

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 3rd quarter 2024 which includes the entire list of parameters specified under Section 845.600(a)(1) and (b). Table 1 is a summary table of all available CCR monitoring data to date including any data generated previously as part of the Federal CCR Rule monitoring. In addition, Table 2 provides a summary of turbidity data which was collected as part of State CCR Rule requirements which is a data parameter that was not required under the Federal CCR Rule.

No background statistics or proposed Groundwater Protection Standards are included on these tables. The background statistics and Proposed Groundwater Protection Standards were submitted to Illinois Environmental Protection Agency (EPA) as part of the Application for Initial Operating Permit submitted 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, Walkgen Station, Walkgen, 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	
MW-09 sp-grout	11/4/2015	13	210	450	0.14	6.60	370	1700	< 0.003	< 0.001	0.015	^A < 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.081	< 0.0002	0.360	0.1818	< 0.0025	< 0.002	
	3/2/2016	35	380	730	0.11	7.02	970	2800	< 0.003	0.06	0.05	< 0.001	< 0.0005	0.043	< 0.001	0.0061	0.094	< 0.0002	0.51	< 0.36	0.025	< 0.002	
	5/3/2016	16	310	620	0.12	7.02	740	2500	< 0.003	0.0014	0.025	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.083	< 0.0002	0.63	< 0.512	0.024	< 0.002	
	8/25/2016	4.5	180	270	0.21	7.17	190	1100	< 0.004	0.024	0.024	< 0.001	0.0011	0.046	0.0027	0.049	< 0.0002	0.063	0.482	0.059	< 0.002	< 0.002	
	1/28/2017	15	200	330	0.18	7.01	270	1300	< 0.003	0.004	0.004	< 0.001	0.0052	< 0.005	< 0.001	< 0.0005	0.077	< 0.0002	0.24	< 0.72	0.077	< 0.002	
	2/23/2017	14	190	290	0.12	7.68	320	1300	< 0.003	0.0027	0.014	< 0.001	< 0.0005	0.059	0.0018	< 0.0005	0.068	< 0.0002	0.26	< 0.461	0.016	< 0.002	
	5/16/2017	27	160	67	0.29	8.15	420	970	< 0.003	< 0.001	0.0094	^A < 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.045	< 0.0002	0.51	< 0.342	0.0085	< 0.002	
	7/6/2017	21	220	430	0.13	7.18	610	1800	< 0.003	0.002	0.018	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.089	< 0.0002	0.31	< 0.316	0.021	< 0.002	
	9/13/2017	21	250	420	0.14	7.17	520	1800	< 0.003	0.0067	0.019	< 0.001	< 0.0005	0.0052	0.0017	< 0.0005	0.069	< 0.0002	0.33	< 0.944	0.041	< 0.002	
	11/29/2017	26	200	390	0.13	7.05	390	1600	< 0.003	0.0017	0.015	^A < 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.086	< 0.0002	0.47	0.625	0.042	< 0.002	
	5/31/2018	32	200	290	0.14	7.05	490	1000	< 0.003	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	< 0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/15/2019	26	120	260	0.13	7.53	31	1000	< 0.003	< 0.001	0.0073	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.035	< 0.0002	0.54	< 0.433	< 0.0025	< 0.002	
	11/19/2019	22	160	17	0.16	8.04	300	750	< 0.003	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	< 0.003	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	< 0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/6/2021	31	170	35	0.12	7.51	420	910	< 0.003	< 0.001	0.0075	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.04	< 0.0002	0.47	< 0.614	0.023	< 0.002	
	8/19/2021	7.2	150	170	0.13	7.01	210	350	< 0.003	0.0019	0.015	< 0.001	< 0.0005	< 0.005	^A < 0.001	0.0015	0.066	< 0.0002	0.12	< 0.457	0.071	^A < 0.002	
	11/4/2021	10	150	160	0.24	7.07	180	980	< 0.003	0.0026	0.074	^A < 0.001	< 0.0005	< 0.005	0.0011	< 0.0005	0.06	< 0.0002	0.12	< 0.775	0.097	< 0.002	
	2/10/2022	9.5	190	220	0.17	7.11	270	1300	< 0.003	0.015	0.033	< 0.001	0.00076	< 0.005	0.0038	< 0.0005	0.065	< 0.0002	0.21	< 0.523	0.036	< 0.002	
5/24/2022	5.3	150	180	0.23	7.15	200	940	< 0.003	0.0019	0.02	^A < 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.054	< 0.0002	0.18	< 0.444	< 0.002	< 0.002		
8/25/2022	12	170	170	0.22	7.14	290	1100	< 0.003	0.0012	0.046	^A < 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.048	< 0.0002	0.21	< 0.487	0.034	< 0.002		
11/7/2022	6.4	160	200	0.51	6.98	220	1100	< 0.003	0.0083	0.14	^A < 0.001	< 0.0005	< 0.005	0.0013	0.034	0.057	< 0.0002	0.088	2.58	< 0.0025	< 0.002		
12/21/2022 (R)	NS	NS	NS	0.4	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
2/13/2023	B 2.8	280	220	0.12	6.97	400	1500	< 0.0030	0.0011	0.074	< 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.0050	0.062	< 0.00020	0.46	1.01	0.029	< 0.0020		
5/9/2023	4.7	140	220	0.23	7.08	290	890	< 0.0030	0.0011	0.021	^A < 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.0050	0.045	< 0.00020	0.15	< 0.557	< 0.0025	< 0.0020		
8/8/2023	^A	270	580	0.23	6.98	510	1800	< 0.0030	0.0021	0.11	< 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.0050	0.062	< 0.00020	0.35	< 0.754	0.022	< 0.0020		
11/28/2023	2.6	96	170	0.33	7.15	130	750	< 0.0030	0.0071	0.061	^A < 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.0050	0.053	< 0.00020	0.049	0.652	< 0.0025	< 0.0020		
2/6/2024	24	240	150	0.18	6.88	460	1300	^A < 0.0030	0.0035	0.12	< 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.0050	< 0.20	< 0.00020	0.32	1.09	0.070	< 0.0020		
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	< 0.0050	0.047	< 0.00020	0.074	0.768	< 0.0025	< 0.0020		
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	< 0.0050	0.045	< 0.00020	0.14	1.10	< 0.0025	< 0.0020		
11/5/2015	5.2	140	240	0.13	6.51	190	1100	< 0.003	0.77	0.059	^A < 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.055	< 0.0002	< 0.0050	0.656	< 0.0025	< 0.002		
3/2/2016	4.0	170	240	0.10	7.16	210	1200	< 0.003	0.55	0.048	< 0.001	< 0.0005	0.0058	< 0.001	0.011	0.049	< 0.0002	< 0.0050	1.09	< 0.0025	< 0.002		
5/5/2016	5.0	140	280	0.11	7.17	160	1000	< 0.003	0.51	0.038	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.057	< 0.0002	< 0.005	1.24	< 0.0025	< 0.002		
8/26/2016	3.5	180	240	0.13	6.97	110	1100	< 0.003	1.1	0.05	< 0.001	< 0.0005	0.0055	< 0.001	0.0005	0.055	< 0.0002	< 0.005	1.04	< 0.0025	< 0.002		
12/7/2016	3.0	170	270	0.12	7.06	110	1200	< 0.003	0.87	0.049	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.038	< 0.0002	< 0.005	1.87	< 0.0025	< 0.002		
2/24/2017	2.4	180	220	0.24	6.61	170	1200	< 0.003	0.58	0.047	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.039	< 0.0002	< 0.005	0.982	< 0.0025	< 0.002		
5/18/2017	1.8	140	170	0.12	7.43	120	1100	< 0.003	0.57	0.047	^A < 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.047	< 0.0002	< 0.005	1.31	< 0.0025	< 0.002		
7/6/2017	2.4	160	190	0.14	7.33	130	1100	< 0.003	0.69	0.056	< 0.001	< 0.0005	0.0057	< 0.001	< 0.0005	0.041	< 0.0002	< 0.005	0.889	< 0.0025	< 0.002		
9/13/2017	1.9	140	150	0.26	7.16	96	870	< 0.003	0.86	0.036	< 0.001	< 0.0005	0.008	< 0.001	0.00071	0.037	< 0.0002	0.0054	0.718	< 0.0025	< 0.002		
11/30/2017	2.2	170	200	0.14	6.99	93	1100	< 0.003	0.59	0.05	^A < 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.041	< 0.0002	< 0.005	1.21	< 0.0025	< 0.002		
5/31/2018	1.5	210	160	0.1	6.74	130	1100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
11/6/2018	2.3	170	150	0.12	7.21	78	990	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
5/15/2019	1.2	120	260	0.22	7.14	290	1000	< 0.003	0.14	0.048	< 0.001	< 0.0005	< 0.005	< 0.001	0.0002	0.038	< 0.0002	0.15	< 0.0025	< 0.002	< 0.002		
11/19/2019	4.1	130	200	0.15	7.51	29	860	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
4/22/2020	3.2	110	150	0.15	7.16	47	740	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
11/19/2020	2.3	140	130	0.2	7.00	28	800	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
5/6/2021	2.4	130	120	0.15	7.13	45	770	< 0.003	0.44	0.044	< 0.001</												

