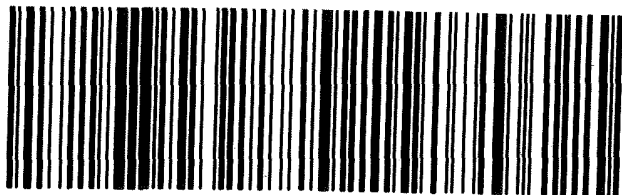
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414 PLAZA DR STE 106

WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 04NOV21
ACTWGT: 35.95 LB
CAD: 6994085/SSFE2220
DIMS: 24x13x14 IN

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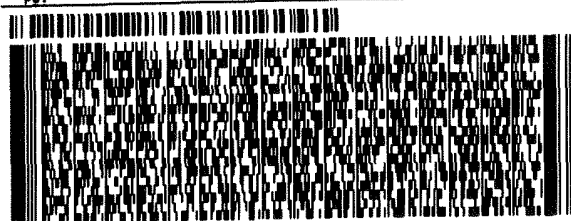
2417 BOND ST

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Part #: 156297-4834444/2102

2 of 4

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0263

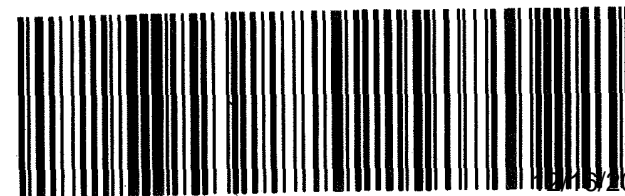
Mstr# 2857 4034 9842

0201

79 JOTA

FRI - 05 NOV 11:30A
PRIORITY OVERNIGHT

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Chain of Custody Record



Client Information (Sub Contract Lab) Client Contact: Shipping/Receiving Company: TestAmerica Laboratories, Inc. Address: 13715 Rider Trail North, Earth City, MO 63045 Phone: 314-298-8566(Tel) 314-298-8757(Fax) Email: Project Name: Waukegan CCR Site: NRG Midwest Generation Waukegan		Lab PM: Mockler, Diana J E-Mail: Diana.Mockler@Eurofinset.com Accreditations Required (See note): NELAP - Illinois		Carrier Tracking No(s): 500-154086.1 State of Origin: Illinois Page: Page 1 of 1 Job #: 500-207904-2	
Due Date Requested: 12/9/2021 TAT Requested (days): PO #: WO #: Project #: 50011597 SSO#:		Analysis Requested			
Sample Date Sample Time Sample Type (C=comp, G=grab) Matrix (Water, Swab, Other) Preservation Code:		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 903.0/PreSep_21 Standard Target List 904.0/PreSep_0 Standard Target List Ra226Ra228_GFPc		Total Number of Containers	
MW-01 (500-207904-1) MW-02 (500-207904-2) MW-03 (500-207904-3) MW-04 (500-207904-4)		X X X X X X X X X X X X		3 3 3 3	
Special Instructions/Note: Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume; Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume; Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume; Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;					

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

Possible Hazard Identification
 Return To Client Dispose By Lab Archive For _____ Months
 Special Instructions/QC Requirements:

Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify)
 Primary Deliverable Rank: 2
 Empty Kit Relinquished by: _____ Date: _____
 Relinquished by: *Stephanie Hammond* Date/Time: 11/14/21 10:30
 Relinquished by: FEDEX Date/Time: 11/15/21 13:39
 Relinquished by: *Julie M...* Date/Time: _____
 Custody Seals Intact: _____ Cooler Temperature(s) °C and Other Remarks: _____
 Yes Δ No



Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler:		Lab PM:		Carrier Tracking No(s):		COC No:		
Shipping/Receiving Company: TestAmerica Laboratories, Inc.		Phone:		Mockler, Diana J		State of Origin: Illinois		500-154099.1		
Address: 13715 Rider Trail North, Earth City, MO, 63045		Due Date Requested: 11/25/2021		E-Mail: Diana.Mockler@Eurofins.com		Page: 1 of 1		Job #: 500-207904-2		
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		TAT Requested (days):		Accreditations Required (See note): NELAP - Illinois		Preservation Codes:		M - Hexane N - None O - AsNaO2 P - Na2OAS Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 L - EDTA Z - other (specify)		
Email:		PO #:		Project #:		Field Filtered Sample (Yes or No)		903.0/PreSep_21 Standard Target List		
Project Name: Waukegan CCR		WO #:		50011597		Perform MS/MSD (Yes or No)		904.0/PreSep_0 Standard Target List		
Site: NRG Midwest Generation Waukegan		SSOW#:				Preservation Code:		R226Ra228_GFPc		
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (w/water, s/solid, o/water/oil, BT-Issue, A-A)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PreSep_21 Standard Target List	904.0/PreSep_0 Standard Target List	Total Number of Containers	Special Instructions/Note:
MW-09 (500-207904-5)	11/4/21	13:24 Central	Water	Water	X	X	X	X	3	Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;
MW-11 (500-207904-6)	11/4/21	11:09 Central	Water	Water	X	X	X	X	3	Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;
MW-14 (500-207904-7)	11/4/21	12:20 Central	Water	Water	X	X	X	X	3	Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;
MW-16 (500-207904-8)	11/4/21	14:28 Central	Water	Water	X	X	X	X	3	Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;
Duplicate (500-207904-9)	11/4/21	Central	Water	Water	X	X	X	X	3	Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;

