

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 2nd quarter 2025 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. It is noted that verification sampling for an anomalously high Combined Radium 226+228 result at MW-11 will be completed in the first half of July 2025.

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

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

Well	Date	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved Solids	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Radium 226 + 228 Combined	Selenium	Thallium	Turbidity	
MW-09 up-gradient	1/4/2015	13	210	450	0.14	6.60	370	1700	< 0.0030	< 0.0010	0.015	^< 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	0.081	< 0.00020	0.26	0.1818	< 0.0025	< 0.0020	NA	
	3/2/2016	35	380	720	0.11	7.02	970	2800	< 0.0030	0.060	0.050	< 0.0010	< 0.0050	0.043	< 0.0010	0.00061	0.094	< 0.00020	0.51	< 0.360	0.025	< 0.0020	NA	
	5/3/2016	16	310	620	0.12	7.02	740	2500	< 0.0030	0.0014	0.025	< 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	0.083	< 0.00020	0.63	< 0.512	0.024	< 0.0020	NA	
	8/25/2016	4.5	130	270	0.21	7.13	190	1100	0.0041	0.042	0.024	< 0.0010	0.0011	0.056	0.0027	0.0012	0.049	< 0.00020	0.063	0.482	0.039	< 0.0020	NA	
	12/8/2016	15	200	330	0.18	7.01	270	1300	< 0.0030	0.0040	0.016	< 0.0010	0.0052	< 0.0050	< 0.0010	< 0.00050	0.077	< 0.00020	0.24	< 0.720	0.038	< 0.0020	NA	
	2/23/2017	14	190	290	0.12	7.68	320	1300	< 0.0030	0.0027	0.014	< 0.0010	< 0.0050	0.059	0.0018	< 0.00050	0.068	< 0.00020	0.26	< 0.461	0.016	< 0.0020	NA	
	5/16/2017	27	970	67	0.29	8.15	420	970	< 0.0030	< 0.0010	0.0094	^< 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	0.045	< 0.00020	0.51	< 0.342	0.0085	< 0.0020	NA	
	7/6/2017	21	220	430	0.13	7.18	610	1800	< 0.0030	0.0020	0.019	< 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	0.089	< 0.00020	0.31	< 0.316	0.021	< 0.0020	NA	
	9/13/2017	21	250	420	0.14	7.17	520	1800	< 0.0030	0.0067	0.018	< 0.0010	< 0.0050	0.052	0.0017	< 0.00050	0.069	< 0.00020	0.33	< 0.944	0.0041	< 0.0020	NA	
	11/29/2017	26	200	390	0.13	7.05	390	1600	< 0.0030	0.0017	0.015	^< 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	0.086	< 0.00020	0.47	< 0.625	0.042	< 0.0020	NA	
	5/31/2018	32	200	29	0.10	6.85	490	1000	NA	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	NA
	5/15/2019	26	120	260	0.13	7.53	31	1000	< 0.0030	< 0.0010	0.0073	< 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	0.035	< 0.00020	0.54	< 0.433	< 0.0025	< 0.0020	NA	
	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	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	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	NA
	5/6/2021	31	170	35	0.12	7.51	420	910	< 0.0030	< 0.0010	0.0075	< 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	0.040	< 0.00020	0.47	< 0.614	0.023	< 0.0020	3.44	
	8/19/2021	7.2	150	170	0.13	7.01	210	350	< 0.0030	0.0019	0.015	< 0.0010	< 0.0050	< 0.0050	^+< 0.0010	0.0015	0.066	< 0.00020	0.12	< 0.457	0.071	^+< 0.0020	77.36	
	11/4/2021	10	150	160	0.24	7.07	180	980	< 0.0030	0.0026	0.074	^+< 0.0010	< 0.0050	< 0.0050	0.0011	< 0.00050	0.060	< 0.00020	0.12	< 0.775	0.097	< 0.0020	12.66	
	2/10/2022	9.5	190	220	0.17	7.11	270	1300	< 0.0030	0.015	0.033	< 0.0010	< 0.0076	< 0.0050	0.0038	< 0.00050	0.065	< 0.00020	0.21	< 0.523	0.036	< 0.0020	34.39	
	5/24/2022	5.3	150	180	0.23	7.15	200	940	< 0.0030	0.0019	0.020	^+< 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	0.054	< 0.00020	0.18	< 0.444	< 0.0025	< 0.0020	170.87	
	8/23/2022	12	170	170	0.20	7.14	290	1100	< 0.0030	0.0012	0.046	^+< 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	0.048	< 0.00020	0.21	< 0.487	0.034	< 0.0020	34.90	
	11/7/2022	6.4	160	200	0.51	6.98	220	1100	< 0.0030	0.0083	0.14	^+< 0.0010	< 0.0050	< 0.0050	0.0013	0.0034	0.057	< 0.00020	0.088	2.58	< 0.0025	< 0.0020	195.02	
	12/21/2022 (R)	NS	NS	NS	0.40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2/14/2023	B 2.8	280	220	0.12	6.97	490	1500	< 0.0030	0.0011	0.074	< 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	0.062	< 0.00020	0.46	1.01	0.029	< 0.0020	20.46	
	5/9/2023	4.7	140	220	0.23	7.08	200	890	< 0.0030	0.0011	0.021	^+< 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	0.045	< 0.00020	0.15	< 0.557	< 0.0025	< 0.0020	9.34	
	8/8/2023	^+ 20	270	380	0.23	6.98	510	1800	< 0.0030	0.0021	0.11	< 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	0.062	< 0.00020	0.35	0.754	0.022	< 0.0020	18.85	
	11/28/2023	2.6	96	170	0.33	7.15	130	750	< 0.0030	0.0071	0.061	^+< 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	0.053	< 0.00020	0.049	0.652	< 0.0025	< 0.0020	27.24	
	2/6/2024	24	240	150	0.18	6.88	460	1300	^+< 0.0030	0.0035	0.12	< 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	< 0.20	< 0.00020	0.32	1.09	0.070	< 0.0020	147.43	
	5/21/2024	2.3	120	180	0.37	7.12	130	860	< 0.0030	0.027	0.13	< 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	0.047	< 0.00020	0.074	0.768	< 0.0025	< 0.0020	105.62	
	8/13/2024	8.5	130	91	0.34	7.08	200	860	< 0.0030	0.0062	0.085	< 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	0.045	< 0.00020	0.14	1.10	< 0.0025	< 0.0020	10.56	
	11/12/2024	2.8	130	170	0.32	7.12	130	870	< 0.0030	0.013	0.11	< 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	0.047	< 0.00020	0.055	0.92	< 0.0025	< 0.0020	15.83	
	2/4/2025	2.9	130	160	0.27	7.16	180	890	< 0.0030	0.0077	0.070	^+< 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	^5- 0.051	< 0.00020	0.053	< 0.507	< 0.0025	< 0.0020	7.13	
5/12/2025	2.3	130	150	0.29	7.04	140	700	< 0.0030	0.012	0.095	< 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	0.040	< 0.00020	0.043	0.914	< 0.0025	< 0.0020	19.45		
MW-11 up-gradient	11/5/2015	5.2	140	240	0.13	6.51	190	1100	< 0.0030	0.77	0.039	^< 0.0010	< 0.0050	< 0.0050	< 0.0010	0.0010	0.055	< 0.00020	< 0.0050	0.656	< 0.0025	< 0.0020	NA	
	3/2/2016	4.0	170	240	0.10	7.16	210	1200	< 0.0030	0.55	0.048	< 0.0010	< 0.0050	< 0.0050	< 0.0010	0.0011	0.049	< 0.00020	< 0.0050	1.09	< 0.0025	< 0.0020	NA	
	5/5/2016	5.0	140	280	0.11	7.17	160	1000	< 0.0030	0.51	0.038	< 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	0.057	< 0.00020	< 0.0050	1.24	< 0.0025	< 0.0020	NA	
	8/26/2016	3.5	180	240	0.13	6.97	110	1100	< 0.0030	1.1	0.050	< 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	0.055	< 0.00020	< 0.0050	1.04	< 0.0025	< 0.0020	NA	
	12/7/2016	3.0	170	270	0.12	7.06	110	1200	< 0.0030	0.87	0.049	< 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	0.038	< 0.00020	< 0.0050	1.87	< 0.0025	< 0.0020	NA	
	2/24/2017	2.4	180	220	0.12	6.61	170	1200	< 0.0030	0.58	0.047	< 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	0.039	< 0.00020	< 0.0050	0.982	< 0.0025	< 0.0020	NA	
	5/18/2017	1.8	160	170	0.12	7.42	120	1000	< 0.0030	0.50	0.047	^< 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	0.036	< 0.00020	< 0.0050	1.31	< 0.0025	< 0.0020	NA	
	7/6/2017	2.4	160	190	0.14	7.33	130	1100	< 0.0030	0.69	0.056	< 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	0.041	< 0.00020	< 0.0050	0.889	< 0.0025	< 0.0020	NA	
	9/13/2017	1.9	140	150	0.26	7.16	96	870	< 0.0030	0.86	0.060	< 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	0.037	< 0.00020	0.054	0.718	< 0.0025	< 0.0020	NA	
	11/30/2017	2.2	170	200	0.14	6.99	93	1100	< 0.0030	0.59	0.050	^< 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	0.041	<						

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

Well	Date	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved Solids	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Radium 226 + 228 Combined	Selenium	Thallium	Turbidity	
MW-01 down-gradient	11/2/2015	1.8	64	71	0.46	10.93	310	560	< 0.0030	0.074	0.025	^ < 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.040	0.0683	0.0047	< 0.0020	NA	
	3/1/2016	V 1.9	58	63	0.26	11.13	270	570	< 0.0030	0.10	0.026	< 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.059	< 0.317	< 0.0025	< 0.0020	NA	
	5/4/2016	2.0	45	60	0.30	11.09	210	490	< 0.0030	0.11	0.017	< 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.069	< 0.40	< 0.0025	< 0.0020	NA	
	8/23/2016	2.0	42	60	0.26	10.49	240	550	< 0.0030	0.074	0.012	< 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.065	< 0.478	0.0042	< 0.0020	NA	
	12/5/2016	2.2	55	65	0.34	10.46	180	560	< 0.0030	0.13	0.017	< 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.070	< 0.465	0.0025	< 0.0020	NA	
	2/21/2017	2.2	50	61	0.29	11.30	250	540	< 0.0030	0.15	0.016	< 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.069	0.516	< 0.0025	< 0.0020	NA	
	5/15/2017	2.1	52	59	0.37	10.69	330	570	< 0.0030	0.14	0.017	^ < 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.062	< 0.424	0.0036	< 0.0020	NA	
	7/5/2017	2.3	44	51	0.34	10.83	320	570	< 0.0030	0.066	0.014	< 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.059	< 0.289	0.0095	< 0.0020	NA	
	9/14/2017	2.4	71	47	0.24	10.45	430	770	< 0.0030	0.040	0.033	< 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.047	< 0.383	0.0096	< 0.0020	NA	
	11/27/2017	2.7	84	43	0.11	7.85	330	840	< 0.0030	0.021	0.055	^ < 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.034	0.568	0.0230	< 0.0020	NA	
	5/29/2018	2.4	54	58	0.33	8.44	350	610	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/5/2018	2.0	38	43	0.25	8.70	210	630	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/14/2019	2.2	56	45	0.18	9.85	250	560	< 0.0030	0.067	0.032	< 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.053	0.36	< 0.0025	< 0.0020	NA	
	11/19/2019	2.3	38	39	0.24	10.58	240	530	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4/21/2020	2.8	55	25	0.22	9.40	240	470	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/17/2020	3.3	120	95	0.14	7.97	250	640	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/5/2021	< 5.0	66	67	0.22	9.00	180	430	< 0.0030	0.025	0.040	< 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.016	< 0.602	< 0.0025	< 0.0020	1.42	
	8/18/2021	2.7	72	60	0.17	8.31	170	430	< 0.0030	0.023	0.044	< 0.0010	< 0.0050	< 0.0050	^+ < 0.0010	< 0.00050	< 0.010	< 0.00020	0.021	< 0.471	< 0.0025	^+ < 0.0020	2.33	
	11/3/2021	2.9	67	60	0.22	8.56	180	440	< 0.0030	0.024	0.040	< 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.026	< 0.553	< 0.0025	< 0.0020	3.05	
	2/8/2022	3.1	62	42	0.27	8.67	230	530	< 0.0030	0.023	0.037	< 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.030	< 0.408	< 0.0025	< 0.0020	4.60	
	5/23/2022	3.3	94	34	0.20	7.77	200	490	< 0.0030	0.018	0.053	^+ < 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.026	< 0.434	< 0.0025	< 0.0020	2.92	
	8/22/2022	2.8	52	43	0.34	8.30	190	430	< 0.0030	0.023	0.027	^+ < 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.032	0.698	< 0.0025	< 0.0020	1.31	
	11/7/2022	3.0	59	48	0.43	8.45	180	460	< 0.0030	0.024	0.030	^+ < 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.026	0.944	< 0.0025	< 0.0020	41.21	
	2/13/2023	2.6	46	63	0.24	8.58	170	440	< 0.0030	0.023	0.026	< 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.027	< 0.529	< 0.0025	< 0.0020	2.90	
	5/8/2023	2.1	45	54	0.39	8.87	160	370	< 0.0030	0.022	0.027	^+ < 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.023	< 0.507	< 0.0025	< 0.0020	3.21	
	8/7/2023	^+ 1.8	46	50	0.40	9.08	150	340	< 0.0030	0.022	0.027	< 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.020	< 0.474	< 0.0025	< 0.0020	3.15	
	11/27/2023	1.6	54	61	0.31	9.00	140	390	< 0.0030	0.023	0.033	^+ < 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.018	< 0.560	< 0.0025	< 0.0020	3.74	
	2/5/2024	2.3	58	70	0.34	8.57	170	550	^+ < 0.0030	0.022	0.033	^+ < 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	< 0.10	< 0.00020	0.018	0.684	< 0.0025	< 0.0020	5.07	
	5/20/2024	2.3	110	91	0.20	7.57	210	650	< 0.0030	0.017	0.068	< 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.017	< 0.531	< 0.0025	< 0.0020	4.72	
	8/12/2024	1.8	63	81	0.28	8.65	170	460	< 0.0030	0.019	0.035	< 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.021	< 0.606	< 0.0025	< 0.0020	6.80	
	11/11/2024	2.4	94	82	0.22	7.40	190	550	< 0.0030	0.012	0.053	< 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.025	< 0.516	0.0036	< 0.0020	2.25	
	2/3/2025	1.8	66	75	0.24	7.67	160	420	< 0.0030	0.019	0.037	< 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.025	< 0.403	< 0.0025	< 0.0020	4.31	
5/12/2025	2.2	63	82	0.26	7.66	160	450	< 0.0030	0.013	0.037	< 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.018	< 0.0771	0.0046	< 0.0020	4.02		
MW-02 down-gradient	11/2/2015	3.0	32	47	0.78	8.27	230	460	< 0.0030	0.014	0.016	^ < 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.0630	0.4628	< 0.0025	< 0.0020	NA	
	3/1/2016	4.1	39	47	1.3	8.57	220	510	< 0.0030	0.011	0.020	< 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.078	0.529	< 0.0025	< 0.0020	NA	
	5/4/2016	3.3	34	51	1.5	8.19	180	440	< 0.0030	0.0881	0.018	< 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.069	< 0.425	< 0.0025	< 0.0020	NA	
	8/23/2016	3.1	42	59	1.3	7.52	250	500	< 0.0030	0.0882	0.016	< 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.056	< 0.439	< 0.0025	< 0.0020	NA	
	12/5/2016	3.1	28	56	1.0	8.62	160	430	< 0.0030	0.018	0.015	< 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.071	< 0.509	< 0.0025	< 0.0020	NA	
	2/21/2017	3.3	31	52	0.76	8.75	190	420	< 0.0030	0.028	0.012	< 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.051	< 0.416	0.0038	< 0.0020	NA	
	5/15/2017	3.6	85	48	0.64	8.33	320	640	< 0.0030	0.020	0.029	^ < 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.047	0.425	< 0.0025	< 0.0020	NA	
	7/5/2017	4.2	100	52	0.42	7.92	300	710	< 0.0030	0.0094	0.031	< 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.047	< 0.395	0.0170	< 0.0020	NA	
	9/14/2017	2.5	87	54	0.44	8.19	340	780	< 0.0030	0.012	0.035	< 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.049	0.769	0.0052	< 0.0020	NA	
	11/27/2017	3.4	69	57	0.62	7.34	200	470	< 0.0030	0.011	0.022	^ < 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.048	< 0.442	< 0.0025	< 0.0020	NA	