Table 1. Groundwater Analytical Results - Midwest Generation, LLC, Walkegan Station, Walkegan, 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		
MW-02 down-gradient	11/2/2015	3.0	32	47	0.78	8.27	230	460	< 0.003	0.014	0.016	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.0002	0.0630	0.4628	< 0.0025	< 0.002	
	3/1/2016	4.1	39	47	1.3	8.57	220	510	< 0.003	0.011	0.02	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.0002	0.078	0.529	< 0.0025	< 0.002	
	5/4/2016	3.3	34	51	1.3	8.19	180	440	< 0.003	0.0081	0.018	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.0002	0.069	0.425	< 0.0025	< 0.002	
	8/23/2016	3.1	41	67	1.3	7.53	250	500	< 0.003	0.0082	0.016	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.0002	0.056	0.439	< 0.0025	< 0.002	
	12/5/2016	3.1	28	56	1.0	8.62	160	430	< 0.003	0.018	0.015	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.0002	0.071	0.509	< 0.0025	< 0.002	
	2/21/2017	3.3	31	52	0.76	8.75	190	420	< 0.003	0.028	0.012	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.0002	0.051	< 0.416	< 0.0038	< 0.002	
	5/15/2017	3.6	85	48	0.64	8.33	320	640	< 0.003	0.02	0.029	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.0002	0.047	0.425	0.023	< 0.002	
	7/5/2017	4.2	100	52	0.42	7.92	300	710	< 0.003	0.0094	0.031	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.0002	0.047	< 0.295	0.017	< 0.002	
	9/14/2017	2.5	87	54	0.44	8.19	340	780	< 0.003	0.012	0.035	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.0002	0.049	0.769	0.052	< 0.002	
	11/27/2017	3.4	69	57	0.62	7.54	200	570	< 0.003	0.011	0.011	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.0002	0.048	< 0.442	< 0.0025	< 0.002	
	5/29/2018	4.5	160	43	0.40	6.85	420	990	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/5/2018	3.1	77	59	0.61	8.06	180	610	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/14/2019	2.9	47	49	1.0	8.30	140	430	< 0.003	0.0094	0.013	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.0002	0.069	0.37	< 0.0025	< 0.002	
	11/19/2019	4.7	140	43	0.7	7.37	270	900	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4/21/2020	3.4	86	48	1.0	8.02	250	580	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/17/2020	4.0	79	20	0.8	7.67	310	610	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/5/2021	4.6	70	37	0.7	8.39	190	420	< 0.003	0.008	0.03	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.0002	0.023	0.97	< 0.0025	< 0.002	
	8/18/2021	4.1	84	39	0.5	7.92	190	480	< 0.003	0.0088	0.029	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.0002	0.021	< 0.525	< 0.0025	< 0.002	
	11/3/2021	4.2	59	43	0.6	7.78	170	410	< 0.003	0.009	0.025	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.0002	0.03	0.763	< 0.0025	< 0.002	
	2/8/2022	0.2	71	34	0.5	8.00	200	580	< 0.003	0.021	0.025	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.00069	0.055	< 0.0002	< 0.0002	0.028	0.64	< 0.0025	< 0.002	
	5/23/2022	3.5	77	30	0.5	8.12	190	510	< 0.003	0.02	0.03	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.0002	0.024	0.66	0.035	< 0.002	
	8/22/2022	3.3	84	33	0.3	7.59	220	650	< 0.003	0.011	0.024	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.0002	0.029	< 0.4	< 0.0025	< 0.002	
	11/7/2022	3.5	120	36	0.3	7.40	207	700	< 0.003	0.013	0.033	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.0002	0.028	1.47	< 0.0025	< 0.002	
	2/13/2023	3.8	83	45	0.34	7.90	180	560	< 0.0030	0.0086	0.029	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	< 0.00020	0.022	0.64	0.042	< 0.0020	
	5/8/2023	3.1	62	47	0.39	8.00	210	440	< 0.0030	0.0090	0.027	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	< 0.00020	0.030	< 0.659	0.038	< 0.0020	
	8/7/2023	< 0.1	68	51	0.40	8.17	210	510	< 0.0030	0.0089	0.022	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	< 0.00020	0.032	< 0.588	< 0.0025	< 0.0020	
	11/28/2023	3.4	61	67	0.36	8.28	150	480	< 0.0030	0.0089	0.021	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	< 0.00020	0.017	< 0.557	0.004	< 0.0020	
	2/5/2024	3.5	67	78	0.49	8.16	170	530	< 0.0030	0.0086	0.024	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	< 0.00020	0.014	0.019	0.981	< 0.0020	
5/20/2024	5.1	170	70	0.24	7.02	360	980	< 0.0030	0.0087	0.057	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	< 0.00020	0.017	0.628	0.0150	< 0.0020		
8/12/2024	3.6	91	73	0.47	7.32	240	640	< 0.0030	0.0079	0.029	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	< 0.00020	0.029	< 0.638	0.0063	< 0.0020		
MW-03 down-gradient	11/2/2015	2.3	72	87	0.51	9.26	270	570	< 0.003	0.0088	0.011	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.0002	0.070	0.071	< 0.0025	< 0.002	
	3/1/2016	2.9	61	70	0.27	7.33	220	530	< 0.003	0.0099	0.015	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.0002	0.056	0.332	0.043	< 0.002	
	5/4/2016	2.4	42	74	0.56	7.25	170	470	< 0.003	0.007	0.011	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.0002	0.058	< 0.48	< 0.0025	< 0.002	
	8/24/2016	2.0	70	59	0.3	9.13	200	430	< 0.003	0.010	0.0099	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.0002	0.042	< 0.428	< 0.0025	< 0.002	
	12/5/2016	2.4	57	60	0.41	7.62	120	440	< 0.003	0.0065	0.0094	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.010	< 0.0002	< 0.0002	0.044	< 0.526	< 0.0025	< 0.002	
	2/21/2017	2.2	56	65	0.33	7.56	180	460	< 0.003	0.011	0.0067	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.010	< 0.0002	< 0.0002	0.043	0.437	< 0.0025	< 0.002	
	5/16/2017	3.8	110	61	0.27	7.90	320	620	< 0.003	0.0087	0.022	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.010	< 0.0002	< 0.0002	0.041	< 0.461	< 0.0025	< 0.002	
	7/5/2017	2.0	60	60	0.28	7.46	200	470	< 0.003	0.0029	0.017	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.010	< 0.0002	< 0.0002	0.058	< 0.304	0.045	< 0.002	
	9/14/2017	2.1	86	57	0.26	7.53	260	680	< 0.003	0.0024	0.026	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.010	< 0.0002	< 0.0002	0.056	0.462	0.081	< 0.002	
	11/28/2017	2.6	69	63	0.56	6.96	120	500	< 0.003	0.0025	0.016	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.010	< 0.0002	< 0.0002	0.057	1.17	< 0.0025	< 0.002	
	5/29/2018	2.4	67	61	0.38	6.89	190	480	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/5/2018	2.4	54	54	0.5	8.94	150	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/14/2019	4.2	86	17	0.39	7.21	117	660	< 0.003	0.0099	0.012	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.010	< 0.0002	< 0.0002	0.053	0.657	0.061	< 0.002	
	11/19/2019	4.2	130	15	0.25	7.47	300	740	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4/21/2020	3.8	120	23	0.29	6.87	270																	