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

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2
 Empty Kit Relinquished by: _____ Date: _____
 Relinquished by: *Stephanie Hernandez* Date/Time: 11/5/21 1630
 Relinquished by: *Michael Keminwaga* Date/Time: NOV 08 2021
 Relinquished by: _____ Date/Time: _____
 Custody Seals Intact: Yes 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: _____

Received by: **FED EX**
 Received by: *Michael Keminwaga*
 Date/Time: 09:05
 Date/Time: NOV 08 2021
 Company: *ETA S2L*



Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-207904-2

Login Number: 207904

List Source: Eurofins TestAmerica, Chicago

List Number: 1

Creator: James, Jeff A

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	0.1,0.8,-0.9,1.2,0.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <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: 500-207904-2

Login Number: 207904

List Number: 2

Creator: Mazariegos, Leonel A

List Source: Eurofins TestAmerica, St. Louis

List Creation: 11/05/21 06:45 PM

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



Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-207904-2

Login Number: 207904

List Number: 3

Creator: Korrinhizer, Micha L

List Source: Eurofins TestAmerica, St. Louis

List Creation: 11/08/21 02:23 PM

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



Lab Chronicle

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

Job ID: 500-207904-2

Client Sample ID: MW-01

Date Collected: 11/03/21 12:23

Date Received: 11/04/21 10:10

Lab Sample ID: 500-207904-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			536245	11/12/21 09:23	LPS	TAL SL
Total/NA	Analysis	903.0		1	540407	12/06/21 13:28	ANW	TAL SL
Total/NA	Prep	PrecSep_0			536394	11/12/21 10:48	LPS	TAL SL
Total/NA	Analysis	904.0		1	539784	12/01/21 14:14	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	542342	12/15/21 17:45	EMH	TAL SL

Client Sample ID: MW-02

Date Collected: 11/03/21 13:22

Date Received: 11/04/21 10:10

Lab Sample ID: 500-207904-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			536245	11/12/21 09:23	LPS	TAL SL
Total/NA	Analysis	903.0		1	540407	12/06/21 13:28	ANW	TAL SL
Total/NA	Prep	PrecSep_0			536394	11/12/21 10:48	LPS	TAL SL
Total/NA	Analysis	904.0		1	539784	12/01/21 14:15	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	542342	12/15/21 17:45	EMH	TAL SL

Client Sample ID: MW-03

Date Collected: 11/03/21 14:24

Date Received: 11/04/21 10:10

Lab Sample ID: 500-207904-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			536245	11/12/21 09:23	LPS	TAL SL
Total/NA	Analysis	903.0		1	540407	12/06/21 13:29	ANW	TAL SL
Total/NA	Prep	PrecSep_0			536394	11/12/21 10:48	LPS	TAL SL
Total/NA	Analysis	904.0		1	539784	12/01/21 14:15	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	542342	12/15/21 17:45	EMH	TAL SL

Client Sample ID: MW-04

Date Collected: 11/03/21 15:24

Date Received: 11/04/21 10:10

Lab Sample ID: 500-207904-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			536245	11/12/21 09:23	LPS	TAL SL
Total/NA	Analysis	903.0		1	540407	12/06/21 13:29	ANW	TAL SL
Total/NA	Prep	PrecSep_0			536394	11/12/21 10:48	LPS	TAL SL
Total/NA	Analysis	904.0		1	539784	12/01/21 14:15	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	542342	12/15/21 17:45	EMH	TAL SL