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

Well	Date	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved Solids	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Radium 226 + 228 Combined	Selenium	Thallium	Turbidity	
MW-04 down-gradient	11/3/2015	1.8	66	62	0.51	6.68	240	480	< 0.0030	0.0066	0.032	^ < 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.031	0.2732	< 0.0025	< 0.0020	NA	
	3/1/2016	2.0	58	51	0.50	7.17	170	450	< 0.0030	0.0083	0.033	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.048	0.478	< 0.0025	< 0.0020	NA	
	5/4/2016	1.6	44	49	0.61	6.92	140	340	< 0.0030	0.0083	0.037	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.046	< 0.542	< 0.0025	< 0.0020	NA	
	8/24/2016	2.0	46	58	0.56	7.01	120	370	< 0.0030	0.010	0.019	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.049	< 0.461	< 0.0025	< 0.0020	NA	
	12/5/2016	3.4	200	60	0.21	7.40	300	1000	< 0.0030	0.019	0.13	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.10	1.04	0.020	< 0.0020	NA	
	2/22/2017	2.4	150	41	0.17	7.44	290	850	< 0.0030	0.036	0.093	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.015	0.886	0.0042	< 0.0020	NA	
	5/16/2017	2.5	170	29	0.32	7.94	400	970	< 0.0030	0.024	0.072	^ < 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.017	0.550	0.032	< 0.0020	NA	
	7/5/2017	3.6	200	51	0.29	7.09	520	1100	< 0.0030	0.0034	0.076	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.017	0.515	0.062	< 0.0020	NA	
	9/14/2017	2.5	180	45	0.28	7.04	480	1100	< 0.0030	0.0028	0.076	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.021	0.794	0.026	< 0.0020	NA	
	11/28/2017	2.3	110	32	0.28	7.04	130	560	< 0.0030	0.0027	0.053	^ < 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.032	0.872	0.0069	< 0.0020	NA	
	5/30/2018	3.0	150	21	0.38	6.57	200	700	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/6/2018	2.5	150	58	0.37	6.83	240	900	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/14/2019	3.3	100	58	0.64	7.30	200	730	< 0.0030	0.0026	0.039	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.070	0.690	0.0040	< 0.0020	NA	
	11/19/2019	2.9	120	44	0.75	7.27	270	680	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4/21/2020	2.9	100	33	0.90	7.18	290	670	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/18/2020	3.1	100	18	1.1	7.17	250	690	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/5/2021	3.3	75	17	0.91	7.46	190	530	< 0.0030	0.0069	0.032	< 0.0010	< 0.00050	< 0.0050	^+ < 0.0010	< 0.00050	< 0.010	< 0.00020	0.056	< 0.781	0.0041	< 0.0020	1.77	
	8/18/2021	3.0	92	39	0.80	7.45	200	590	< 0.0030	0.0052	0.041	< 0.0010	< 0.00050	< 0.0050	^+ < 0.0010	< 0.00050	< 0.010	< 0.00020	0.045	0.523	< 0.0025	^+ < 0.0020	40.61	
	11/3/2021	2.7	67	50	0.99	7.36	150	550	< 0.0030	0.0094	0.037	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	^+ < 0.0010	< 0.00020	0.040	0.572	< 0.0025	< 0.0020	4.26	
	2/8/2022	3.1	110	38	0.66	7.61	190	660	< 0.0030	0.024	0.057	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.0076	< 0.00020	0.014	1.21	< 0.0025	< 0.0020	13.32	
	5/23/2022	2.5	81	41	0.61	8.05	150	510	< 0.0030	0.012	0.038	^+ < 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.019	0.598	< 0.0025	< 0.0020	28.94	
	8/22/2022	FI 3.1	100	31	0.55	7.82	230	660	< 0.0030	0.043	0.070	^+ < 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.025	0.618	0.011	< 0.0020	2.57	
	11/7/2022	2.7	63	33	0.62	7.47	180	450	< 0.0030	0.0073	0.026	^+ < 0.0010	< 0.00050	< 0.0050	< 0.0010	0.0048	< 0.010	< 0.00020	0.026	1.85	< 0.0025	< 0.0020	41.15	
	2/13/2023	2.8	110	28	0.36	7.58	210	610	< 0.0030	0.0083	0.045	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.021	0.489	0.0062	< 0.0020	3.76	
	5/9/2023	2.3	100	59	0.38	7.16	250	560	< 0.0030	0.0073	0.049	^+ < 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.034	< 0.549	0.0072	< 0.0020	15.03	
	8/8/2023	^+ 2.5	58	63	0.40	7.81	150	400	< 0.0030	0.0088	0.026	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.041	0.807	< 0.0025	< 0.0020	2.54	
	11/27/2023	2.4	44	58	0.37	7.63	130	360	< 0.0030	0.0089	0.023	^+ < 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.062	0.642	< 0.0025	< 0.0020	4.22	
	2/5/2024	2.7	74	45	0.46	7.33	130	430	^+ < 0.0030	0.0078	0.034	^+ < 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	< 0.10	< 0.00020	0.037	< 0.474	0.0081	< 0.0020	3.73	
	5/21/2024	2.2	64	58	0.40	7.59	130	450	< 0.0030	0.0060	0.028	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.041	< 0.526	0.0045	< 0.0020	5.67	
	8/12/2024	3.2	210	55	0.35	6.89	420	1200	< 0.0030	0.0033	0.076	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.026	< 0.821	0.020	< 0.0020	6.33	
	11/11/2024	2.7	50	65	0.41	7.58	170	410	< 0.0030	0.011	0.026	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.070	< 0.632	< 0.0025	< 0.0020	3.79	
	2/5/2025	2.6	46	88	0.30	8.30	160	460	< 0.0030	0.012	0.025	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.077	< 0.142	< 0.0025	< 0.0020	6.70	
	5/12/2025	2.3	26	68	0.67	8.60	150	200	< 0.003	0.0092	0.014	< 0.0010	< 0.0005	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.044	< 0.276	0.0042	< 0.0020	3.85	
MW-16 down-gradient	11/3/2015	4.1	230	87	0.43	6.24	610	1400	< 0.0030	0.010	0.047	^ < 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	< 0.071	< 0.00020	0.021	0.865	0.0074	< 0.0020	NA	
	3/2/2016	3.1	360	130	0.35	6.76	990	1700	< 0.0030	0.0015	0.035	< 0.0010	0.0010	< 0.0050	< 0.0010	< 0.00050	0.13	< 0.00020	0.013	< 0.396	0.0052	< 0.0020	NA	
	5/2/2016	4.9	250	150	0.49	6.99	620	1600	< 0.0030	0.0011	0.052	< 0.0010	0.0053	< 0.0050	< 0.0010	< 0.00050	0.024	< 0.00020	0.014	0.696	< 0.0025	< 0.0020	NA	
	8/24/2016	3.6	130	53	0.71	7.00	330	830	< 0.0030	< 0.0010	0.028	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.014	< 0.00020	0.022	< 0.462	< 0.0025	< 0.0020	NA	
	12/5/2016	3.8	160	52	0.51	7.03	280	920	< 0.0030	0.0062	0.062	< 0.0010	< 0.00050	< 0.0050	0.0012	0.00054	0.011	< 0.00020	0.021	0.791	< 0.0025	< 0.0020	NA	
	2/24/2017	6.5	200	67	0.2	5.76	570	1100	< 0.0030	0.027	0.067	< 0.0010	< 0.00050	0.0050	0.0011	< 0.00050	0.012	< 0.00020	0.023	0.540	0.0037	< 0.0020	NA	
	5/16/2017	2.6	340	130	0.15	7.57	760	1700	< 0.0030	0.043	0.045	^ < 0.0010	0.0043	0.0076	< 0.0010	< 0.00050	0.13	< 0.00020	0.016	0.441	0.016	< 0.0020	NA	
	7/6/2017	9.5	190	70	0.57	7.35	480	1100	< 0.0030	0.0039	0.029	< 0.0010	0.0069	< 0.0050	< 0.0010	< 0.00050	0.017	< 0.00020	0.017	< 0.382	< 0.0025	< 0.0020	NA	
	9/13/2017	2.8	190	55	0.61	7.33	460	970	< 0.0030	< 0.0010	0.024	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.024	< 0.335	< 0.0025	< 0.0020	NA	
	11/27/2017	4.2	140	58	0.71	7.16	270	760	< 0.0030	0.0031	0.026	^ < 0.0010	0.010	< 0.0050	< 0.0010	< 0.00050	0.010	< 0.00020	0.026	0.557	< 0.0025	< 0.0020	NA	
	6/1/2018	3.0																						

 **ANALYTICAL REPORT****PREPARED FOR**

Attn: Richard Gnat
KPRG and Associates, Inc.
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Generated 5/25/2025 8:19:25 AM

JOB DESCRIPTION

Waukegan CCR

JOB NUMBER

500-268206-1

Eurofins Chicago

Job Notes

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Authorization



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Case Narrative

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

Job ID: 500-268206-1

Job ID: 500-268206-1

Eurofins Chicago

Job Narrative 500-268206-1

Receipt

The samples were received on 5/13/2025 9:15 AM, 5/14/2025 9:20 AM and 5/15/2025 9:40 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 2.3°C, 5.2°C and 5.9°C.

Metals

Method 6020B - Total Recoverable: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-16 (500-268206-6) and Duplicate (500-268206-7). Elevated reporting limits (RLs) are provided.

Method 6020B - Total Recoverable: The initial low level calibration verification (ICVL) result for batch 500-818344 was above the upper control limit. The affected analyte is: Beryllium. Sample results were non-detects, and have been reported as qualified data.

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

General Chemistry

Method SM4500_SO4_E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 500-818457 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

Eurofins Chicago

Method Summary

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

Job ID: 500-268206-1

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

Protocol References:

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

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

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

Sample Summary

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

Job ID: 500-268206-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-268206-1	MW-01	Water	05/12/25 12:10	05/13/25 09:15
500-268206-2	MW-02	Water	05/12/25 13:07	05/13/25 09:15
500-268206-3	MW-03	Water	05/12/25 14:29	05/13/25 09:15
500-268206-4	MW-04	Water	05/12/25 15:23	05/13/25 09:15
500-268206-5	MW-09	Water	05/13/25 11:25	05/14/25 09:20
500-268206-6	MW-16	Water	05/13/25 10:00	05/14/25 09:20
500-268206-7	Duplicate	Water	05/13/25 00:00	05/14/25 09:20
500-268206-8	MW-11	Water	05/14/25 14:44	05/15/25 09:40
500-268206-9	MW-14	Water	05/14/25 16:00	05/15/25 09:40

- 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: 500-268206-1

Client Sample ID: MW-01

Lab Sample ID: 500-268206-1

Date Collected: 05/12/25 12:10

Matrix: Water

Date Received: 05/13/25 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/14/25 08:35	05/15/25 13:50	1
Arsenic	0.013		0.0010		mg/L		05/14/25 08:35	05/15/25 13:50	1
Barium	0.037		0.0025		mg/L		05/14/25 08:35	05/15/25 13:50	1
Beryllium	<0.0010		0.0010		mg/L		05/14/25 08:35	05/15/25 13:50	1
Boron	2.2		0.050		mg/L		05/14/25 08:35	05/16/25 13:06	1
Cadmium	<0.00050		0.00050		mg/L		05/14/25 08:35	05/15/25 13:50	1
Calcium	63		0.20		mg/L		05/14/25 08:35	05/15/25 13:50	1
Chromium	<0.0050		0.0050		mg/L		05/14/25 08:35	05/15/25 13:50	1
Cobalt	<0.0010		0.0010		mg/L		05/14/25 08:35	05/15/25 13:50	1
Lead	<0.00050		0.00050		mg/L		05/14/25 08:35	05/15/25 13:50	1
Lithium	<0.010		0.010		mg/L		05/14/25 08:35	05/15/25 13:50	1
Molybdenum	0.018		0.0050		mg/L		05/14/25 08:35	05/15/25 13:50	1
Selenium	0.0046		0.0025		mg/L		05/14/25 08:35	05/15/25 13:50	1
Thallium	<0.0020		0.0020		mg/L		05/14/25 08:35	05/15/25 13:50	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/21/25 10:20	05/22/25 09:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	450		10		mg/L			05/15/25 03:44	1
Chloride (SM 4500 Cl- E)	82		4.0		mg/L			05/19/25 13:41	2
Fluoride (SM 4500 F C)	0.26		0.10		mg/L			05/19/25 13:47	1
Sulfate (SM 4500 SO4 E)	160		25		mg/L			05/20/25 11:48	5

Client Sample Results

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

Job ID: 500-268206-1

Client Sample ID: MW-02
Date Collected: 05/12/25 13:07
Date Received: 05/13/25 09:15

Lab Sample ID: 500-268206-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/14/25 08:35	05/15/25 13:53	1
Arsenic	0.0087		0.0010		mg/L		05/14/25 08:35	05/15/25 13:53	1
Barium	0.020		0.0025		mg/L		05/14/25 08:35	05/15/25 13:53	1
Beryllium	<0.0010		0.0010		mg/L		05/14/25 08:35	05/15/25 13:53	1
Boron	3.5		0.050		mg/L		05/14/25 08:35	05/16/25 13:08	1
Cadmium	<0.00050		0.00050		mg/L		05/14/25 08:35	05/15/25 13:53	1
Calcium	56		0.20		mg/L		05/14/25 08:35	05/15/25 13:53	1
Chromium	<0.0050		0.0050		mg/L		05/14/25 08:35	05/15/25 13:53	1
Cobalt	<0.0010		0.0010		mg/L		05/14/25 08:35	05/15/25 13:53	1
Lead	<0.00050		0.00050		mg/L		05/14/25 08:35	05/15/25 13:53	1
Lithium	<0.010		0.010		mg/L		05/14/25 08:35	05/15/25 13:53	1
Molybdenum	0.031		0.0050		mg/L		05/14/25 08:35	05/15/25 13:53	1
Selenium	<0.0025		0.0025		mg/L		05/14/25 08:35	05/15/25 13:53	1
Thallium	<0.0020		0.0020		mg/L		05/14/25 08:35	05/15/25 13:53	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/21/25 10:20	05/22/25 09:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	470		10		mg/L			05/15/25 03:47	1
Chloride (SM 4500 Cl- E)	69		4.0		mg/L			05/19/25 13:40	2
Fluoride (SM 4500 F C)	0.39		0.10		mg/L			05/19/25 13:50	1
Sulfate (SM 4500 SO4 E)	200	F1	25		mg/L			05/20/25 11:48	5

Client Sample Results

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

Job ID: 500-268206-1

Client Sample ID: MW-03
Date Collected: 05/12/25 14:29
Date Received: 05/13/25 09:15