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

Well	Date	Turbidity (NTU)
MW-09	3/3/2021	4.70
	3/30/2021	10.15
	5/6/2021	3.44
	5/27/2021	12.41
	6/18/2021	27.7
	7/8/2021	28.77
	8/19/2021	77.36
	9/29/2021	18.41
	11/4/2021	12.66
	2/10/2022	34.39
	5/24/2022	170.87
	8/23/2022	34.9
	11/7/2022	195.02
	2/14/2023	20.46
	5/9/2023	9.34
	8/8/2023	18.85
	11/28/2023	27.24
2/6/2024	147.43	
5/21/2024	105.62	
8/13/2024	10.56	
MW-11	3/2/2021	2.20
	3/30/2021	6.08
	5/6/2021	2.34
	5/27/2021	2.69
	6/18/2021	13.7
	7/8/2021	4.71
	8/19/2021	139.34
	9/29/2021	402.9
	11/4/2021	152.7
	2/10/2022	13.8
	5/24/2022	2.18
	8/23/2022	3.17
	11/8/2022	7771.57*
	2/14/2023	5.12
	5/9/2023	16.30
	8/8/2023	11.59
	11/28/2023	7.01
2/6/2024	5.32	
5/21/2024	6.08	
8/13/2024	6.04	
MW-14	3/2/2021	2035
	3/30/2021	151.5
	5/6/2021	901.4
	5/27/2021	2385.61
	6/18/2021	69.25
	7/8/2021	73.18
	8/19/2021	77.04
	9/29/2021	8.42
	11/4/2021	7.42
	2/10/2022	81.72
	5/24/2022	43.52
	8/23/2022	24.76
	11/8/2022	311.78
	2/14/2023	660.17
	5/9/2023	16.57
	8/8/2023	10.85
	11/28/2023	220.56
2/6/2024	80.17	
5/21/2024	38.51	
8/13/2024	59.22	

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

Well	Date	Turbidity (NTU)
MW-01	3/1/2021	0.59
	3/30/2021	5.72
	5/5/2021	1.42
	5/27/2021	2.02
	6/18/2021	2.33
	7/8/2021	3.60
	8/18/2021	2.33
	9/29/2021	3.03
	11/3/2021	3.05
	2/8/2022	4.60
	5/23/2022	2.92
	8/22/2022	1.31
	11/7/2022	41.21
	2/13/2023	2.90
	5/8/2023	3.21
	8/7/2023	3.15
	11/27/2023	3.74
2/5/2024	5.07	
5/20/2024	4.72	
8/12/2024	6.80	
MW-02	3/1/2021	0.69
	3/30/2021	5.66
	5/5/2021	1.65
	5/27/2021	2.95
	6/18/2021	2.71
	7/8/2021	4.20
	8/18/2021	9.03
	9/29/2021	3.42
	11/3/2021	4.05
	2/8/2022	13.4
	5/23/2022	30.54
	8/22/2022	25.43
	11/7/2022	23.82
	2/13/2023	5.25
	5/8/2023	14.43
	8/7/2023	2.32
	11/28/2023	4.56
2/5/2024	5.15	
5/20/2024	8.91	
8/12/2024	6.11	
MW-03	3/1/2021	0.75
	3/30/2021	5.73
	5/5/2021	1.71
	5/27/2021	2.02
	6/18/2021	2.56
	7/8/2021	3.74
	8/18/2021	2.60
	9/29/2021	2.82
	11/3/2021	3.26
	2/8/2022	8.27
	5/23/2022	4.11
	8/22/2022	1.91
	11/7/2022	2.27
	2/13/2023	2.86
	5/8/2023	3.61
	8/7/2023	2.68
	11/27/2023	3.57
2/5/2024	5.03	
5/20/2024	6.09	
8/12/2024	6.37	

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

Well	Date	Turbidity (NTU)
MW-04	3/1/2021	1.30
	3/30/2021	6.21
	5/5/2021	1.77
	5/27/2021	2.73
	6/18/2021	3.69
	7/8/2021	5.36
	8/18/2021	40.61
	9/29/2021	3.48
	11/3/2021	4.26
	2/8/2022	13.32
	5/23/2022	28.94
	8/22/2022	2.57
	11/7/2022	41.15
	2/13/2023	3.76
	5/9/2023	15.03
	8/8/2023	2.54
	11/27/2023	4.22
2/5/2024	3.73	
5/21/2024	5.67	
8/12/2024	6.33	
MW-16	3/1/2021	0.77
	3/30/2021	6.07
	5/6/2021	1.63
	5/27/2021	2.00
	6/18/2021	2.59
	7/8/2021	3.58
	8/18/2021	3.22
	9/29/2021	6.05
	11/4/2021	4.00
	2/8/2022	21.6
	5/23/2022	11.75
	8/22/2022	3.54
	11/7/2022	42.55
	2/13/2023	32.31
	5/9/2023	2.95
	8/8/2023	2.81
	11/28/2023	45.54
2/6/2024	11.95	
5/21/2024	9.87	
8/13/2024	7.08	

* - MW-11 November 2022 turbidity is a field recording error.

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

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KPRG and Associates, Inc.
14665 West Lisbon Road,
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Brookfield, Wisconsin 53005

Generated 9/4/2024 11:08:54 AM

JOB DESCRIPTION

Waukegan CCR

JOB NUMBER

500-254990-1

Eurofins Chicago

Job Notes

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Case Narrative

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

Job ID: 500-254990-1

Job ID: 500-254990-1

Eurofins Chicago

Job Narrative 500-254990-1

Receipt

The samples were received on 8/13/2024 9:25 AM and 8/14/2024 9:55 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 1.7°C, 5.9°C and 7.1°C.

Receipt Exceptions

The following samples were received at the laboratory outside the required temperature criteria: MW-09 (500-254990-6), MW-11 (500-254990-7), MW-14 (500-254990-8) and MW-16 (500-254990-9).