Lab Chronicle

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

Job ID: 500-207904-2

Client Sample ID: MW-09

Date Collected: 11/04/21 13:24

Date Received: 11/05/21 09:55

Lab Sample ID: 500-207904-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			536245	11/12/21 09:23	LPS	TAL SL
Total/NA	Analysis	903.0		1	540407	12/06/21 13:29	ANW	TAL SL
Total/NA	Prep	PrecSep_0			536394	11/12/21 10:48	LPS	TAL SL
Total/NA	Analysis	904.0		1	539784	12/01/21 14:15	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	542342	12/15/21 17:45	EMH	TAL SL

Client Sample ID: MW-11

Date Collected: 11/04/21 11:09

Date Received: 11/05/21 09:55

Lab Sample ID: 500-207904-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			536245	11/12/21 09:23	LPS	TAL SL
Total/NA	Analysis	903.0		1	540406	12/06/21 13:32	ANW	TAL SL
Total/NA	Prep	PrecSep_0			536394	11/12/21 10:48	LPS	TAL SL
Total/NA	Analysis	904.0		1	539996	12/01/21 14:17	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	542342	12/15/21 17:45	EMH	TAL SL

Client Sample ID: MW-14

Date Collected: 11/04/21 12:20

Date Received: 11/05/21 09:55

Lab Sample ID: 500-207904-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			536245	11/12/21 09:23	LPS	TAL SL
Total/NA	Analysis	903.0		1	540406	12/06/21 13:32	ANW	TAL SL
Total/NA	Prep	PrecSep_0			536394	11/12/21 10:48	LPS	TAL SL
Total/NA	Analysis	904.0		1	539996	12/01/21 14:17	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	542342	12/15/21 17:45	EMH	TAL SL

Client Sample ID: MW-16

Date Collected: 11/04/21 14:28

Date Received: 11/05/21 09:55

Lab Sample ID: 500-207904-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			536245	11/12/21 09:23	LPS	TAL SL
Total/NA	Analysis	903.0		1	540406	12/06/21 13:32	ANW	TAL SL
Total/NA	Prep	PrecSep_0			536394	11/12/21 10:48	LPS	TAL SL
Total/NA	Analysis	904.0		1	539996	12/01/21 14:17	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	542342	12/15/21 17:45	EMH	TAL SL

Lab Chronicle

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

Job ID: 500-207904-2

Client Sample ID: Duplicate

Lab Sample ID: 500-207904-9

Date Collected: 11/04/21 00:00

Matrix: Water

Date Received: 11/05/21 09:55

<u>Prep Type</u>	<u>Batch Type</u>	<u>Batch Method</u>	<u>Run</u>	<u>Dilution Factor</u>	<u>Batch Number</u>	<u>Prepared or Analyzed</u>	<u>Analyst</u>	<u>Lab</u>
Total/NA	Prep	PrecSep-21			536245	11/12/21 09:23	LPS	TAL SL
Total/NA	Analysis	903.0		1	540406	12/06/21 13:33	ANW	TAL SL
Total/NA	Prep	PrecSep_0			536394	11/12/21 10:48	LPS	TAL SL
Total/NA	Analysis	904.0		1	539996	12/01/21 14:17	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	542342	12/15/21 17:45	EMH	TAL SL

Laboratory References:

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



Accreditation/Certification Summary

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

Job ID: 500-207904-2

Laboratory: Eurofins TestAmerica, 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

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Tracer/Carrier Summary

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

Job ID: 500-207904-2

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)		
500-207904-1	MW-01	81.5		
500-207904-1 DU	MW-01	63.5		
500-207904-2	MW-02	90.4		
500-207904-3	MW-03	91.1		
500-207904-4	MW-04	88.9		
500-207904-5	MW-09	91.6		
500-207904-6	MW-11	86.8		
500-207904-7	MW-14	76.5		
500-207904-8	MW-16	92.4		
500-207904-9	Duplicate	92.7		
LCS 160-536245/1-A	Lab Control Sample	87.6		
MB 160-536245/25-A	Method Blank	91.4		
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)		
500-207904-1	MW-01	81.5	89.3		
500-207904-1 DU	MW-01	63.5	87.9		
500-207904-2	MW-02	90.4	88.2		
500-207904-3	MW-03	91.1	87.5		
500-207904-4	MW-04	88.9	89.3		
500-207904-5	MW-09	91.6	90.8		
500-207904-6	MW-11	86.8	90.8		
500-207904-7	MW-14	76.5	89.7		
500-207904-8	MW-16	92.4	90.1		
500-207904-9	Duplicate	92.7	92.0		
LCS 160-536394/1-A	Lab Control Sample	87.6	82.2		
MB 160-536394/25-A	Method Blank	91.4	83.7		
Tracer/Carrier Legend					
Ba = Ba Carrier					
Y = Y Carrier					