Lab Sample ID: 500-268206-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/14/25 08:35	05/15/25 13:55	1
Arsenic	0.020		0.0010		mg/L		05/14/25 08:35	05/15/25 13:55	1
Barium	0.0056		0.0025		mg/L		05/14/25 08:35	05/15/25 13:55	1
Beryllium	<0.0010		0.0010		mg/L		05/14/25 08:35	05/15/25 13:55	1
Boron	3.5		0.050		mg/L		05/14/25 08:35	05/16/25 13:11	1
Cadmium	<0.00050		0.00050		mg/L		05/14/25 08:35	05/15/25 13:55	1
Calcium	43		0.20		mg/L		05/14/25 08:35	05/15/25 13:55	1
Chromium	<0.0050		0.0050		mg/L		05/14/25 08:35	05/15/25 13:55	1
Cobalt	<0.0010		0.0010		mg/L		05/14/25 08:35	05/15/25 13:55	1
Lead	<0.00050		0.00050		mg/L		05/14/25 08:35	05/15/25 13:55	1
Lithium	<0.010		0.010		mg/L		05/14/25 08:35	05/15/25 13:55	1
Molybdenum	0.039		0.0050		mg/L		05/14/25 08:35	05/15/25 13:55	1
Selenium	<0.0025		0.0025		mg/L		05/14/25 08:35	05/15/25 13:55	1
Thallium	<0.0020		0.0020		mg/L		05/14/25 08:35	05/15/25 13:55	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/21/25 10:20	05/22/25 09:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	430		10		mg/L			05/15/25 03:50	1
Chloride (SM 4500 Cl- E)	57		4.0		mg/L			05/19/25 13:41	2
Fluoride (SM 4500 F C)	0.35		0.10		mg/L			05/19/25 13:53	1
Sulfate (SM 4500 SO4 E)	190		25		mg/L			05/20/25 13:15	5

Client Sample Results

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

Job ID: 500-268206-1

Client Sample ID: MW-04
Date Collected: 05/12/25 15:23
Date Received: 05/13/25 09:15

Lab Sample ID: 500-268206-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/14/25 08:35	05/15/25 13:57	1
Arsenic	0.0092		0.0010		mg/L		05/14/25 08:35	05/15/25 13:57	1
Barium	0.014		0.0025		mg/L		05/14/25 08:35	05/15/25 13:57	1
Beryllium	<0.0010		0.0010		mg/L		05/14/25 08:35	05/15/25 13:57	1
Boron	2.3		0.050		mg/L		05/14/25 08:35	05/16/25 13:14	1
Cadmium	<0.00050		0.00050		mg/L		05/14/25 08:35	05/15/25 13:57	1
Calcium	26		0.20		mg/L		05/14/25 08:35	05/15/25 13:57	1
Chromium	<0.0050		0.0050		mg/L		05/14/25 08:35	05/15/25 13:57	1
Cobalt	<0.0010		0.0010		mg/L		05/14/25 08:35	05/15/25 13:57	1
Lead	<0.00050		0.00050		mg/L		05/14/25 08:35	05/15/25 13:57	1
Lithium	<0.010		0.010		mg/L		05/14/25 08:35	05/15/25 13:57	1
Molybdenum	0.044		0.0050		mg/L		05/14/25 08:35	05/15/25 13:57	1
Selenium	0.0042		0.0025		mg/L		05/14/25 08:35	05/15/25 13:57	1
Thallium	<0.0020		0.0020		mg/L		05/14/25 08:35	05/15/25 13:57	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/21/25 10:20	05/22/25 09:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	200		10		mg/L			05/15/25 03:52	1
Chloride (SM 4500 Cl- E)	68		4.0		mg/L			05/19/25 13:41	2
Fluoride (SM 4500 F C)	0.67		0.10		mg/L			05/19/25 14:06	1
Sulfate (SM 4500 SO4 E)	150		25		mg/L			05/20/25 13:16	5

Client Sample Results

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

Job ID: 500-268206-1

Client Sample ID: MW-09

Lab Sample ID: 500-268206-5

Date Collected: 05/13/25 11:25

Matrix: Water

Date Received: 05/14/25 09:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/14/25 15:56	05/16/25 15:24	1
Arsenic	0.012		0.0010		mg/L		05/14/25 15:56	05/16/25 15:24	1
Barium	0.095		0.0025		mg/L		05/14/25 15:56	05/16/25 15:24	1
Beryllium	<0.0010		0.0010		mg/L		05/14/25 15:56	05/16/25 15:24	1
Boron	2.3		0.050		mg/L		05/14/25 15:56	05/16/25 15:24	1
Cadmium	<0.00050		0.00050		mg/L		05/14/25 15:56	05/16/25 15:24	1
Calcium	130		0.20		mg/L		05/14/25 15:56	05/16/25 15:24	1
Chromium	<0.0050		0.0050		mg/L		05/14/25 15:56	05/16/25 15:24	1
Cobalt	<0.0010		0.0010		mg/L		05/14/25 15:56	05/16/25 15:24	1
Lead	<0.00050		0.00050		mg/L		05/14/25 15:56	05/16/25 15:24	1
Lithium	0.040		0.010		mg/L		05/14/25 15:56	05/16/25 15:24	1
Molybdenum	0.043		0.0050		mg/L		05/14/25 15:56	05/16/25 15:24	1
Selenium	<0.0025		0.0025		mg/L		05/14/25 15:56	05/16/25 15:24	1
Thallium	<0.0020		0.0020		mg/L		05/14/25 15:56	05/16/25 15:24	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/21/25 10:20	05/22/25 09:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	700		10		mg/L			05/17/25 05:54	1
Chloride (SM 4500 Cl- E)	150		10		mg/L			05/21/25 13:57	5
Fluoride (SM 4500 F C)	0.29		0.10		mg/L			05/21/25 10:27	1
Sulfate (SM 4500 SO4 E)	140		25		mg/L			05/20/25 13:16	5

Client Sample Results

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

Job ID: 500-268206-1

Client Sample ID: MW-16

Lab Sample ID: 500-268206-6

Date Collected: 05/13/25 10:00

Matrix: Water

Date Received: 05/14/25 09:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/14/25 15:56	05/16/25 15:27	1
Arsenic	<0.0010		0.0010		mg/L		05/14/25 15:56	05/16/25 15:27	1
Barium	0.053		0.0025		mg/L		05/14/25 15:56	05/16/25 15:27	1
Beryllium	<0.0010		0.0010		mg/L		05/14/25 15:56	05/16/25 15:27	1
Boron	5.9		0.25		mg/L		05/14/25 15:56	05/19/25 12:13	5
Cadmium	<0.00050		0.00050		mg/L		05/14/25 15:56	05/16/25 15:27	1
Calcium	220		0.20		mg/L		05/14/25 15:56	05/16/25 15:27	1
Chromium	<0.0050		0.0050		mg/L		05/14/25 15:56	05/16/25 15:27	1
Cobalt	0.0016		0.0010		mg/L		05/14/25 15:56	05/16/25 15:27	1
Lead	<0.00050		0.00050		mg/L		05/14/25 15:56	05/16/25 15:27	1
Lithium	0.018		0.010		mg/L		05/14/25 15:56	05/16/25 15:27	1
Molybdenum	0.017		0.0050		mg/L		05/14/25 15:56	05/16/25 15:27	1
Selenium	0.0054		0.0025		mg/L		05/14/25 15:56	05/16/25 15:27	1
Thallium	<0.0020		0.0020		mg/L		05/14/25 15:56	05/16/25 15:27	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/21/25 10:20	05/22/25 09:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1200		10		mg/L			05/17/25 05:56	1
Chloride (SM 4500 Cl- E)	95		10		mg/L			05/19/25 13:42	5
Fluoride (SM 4500 F C)	0.53		0.10		mg/L			05/21/25 10:31	1
Sulfate (SM 4500 SO4 E)	490		50		mg/L			05/20/25 13:16	10

Client Sample Results

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

Job ID: 500-268206-1

Client Sample ID: Duplicate

Lab Sample ID: 500-268206-7

Date Collected: 05/13/25 00:00

Matrix: Water

Date Received: 05/14/25 09:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/14/25 15:56	05/16/25 15:46	1
Arsenic	<0.0010		0.0010		mg/L		05/14/25 15:56	05/16/25 15:46	1
Barium	0.052		0.0025		mg/L		05/14/25 15:56	05/16/25 15:46	1
Beryllium	<0.0010		0.0010		mg/L		05/14/25 15:56	05/16/25 15:46	1
Boron	5.9		0.25		mg/L		05/14/25 15:56	05/19/25 12:16	5
Cadmium	<0.00050		0.00050		mg/L		05/14/25 15:56	05/16/25 15:46	1
Calcium	220		0.20		mg/L		05/14/25 15:56	05/16/25 15:46	1
Chromium	<0.0050		0.0050		mg/L		05/14/25 15:56	05/16/25 15:46	1
Cobalt	0.0016		0.0010		mg/L		05/14/25 15:56	05/16/25 15:46	1
Lead	<0.00050		0.00050		mg/L		05/14/25 15:56	05/16/25 15:46	1
Lithium	0.018		0.010		mg/L		05/14/25 15:56	05/16/25 15:46	1
Molybdenum	0.016		0.0050		mg/L		05/14/25 15:56	05/16/25 15:46	1
Selenium	0.0050		0.0025		mg/L		05/14/25 15:56	05/16/25 15:46	1
Thallium	<0.0020		0.0020		mg/L		05/14/25 15:56	05/16/25 15:46	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/21/25 10:20	05/22/25 09:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1100		10		mg/L			05/17/25 05:59	1
Chloride (SM 4500 Cl- E)	96		10		mg/L			05/19/25 13:42	5
Fluoride (SM 4500 F C)	0.53		0.10		mg/L			05/21/25 10:34	1
Sulfate (SM 4500 SO4 E)	480		50		mg/L			05/20/25 13:17	10

Client Sample Results

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

Job ID: 500-268206-1

Client Sample ID: MW-11

Lab Sample ID: 500-268206-8

Date Collected: 05/14/25 14:44

Matrix: Water

Date Received: 05/15/25 09:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/16/25 08:25	05/19/25 13:26	1
Arsenic	2.8		0.0010		mg/L		05/16/25 08:25	05/19/25 13:26	1
Barium	0.14		0.0025		mg/L		05/16/25 08:25	05/19/25 13:26	1
Beryllium	<0.0010	^1+	0.0010		mg/L		05/16/25 08:25	05/19/25 13:26	1
Boron	0.95		0.050		mg/L		05/16/25 08:25	05/19/25 13:26	1
Cadmium	<0.00050		0.00050		mg/L		05/16/25 08:25	05/19/25 13:26	1
Calcium	150		0.20		mg/L		05/16/25 08:25	05/19/25 13:26	1
Chromium	0.011		0.0050		mg/L		05/16/25 08:25	05/19/25 13:26	1
Cobalt	<0.0010		0.0010		mg/L		05/16/25 08:25	05/19/25 13:26	1
Lead	<0.00050		0.00050		mg/L		05/16/25 08:25	05/19/25 13:26	1
Lithium	0.027		0.010		mg/L		05/16/25 08:25	05/19/25 13:26	1
Molybdenum	<0.0050		0.0050		mg/L		05/16/25 08:25	05/19/25 13:26	1
Selenium	<0.0025		0.0025		mg/L		05/16/25 08:25	05/19/25 13:26	1
Thallium	<0.0020		0.0020		mg/L		05/16/25 08:25	05/19/25 13:26	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/21/25 10:20	05/22/25 10:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	700		10		mg/L			05/17/25 06:02	1
Chloride (SM 4500 Cl- E)	65		4.0		mg/L			05/19/25 13:42	2
Fluoride (SM 4500 F C)	0.17		0.10		mg/L			05/21/25 10:37	1
Sulfate (SM 4500 SO4 E)	43		5.0		mg/L			05/20/25 12:24	1

Client Sample Results

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

Job ID: 500-268206-1

Client Sample ID: MW-14
Date Collected: 05/14/25 16:00
Date Received: 05/15/25 09:40

Lab Sample ID: 500-268206-9
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/16/25 08:25	05/19/25 13:28	1
Arsenic	2.1		0.0010		mg/L		05/16/25 08:25	05/19/25 13:28	1
Barium	0.058		0.0025		mg/L		05/16/25 08:25	05/19/25 13:28	1
Beryllium	<0.0010	^1+	0.0010		mg/L		05/16/25 08:25	05/19/25 13:28	1
Boron	0.45		0.050		mg/L		05/16/25 08:25	05/19/25 13:28	1
Cadmium	<0.00050		0.00050		mg/L		05/16/25 08:25	05/19/25 13:28	1
Calcium	150		0.20		mg/L		05/16/25 08:25	05/19/25 13:28	1
Chromium	0.50		0.0050		mg/L		05/16/25 08:25	05/19/25 13:28	1
Cobalt	0.0011		0.0010		mg/L		05/16/25 08:25	05/19/25 13:28	1
Lead	<0.00050		0.00050		mg/L		05/16/25 08:25	05/19/25 13:28	1
Lithium	0.014		0.010		mg/L		05/16/25 08:25	05/19/25 13:28	1
Molybdenum	<0.0050		0.0050		mg/L		05/16/25 08:25	05/19/25 13:28	1
Selenium	<0.0025		0.0025		mg/L		05/16/25 08:25	05/19/25 13:28	1
Thallium	<0.0020		0.0020		mg/L		05/16/25 08:25	05/19/25 13:28	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/21/25 10:20	05/22/25 10:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	560		10		mg/L			05/17/25 06:04	1
Chloride (SM 4500 Cl- E)	34		2.0		mg/L			05/19/25 13:25	1
Fluoride (SM 4500 F C)	0.15		0.10		mg/L			05/21/25 10:41	1
Sulfate (SM 4500 SO4 E)	18		5.0		mg/L			05/20/25 12:24	1

Definitions/Glossary

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

Job ID: 500-268206-1

Qualifiers

Metals

Qualifier	Qualifier Description
^1+	Initial Calibration Verification (ICV) 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.
F1	MS and/or MSD recovery exceeds control limits.

Glossary

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

QC Association Summary

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

Job ID: 500-268206-1

Metals

Prep Batch: 817597

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-268206-1	MW-01	Total Recoverable	Water	3005A	
500-268206-2	MW-02	Total Recoverable	Water	3005A	
500-268206-3	MW-03	Total Recoverable	Water	3005A	
500-268206-4	MW-04	Total Recoverable	Water	3005A	
MB 500-817597/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-817597/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 817706

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-268206-5	MW-09	Total Recoverable	Water	3005A	
500-268206-6	MW-16	Total Recoverable	Water	3005A	
500-268206-7	Duplicate	Total Recoverable	Water	3005A	
MB 500-817706/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-817706/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 817878

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-268206-1	MW-01	Total Recoverable	Water	6020B	817597
500-268206-2	MW-02	Total Recoverable	Water	6020B	817597
500-268206-3	MW-03	Total Recoverable	Water	6020B	817597
500-268206-4	MW-04	Total Recoverable	Water	6020B	817597
MB 500-817597/1-A	Method Blank	Total Recoverable	Water	6020B	817597
LCS 500-817597/2-A	Lab Control Sample	Total Recoverable	Water	6020B	817597

Prep Batch: 817948

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-268206-8	MW-11	Total Recoverable	Water	3005A	
500-268206-9	MW-14	Total Recoverable	Water	3005A	
MB 500-817948/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-817948/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 818169

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-268206-5	MW-09	Total Recoverable	Water	6020B	817706
500-268206-6	MW-16	Total Recoverable	Water	6020B	817706
500-268206-7	Duplicate	Total Recoverable	Water	6020B	817706
MB 500-817706/1-A	Method Blank	Total Recoverable	Water	6020B	817706
LCS 500-817706/2-A	Lab Control Sample	Total Recoverable	Water	6020B	817706

Analysis Batch: 818182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-268206-1	MW-01	Total Recoverable	Water	6020B	817597
500-268206-2	MW-02	Total Recoverable	Water	6020B	817597
500-268206-3	MW-03	Total Recoverable	Water	6020B	817597
500-268206-4	MW-04	Total Recoverable	Water	6020B	817597
MB 500-817597/1-A	Method Blank	Total Recoverable	Water	6020B	817597
LCS 500-817597/2-A	Lab Control Sample	Total Recoverable	Water	6020B	817597

Analysis Batch: 818344

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-268206-6	MW-16	Total Recoverable	Water	6020B	817706

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QC Association Summary

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

Job ID: 500-268206-1

Metals (Continued)