Metals

Method 6020B - Total Recoverable: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-09 (500-254990-6) and MW-16 (500-254990-9). Elevated reporting limits (RLs) are provided.

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

General Chemistry

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

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Method Summary

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

Job ID: 500-254990-1

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, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

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

Job ID: 500-254990-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-254990-1	MW-01	Water	08/12/24 12:08	08/13/24 09:25
500-254990-2	MW-02	Water	08/12/24 13:17	08/13/24 09:25
500-254990-3	MW-03	Water	08/12/24 15:01	08/13/24 09:25
500-254990-4	MW-04	Water	08/12/24 16:00	08/13/24 09:25
500-254990-5	Duplicate	Water	08/12/24 00:00	08/13/24 09:25
500-254990-6	MW-09	Water	08/13/24 13:26	08/14/24 09:55
500-254990-7	MW-11	Water	08/13/24 10:32	08/14/24 09:55
500-254990-8	MW-14	Water	08/13/24 11:57	08/14/24 09:55
500-254990-9	MW-16	Water	08/13/24 15:13	08/14/24 09:55

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

Client Sample Results

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

Job ID: 500-254990-1

Client Sample ID: MW-01
Date Collected: 08/12/24 12:08
Date Received: 08/13/24 09:25

Lab Sample ID: 500-254990-1
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		08/21/24 09:01	08/26/24 12:17	1
Arsenic	0.019		0.0010		mg/L		08/21/24 09:01	08/26/24 12:17	1
Barium	0.035		0.0025		mg/L		08/21/24 09:01	08/26/24 12:17	1
Beryllium	<0.0010		0.0010		mg/L		08/21/24 09:01	08/27/24 13:30	1
Boron	1.8		0.050		mg/L		08/21/24 09:01	08/29/24 15:13	1
Cadmium	<0.00050		0.00050		mg/L		08/21/24 09:01	08/26/24 12:17	1
Calcium	63		0.20		mg/L		08/21/24 09:01	08/26/24 12:17	1
Chromium	<0.0050		0.0050		mg/L		08/21/24 09:01	08/26/24 12:17	1
Cobalt	<0.0010		0.0010		mg/L		08/21/24 09:01	08/26/24 12:17	1
Lead	<0.00050		0.00050		mg/L		08/21/24 09:01	08/26/24 12:17	1
Lithium	<0.010		0.010		mg/L		08/21/24 09:01	08/27/24 13:30	1
Molybdenum	0.021		0.0050		mg/L		08/21/24 09:01	08/26/24 12:17	1
Selenium	<0.0025		0.0025		mg/L		08/21/24 09:01	08/26/24 12:17	1
Thallium	<0.0020		0.0020		mg/L		08/21/24 09:01	08/26/24 12:17	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/30/24 10:45	09/03/24 07:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	460		10		mg/L			08/16/24 01:19	1
Chloride (SM 4500 Cl- E)	81		4.0		mg/L			08/15/24 16:17	2
Fluoride (SM 4500 F C)	0.28		0.10		mg/L			08/15/24 17:40	1
Sulfate (SM 4500 SO4 E)	170		25		mg/L			08/20/24 12:15	5

Client Sample Results

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

Job ID: 500-254990-1

Client Sample ID: MW-02

Lab Sample ID: 500-254990-2

Date Collected: 08/12/24 13:17

Matrix: Water

Date Received: 08/13/24 09:25

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		08/21/24 09:01	08/26/24 12:33	1
Arsenic	0.0079		0.0010		mg/L		08/21/24 09:01	08/26/24 12:33	1
Barium	0.029		0.0025		mg/L		08/21/24 09:01	08/26/24 12:33	1
Beryllium	<0.0010		0.0010		mg/L		08/21/24 09:01	08/27/24 13:42	1
Boron	3.6		0.050		mg/L		08/21/24 09:01	08/29/24 15:26	1
Cadmium	<0.00050		0.00050		mg/L		08/21/24 09:01	08/26/24 12:33	1
Calcium	91		0.20		mg/L		08/21/24 09:01	08/26/24 12:33	1
Chromium	<0.0050		0.0050		mg/L		08/21/24 09:01	08/26/24 12:33	1
Cobalt	<0.0010		0.0010		mg/L		08/21/24 09:01	08/26/24 12:33	1
Lead	<0.00050		0.00050		mg/L		08/21/24 09:01	08/26/24 12:33	1
Lithium	<0.010		0.010		mg/L		08/21/24 09:01	08/27/24 13:42	1
Molybdenum	0.029		0.0050		mg/L		08/21/24 09:01	08/26/24 12:33	1
Selenium	0.0063		0.0025		mg/L		08/21/24 09:01	08/26/24 12:33	1
Thallium	<0.0020		0.0020		mg/L		08/21/24 09:01	08/26/24 12:33	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/30/24 10:45	09/03/24 07:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	640		10		mg/L			08/16/24 01:22	1
Chloride (SM 4500 Cl- E)	73		4.0		mg/L			08/15/24 16:03	2
Fluoride (SM 4500 F C)	0.47		0.10		mg/L			08/15/24 17:44	1
Sulfate (SM 4500 SO4 E)	240		25		mg/L			08/20/24 12:15	5

Client Sample Results

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

Job ID: 500-254990-1

Client Sample ID: MW-03
Date Collected: 08/12/24 15:01
Date Received: 08/13/24 09:25

Lab Sample ID: 500-254990-3
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		08/21/24 09:01	08/26/24 12:35	1
Arsenic	0.020		0.0010		mg/L		08/21/24 09:01	08/26/24 12:35	1
Barium	0.017		0.0025		mg/L		08/21/24 09:01	08/26/24 12:35	1
Beryllium	<0.0010		0.0010		mg/L		08/21/24 09:01	08/27/24 13:44	1
Boron	2.6		0.050		mg/L		08/21/24 09:01	08/29/24 15:38	1
Cadmium	<0.00050		0.00050		mg/L		08/21/24 09:01	08/26/24 12:35	1
Calcium	66		0.20		mg/L		08/21/24 09:01	08/26/24 12:35	1
Chromium	<0.0050		0.0050		mg/L		08/21/24 09:01	08/26/24 12:35	1
Cobalt	<0.0010		0.0010		mg/L		08/21/24 09:01	08/26/24 12:35	1
Lead	<0.00050		0.00050		mg/L		08/21/24 09:01	08/26/24 12:35	1
Lithium	<0.010		0.010		mg/L		08/21/24 09:01	08/27/24 13:44	1
Molybdenum	0.047		0.0050		mg/L		08/21/24 09:01	08/26/24 12:35	1
Selenium	0.0095		0.0025		mg/L		08/21/24 09:01	08/26/24 12:35	1
Thallium	<0.0020		0.0020		mg/L		08/21/24 09:01	08/26/24 12:35	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/30/24 10:45	09/03/24 08:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	610		10		mg/L			08/16/24 01:24	1
Chloride (SM 4500 Cl- E)	85		10		mg/L			08/15/24 16:16	5
Fluoride (SM 4500 F C)	0.31		0.10		mg/L			08/15/24 17:50	1
Sulfate (SM 4500 SO4 E)	210		25		mg/L			08/20/24 12:15	5

Client Sample Results

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

Job ID: 500-254990-1

Client Sample ID: MW-04

Lab Sample ID: 500-254990-4

Date Collected: 08/12/24 16:00

Matrix: Water

Date Received: 08/13/24 09:25

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		08/21/24 09:01	08/26/24 12:37	1
Arsenic	0.0033		0.0010		mg/L		08/21/24 09:01	08/26/24 12:37	1
Barium	0.076		0.0025		mg/L		08/21/24 09:01	08/26/24 12:37	1
Beryllium	<0.0010		0.0010		mg/L		08/21/24 09:01	08/27/24 14:00	1
Boron	3.2		0.050		mg/L		08/21/24 09:01	08/29/24 15:41	1
Cadmium	<0.00050		0.00050		mg/L		08/21/24 09:01	08/26/24 12:37	1
Calcium	210		0.20		mg/L		08/21/24 09:01	08/26/24 12:37	1
Chromium	<0.0050		0.0050		mg/L		08/21/24 09:01	08/26/24 12:37	1
Cobalt	<0.0010		0.0010		mg/L		08/21/24 09:01	08/26/24 12:37	1
Lead	<0.00050		0.00050		mg/L		08/21/24 09:01	08/26/24 12:37	1
Lithium	<0.010		0.010		mg/L		08/21/24 09:01	08/27/24 14:00	1
Molybdenum	0.026		0.0050		mg/L		08/21/24 09:01	08/26/24 12:37	1
Selenium	0.020		0.0025		mg/L		08/21/24 09:01	08/26/24 12:37	1
Thallium	<0.0020		0.0020		mg/L		08/21/24 09:01	08/26/24 12:37	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/30/24 10:45	09/03/24 08:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1200		10		mg/L			08/16/24 01:27	1
Chloride (SM 4500 Cl- E)	55		4.0		mg/L			08/15/24 16:03	2
Fluoride (SM 4500 F C)	0.35		0.10		mg/L			08/15/24 17:54	1
Sulfate (SM 4500 SO4 E)	420		50		mg/L			08/20/24 12:32	10

Client Sample Results

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

Job ID: 500-254990-1

Client Sample ID: Duplicate

Lab Sample ID: 500-254990-5

Date Collected: 08/12/24 00:00

Matrix: Water

Date Received: 08/13/24 09:25

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		08/21/24 09:01	08/26/24 12:40	1
Arsenic	0.0063		0.0010		mg/L		08/21/24 09:01	08/26/24 12:40	1
Barium	0.028		0.0025		mg/L		08/21/24 09:01	08/26/24 12:40	1
Beryllium	<0.0010		0.0010		mg/L		08/21/24 09:01	08/27/24 14:02	1
Boron	3.4		0.050		mg/L		08/21/24 09:01	08/29/24 15:43	1
Cadmium	<0.00050		0.00050		mg/L		08/21/24 09:01	08/26/24 12:40	1
Calcium	88		0.20		mg/L		08/21/24 09:01	08/26/24 12:40	1
Chromium	<0.0050		0.0050		mg/L		08/21/24 09:01	08/26/24 12:40	1
Cobalt	<0.0010		0.0010		mg/L		08/21/24 09:01	08/26/24 12:40	1
Lead	<0.00050		0.00050		mg/L		08/21/24 09:01	08/26/24 12:40	1
Lithium	<0.010		0.010		mg/L		08/21/24 09:01	08/27/24 14:02	1
Molybdenum	0.029		0.0050		mg/L		08/21/24 09:01	08/26/24 12:40	1
Selenium	0.0054		0.0025		mg/L		08/21/24 09:01	08/26/24 12:40	1
Thallium	<0.0020		0.0020		mg/L		08/21/24 09:01	08/26/24 12:40	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/30/24 10:45	09/03/24 08:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	610		10		mg/L			08/16/24 01:29	1
Chloride (SM 4500 Cl- E)	74		4.0		mg/L			08/15/24 16:03	2
Fluoride (SM 4500 F C)	0.46		0.10		mg/L			08/15/24 17:59	1
Sulfate (SM 4500 SO4 E)	230		25		mg/L			08/20/24 12:16	5

Client Sample Results

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

Job ID: 500-254990-1

Client Sample ID: MW-09

Lab Sample ID: 500-254990-6

Date Collected: 08/13/24 13:26

Matrix: Water

Date Received: 08/14/24 09:55

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		08/21/24 09:01	08/26/24 12:42	1
Arsenic	0.0062		0.0010		mg/L		08/21/24 09:01	08/26/24 12:42	1
Barium	0.085		0.0025		mg/L		08/21/24 09:01	08/26/24 12:42	1
Beryllium	<0.0010		0.0010		mg/L		08/21/24 09:01	08/27/24 14:05	1
Boron	8.5		0.25		mg/L		08/21/24 09:01	08/29/24 15:45	5
Cadmium	<0.00050		0.00050		mg/L		08/21/24 09:01	08/26/24 12:42	1
Calcium	130		0.20		mg/L		08/21/24 09:01	08/26/24 12:42	1
Chromium	<0.0050		0.0050		mg/L		08/21/24 09:01	08/26/24 12:42	1
Cobalt	<0.0010		0.0010		mg/L		08/21/24 09:01	08/26/24 12:42	1
Lead	<0.00050		0.00050		mg/L		08/21/24 09:01	08/26/24 12:42	1
Lithium	0.045		0.010		mg/L		08/21/24 09:01	08/27/24 14:05	1
Molybdenum	0.14		0.0050		mg/L		08/21/24 09:01	08/26/24 12:42	1
Selenium	<0.0025		0.0025		mg/L		08/21/24 09:01	08/26/24 12:42	1
Thallium	<0.0020		0.0020		mg/L		08/21/24 09:01	08/26/24 12:42	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/30/24 10:45	09/03/24 08:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	860		10		mg/L			08/16/24 01:32	1
Chloride (SM 4500 Cl- E)	91		4.0		mg/L			08/15/24 16:02	2
Fluoride (SM 4500 F C)	0.34		0.10		mg/L			08/15/24 18:04	1
Sulfate (SM 4500 SO4 E)	200		25		mg/L			08/20/24 12:16	5

Client Sample Results

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

Job ID: 500-254990-1

Client Sample ID: MW-11

Lab Sample ID: 500-254990-7

Date Collected: 08/13/24 10:32

Matrix: Water

Date Received: 08/14/24 09:55

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		08/21/24 09:01	08/26/24 12:58	1
Arsenic	0.16		0.0010		mg/L		08/21/24 09:01	08/26/24 12:58	1
Barium	0.053		0.0025		mg/L		08/21/24 09:01	08/26/24 12:58	1
Beryllium	<0.0010		0.0010		mg/L		08/21/24 09:01	08/27/24 14:18	1
Boron	1.2		0.050		mg/L		08/21/24 09:01	08/29/24 15:48	1
Cadmium	<0.00050		0.00050		mg/L		08/21/24 09:01	08/26/24 12:58	1
Calcium	150		0.20		mg/L		08/21/24 09:01	08/26/24 12:58	1
Chromium	0.0057		0.0050		mg/L		08/21/24 09:01	08/26/24 12:58	1
Cobalt	<0.0010		0.0010		mg/L		08/21/24 09:01	08/26/24 12:58	1
Lead	<0.00050		0.00050		mg/L		08/21/24 09:01	08/26/24 12:58	1
Lithium	0.033		0.010		mg/L		08/21/24 09:01	08/27/24 14:18	1
Molybdenum	<0.0050		0.0050		mg/L		08/21/24 09:01	08/26/24 12:58	1
Selenium	<0.0025		0.0025		mg/L		08/21/24 09:01	08/26/24 12:58	1
Thallium	<0.0020		0.0020		mg/L		08/21/24 09:01	08/26/24 12:58	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/30/24 10:45	09/03/24 08:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	740		10		mg/L			08/16/24 01:35	1
Chloride (SM 4500 Cl- E)	82		4.0		mg/L			08/15/24 16:02	2
Fluoride (SM 4500 F C)	0.18		0.10		mg/L			08/15/24 18:08	1
Sulfate (SM 4500 SO4 E)	48		5.0		mg/L			08/20/24 11:47	1