Analysis Batch: 818344 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-268206-7	Duplicate	Total Recoverable	Water	6020B	817706
500-268206-8	MW-11	Total Recoverable	Water	6020B	817948
500-268206-9	MW-14	Total Recoverable	Water	6020B	817948
MB 500-817948/1-A	Method Blank	Total Recoverable	Water	6020B	817948
LCS 500-817948/2-A	Lab Control Sample	Total Recoverable	Water	6020B	817948

Prep Batch: 818548

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-268206-1	MW-01	Total/NA	Water	7470A	
500-268206-2	MW-02	Total/NA	Water	7470A	
500-268206-3	MW-03	Total/NA	Water	7470A	
500-268206-4	MW-04	Total/NA	Water	7470A	
500-268206-5	MW-09	Total/NA	Water	7470A	
500-268206-6	MW-16	Total/NA	Water	7470A	
500-268206-7	Duplicate	Total/NA	Water	7470A	
500-268206-8	MW-11	Total/NA	Water	7470A	
500-268206-9	MW-14	Total/NA	Water	7470A	
MB 500-818548/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-818548/13-A	Lab Control Sample	Total/NA	Water	7470A	
500-268206-7 MS	Duplicate	Total/NA	Water	7470A	
500-268206-7 MSD	Duplicate	Total/NA	Water	7470A	
500-268206-7 DU	Duplicate	Total/NA	Water	7470A	

Analysis Batch: 818745

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-268206-1	MW-01	Total/NA	Water	7470A	818548
500-268206-2	MW-02	Total/NA	Water	7470A	818548
500-268206-3	MW-03	Total/NA	Water	7470A	818548
500-268206-4	MW-04	Total/NA	Water	7470A	818548
500-268206-5	MW-09	Total/NA	Water	7470A	818548
500-268206-6	MW-16	Total/NA	Water	7470A	818548
500-268206-7	Duplicate	Total/NA	Water	7470A	818548
500-268206-8	MW-11	Total/NA	Water	7470A	818548
500-268206-9	MW-14	Total/NA	Water	7470A	818548
MB 500-818548/12-A	Method Blank	Total/NA	Water	7470A	818548
LCS 500-818548/13-A	Lab Control Sample	Total/NA	Water	7470A	818548
500-268206-7 MS	Duplicate	Total/NA	Water	7470A	818548
500-268206-7 MSD	Duplicate	Total/NA	Water	7470A	818548
500-268206-7 DU	Duplicate	Total/NA	Water	7470A	818548

General Chemistry

Analysis Batch: 817730

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-268206-1	MW-01	Total/NA	Water	SM 2540C	
500-268206-2	MW-02	Total/NA	Water	SM 2540C	
500-268206-3	MW-03	Total/NA	Water	SM 2540C	
500-268206-4	MW-04	Total/NA	Water	SM 2540C	
MB 500-817730/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-817730/2	Lab Control Sample	Total/NA	Water	SM 2540C	

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QC Association Summary

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

Job ID: 500-268206-1

General Chemistry

Analysis Batch: 818093

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-268206-5	MW-09	Total/NA	Water	SM 2540C	
500-268206-6	MW-16	Total/NA	Water	SM 2540C	
500-268206-7	Duplicate	Total/NA	Water	SM 2540C	
500-268206-8	MW-11	Total/NA	Water	SM 2540C	
500-268206-9	MW-14	Total/NA	Water	SM 2540C	
MB 500-818093/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-818093/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 818306

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-268206-1	MW-01	Total/NA	Water	SM 4500 F C	
500-268206-2	MW-02	Total/NA	Water	SM 4500 F C	
500-268206-3	MW-03	Total/NA	Water	SM 4500 F C	
500-268206-4	MW-04	Total/NA	Water	SM 4500 F C	
MB 500-818306/31	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-818306/32	Lab Control Sample	Total/NA	Water	SM 4500 F C	

Analysis Batch: 818307

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-268206-1	MW-01	Total/NA	Water	SM 4500 Cl- E	
500-268206-2	MW-02	Total/NA	Water	SM 4500 Cl- E	
500-268206-3	MW-03	Total/NA	Water	SM 4500 Cl- E	
500-268206-4	MW-04	Total/NA	Water	SM 4500 Cl- E	
500-268206-6	MW-16	Total/NA	Water	SM 4500 Cl- E	
500-268206-7	Duplicate	Total/NA	Water	SM 4500 Cl- E	
500-268206-8	MW-11	Total/NA	Water	SM 4500 Cl- E	
500-268206-9	MW-14	Total/NA	Water	SM 4500 Cl- E	
MB 500-818307/67	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 500-818307/68	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 818457

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-268206-1	MW-01	Total/NA	Water	SM 4500 SO4 E	
500-268206-2	MW-02	Total/NA	Water	SM 4500 SO4 E	
500-268206-3	MW-03	Total/NA	Water	SM 4500 SO4 E	
500-268206-4	MW-04	Total/NA	Water	SM 4500 SO4 E	
500-268206-5	MW-09	Total/NA	Water	SM 4500 SO4 E	
500-268206-6	MW-16	Total/NA	Water	SM 4500 SO4 E	
500-268206-7	Duplicate	Total/NA	Water	SM 4500 SO4 E	
500-268206-8	MW-11	Total/NA	Water	SM 4500 SO4 E	
500-268206-9	MW-14	Total/NA	Water	SM 4500 SO4 E	
MB 500-818457/16	Method Blank	Total/NA	Water	SM 4500 SO4 E	
MB 500-818457/67	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-818457/17	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
LCS 500-818457/68	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
500-268206-2 MS	MW-02	Total/NA	Water	SM 4500 SO4 E	
500-268206-2 MSD	MW-02	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 818591

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-268206-5	MW-09	Total/NA	Water	SM 4500 F C	

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QC Association Summary

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

Job ID: 500-268206-1

General Chemistry (Continued)

Analysis Batch: 818591 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-268206-6	MW-16	Total/NA	Water	SM 4500 F C	
500-268206-7	Duplicate	Total/NA	Water	SM 4500 F C	
500-268206-8	MW-11	Total/NA	Water	SM 4500 F C	
500-268206-9	MW-14	Total/NA	Water	SM 4500 F C	
MB 500-818591/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-818591/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	

Analysis Batch: 818653

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-268206-5	MW-09	Total/NA	Water	SM 4500 Cl- E	
MB 500-818653/16	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 500-818653/17	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	

QC Sample Results

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

Job ID: 500-268206-1

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 500-817597/1-A
Matrix: Water
Analysis Batch: 817878

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 817597

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0030		0.0030		mg/L		05/14/25 08:35	05/15/25 13:24	1
Arsenic	<0.0010		0.0010		mg/L		05/14/25 08:35	05/15/25 13:24	1
Barium	<0.0025		0.0025		mg/L		05/14/25 08:35	05/15/25 13:24	1
Beryllium	<0.0010		0.0010		mg/L		05/14/25 08:35	05/15/25 13:24	1
Cadmium	<0.00050		0.00050		mg/L		05/14/25 08:35	05/15/25 13:24	1
Calcium	<0.20		0.20		mg/L		05/14/25 08:35	05/15/25 13:24	1
Chromium	<0.0050		0.0050		mg/L		05/14/25 08:35	05/15/25 13:24	1
Cobalt	<0.0010		0.0010		mg/L		05/14/25 08:35	05/15/25 13:24	1
Lead	<0.00050		0.00050		mg/L		05/14/25 08:35	05/15/25 13:24	1
Lithium	<0.010		0.010		mg/L		05/14/25 08:35	05/15/25 13:24	1
Molybdenum	<0.0050		0.0050		mg/L		05/14/25 08:35	05/15/25 13:24	1
Selenium	<0.0025		0.0025		mg/L		05/14/25 08:35	05/15/25 13:24	1
Thallium	<0.0020		0.0020		mg/L		05/14/25 08:35	05/15/25 13:24	1

Lab Sample ID: MB 500-817597/1-A
Matrix: Water
Analysis Batch: 818182

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 817597

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Boron	<0.050		0.050		mg/L		05/14/25 08:35	05/16/25 12:34	1

Lab Sample ID: LCS 500-817597/2-A
Matrix: Water
Analysis Batch: 817878

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 817597

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.0995		mg/L		100	80 - 120
Barium	0.500	0.520		mg/L		104	80 - 120
Beryllium	0.0500	0.0522		mg/L		104	80 - 120
Cadmium	0.0500	0.0514		mg/L		103	80 - 120
Calcium	10.0	8.97		mg/L		90	80 - 120
Chromium	0.200	0.202		mg/L		101	80 - 120
Cobalt	0.500	0.539		mg/L		108	80 - 120
Lead	0.100	0.102		mg/L		102	80 - 120
Lithium	0.100	0.107		mg/L		107	80 - 120
Molybdenum	1.00	1.01		mg/L		101	80 - 120
Selenium	0.100	0.101		mg/L		101	80 - 120
Thallium	0.100	0.104		mg/L		104	80 - 120

Lab Sample ID: LCS 500-817597/2-A
Matrix: Water
Analysis Batch: 818182

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 817597

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

QC Sample Results

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

Job ID: 500-268206-1

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

Lab Sample ID: MB 500-817706/1-A
Matrix: Water
Analysis Batch: 818169

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 817706

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0030		0.0030		mg/L		05/14/25 15:56	05/16/25 14:45	1
Arsenic	<0.0010		0.0010		mg/L		05/14/25 15:56	05/16/25 14:45	1
Barium	<0.0025		0.0025		mg/L		05/14/25 15:56	05/16/25 14:45	1
Beryllium	<0.0010		0.0010		mg/L		05/14/25 15:56	05/16/25 14:45	1
Boron	<0.050		0.050		mg/L		05/14/25 15:56	05/16/25 14:45	1
Cadmium	<0.00050		0.00050		mg/L		05/14/25 15:56	05/16/25 14:45	1
Calcium	<0.20		0.20		mg/L		05/14/25 15:56	05/16/25 14:45	1
Chromium	<0.0050		0.0050		mg/L		05/14/25 15:56	05/16/25 14:45	1
Cobalt	<0.0010		0.0010		mg/L		05/14/25 15:56	05/16/25 14:45	1
Lead	<0.00050		0.00050		mg/L		05/14/25 15:56	05/16/25 14:45	1
Lithium	<0.010		0.010		mg/L		05/14/25 15:56	05/16/25 14:45	1
Molybdenum	<0.0050		0.0050		mg/L		05/14/25 15:56	05/16/25 14:45	1
Selenium	<0.0025		0.0025		mg/L		05/14/25 15:56	05/16/25 14:45	1
Thallium	<0.0020		0.0020		mg/L		05/14/25 15:56	05/16/25 14:45	1

Lab Sample ID: LCS 500-817706/2-A
Matrix: Water
Analysis Batch: 818169

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 817706

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.0949		mg/L		95	80 - 120
Barium	0.500	0.503		mg/L		101	80 - 120
Beryllium	0.0500	0.0523		mg/L		105	80 - 120
Boron	1.00	1.02		mg/L		102	80 - 120
Cadmium	0.0500	0.0496		mg/L		99	80 - 120
Calcium	10.0	8.77		mg/L		88	80 - 120
Chromium	0.200	0.197		mg/L		98	80 - 120
Cobalt	0.500	0.534		mg/L		107	80 - 120
Lead	0.100	0.0999		mg/L		100	80 - 120
Lithium	0.100	0.108		mg/L		108	80 - 120
Molybdenum	1.00	0.984		mg/L		98	80 - 120
Selenium	0.100	0.102		mg/L		102	80 - 120
Thallium	0.100	0.104		mg/L		104	80 - 120

Lab Sample ID: MB 500-817948/1-A
Matrix: Water
Analysis Batch: 818344

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 817948

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0030		0.0030		mg/L		05/16/25 08:25	05/19/25 12:25	1
Arsenic	<0.0010		0.0010		mg/L		05/16/25 08:25	05/19/25 12:25	1
Barium	<0.0025		0.0025		mg/L		05/16/25 08:25	05/19/25 12:25	1
Beryllium	<0.0010	^1+	0.0010		mg/L		05/16/25 08:25	05/19/25 12:25	1
Boron	<0.050		0.050		mg/L		05/16/25 08:25	05/19/25 12:25	1
Cadmium	<0.00050		0.00050		mg/L		05/16/25 08:25	05/19/25 12:25	1
Calcium	<0.20		0.20		mg/L		05/16/25 08:25	05/19/25 12:25	1
Chromium	<0.0050		0.0050		mg/L		05/16/25 08:25	05/19/25 12:25	1
Cobalt	<0.0010		0.0010		mg/L		05/16/25 08:25	05/19/25 12:25	1

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QC Sample Results

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

Job ID: 500-268206-1

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

Lab Sample ID: MB 500-817948/1-A
Matrix: Water
Analysis Batch: 818344

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 817948

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.00050		0.00050		mg/L		05/16/25 08:25	05/19/25 12:25	1
Lithium	<0.010		0.010		mg/L		05/16/25 08:25	05/19/25 12:25	1
Molybdenum	<0.0050		0.0050		mg/L		05/16/25 08:25	05/19/25 12:25	1
Selenium	<0.0025		0.0025		mg/L		05/16/25 08:25	05/19/25 12:25	1
Thallium	<0.0020		0.0020		mg/L		05/16/25 08:25	05/19/25 12:25	1

Lab Sample ID: LCS 500-817948/2-A
Matrix: Water
Analysis Batch: 818344

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 817948

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.517		mg/L		103	80 - 120
Arsenic	0.100	0.0972		mg/L		97	80 - 120
Barium	0.500	0.511		mg/L		102	80 - 120
Beryllium	0.0500	0.0510	^1+	mg/L		102	80 - 120
Boron	1.00	1.00		mg/L		100	80 - 120
Cadmium	0.0500	0.0503		mg/L		101	80 - 120
Calcium	10.0	8.94		mg/L		89	80 - 120
Chromium	0.200	0.200		mg/L		100	80 - 120
Cobalt	0.500	0.537		mg/L		107	80 - 120
Lead	0.100	0.100		mg/L		100	80 - 120
Lithium	0.100	0.105		mg/L		105	80 - 120
Molybdenum	1.00	0.978		mg/L		98	80 - 120
Selenium	0.100	0.103		mg/L		103	80 - 120
Thallium	0.100	0.101		mg/L		101	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-818548/12-A
Matrix: Water
Analysis Batch: 818745

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 818548

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/21/25 10:20	05/22/25 08:58	1

Lab Sample ID: LCS 500-818548/13-A
Matrix: Water
Analysis Batch: 818745

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 818548

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00200	0.00197		mg/L		99	80 - 120

Lab Sample ID: 500-268206-7 MS
Matrix: Water
Analysis Batch: 818745

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 818548

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.00020		0.000999	0.000966		mg/L		97	75 - 125

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QC Sample Results

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

Job ID: 500-268206-1

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

Lab Sample ID: 500-268206-7 MSD
Matrix: Water
Analysis Batch: 818745

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 818548

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.00020		0.000999	0.000986		mg/L		99	75 - 125	2	20

Lab Sample ID: 500-268206-7 DU
Matrix: Water
Analysis Batch: 818745

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 818548

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

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

Lab Sample ID: MB 500-817730/1
Matrix: Water
Analysis Batch: 817730

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			05/15/25 03:19	1

Lab Sample ID: LCS 500-817730/2
Matrix: Water
Analysis Batch: 817730

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

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

Lab Sample ID: MB 500-818093/1
Matrix: Water
Analysis Batch: 818093

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			05/17/25 05:31	1

Lab Sample ID: LCS 500-818093/2
Matrix: Water
Analysis Batch: 818093

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	230		mg/L		92	80 - 120

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 500-818307/67
Matrix: Water
Analysis Batch: 818307

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			05/19/25 13:23	1

QC Sample Results

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

Job ID: 500-268206-1

Method: SM 4500 Cl- E - Chloride, Total (Continued)