Client Sample Results

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

Job ID: 500-254990-1

Client Sample ID: MW-14
Date Collected: 08/13/24 11:57
Date Received: 08/14/24 09:55

Lab Sample ID: 500-254990-8
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		08/21/24 09:01	08/26/24 13:00	1
Arsenic	3.1		0.0010		mg/L		08/21/24 09:01	08/26/24 13:00	1
Barium	0.057		0.0025		mg/L		08/21/24 09:01	08/26/24 13:00	1
Beryllium	<0.0010		0.0010		mg/L		08/21/24 09:01	08/27/24 14:21	1
Boron	0.50		0.050		mg/L		08/21/24 09:01	08/29/24 15:50	1
Cadmium	<0.00050		0.00050		mg/L		08/21/24 09:01	08/26/24 13:00	1
Calcium	130		0.20		mg/L		08/21/24 09:01	08/26/24 13:00	1
Chromium	0.20		0.0050		mg/L		08/21/24 09:01	08/26/24 13:00	1
Cobalt	0.0015		0.0010		mg/L		08/21/24 09:01	08/26/24 13:00	1
Lead	<0.00050		0.00050		mg/L		08/21/24 09:01	08/26/24 13:00	1
Lithium	0.013		0.010		mg/L		08/21/24 09:01	08/27/24 14:21	1
Molybdenum	<0.0050		0.0050		mg/L		08/21/24 09:01	08/26/24 13:00	1
Selenium	<0.0025		0.0025		mg/L		08/21/24 09:01	08/26/24 13:00	1
Thallium	<0.0020		0.0020		mg/L		08/21/24 09:01	08/26/24 13:00	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/30/24 10:45	09/03/24 08:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	510		10		mg/L			08/16/24 01:37	1
Chloride (SM 4500 Cl- E)	15		2.0		mg/L			08/15/24 15:21	1
Fluoride (SM 4500 F C)	0.16		0.10		mg/L			08/15/24 18:24	1
Sulfate (SM 4500 SO4 E)	8.5		5.0		mg/L			08/20/24 11:47	1

Client Sample Results

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

Job ID: 500-254990-1

Client Sample ID: MW-16
Date Collected: 08/13/24 15:13
Date Received: 08/14/24 09:55

Lab Sample ID: 500-254990-9
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		08/21/24 09:01	08/26/24 13:02	1
Arsenic	<0.0010		0.0010		mg/L		08/21/24 09:01	08/26/24 13:02	1
Barium	0.043		0.0025		mg/L		08/21/24 09:01	08/26/24 13:02	1
Beryllium	<0.0010		0.0010		mg/L		08/21/24 09:01	08/27/24 14:23	1
Boron	5.0		0.25		mg/L		08/21/24 09:01	08/29/24 15:52	5
Cadmium	<0.00050		0.00050		mg/L		08/21/24 09:01	08/26/24 13:02	1
Calcium	330		0.20		mg/L		08/21/24 09:01	08/26/24 13:02	1
Chromium	<0.0050		0.0050		mg/L		08/21/24 09:01	08/26/24 13:02	1
Cobalt	<0.0010		0.0010		mg/L		08/21/24 09:01	08/26/24 13:02	1
Lead	<0.00050		0.00050		mg/L		08/21/24 09:01	08/26/24 13:02	1
Lithium	0.098		0.010		mg/L		08/21/24 09:01	08/27/24 14:23	1
Molybdenum	0.027		0.0050		mg/L		08/21/24 09:01	08/26/24 13:02	1
Selenium	0.018		0.0025		mg/L		08/21/24 09:01	08/26/24 13:02	1
Thallium	<0.0020		0.0020		mg/L		08/21/24 09:01	08/26/24 13:02	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/30/24 10:45	09/03/24 08:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1900		10		mg/L			08/16/24 01:40	1
Chloride (SM 4500 Cl- E)	110		10		mg/L			08/15/24 16:01	5
Fluoride (SM 4500 F C)	0.40		0.10		mg/L			08/15/24 18:28	1
Sulfate (SM 4500 SO4 E)	870		100		mg/L			08/20/24 12:32	20

Definitions/Glossary

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

Job ID: 500-254990-1

Qualifiers

Metals

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

Glossary

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

QC Association Summary

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

Job ID: 500-254990-1

Metals

Prep Batch: 782552

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254990-1	MW-01	Total Recoverable	Water	3005A	
500-254990-2	MW-02	Total Recoverable	Water	3005A	
500-254990-3	MW-03	Total Recoverable	Water	3005A	
500-254990-4	MW-04	Total Recoverable	Water	3005A	
500-254990-5	Duplicate	Total Recoverable	Water	3005A	
500-254990-6	MW-09	Total Recoverable	Water	3005A	
500-254990-7	MW-11	Total Recoverable	Water	3005A	
500-254990-8	MW-14	Total Recoverable	Water	3005A	
500-254990-9	MW-16	Total Recoverable	Water	3005A	
MB 500-782552/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-782552/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
500-254990-1 MS	MW-01	Total Recoverable	Water	3005A	
500-254990-1 MSD	MW-01	Total Recoverable	Water	3005A	
500-254990-1 DU	MW-01	Total Recoverable	Water	3005A	

Analysis Batch: 783273

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254990-1	MW-01	Total Recoverable	Water	6020B	782552
500-254990-2	MW-02	Total Recoverable	Water	6020B	782552
500-254990-3	MW-03	Total Recoverable	Water	6020B	782552
500-254990-4	MW-04	Total Recoverable	Water	6020B	782552
500-254990-5	Duplicate	Total Recoverable	Water	6020B	782552
500-254990-6	MW-09	Total Recoverable	Water	6020B	782552
500-254990-7	MW-11	Total Recoverable	Water	6020B	782552
500-254990-8	MW-14	Total Recoverable	Water	6020B	782552
500-254990-9	MW-16	Total Recoverable	Water	6020B	782552
MB 500-782552/1-A	Method Blank	Total Recoverable	Water	6020B	782552
LCS 500-782552/2-A	Lab Control Sample	Total Recoverable	Water	6020B	782552
500-254990-1 MS	MW-01	Total Recoverable	Water	6020B	782552
500-254990-1 MSD	MW-01	Total Recoverable	Water	6020B	782552
500-254990-1 DU	MW-01	Total Recoverable	Water	6020B	782552

Analysis Batch: 783596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254990-1	MW-01	Total Recoverable	Water	6020B	782552
500-254990-2	MW-02	Total Recoverable	Water	6020B	782552
500-254990-3	MW-03	Total Recoverable	Water	6020B	782552
500-254990-4	MW-04	Total Recoverable	Water	6020B	782552
500-254990-5	Duplicate	Total Recoverable	Water	6020B	782552
500-254990-6	MW-09	Total Recoverable	Water	6020B	782552
500-254990-7	MW-11	Total Recoverable	Water	6020B	782552
500-254990-8	MW-14	Total Recoverable	Water	6020B	782552
500-254990-9	MW-16	Total Recoverable	Water	6020B	782552
MB 500-782552/1-A	Method Blank	Total Recoverable	Water	6020B	782552
LCS 500-782552/2-A	Lab Control Sample	Total Recoverable	Water	6020B	782552
500-254990-1 MS	MW-01	Total Recoverable	Water	6020B	782552
500-254990-1 MSD	MW-01	Total Recoverable	Water	6020B	782552
500-254990-1 DU	MW-01	Total Recoverable	Water	6020B	782552

QC Association Summary

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

Job ID: 500-254990-1

Metals

Analysis Batch: 783978

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254990-1	MW-01	Total Recoverable	Water	6020B	782552
500-254990-2	MW-02	Total Recoverable	Water	6020B	782552
500-254990-3	MW-03	Total Recoverable	Water	6020B	782552
500-254990-4	MW-04	Total Recoverable	Water	6020B	782552
500-254990-5	Duplicate	Total Recoverable	Water	6020B	782552
500-254990-6	MW-09	Total Recoverable	Water	6020B	782552
500-254990-7	MW-11	Total Recoverable	Water	6020B	782552
500-254990-8	MW-14	Total Recoverable	Water	6020B	782552
500-254990-9	MW-16	Total Recoverable	Water	6020B	782552
MB 500-782552/1-A	Method Blank	Total Recoverable	Water	6020B	782552
LCS 500-782552/2-A	Lab Control Sample	Total Recoverable	Water	6020B	782552
500-254990-1 MS	MW-01	Total Recoverable	Water	6020B	782552
500-254990-1 MSD	MW-01	Total Recoverable	Water	6020B	782552
500-254990-1 DU	MW-01	Total Recoverable	Water	6020B	782552

Prep Batch: 784044

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254990-1	MW-01	Total/NA	Water	7470A	
500-254990-2	MW-02	Total/NA	Water	7470A	
500-254990-3	MW-03	Total/NA	Water	7470A	
500-254990-4	MW-04	Total/NA	Water	7470A	
500-254990-5	Duplicate	Total/NA	Water	7470A	
500-254990-6	MW-09	Total/NA	Water	7470A	
500-254990-7	MW-11	Total/NA	Water	7470A	
500-254990-8	MW-14	Total/NA	Water	7470A	
500-254990-9	MW-16	Total/NA	Water	7470A	
MB 500-784044/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-784044/13-A	Lab Control Sample	Total/NA	Water	7470A	
500-254990-5 MS	Duplicate	Total/NA	Water	7470A	
500-254990-5 MSD	Duplicate	Total/NA	Water	7470A	
500-254990-5 DU	Duplicate	Total/NA	Water	7470A	

Analysis Batch: 784230

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254990-1	MW-01	Total/NA	Water	7470A	784044
500-254990-2	MW-02	Total/NA	Water	7470A	784044
500-254990-3	MW-03	Total/NA	Water	7470A	784044
500-254990-4	MW-04	Total/NA	Water	7470A	784044
500-254990-5	Duplicate	Total/NA	Water	7470A	784044
500-254990-6	MW-09	Total/NA	Water	7470A	784044
500-254990-7	MW-11	Total/NA	Water	7470A	784044
500-254990-8	MW-14	Total/NA	Water	7470A	784044
500-254990-9	MW-16	Total/NA	Water	7470A	784044
MB 500-784044/12-A	Method Blank	Total/NA	Water	7470A	784044
LCS 500-784044/13-A	Lab Control Sample	Total/NA	Water	7470A	784044
500-254990-5 MS	Duplicate	Total/NA	Water	7470A	784044
500-254990-5 MSD	Duplicate	Total/NA	Water	7470A	784044
500-254990-5 DU	Duplicate	Total/NA	Water	7470A	784044

QC Association Summary

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

Job ID: 500-254990-1

General Chemistry

Analysis Batch: 781749

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254990-1	MW-01	Total/NA	Water	SM 2540C	
500-254990-2	MW-02	Total/NA	Water	SM 2540C	
500-254990-3	MW-03	Total/NA	Water	SM 2540C	
500-254990-4	MW-04	Total/NA	Water	SM 2540C	
500-254990-5	Duplicate	Total/NA	Water	SM 2540C	
500-254990-6	MW-09	Total/NA	Water	SM 2540C	
500-254990-7	MW-11	Total/NA	Water	SM 2540C	
500-254990-8	MW-14	Total/NA	Water	SM 2540C	
500-254990-9	MW-16	Total/NA	Water	SM 2540C	
MB 500-781749/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-781749/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 781815

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254990-1	MW-01	Total/NA	Water	SM 4500 F C	
500-254990-2	MW-02	Total/NA	Water	SM 4500 F C	
500-254990-3	MW-03	Total/NA	Water	SM 4500 F C	
500-254990-4	MW-04	Total/NA	Water	SM 4500 F C	
500-254990-5	Duplicate	Total/NA	Water	SM 4500 F C	
500-254990-6	MW-09	Total/NA	Water	SM 4500 F C	
500-254990-7	MW-11	Total/NA	Water	SM 4500 F C	
500-254990-8	MW-14	Total/NA	Water	SM 4500 F C	
500-254990-9	MW-16	Total/NA	Water	SM 4500 F C	
MB 500-781815/59	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-781815/60	Lab Control Sample	Total/NA	Water	SM 4500 F C	

Analysis Batch: 781984

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254990-1	MW-01	Total/NA	Water	SM 4500 CI- E	
500-254990-2	MW-02	Total/NA	Water	SM 4500 CI- E	
500-254990-3	MW-03	Total/NA	Water	SM 4500 CI- E	
500-254990-4	MW-04	Total/NA	Water	SM 4500 CI- E	
500-254990-5	Duplicate	Total/NA	Water	SM 4500 CI- E	
500-254990-6	MW-09	Total/NA	Water	SM 4500 CI- E	
500-254990-7	MW-11	Total/NA	Water	SM 4500 CI- E	
500-254990-8	MW-14	Total/NA	Water	SM 4500 CI- E	
500-254990-9	MW-16	Total/NA	Water	SM 4500 CI- E	
MB 500-781984/64	Method Blank	Total/NA	Water	SM 4500 CI- E	
LCS 500-781984/65	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	

Analysis Batch: 782442

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254990-1	MW-01	Total/NA	Water	SM 4500 SO4 E	
500-254990-2	MW-02	Total/NA	Water	SM 4500 SO4 E	
500-254990-3	MW-03	Total/NA	Water	SM 4500 SO4 E	
500-254990-4	MW-04	Total/NA	Water	SM 4500 SO4 E	
500-254990-5	Duplicate	Total/NA	Water	SM 4500 SO4 E	
500-254990-6	MW-09	Total/NA	Water	SM 4500 SO4 E	
500-254990-7	MW-11	Total/NA	Water	SM 4500 SO4 E	
500-254990-8	MW-14	Total/NA	Water	SM 4500 SO4 E	
500-254990-9	MW-16	Total/NA	Water	SM 4500 SO4 E	

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QC Association Summary

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

Job ID: 500-254990-1

General Chemistry (Continued)

Analysis Batch: 782442 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-782442/16	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-782442/17	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	

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

QC Sample Results

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

Job ID: 500-254990-1

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 500-782552/1-A
Matrix: Water
Analysis Batch: 783273