Lab Sample ID: LCS 500-818307/68
Matrix: Water
Analysis Batch: 818307

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	21.0		mg/L		105	85 - 115

Lab Sample ID: MB 500-818653/16
Matrix: Water
Analysis Batch: 818653

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			05/21/25 13:56	1

Lab Sample ID: LCS 500-818653/17
Matrix: Water
Analysis Batch: 818653

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	20.1		mg/L		101	85 - 115

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-818306/31
Matrix: Water
Analysis Batch: 818306

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			05/19/25 12:29	1

Lab Sample ID: LCS 500-818306/32
Matrix: Water
Analysis Batch: 818306

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	9.96		mg/L		100	90 - 119

Lab Sample ID: MB 500-818591/3
Matrix: Water
Analysis Batch: 818591

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			05/21/25 10:09	1

Lab Sample ID: LCS 500-818591/4
Matrix: Water
Analysis Batch: 818591

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	10.1		mg/L		101	90 - 119

QC Sample Results

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

Job ID: 500-268206-1

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 500-818457/16
Matrix: Water
Analysis Batch: 818457

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			05/20/25 11:22	1

Lab Sample ID: MB 500-818457/67
Matrix: Water
Analysis Batch: 818457

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			05/20/25 12:23	1

Lab Sample ID: LCS 500-818457/17
Matrix: Water
Analysis Batch: 818457

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	20.0	20.8		mg/L		104	88 - 123

Lab Sample ID: LCS 500-818457/68
Matrix: Water
Analysis Batch: 818457

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: 500-268206-2 MS
Matrix: Water
Analysis Batch: 818457

Client Sample ID: MW-02
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	200	F1	20.0	208	4	mg/L		46	75 - 125

Lab Sample ID: 500-268206-2 MSD
Matrix: Water
Analysis Batch: 818457

Client Sample ID: MW-02
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	200	F1	20.0	211	4	mg/L		61	75 - 125	1	20

Eurofins Chicago

18410 Crossing Drive Suite E
Tinley Park, IL 60487
Phone 708-534-5200 Fax 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information		Sampler <i>Kaelyn Sperle</i>		Lab PM Mockler, Diana J		Carrier Tracking No(s)		COC No. 500-136154-44027 1	
Client Contact <i>Kaelyn Sperle</i>		Phone <i>262-278-1621</i>		E-Mail Diana.Mockler@et.eurofins.com		State of Origin <i>IL</i>		Page Page 1 of 1	
Company KPRG and Associates, Inc.		PWSID		Analysis Requested				Job #: <i>500-268206</i>	
Address 14665 West Lisbon Road, Suite 1A		Due Date Requested <i>Standard</i>		 <p>500-268206 COC</p>				Preservation Codes D - HNO3 N - None	
City Brookfield		TAT Requested (days) <i>Standard</i>						Total Number of Containers	
State, Zip WI, 53005		Compliance Project <input type="checkbox"/> Yes <input type="checkbox"/> No							
Phone 262-781-0475(Tel)		PO #: 4502188389							
Email <i>kaelyns@kprginc.com</i>		WO #							
Project Name Waukegan CCR Event Desc Quarterly Waukegan CCR		Project #: 50011597		Field Filtered Sample (Yes or No)				Other.	
Site Illinois		SSOW#		Perform MS/MS (Yes or No)					
Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=waste/oli, BT=Tissue, A=Air)	
								Special Instructions/Note:	
								Preservation Code	
								D D N	
<i>1</i> MW-01		<i>5/12/25</i>		<i>1210</i>		<i>G</i>		<i>Water</i>	
<i>2</i> MW-02		<i>5/12/25</i>		<i>1307</i>				<i>Water</i>	
<i>3</i> MW-03		<i>5/12/25</i>		<i>1429</i>				<i>Water</i>	
<i>4</i> MW-04		<i>5/12/25</i>		<i>1523</i>				<i>Water</i>	
MW-05								<i>Water</i>	
MW-06								<i>Water</i>	
MW-07								<i>Water</i>	
MW-08								<i>Water</i>	
Duplicate								<i>Water</i>	
								<i>Water</i>	
Possible Hazard Identification					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)				
<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological					<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months				
Deliverable Requested I, II, III, IV, Other (specify)					Special Instructions/QC Requirements				
Empty Kit Relinquished by			Date		Time		Method of Shipment.		
Relinquished by <i>Kaelyn Sperle</i>			Date/Time <i>5/12/25/1730</i>		Company <i>KPRG</i>		Received by <i>FedEx</i>		Date/Time <i>5/12/25/1730</i>
Relinquished by			Date/Time		Company		Received by <i>Stephanie Hernandez</i>		Date/Time <i>5/13/25 0915</i>
Relinquished by			Date/Time		Company		Received by		Date/Time
Custody Seals Intact. <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No			Cooler Temperature(s) °C and Other Remarks. <i>5.6-5.9</i>				

Eurofins Chicago

18410 Crossing Drive Suite E
 Tinley Park, IL 60487
 Phone 708-534-5200 Fax 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information		Sampler Kaelyn Sperle		Lab PM Mockler, Diana J		Carrier Tracking No(s)		COC No: 500-136154-44027 1			
Client Contact: Mitchel Dolar Kaelyn Sperle		Phone 262-278-1621		E-Mail Diana.Mockler@et.eurofins.com		State of Origin IL		Page Page 1 of 1			
Company KPRG and Associates, Inc.		PWSID		Analysis Requested				Job # 500-268206			
Address: 14665 West Lisbon Road, Suite 1A		Due Date Requested Standard		 <p>500-268206 COC</p>				Preservation Codes: D - HNO3 N - None			
City Brookfield		TAT Requested (days) Standard						Compliance Project <input type="checkbox"/> Yes <input type="checkbox"/> No		Other	
State, Zip WI, 53005		PO #: 4502188389						Project # 50011597		Special Instructions/Note:	
Phone 262-781-0475(Tel)		WO #						SSOW#			
Email mitchel.dolar@kprginc.com kaelyns@kprginc.com		Project Name Waukegan CCR Event Desc Quarterly Waukegan CCR						Site Illinois			
Sample Identification		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/soil, ST=Tissue, A=Air)			
								Preservation Code			
MW-01								Water			
MW-02								Water			
MW-03								Water			
MW-04								Water			
MW-05								Water			
8 MW-11		5/14/25		1444		G		Water			
9 MW-14		5/14/25		1600		↓		Water			
MW-10								Water			
Duplicate								Water			
								Water			
Possible Hazard Identification					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)						
<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological					<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months						
Deliverable Requested I, II, III, IV, Other (specify)					Special Instructions/QC Requirements						
Empty Kit Relinquished by		Date		Time		Method of Shipment.					
Relinquished by Kaelyn Orule		Date/Time 5/14/25/1735		Company KPRG		Received by FedEx		Date/Time 5/14/25/1735			
Relinquished by		Date/Time		Company		Received by Stephanie Hernandez		Date/Time 5/15/25 0940			
Relinquished by		Date/Time		Company		Received by		Date/Time			
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks 1.7-2.3							

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environment
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KPRG AND ASSOCIATES, INC
14665 WEST LIBSON ROAD
SUITE 1A
BROOKFIELD, WI 53005
UNITED STATES US

CAD 07803077/CAFE3855

Part # 59479-434 MTW/EXP 09/25



500-268206 Waybi

10 SAMPLE RECEIPT
EUROFINS
18410 CROSSING DRIVE
SUITE E
TINLEY PARK IL 60487

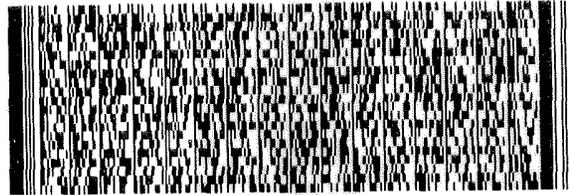
(708) 634-6200

REF:

INV:

DEP1

RMA



FedEx
Express



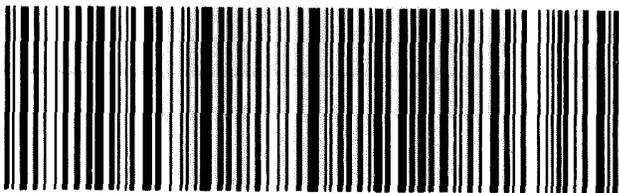
RETURNS MON-SAT
PRIORITY OVERNIGHT
TUE - 13 MAY 10:30A
PRIORITY OVERNIGHT

FedEx

TRK#
0221 4523 1806 2875

79 JOTA

60487
IL-US ORD



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ABILITY OF FILE
KPRG AND ASSOCIATES, INC
14665 WEST LIBSON ROAD
SUITE 1A
BROOKFIELD, WI 53005
UNITED STATES US

1101201 23 50 00 1001
CAD 0780307/CAFE3855

TO **SAMPLE RECEIPT**
EUROFINS
18410 CROSSING DRIVE
SUITE E
TINLEY PARK IL 60487



500-268206 Waybi

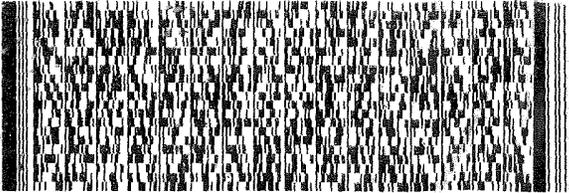
(700) 534-5200

REF

DEPT

INU
PO

RMA



FedEx
Express



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FedEx

TRK#
0221

4523 1806 2853

DELIVERING MON AM
WED - 14 MAY 10:30A
PRIORITY OVERNIGHT

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49-752

60487
IL-US ORD



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KPRG
5887208

PART # 156297-435 FPDVNZ EXP 11/25

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* KALYN SPERLE
KPRG AND ASSOCIATES, INC
14665 WEST LIBSON ROAD
SUITE 1A
BROOKFIELD, WI 53005
UNITED STATES US

ACTWGT: 25.00 LB MAN
CAD: 0780307/CAFE3855

Pln 150968-434 MUM EXP 09 09
SRCS/1182/FF21

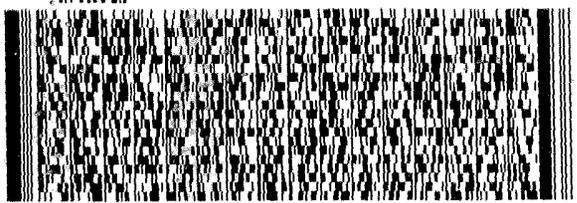
TO **SAMPLE RECEIPT**
EUROFINS
18410 CROSSING DRIVE
SUITE E
TINLEY PARK IL 60487

(708) 584-5200
INV: POI

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DEPT:

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TRK# 4523 1806 3080
0221

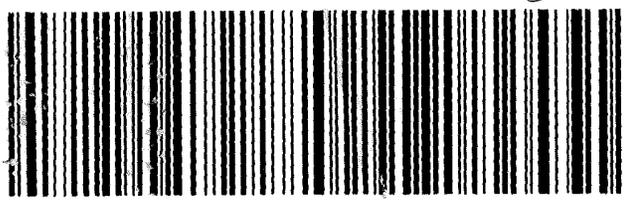
THU - 15 MAY 10:30A
PRIORITY OVERNIGHT

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Handwritten: 1-7-25
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150968-434 MUM EXP 11/25



45694419 05/14 580J4/EA36/59F2



500-268206 Waybi

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Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-268206-1

Login Number: 268206

List Source: Eurofins Chicago

List Number: 1

Creator: Hernandez, Stephanie

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.9,5.2,2.3
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.



Lab Chronicle

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

Job ID: 500-268206-1

Client Sample ID: MW-01
Date Collected: 05/12/25 12:10
Date Received: 05/13/25 09:15

Lab Sample ID: 500-268206-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			817597	BDE	EET CHI	05/14/25 08:35 - 05/14/25 14:35 ¹
Total Recoverable	Analysis	6020B		1	817878	RN	EET CHI	05/15/25 13:50
Total Recoverable	Prep	3005A			817597	BDE	EET CHI	05/14/25 08:35 - 05/14/25 14:35 ¹
Total Recoverable	Analysis	6020B		1	818182	RN	EET CHI	05/16/25 13:06
Total/NA	Prep	7470A			818548	MJG	EET CHI	05/21/25 10:20 - 05/21/25 12:20 ¹
Total/NA	Analysis	7470A		1	818745	MJG	EET CHI	05/22/25 09:02
Total/NA	Analysis	SM 2540C		1	817730	CLB	EET CHI	05/15/25 03:44
Total/NA	Analysis	SM 4500 CI- E		2	818307	TR	EET CHI	05/19/25 13:41
Total/NA	Analysis	SM 4500 F C		1	818306	AC	EET CHI	05/19/25 13:47
Total/NA	Analysis	SM 4500 SO4 E		5	818457	TR	EET CHI	05/20/25 11:48

Client Sample ID: MW-02
Date Collected: 05/12/25 13:07
Date Received: 05/13/25 09:15

Lab Sample ID: 500-268206-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			817597	BDE	EET CHI	05/14/25 08:35 - 05/14/25 14:35 ¹
Total Recoverable	Analysis	6020B		1	817878	RN	EET CHI	05/15/25 13:53
Total Recoverable	Prep	3005A			817597	BDE	EET CHI	05/14/25 08:35 - 05/14/25 14:35 ¹
Total Recoverable	Analysis	6020B		1	818182	RN	EET CHI	05/16/25 13:08
Total/NA	Prep	7470A			818548	MJG	EET CHI	05/21/25 10:20 - 05/21/25 12:20 ¹
Total/NA	Analysis	7470A		1	818745	MJG	EET CHI	05/22/25 09:04
Total/NA	Analysis	SM 2540C		1	817730	CLB	EET CHI	05/15/25 03:47
Total/NA	Analysis	SM 4500 CI- E		2	818307	TR	EET CHI	05/19/25 13:40
Total/NA	Analysis	SM 4500 F C		1	818306	AC	EET CHI	05/19/25 13:50
Total/NA	Analysis	SM 4500 SO4 E		5	818457	TR	EET CHI	05/20/25 11:48

Client Sample ID: MW-03
Date Collected: 05/12/25 14:29
Date Received: 05/13/25 09:15

Lab Sample ID: 500-268206-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			817597	BDE	EET CHI	05/14/25 08:35 - 05/14/25 14:35 ¹
Total Recoverable	Analysis	6020B		1	817878	RN	EET CHI	05/15/25 13:55
Total Recoverable	Prep	3005A			817597	BDE	EET CHI	05/14/25 08:35 - 05/14/25 14:35 ¹
Total Recoverable	Analysis	6020B		1	818182	RN	EET CHI	05/16/25 13:11
Total/NA	Prep	7470A			818548	MJG	EET CHI	05/21/25 10:20 - 05/21/25 12:20 ¹
Total/NA	Analysis	7470A		1	818745	MJG	EET CHI	05/22/25 09:06
Total/NA	Analysis	SM 2540C		1	817730	CLB	EET CHI	05/15/25 03:50
Total/NA	Analysis	SM 4500 CI- E		2	818307	TR	EET CHI	05/19/25 13:41
Total/NA	Analysis	SM 4500 F C		1	818306	AC	EET CHI	05/19/25 13:53
Total/NA	Analysis	SM 4500 SO4 E		5	818457	TR	EET CHI	05/20/25 13:15

Lab Chronicle

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

Job ID: 500-268206-1

Client Sample ID: MW-04
Date Collected: 05/12/25 15:23
Date Received: 05/13/25 09:15

Lab Sample ID: 500-268206-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			817597	BDE	EET CHI	05/14/25 08:35 - 05/14/25 14:35 ¹
Total Recoverable	Analysis	6020B		1	817878	RN	EET CHI	05/15/25 13:57
Total Recoverable	Prep	3005A			817597	BDE	EET CHI	05/14/25 08:35 - 05/14/25 14:35 ¹
Total Recoverable	Analysis	6020B		1	818182	RN	EET CHI	05/16/25 13:14
Total/NA	Prep	7470A			818548	MJG	EET CHI	05/21/25 10:20 - 05/21/25 12:20 ¹
Total/NA	Analysis	7470A		1	818745	MJG	EET CHI	05/22/25 09:09
Total/NA	Analysis	SM 2540C		1	817730	CLB	EET CHI	05/15/25 03:52
Total/NA	Analysis	SM 4500 Cl- E		2	818307	TR	EET CHI	05/19/25 13:41
Total/NA	Analysis	SM 4500 F C		1	818306	AC	EET CHI	05/19/25 14:06
Total/NA	Analysis	SM 4500 SO4 E		5	818457	TR	EET CHI	05/20/25 13:16

Client Sample ID: MW-09
Date Collected: 05/13/25 11:25
Date Received: 05/14/25 09:20

Lab Sample ID: 500-268206-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			817706	S1Z	EET CHI	05/14/25 15:56 - 05/14/25 21:56 ¹
Total Recoverable	Analysis	6020B		1	818169	RN	EET CHI	05/16/25 15:24
Total/NA	Prep	7470A			818548	MJG	EET CHI	05/21/25 10:20 - 05/21/25 12:20 ¹
Total/NA	Analysis	7470A		1	818745	MJG	EET CHI	05/22/25 09:11
Total/NA	Analysis	SM 2540C		1	818093	CLB	EET CHI	05/17/25 05:54
Total/NA	Analysis	SM 4500 Cl- E		5	818653	TR	EET CHI	05/21/25 13:57
Total/NA	Analysis	SM 4500 F C		1	818591	AC	EET CHI	05/21/25 10:27
Total/NA	Analysis	SM 4500 SO4 E		5	818457	TR	EET CHI	05/20/25 13:16

Client Sample ID: MW-16
Date Collected: 05/13/25 10:00
Date Received: 05/14/25 09:20

Lab Sample ID: 500-268206-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			817706	S1Z	EET CHI	05/14/25 15:56 - 05/14/25 21:56 ¹
Total Recoverable	Analysis	6020B		1	818169	RN	EET CHI	05/16/25 15:27
Total Recoverable	Prep	3005A			817706	S1Z	EET CHI	05/14/25 15:56 - 05/14/25 21:56 ¹
Total Recoverable	Analysis	6020B		5	818344	RN	EET CHI	05/19/25 12:13
Total/NA	Prep	7470A			818548	MJG	EET CHI	05/21/25 10:20 - 05/21/25 12:20 ¹
Total/NA	Analysis	7470A		1	818745	MJG	EET CHI	05/22/25 09:13
Total/NA	Analysis	SM 2540C		1	818093	CLB	EET CHI	05/17/25 05:56
Total/NA	Analysis	SM 4500 Cl- E		5	818307	TR	EET CHI	05/19/25 13:42
Total/NA	Analysis	SM 4500 F C		1	818591	AC	EET CHI	05/21/25 10:31
Total/NA	Analysis	SM 4500 SO4 E		10	818457	TR	EET CHI	05/20/25 13:16

Lab Chronicle

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

Job ID: 500-268206-1

Client Sample ID: Duplicate
Date Collected: 05/13/25 00:00
Date Received: 05/14/25 09:20

Lab Sample ID: 500-268206-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			817706	S1Z	EET CHI	05/14/25 15:56 - 05/14/25 21:56 ¹
Total Recoverable	Analysis	6020B		1	818169	RN	EET CHI	05/16/25 15:46
Total Recoverable	Prep	3005A			817706	S1Z	EET CHI	05/14/25 15:56 - 05/14/25 21:56 ¹
Total Recoverable	Analysis	6020B		5	818344	RN	EET CHI	05/19/25 12:16
Total/NA	Prep	7470A			818548	MJG	EET CHI	05/21/25 10:20 - 05/21/25 12:20 ¹
Total/NA	Analysis	7470A		1	818745	MJG	EET CHI	05/22/25 09:15
Total/NA	Analysis	SM 2540C		1	818093	CLB	EET CHI	05/17/25 05:59
Total/NA	Analysis	SM 4500 Cl- E		5	818307	TR	EET CHI	05/19/25 13:42
Total/NA	Analysis	SM 4500 F C		1	818591	AC	EET CHI	05/21/25 10:34
Total/NA	Analysis	SM 4500 SO4 E		10	818457	TR	EET CHI	05/20/25 13:17

Client Sample ID: MW-11
Date Collected: 05/14/25 14:44
Date Received: 05/15/25 09:40

Lab Sample ID: 500-268206-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			817948	BDE	EET CHI	05/16/25 08:25 - 05/16/25 14:25 ¹
Total Recoverable	Analysis	6020B		1	818344	RN	EET CHI	05/19/25 13:26
Total/NA	Prep	7470A			818548	MJG	EET CHI	05/21/25 10:20 - 05/21/25 12:20 ¹
Total/NA	Analysis	7470A		1	818745	MJG	EET CHI	05/22/25 10:23
Total/NA	Analysis	SM 2540C		1	818093	CLB	EET CHI	05/17/25 06:02
Total/NA	Analysis	SM 4500 Cl- E		2	818307	TR	EET CHI	05/19/25 13:42
Total/NA	Analysis	SM 4500 F C		1	818591	AC	EET CHI	05/21/25 10:37
Total/NA	Analysis	SM 4500 SO4 E		1	818457	TR	EET CHI	05/20/25 12:24

Client Sample ID: MW-14
Date Collected: 05/14/25 16:00
Date Received: 05/15/25 09:40

Lab Sample ID: 500-268206-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			817948	BDE	EET CHI	05/16/25 08:25 - 05/16/25 14:25 ¹
Total Recoverable	Analysis	6020B		1	818344	RN	EET CHI	05/19/25 13:28
Total/NA	Prep	7470A			818548	MJG	EET CHI	05/21/25 10:20 - 05/21/25 12:20 ¹
Total/NA	Analysis	7470A		1	818745	MJG	EET CHI	05/22/25 10:25
Total/NA	Analysis	SM 2540C		1	818093	CLB	EET CHI	05/17/25 06:04
Total/NA	Analysis	SM 4500 Cl- E		1	818307	TR	EET CHI	05/19/25 13:25
Total/NA	Analysis	SM 4500 F C		1	818591	AC	EET CHI	05/21/25 10:41
Total/NA	Analysis	SM 4500 SO4 E		1	818457	TR	EET CHI	05/20/25 12:24

¹ This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

Accreditation/Certification Summary

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

Job ID: 500-268206-1

Laboratory: Eurofins Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	100201	05-31-26

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 6/17/2025 3:13:36 PM

JOB DESCRIPTION

Waukegan CCR (RAD)

JOB NUMBER

500-268206-2

Eurofins Chicago

Job Notes

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

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

Authorization



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Authorized for release by
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(219)252-7570



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Case Narrative

Client: KPRG and Associates, Inc.
Project: Waukegan CCR (RAD)

Job ID: 500-268206-2

Job ID: 500-268206-2

Eurofins Chicago

Job Narrative 500-268206-2

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 5/13/2025 9:15 AM, 5/14/2025 9:20 AM and 5/15/2025 9:40 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 2.3°C, 5.2°C and 5.9°C.

Gas Flow Proportional Counter

Method 904.0: Radium-228 prep batch 160-718701:

The detection goal was not met for the following sample due to the reduced sample volume attributed to the presence of matrix interferences: MW-11 (500-268206-8) . Analytical results are reported with the detection limit achieved.

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

Rad

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

Eurofins Chicago

Method Summary

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

Job ID: 500-268206-2

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

Protocol References:

EPA = US Environmental Protection Agency

None = None

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

Laboratory References:

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



Sample Summary

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

Job ID: 500-268206-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-268206-1	MW-01	Water	05/12/25 12:10	05/13/25 09:15
500-268206-2	MW-02	Water	05/12/25 13:07	05/13/25 09:15
500-268206-3	MW-03	Water	05/12/25 14:29	05/13/25 09:15
500-268206-4	MW-04	Water	05/12/25 15:23	05/13/25 09:15
500-268206-5	MW-09	Water	05/13/25 11:25	05/14/25 09:20
500-268206-6	MW-16	Water	05/13/25 10:00	05/14/25 09:20
500-268206-7	Duplicate	Water	05/13/25 00:00	05/14/25 09:20
500-268206-8	MW-11	Water	05/14/25 14:44	05/15/25 09:40
500-268206-9	MW-14	Water	05/14/25 16:00	05/15/25 09:40

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Client Sample Results

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

Job ID: 500-268206-2

Client Sample ID: MW-01

Lab Sample ID: 500-268206-1

Date Collected: 05/12/25 12:10

Matrix: Water

Date Received: 05/13/25 09:15

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	<0.247	U	0.128	0.128	1.00	0.247	pCi/L	05/22/25 08:01	06/17/25 07:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.1		30 - 110					05/22/25 08:01	06/17/25 07:43	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	<0.668	U	0.365	0.365	1.00	0.668	pCi/L	05/22/25 08:06	06/16/25 14:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.1		30 - 110					05/22/25 08:06	06/16/25 14:08	1
Y Carrier	75.9		30 - 110					05/22/25 08:06	06/16/25 14:08	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	<0.668	U	0.387	0.387	5.00	0.668	pCi/L		06/17/25 13:46	1

Client Sample Results

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

Job ID: 500-268206-2

Client Sample ID: MW-02

Lab Sample ID: 500-268206-2

Date Collected: 05/12/25 13:07

Matrix: Water

Date Received: 05/13/25 09:15

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	<0.307	U	0.184	0.184	1.00	0.307	pCi/L	05/22/25 08:01	06/17/25 07:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.1		30 - 110					05/22/25 08:01	06/17/25 07:43	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	<0.529	U	0.353	0.356	1.00	0.529	pCi/L	05/22/25 08:06	06/16/25 14:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.1		30 - 110					05/22/25 08:06	06/16/25 14:08	1
Y Carrier	80.0		30 - 110					05/22/25 08:06	06/16/25 14:08	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.640		0.398	0.401	5.00	0.529	pCi/L		06/17/25 13:46	1

Client Sample Results

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

Job ID: 500-268206-2

Client Sample ID: MW-03

Lab Sample ID: 500-268206-3

Date Collected: 05/12/25 14:29

Matrix: Water

Date Received: 05/13/25 09:15

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.250		0.167	0.169	1.00	0.198	pCi/L	05/22/25 08:01	06/17/25 07:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	72.9		30 - 110					05/22/25 08:01	06/17/25 07:43	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	<0.804	U	0.462	0.463	1.00	0.804	pCi/L	05/22/25 08:06	06/16/25 14:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	72.9		30 - 110					05/22/25 08:06	06/16/25 14:08	1
Y Carrier	74.4		30 - 110					05/22/25 08:06	06/16/25 14:08	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	<0.804	U	0.491	0.493	5.00	0.804	pCi/L		06/17/25 13:46	1

Client Sample Results

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

Job ID: 500-268206-2

Client Sample ID: MW-04

Lab Sample ID: 500-268206-4

Date Collected: 05/12/25 15:23

Matrix: Water

Date Received: 05/13/25 09:15

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	<0.301	U	0.180	0.180	1.00	0.301	pCi/L	05/22/25 08:01	06/17/25 07:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.6		30 - 110					05/22/25 08:01	06/17/25 07:43	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	<0.671	U	0.379	0.379	1.00	0.671	pCi/L	05/22/25 08:06	06/16/25 14:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.6		30 - 110					05/22/25 08:06	06/16/25 14:08	1
Y Carrier	77.0		30 - 110					05/22/25 08:06	06/16/25 14:08	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	<0.671	U	0.420	0.420	5.00	0.671	pCi/L		06/17/25 13:46	1

Client Sample Results

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

Job ID: 500-268206-2

Client Sample ID: MW-09

Lab Sample ID: 500-268206-5

Date Collected: 05/13/25 11:25

Matrix: Water

Date Received: 05/14/25 09:20

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.409		0.237	0.239	1.00	0.323	pCi/L	05/22/25 08:01	06/17/25 07:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.3		30 - 110					05/22/25 08:01	06/17/25 07:43	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.505		0.338	0.341	1.00	0.498	pCi/L	05/22/25 08:06	06/16/25 14:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.3		30 - 110					05/22/25 08:06	06/16/25 14:08	1
Y Carrier	80.4		30 - 110					05/22/25 08:06	06/16/25 14:08	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.914		0.413	0.416	5.00	0.498	pCi/L		06/17/25 13:46	1

Client Sample Results

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

Job ID: 500-268206-2

Client Sample ID: MW-16

Lab Sample ID: 500-268206-6

Date Collected: 05/13/25 10:00

Matrix: Water

Date Received: 05/14/25 09:20

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.329		0.218	0.220	1.00	0.297	pCi/L	05/22/25 08:01	06/17/25 07:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.4		30 - 110					05/22/25 08:01	06/17/25 07:43	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.746		0.432	0.438	1.00	0.604	pCi/L	05/22/25 08:06	06/16/25 14:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.4		30 - 110					05/22/25 08:06	06/16/25 14:08	1
Y Carrier	71.4		30 - 110					05/22/25 08:06	06/16/25 14:08	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.07		0.484	0.490	5.00	0.604	pCi/L		06/17/25 13:46	1

Client Sample Results

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

Job ID: 500-268206-2

Client Sample ID: Duplicate

Lab Sample ID: 500-268206-7

Date Collected: 05/13/25 00:00

Matrix: Water

Date Received: 05/14/25 09:20

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	<0.263	U	0.161	0.162	1.00	0.263	pCi/L	05/22/25 08:01	06/17/25 07:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.6		30 - 110					05/22/25 08:01	06/17/25 07:43	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	<0.613	U	0.397	0.400	1.00	0.613	pCi/L	05/22/25 08:06	06/16/25 14:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.6		30 - 110					05/22/25 08:06	06/16/25 14:08	1
Y Carrier	76.6		30 - 110					05/22/25 08:06	06/16/25 14:08	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.647		0.428	0.432	5.00	0.613	pCi/L		06/17/25 13:46	1

Client Sample Results

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

Job ID: 500-268206-2

Client Sample ID: MW-11

Lab Sample ID: 500-268206-8

Date Collected: 05/14/25 14:44

Matrix: Water

Date Received: 05/15/25 09:40

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	2.56		0.696	0.733	1.00	0.599	pCi/L	05/22/25 08:01	06/17/25 09:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.1		30 - 110					05/22/25 08:01	06/17/25 09:35	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	10.6	G	1.78	2.03	1.00	1.58	pCi/L	05/22/25 08:06	06/16/25 14:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.1		30 - 110					05/22/25 08:06	06/16/25 14:09	1
Y Carrier	76.6		30 - 110					05/22/25 08:06	06/16/25 14:09	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	13.2		1.91	2.16	5.00	1.58	pCi/L		06/17/25 13:46	1

Client Sample Results

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

Job ID: 500-268206-2

Client Sample ID: MW-14

Lab Sample ID: 500-268206-9

Date Collected: 05/14/25 16:00

Matrix: Water

Date Received: 05/15/25 09:40

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	<0.266	U	0.178	0.179	1.00	0.266	pCi/L	05/22/25 08:01	06/17/25 09:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.1		30 - 110					05/22/25 08:01	06/17/25 09:35	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	<0.764	U	0.426	0.426	1.00	0.764	pCi/L	05/22/25 08:06	06/16/25 14:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.1		30 - 110					05/22/25 08:06	06/16/25 14:09	1
Y Carrier	71.8		30 - 110					05/22/25 08:06	06/16/25 14:09	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	<0.764	U	0.462	0.462	5.00	0.764	pCi/L		06/17/25 13:46	1

Definitions/Glossary

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

Job ID: 500-268206-2

Qualifiers

Rad

Qualifier	Qualifier Description
G	The Sample MDC is greater than the requested RL.
U	Result is less than the sample detection limit.

Glossary

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

QC Association Summary

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

Job ID: 500-268206-2

Rad

Prep Batch: 718700

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-268206-1	MW-01	Total/NA	Water	PrecSep-21	
500-268206-2	MW-02	Total/NA	Water	PrecSep-21	
500-268206-3	MW-03	Total/NA	Water	PrecSep-21	
500-268206-4	MW-04	Total/NA	Water	PrecSep-21	
500-268206-5	MW-09	Total/NA	Water	PrecSep-21	
500-268206-6	MW-16	Total/NA	Water	PrecSep-21	
500-268206-7	Duplicate	Total/NA	Water	PrecSep-21	
500-268206-8	MW-11	Total/NA	Water	PrecSep-21	
500-268206-9	MW-14	Total/NA	Water	PrecSep-21	
MB 160-718700/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-718700/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 718701

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-268206-1	MW-01	Total/NA	Water	PrecSep_0	
500-268206-2	MW-02	Total/NA	Water	PrecSep_0	
500-268206-3	MW-03	Total/NA	Water	PrecSep_0	
500-268206-4	MW-04	Total/NA	Water	PrecSep_0	
500-268206-5	MW-09	Total/NA	Water	PrecSep_0	
500-268206-6	MW-16	Total/NA	Water	PrecSep_0	
500-268206-7	Duplicate	Total/NA	Water	PrecSep_0	
500-268206-8	MW-11	Total/NA	Water	PrecSep_0	
500-268206-9	MW-14	Total/NA	Water	PrecSep_0	
MB 160-718701/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-718701/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

QC Sample Results

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

Job ID: 500-268206-2

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-718700/1-A
Matrix: Water
Analysis Batch: 722748

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 718700

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	<0.258	U	0.173	0.174	1.00	0.258	pCi/L	05/22/25 08:01	06/17/25 07:42	1
Carrier	MB %Yield	MB Qualifier	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	83.6		30 - 110		05/22/25 08:01	06/17/25 07:42	1			

Lab Sample ID: LCS 160-718700/2-A
Matrix: Water
Analysis Batch: 722748

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 718700

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-226	9.58	8.476		1.13	1.00	0.312	pCi/L	89	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	90.5		30 - 110						

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-718701/1-A
Matrix: Water
Analysis Batch: 722649

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 718701

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	<0.580	U	0.317	0.317	1.00	0.580	pCi/L	05/22/25 08:06	06/16/25 14:02	1
Carrier	MB %Yield	MB Qualifier	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	83.6		30 - 110		05/22/25 08:06	06/16/25 14:02	1			
Y Carrier	84.1		30 - 110		05/22/25 08:06	06/16/25 14:02	1			

Lab Sample ID: LCS 160-718701/2-A
Matrix: Water
Analysis Batch: 722649

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 718701

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-228	9.34	10.97		1.45	1.00	0.515	pCi/L	117	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	90.5		30 - 110						
Y Carrier	79.3		30 - 110						

Eurofins Chicago

18410 Crossing Drive Suite E
 Tinley Park, IL 60487
 Phone 708-534-5200 Fax 708-534-5211

Chain of Custody Record

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Client Information		Sampler Kaelyn Sperle		Lab PM Mockler, Diana J		Carrier Tracking No(s)		COC No 500-136154-44027 1																							
Client Contact Mitchel Dolar Kaelyn Sperle		Phone 262-278-1621		E-Mail Diana.Mockler@et.eurofins.com		State of Origin IL		Page Page 1 of 1																							
Company KPRG and Associates, Inc		PWSID		Analysis Requested				Job # 510-268206																							
Address 14665 West Lisbon Road, Suite 1A		Due Date Requested Standard		<table border="1"> <tr> <td>903.0, 904.0</td> <td>6010C, 6020A, 7470A</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>2540C, 4500_F_C, SM4500_CL_E, SM4500_SO4_E</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>				903.0, 904.0	6010C, 6020A, 7470A									2540C, 4500_F_C, SM4500_CL_E, SM4500_SO4_E										TAT Requested (days) Standard		Preservation Codes D - HNO3 N - None	
903.0, 904.0	6010C, 6020A, 7470A																														
2540C, 4500_F_C, SM4500_CL_E, SM4500_SO4_E																															
City Brookfield		Compliance Project <input type="checkbox"/> Yes <input type="checkbox"/> No						Project # 50011597		Other		Special Instructions/Note:																			
Slate, Zip WI, 53005		PO # 4502188389		WO #		Total Number of Containers																									
Phone 262-781-0475(Tel)		Project Name Waukegan CCR Event Desc Quarterly Waukegan CCR		SSOW#																											
Email mitchel@kprginc.com kaelyns@kprginc.com		Site Illinois																													
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wastefoil, BT=Tissue, A=Air)	Field Filtered Samples (Yes or No)	Perforated Samples (Yes or No)																								
								Preservation Code																							
MW-01					Water			D D N																							
MW-02					Water																										
MW-08					Water																										
MW-04					Water																										
5 MW-09		5/13/25	1125	G	Water	N	N	X	X	X	5																				
MW-14					Water																										
MW-14					Water																										
6 MW-16		5/13/25	1000	G	Water	N	N	X	X	X	5																				
Duplicate		5/13/25	-	G	Water	N	N	X	X	X	5																				
					Water																										
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)																									
<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological						<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months																									
Deliverable Requested I, II, III, IV, Other (specify)						Special Instructions/QC Requirements																									
Empty Kit Relinquished by			Date	Time	Method of Shipment:																										
Relinquished by Kaelyn Sperle			Date/Time 5/13/25/1300	Company KPRG	Received by FedEx		Date/Time 5/13/25/1300	Company FedEx																							
Relinquished by			Date/Time	Company	Received by Rita Russo		Date/Time 5/14/25 0920	Company ERTD																							
Relinquished by			Date/Time	Company	Received by		Date/Time	Company																							
Custody Seals Intact		Custody Seal No		Cooler Temperature(s) °C and Other Remarks 4.9-7.5																											
<input type="checkbox"/> Yes <input type="checkbox"/> No																															



Eurofins Chicago

18410 Crossing Drive Suite E
 Tinley Park, IL 60487
 Phone 708-534-5200 Fax 708-534-5211

Chain of Custody Record

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Client Information		Sampler Kaelyn Sperle		Lab PM Mockler, Diana J		Carrier Tracking No(s)		COC No: 500-136154-44027 1			
Client Contact: Mitchel Dolar Kaelyn Sperle		Phone 262-278-1621		E-Mail Diana.Mockler@et.eurofins.com		State of Origin IL		Page Page 1 of 1			
Company KPRG and Associates, Inc.		PWSID		Analysis Requested				Job # 500-268206			
Address: 14665 West Lisbon Road, Suite 1A		Due Date Requested Standard		 <p>500-268206 COC</p>				Preservation Codes: D - HNO3 N - None			
City Brookfield		TAT Requested (days) Standard						Compliance Project <input type="checkbox"/> Yes <input type="checkbox"/> No		Other	
State, Zip WI, 53005		PO #: 4502188389						Project # 50011597		Special Instructions/Note:	
Phone 262-781-0475(Tel)		WO #						Project Name Waukegan CCR Event Desc Quarterly Waukegan CCR		Site Illinois	
Email mitchel.dolar@kprginc.com kaelyns@kprginc.com		SSOW#						Sample Identification		Sample Date	
Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/soil, ST=Tissue, A=Air)		Preservation Code			
MW-01						Water					
MW-02						Water					
MW-03						Water					
MW-04						Water					
MW-05						Water					
8 MW-11		5/14/25 1444		G		Water		N N X X X			
9 MW-14		5/14/25 1600		↓		Water		N N ↓ ↓ ↓			
MW-10						Water					
Duplicate						Water					
						Water					
Possible Hazard Identification					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)						
<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological					<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months						
Deliverable Requested I, II, III, IV, Other (specify)					Special Instructions/QC Requirements						
Empty Kit Relinquished by		Date		Time		Method of Shipment.					
Relinquished by Kaelyn Sperle		Date/Time 5/14/25/1735		Company KPRG		Received by FedEx		Date/Time 5/14/25/1735		Company FedEx	
Relinquished by		Date/Time		Company		Received by Stephanie Hernandez		Date/Time 5/15/25 0940		Company EETA	
Relinquished by		Date/Time		Company		Received by		Date/Time		Company	
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks 1.7-2.3							

1634

environment
estAmerica

KPRG AND ASSOCIATES, INC
14665 WEST LIBSON ROAD
SUITE 1A
BROOKFIELD, WI 53005
UNITED STATES US

CAD 07803077/CAFE3855

Part # 59479-434 MTW/EXP 09/25



500-268206 Waybi

10 **SAMPLE RECEIPT**
EUROFINS
18410 CROSSING DRIVE
SUITE E
TINLEY PARK IL 60487

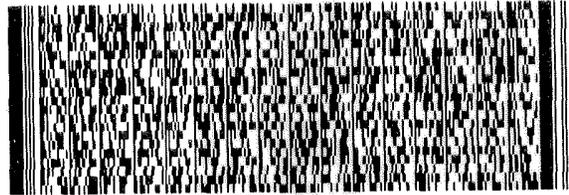
(708) 634-6200

REF:

INV:

DEP1

RMA



FedEx
Express



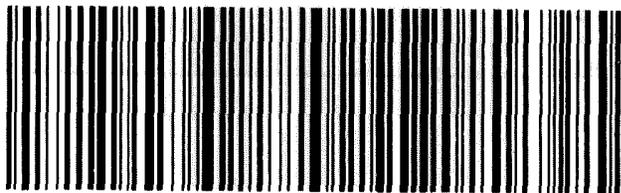
RETURNS MON-SAT
PRIORITY OVERNIGHT
TUE - 13 MAY 10:30A
PRIORITY OVERNIGHT

FedEx

TRK#
0221 4523 1806 2875

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60487
IL-US ORD



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ABILITY OF FILE
KPRG AND ASSOCIATES, INC
14665 WEST LIBSON ROAD
SUITE 1A
BROOKFIELD, WI 53005
UNITED STATES US

1101201 23 50 00 1001
CAD 0780307/CAFE3855

TO **SAMPLE RECEIPT**
EUROFINS
18410 CROSSING DRIVE
SUITE E
TINLEY PARK IL 60487



500-268206 Waybi

(700) 534-5200

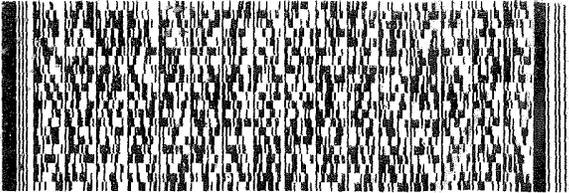
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DEPT

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PO

RMA



FedEx
Express



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FedEx

TRK#
0221

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DELIVERING MON AM
WED - 14 MAY 10:30A
PRIORITY OVERNIGHT

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KPRG
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PART # 156297-435 FRODOVZ EXP 11/25

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* KALYN SPERLE
KPRG AND ASSOCIATES, INC
14665 WEST LIBSON ROAD
SUITE 1A
BROOKFIELD, WI 53005
UNITED STATES US

ACTWGT: 25.00 LB MAN
CAD: 0780307/CAFE3855

Plat 1509681-434 MUM EXP 09 09
SRSCS/1184/FF21

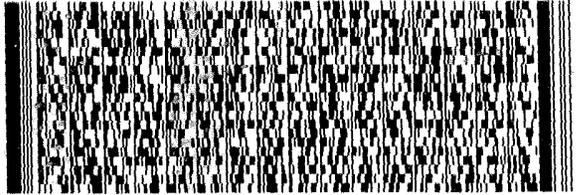
TO **SAMPLE RECEIPT**
EUROFINS
18410 CROSSING DRIVE
SUITE E
TINLEY PARK IL 60487

(708) 584-5200
INV: POI

REF:

DEPT:

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AN 1090/062024/0401

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TRK# 4523 1806 3080
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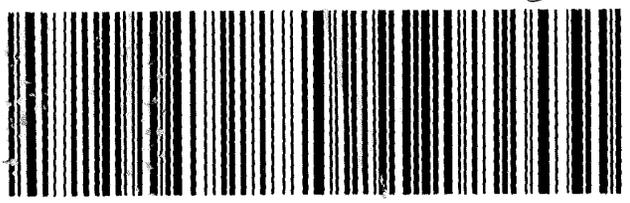
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1509681-434 MUM EXP 11/25



45694419 05/14 580J4/EA36/59F2



500-268206 Waybi

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Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler: N/A	Lab PM: Mockler, Diana J	Carrier Tracking No(s): N/A	COC No: 500-200459-1	
Client Contact		Phone: N/A	E-Mail: Diana Mockler@et.eurofins.com	State of Origin: Illinois	Page: Page 1 of 1	
Shipping/Receiving		Phone: N/A			Job #: 500-268206-2	
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Preservation Codes:		
Address: 13715 Ridler Trail North,		Due Date Requested: 6/3/2025		Analysis Requested:		
City: Earth City		TAT Requested (days): N/A		Total Number of Containers		
State, Zip: MO, 63045		PO #: N/A		Field Filtered Sample (Yes or No)		
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		WO #: N/A		Perform MS/MSD (Yes or No)		
Email: N/A		Project #: 50011597		903.0/PreSep_21 Standard Target List		
Project Name: Waukegan CCR (RAD)		SSOW#: N/A		904.0/PreSep_0 Standard Target List		
Site: NRG Midwest Generation Waukegan				Ra226Ra228_GFPc		
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=water/oi, BT=Tissue, AA=)	Preservation Code	Special Instructions/Note:
MW-09 (500-268206-5)	5/13/25	11:25 Central	G	Water	G	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume.
MW-16 (500-268206-6)	5/13/25	10:00 Central	G	Water	G	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume.
Duplicate (500-268206-7)	5/13/25	Central	G	Water	G	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume.
<p>Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analytes/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.</p>						
Possible Hazard Identification						
Unconfirmed						
Deliverable Requested: I, II, III, IV, Other (specify)						
Primary Deliverable Rank: 2						
Empty Kit Relinquished by:						
Date: _____ Time: _____ Method of Shipment:						
Relinquished by: <i>Rashmi Nawar</i> Company: <i>EEA</i> Received by: <i>Cheyenne Forrest</i> Date/Time: <i>5/14/25 10:00</i> Date/Time: <i>08/25 MAY 15 2025</i> Company: _____						
Relinquished by: _____ Company: _____ Received by: Cheyenne Forrest Date/Time: _____ Date/Time: _____ Company: _____						
Relinquished by: _____ Company: _____ Received by: _____ Date/Time: _____ Date/Time: _____ Company: _____						
Custody Seals Intact: _____ Cooler Temperature(s) °C and Other Remarks:						
Δ Yes Δ No						



Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-268206-2

Login Number: 268206

List Source: Eurofins Chicago

List Number: 1

Creator: Hernandez, Stephanie

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.9,5.2,2.3
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-268206-2

Login Number: 268206

List Number: 2

Creator: Forrest, Cheyenne L

List Source: Eurofins St. Louis

List Creation: 05/14/25 12:43 PM

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

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.



Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-268206-2

Login Number: 268206

List Number: 3

Creator: Forrest, Cheyenne L

List Source: Eurofins St. Louis

List Creation: 05/15/25 11:17 AM

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

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.



Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-268206-2

Login Number: 268206

List Number: 4

Creator: Worthington, Sierra M

List Source: Eurofins St. Louis

List Creation: 05/19/25 11:30 AM

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

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

Lab Chronicle

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

Job ID: 500-268206-2

Client Sample ID: MW-01
Date Collected: 05/12/25 12:10
Date Received: 05/13/25 09:15

Lab Sample ID: 500-268206-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			718700	OGC	EET SL	05/22/25 08:01
Total/NA	Analysis	903.0		1	722847	SWS	EET SL	06/17/25 07:43
Total/NA	Prep	PrecSep_0			718701	OGC	EET SL	05/22/25 08:06
Total/NA	Analysis	904.0		1	722446	SCB	EET SL	06/16/25 14:08
Total/NA	Analysis	Ra226_Ra228		1	722908	FLC	EET SL	06/17/25 13:46

Client Sample ID: MW-02
Date Collected: 05/12/25 13:07
Date Received: 05/13/25 09:15

Lab Sample ID: 500-268206-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			718700	OGC	EET SL	05/22/25 08:01
Total/NA	Analysis	903.0		1	722847	SWS	EET SL	06/17/25 07:43
Total/NA	Prep	PrecSep_0			718701	OGC	EET SL	05/22/25 08:06
Total/NA	Analysis	904.0		1	722446	SCB	EET SL	06/16/25 14:08
Total/NA	Analysis	Ra226_Ra228		1	722908	FLC	EET SL	06/17/25 13:46

Client Sample ID: MW-03
Date Collected: 05/12/25 14:29
Date Received: 05/13/25 09:15

Lab Sample ID: 500-268206-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			718700	OGC	EET SL	05/22/25 08:01
Total/NA	Analysis	903.0		1	722847	SWS	EET SL	06/17/25 07:43
Total/NA	Prep	PrecSep_0			718701	OGC	EET SL	05/22/25 08:06
Total/NA	Analysis	904.0		1	722446	SCB	EET SL	06/16/25 14:08
Total/NA	Analysis	Ra226_Ra228		1	722908	FLC	EET SL	06/17/25 13:46

Client Sample ID: MW-04
Date Collected: 05/12/25 15:23
Date Received: 05/13/25 09:15

Lab Sample ID: 500-268206-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			718700	OGC	EET SL	05/22/25 08:01
Total/NA	Analysis	903.0		1	722847	SWS	EET SL	06/17/25 07:43
Total/NA	Prep	PrecSep_0			718701	OGC	EET SL	05/22/25 08:06
Total/NA	Analysis	904.0		1	722446	SCB	EET SL	06/16/25 14:08
Total/NA	Analysis	Ra226_Ra228		1	722908	FLC	EET SL	06/17/25 13:46

Lab Chronicle

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

Job ID: 500-268206-2

Client Sample ID: MW-09

Lab Sample ID: 500-268206-5

Date Collected: 05/13/25 11:25

Matrix: Water

Date Received: 05/14/25 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			718700	OGC	EET SL	05/22/25 08:01
Total/NA	Analysis	903.0		1	722847	SWS	EET SL	06/17/25 07:43
Total/NA	Prep	PrecSep_0			718701	OGC	EET SL	05/22/25 08:06
Total/NA	Analysis	904.0		1	722446	SCB	EET SL	06/16/25 14:08
Total/NA	Analysis	Ra226_Ra228		1	722908	FLC	EET SL	06/17/25 13:46

Client Sample ID: MW-16

Lab Sample ID: 500-268206-6

Date Collected: 05/13/25 10:00

Matrix: Water

Date Received: 05/14/25 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			718700	OGC	EET SL	05/22/25 08:01
Total/NA	Analysis	903.0		1	722847	SWS	EET SL	06/17/25 07:43
Total/NA	Prep	PrecSep_0			718701	OGC	EET SL	05/22/25 08:06
Total/NA	Analysis	904.0		1	722446	SCB	EET SL	06/16/25 14:08
Total/NA	Analysis	Ra226_Ra228		1	722908	FLC	EET SL	06/17/25 13:46

Client Sample ID: Duplicate

Lab Sample ID: 500-268206-7

Date Collected: 05/13/25 00:00

Matrix: Water

Date Received: 05/14/25 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			718700	OGC	EET SL	05/22/25 08:01
Total/NA	Analysis	903.0		1	722847	SWS	EET SL	06/17/25 07:43
Total/NA	Prep	PrecSep_0			718701	OGC	EET SL	05/22/25 08:06
Total/NA	Analysis	904.0		1	722446	SCB	EET SL	06/16/25 14:08
Total/NA	Analysis	Ra226_Ra228		1	722908	FLC	EET SL	06/17/25 13:46

Client Sample ID: MW-11

Lab Sample ID: 500-268206-8

Date Collected: 05/14/25 14:44

Matrix: Water

Date Received: 05/15/25 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			718700	OGC	EET SL	05/22/25 08:01
Total/NA	Analysis	903.0		1	722847	SWS	EET SL	06/17/25 09:35
Total/NA	Prep	PrecSep_0			718701	OGC	EET SL	05/22/25 08:06
Total/NA	Analysis	904.0		1	722446	SCB	EET SL	06/16/25 14:09
Total/NA	Analysis	Ra226_Ra228		1	722908	FLC	EET SL	06/17/25 13:46

Lab Chronicle

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

Job ID: 500-268206-2

Client Sample ID: MW-14

Lab Sample ID: 500-268206-9

Date Collected: 05/14/25 16:00

Matrix: Water

Date Received: 05/15/25 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			718700	OGC	EET SL	05/22/25 08:01
Total/NA	Analysis	903.0		1	722847	SWS	EET SL	06/17/25 09:35
Total/NA	Prep	PrecSep_0			718701	OGC	EET SL	05/22/25 08:06
Total/NA	Analysis	904.0		1	722446	SCB	EET SL	06/16/25 14:09
Total/NA	Analysis	Ra226_Ra228		1	722908	FLC	EET SL	06/17/25 13:46

Laboratory References:

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



Accreditation/Certification Summary

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

Job ID: 500-268206-2

Laboratory: Eurofins St. Louis

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	200023	11-30-25

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

Tracer/Carrier Summary

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

Job ID: 500-268206-2

Method: 903.0 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (30-110)	
500-268206-1	MW-01	86.1	
500-268206-2	MW-02	88.1	
500-268206-3	MW-03	72.9	
500-268206-4	MW-04	78.6	
500-268206-5	MW-09	92.3	
500-268206-6	MW-16	77.4	
500-268206-7	Duplicate	87.6	
500-268206-8	MW-11	77.1	
500-268206-9	MW-14	76.1	
LCS 160-718700/2-A	Lab Control Sample	90.5	
MB 160-718700/1-A	Method Blank	83.6	
Tracer/Carrier Legend			
Ba = Ba Carrier			

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (30-110)	Y (30-110)
500-268206-1	MW-01	86.1	75.9
500-268206-2	MW-02	88.1	80.0
500-268206-3	MW-03	72.9	74.4
500-268206-4	MW-04	78.6	77.0
500-268206-5	MW-09	92.3	80.4
500-268206-6	MW-16	77.4	71.4
500-268206-7	Duplicate	87.6	76.6
500-268206-8	MW-11	77.1	76.6
500-268206-9	MW-14	76.1	71.8
LCS 160-718701/2-A	Lab Control Sample	90.5	79.3
MB 160-718701/1-A	Method Blank	83.6	84.1
Tracer/Carrier Legend			
Ba = Ba Carrier			
Y = Y Carrier			

PROJECT NAME	12313.2 - Waukegan Station		DATE	5/12/25 1135
Sample Name	MW-01	Start Time	1135 1150	
Condition of Well	good			
Water Level	22.92	Total Depth	-	
Well Diameter	PVC - 2 inch	Volume in Well	-	
Method of Purge	Low flow bladder	Purge Characteristics	clear	
Volume Removed	8 gts	WL at Sample Time	23.03	
Method of Sample	Low flow bladder	Sample Characteristics	clear	
Sample Analysis	permit, CCR	Sample Time	1210	
Water Quality Meter	YSI Pro DSS			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1151	22.92	7.20	12.5	.606	2.89	190.2	4.29
1154	-	7.35	12.6	.591	2.28	187.5	4.22
1157	-	7.43	12.5	.581	1.98	186.0	4.25
1200	-	7.50	12.4	.569	1.84	184.1	4.16
1203	-	7.58	12.4	.557	1.69	181.5	3.90
1206	23.03	7.66	12.5	.553	1.60	179.2	4.02

SAMPLING NOTES:

-delayed start time because moving bottlesets & coolers

Sampler Name and Company:

KPRG and Associates

KLS

PROJECT NAME	12313.2 - Waukegan Station		DATE	5/12/25
Sample Name	MW-02	Start Time	1247	
Condition of Well	good			
Water Level	22.72	Total Depth	-	
Well Diameter	PVC - 2 inch	Volume in Well	-	
Method of Purge	Low flow bladder	Purge Characteristics	clear	
Volume Removed	6 gts	WL at Sample Time	22.74	
Method of Sample	Low flow bladder	Sample Characteristics	clear	
Sample Analysis	permit, CCR	Sample Time	1307	
Water Quality Meter	YSI Pro DSS			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1248	22.72	7.62	13.2	.528	9.66	76.6	3.14
1251	-	7.55	12.5	.558	6.69	102.9	6.59
1254	-	7.74	12.3	.549	4.73	106.7	4.71
1257	-	7.92	12.3	.549	3.16	109.6	3.27
1300	-	7.96	12.3	.548	2.71	109.7	3.31
1303	22.74	7.99	12.3	.549	2.35	108.9	3.21

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates

KLS

PROJECT NAME	12313.2 – Waukegan Station		DATE	5/12/25
Sample Name	MW-03	Start Time	1410	
Condition of Well	good			
Water Level	23.13	Total Depth	-	
Well Diameter	PVC – 2 inch	Volume in Well	-	
Method of Purge	Low flow bladder	Purge Characteristics	clear	
Volume Removed	5.5 gts	WL at Sample Time	23.14	
Method of Sample	Low flow bladder	Sample Characteristics	clear	
Sample Analysis	permit, CCR	Sample Time	1429	
Water Quality Meter	YSI Pro DSS			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1413	23.13	9.55	12.7	.4908	8.64	136.7	4.20
1416	-	10.19	12.7	.4898	5.26	125.2	5.23
1419	-	10.33	12.7	.4907	4.22	119.9	4.90
1422	-	10.38	12.7	.4917	3.45	116.4	4.24
1425	23.14	10.37	12.7	.4936	2.90	114.1	3.86

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates

KUS

PROJECT NAME	12313.2 - Waukegan Station		DATE	5/12/25
Sample Name	MW-04	Start Time	1505	
Condition of Well	good			
Water Level	22.96	Total Depth	-	
Well Diameter	PVC - 2 inch	Volume in Well	-	
Method of Purge	Low flow bladder	Purge Characteristics	clear	
Volume Removed	6 gts	WL at Sample Time	22.97	
Method of Sample	Low flow bladder	Sample Characteristics	clear	
Sample Analysis	permit, CCR	Sample Time	1523	
Water Quality Meter	YSI Pro DSS			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1507	22.96	8.96	12.7	.515	9.47	140.5	4.50
1510	-	8.96	12.2	.4619	6.27	135.5	5.89
1513	-	8.88	12.2	.4627	4.06	134.6	4.07
1516	-	8.80	12.1	.4649	3.32	134.7	3.76
1519	-	8.67	12.1	.4689	2.70	134.9	3.64
1522	22.97	8.60	12.1	.4699	2.42	134.0	3.85

SAMPLING NOTES:

permit duplicate

Sampler Name and Company:

KPRG and Associates

KLS

PROJECT NAME	12313.2 - Waukegan Station		DATE	5/13/25
Sample Name	MW-09	Start Time	1058	
Condition of Well	good			
Water Level	10.93	Total Depth	-	
Well Diameter	PVC - 2 inch	Volume in Well	-	
Method of Purge	Low flow bladder	Purge Characteristics	cloudy, brown	
Volume Removed	7 gts	WL at Sample Time	11.07	
Method of Sample	Low flow bladder	Sample Characteristics	clear	
Sample Analysis	permit (not reported), CCR	Sample Time	1125	
Water Quality Meter	YSI Pro DSS			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1100	10.93	7.41	12.6	.879	7.53	143.1	292.92
1103	-	7.16	12.1	.878	4.59	20.5	287.53
1106	-	7.11	12.1	.878	3.78	-11.2	141.92
1109	-	7.03	12.1	.881	2.94	-34.2	47.97
1112	-	7.02	12.0	.881	2.55	-43.1	30.36
1115	-	7.03	12.1	.881	2.25	-50.3	23.83
1118	-	7.03	12.1	.881	2.02	-55.3	20.09
1121	11.07	7.04	12.1	.880	1.83	-59.7	19.45

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates

KLS

PROJECT NAME	12313.2 - Waukegan Station		DATE	5/14/25
Sample Name	MW-11	Start Time	1412	
Condition of Well	good			
Water Level	6.50	Total Depth	-	
Well Diameter	PVC - 2 inch	Volume in Well	-	
Method of Purge	Low flow bladder	Purge Characteristics	opaque, orange-brown	
Volume Removed	7 gts	WL at Sample Time	6.51	
Method of Sample	Low flow bladder	Sample Characteristics	cloudy, orange-brown	
Sample Analysis	permit (ELUC), CCR	Sample Time	1444	
Water Quality Meter	YSI Pro DSS			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1422	6.50	7.08	11.8	.945	7.24	-24.9	2382.36
1425	-	6.93	11.6	.941	4.34	-52.5	2169.45
1428	-	6.92	11.4	.941	3.11	-63.2	193 1895.15
1431	-	6.93	11.4	.942	2.88	-64.8	1823.08
1434	-	6.92	11.6	.940	3.76	-56.3	1851.52
1437	-	6.93	11.4	.942	2.60	-63.9	1436.63
1440	6.51	6.93	11.4	.941	2.27	-66.7	1297.73

changing quickly
difficult to get reading

SAMPLING NOTES:

- let well purge before taking readings - high turbidity, wanted to see if it would clear up

* flushed out flow-through cell

Sampler Name and Company:

KPRG and Associates

KLS

PROJECT NAME	12313.2 - Waukegan Station		DATE	5/14/25
Sample Name	MW-14	Start Time	1535	
Condition of Well	good			
Water Level	5.81	Total Depth	-	
Well Diameter	PVC - 2 inch	Volume in Well	-	
Method of Purge	Low flow bladder	Purge Characteristics	cloudy, orange	
Volume Removed	6 gts	WL at Sample Time	5.83	
Method of Sample	Low flow bladder	Sample Characteristics	sl. cloudy	
Sample Analysis	permit(ELUC), CCR	Sample Time	1600	
Water Quality Meter	YSI Pro DSS			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1538	5.81	7.27	10.0	.714	7.80	120.4	119.7
1541	-	7.02	9.9	.705	4.81	67.9	90.39
1544	-	6.92	9.8	.712	3.95	35.2	104.79
1547	-	6.86	9.7	.725	3.02	9.8	75.17
1550	-	6.85	9.7	.729	2.57	-0.9	97.22
1553	-	6.85	9.7	.734	2.27	-6.8	63.29
1556	5.83	6.84	9.5	.746	2.01	-11.1	50.05

SAMPLING NOTES:

1
-
Sig

Sampler Name and Company:

KPRG and Associates

KLS

PROJECT NAME	12313.2 – Waukegan Station		DATE	5/13/25
Sample Name	MW-16	Start Time	0929	
Condition of Well	good			
Water Level	27.78	Total Depth	-	
Well Diameter	PVC – 2 inch	Volume in Well	-	
Method of Purge	Low flow bladder	Purge Characteristics	cloudy, brown	
Volume Removed	4.5 gts	W L at Sample Time	2780	
Method of Sample	Low flow bladder	Sample Characteristics	clear	
Sample Analysis	CCR	Sample Time	1000	
Water Quality Meter	YSI Pro DSS			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
0936	27.78	7.56	13.5	.971	4.35	144.1	39.01
0939	-	7.05	13.5	1.109	5.58	135.9	177.61
0942	-	6.97	13.5	1.112	4.44	117.5	106.49
0944	-	6.93	13.5	1.112	3.64	95.3	46.16
0947	-	6.92	13.5	1.111	2.90	70.2	23.34
0950	-	6.92	13.5	1.108	2.51	58.7	17.94
0953	-	6.92	13.6	1.107	2.30	50.1	16.63
0956	-	6.93	13.6	1.104	2.01	39.2	12.85
0959	2780	6.94	13.6	1.106	1.82	32.3	12.35

SAMPLING NOTES:

CCR duplicate

Sampler Name and Company:

KPRG and Associates

KUS