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 782552

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0030		0.0030		mg/L		08/21/24 09:01	08/26/24 12:13	1
Arsenic	<0.0010		0.0010		mg/L		08/21/24 09:01	08/26/24 12:13	1
Barium	<0.0025		0.0025		mg/L		08/21/24 09:01	08/26/24 12:13	1
Cadmium	<0.00050		0.00050		mg/L		08/21/24 09:01	08/26/24 12:13	1
Calcium	<0.20		0.20		mg/L		08/21/24 09:01	08/26/24 12:13	1
Chromium	<0.0050		0.0050		mg/L		08/21/24 09:01	08/26/24 12:13	1
Cobalt	<0.0010		0.0010		mg/L		08/21/24 09:01	08/26/24 12:13	1
Lead	<0.00050		0.00050		mg/L		08/21/24 09:01	08/26/24 12:13	1
Molybdenum	<0.0050		0.0050		mg/L		08/21/24 09:01	08/26/24 12:13	1
Selenium	<0.0025		0.0025		mg/L		08/21/24 09:01	08/26/24 12:13	1
Thallium	<0.0020		0.0020		mg/L		08/21/24 09:01	08/26/24 12:13	1

Lab Sample ID: MB 500-782552/1-A
Matrix: Water
Analysis Batch: 783596

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 782552

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Beryllium	<0.0010		0.0010		mg/L		08/21/24 09:01	08/27/24 13:25	1
Lithium	<0.010		0.010		mg/L		08/21/24 09:01	08/27/24 13:25	1

Lab Sample ID: MB 500-782552/1-A
Matrix: Water
Analysis Batch: 783978

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 782552

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Boron	<0.050		0.050		mg/L		08/21/24 09:01	08/29/24 15:08	1

Lab Sample ID: LCS 500-782552/2-A
Matrix: Water
Analysis Batch: 783273

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 782552

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Antimony	0.500	0.509		mg/L		102	80 - 120
Arsenic	0.100	0.0991		mg/L		99	80 - 120
Barium	0.500	0.501		mg/L		100	80 - 120
Cadmium	0.0500	0.0524		mg/L		105	80 - 120
Calcium	10.0	8.79		mg/L		88	80 - 120
Chromium	0.200	0.212		mg/L		106	80 - 120
Cobalt	0.500	0.530		mg/L		106	80 - 120
Lead	0.100	0.105		mg/L		105	80 - 120
Molybdenum	1.00	0.992		mg/L		99	80 - 120
Selenium	0.100	0.0996		mg/L		100	80 - 120
Thallium	0.100	0.108		mg/L		108	80 - 120

QC Sample Results

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

Job ID: 500-254990-1

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

Lab Sample ID: LCS 500-782552/2-A
Matrix: Water
Analysis Batch: 783596

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 782552

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	0.0500	0.0525		mg/L		105	80 - 120
Lithium	0.100	0.108		mg/L		108	80 - 120

Lab Sample ID: LCS 500-782552/2-A
Matrix: Water
Analysis Batch: 783978

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 782552

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.00	1.02		mg/L		102	80 - 120

Lab Sample ID: 500-254990-1 MS
Matrix: Water
Analysis Batch: 783273

Client Sample ID: MW-01
Prep Type: Total Recoverable
Prep Batch: 782552

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	<0.0030		0.500	0.526		mg/L		105	75 - 125
Arsenic	0.019		0.100	0.122		mg/L		102	75 - 125
Barium	0.035		0.500	0.544		mg/L		102	75 - 125
Cadmium	<0.00050		0.0500	0.0527		mg/L		105	75 - 125
Calcium	63		10.0	73.1	4	mg/L		102	75 - 125
Chromium	<0.0050		0.200	0.190		mg/L		95	75 - 125
Cobalt	<0.0010		0.500	0.539		mg/L		108	75 - 125
Lead	<0.00050		0.100	0.106		mg/L		106	75 - 125
Molybdenum	0.021		1.00	1.05		mg/L		103	75 - 125
Selenium	<0.0025		0.100	0.101		mg/L		101	75 - 125
Thallium	<0.0020		0.100	0.110		mg/L		110	75 - 125

Lab Sample ID: 500-254990-1 MS
Matrix: Water
Analysis Batch: 783596

Client Sample ID: MW-01
Prep Type: Total Recoverable
Prep Batch: 782552

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	<0.0010		0.0500	0.0506		mg/L		101	75 - 125
Lithium	<0.010		0.100	0.105		mg/L		105	75 - 125

Lab Sample ID: 500-254990-1 MS
Matrix: Water
Analysis Batch: 783978

Client Sample ID: MW-01
Prep Type: Total Recoverable
Prep Batch: 782552

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.8		1.00	2.78		mg/L		95	75 - 125

Lab Sample ID: 500-254990-1 MSD
Matrix: Water
Analysis Batch: 783273

Client Sample ID: MW-01
Prep Type: Total Recoverable
Prep Batch: 782552

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Antimony	<0.0030		0.500	0.524		mg/L		105	75 - 125	0	20
Arsenic	0.019		0.100	0.123		mg/L		104	75 - 125	1	20
Barium	0.035		0.500	0.545		mg/L		102	75 - 125	0	20

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QC Sample Results

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

Job ID: 500-254990-1

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

Lab Sample ID: 500-254990-1 MSD

Matrix: Water

Analysis Batch: 783273

Client Sample ID: MW-01

Prep Type: Total Recoverable

Prep Batch: 782552

Analyte	Sample	Sample Qualifier	Spike Added	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result			Result	Qualifier				Limits		Limit
Cadmium	<0.00050		0.0500	0.0523		mg/L		105	75 - 125	1	20
Calcium	63		10.0	73.8	4	mg/L		109	75 - 125	1	20
Chromium	<0.0050		0.200	0.189		mg/L		95	75 - 125	0	20
Cobalt	<0.0010		0.500	0.545		mg/L		109	75 - 125	1	20
Lead	<0.00050		0.100	0.106		mg/L		106	75 - 125	0	20
Molybdenum	0.021		1.00	1.06		mg/L		104	75 - 125	1	20
Selenium	<0.0025		0.100	0.100		mg/L		100	75 - 125	1	20
Thallium	<0.0020		0.100	0.110		mg/L		110	75 - 125	1	20

Lab Sample ID: 500-254990-1 MSD

Matrix: Water

Analysis Batch: 783596

Client Sample ID: MW-01

Prep Type: Total Recoverable

Prep Batch: 782552

Analyte	Sample	Sample Qualifier	Spike Added	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result			Result	Qualifier				Limits		Limit
Beryllium	<0.0010		0.0500	0.0500		mg/L		100	75 - 125	1	20
Lithium	<0.010		0.100	0.104		mg/L		104	75 - 125	0	20

Lab Sample ID: 500-254990-1 MSD

Matrix: Water

Analysis Batch: 783978

Client Sample ID: MW-01

Prep Type: Total Recoverable

Prep Batch: 782552

Analyte	Sample	Sample Qualifier	Spike Added	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result			Result	Qualifier				Limits		Limit
Boron	1.8		1.00	2.78		mg/L		95	75 - 125	0	20

Lab Sample ID: 500-254990-1 DU

Matrix: Water

Analysis Batch: 783273

Client Sample ID: MW-01

Prep Type: Total Recoverable

Prep Batch: 782552

Analyte	Sample	Sample Qualifier	DU Result	DU	Unit	D	RPD	RPD
	Result			Qualifier				Limit
Antimony	<0.0030		<0.0030		mg/L		NC	20
Arsenic	0.019		0.0194		mg/L		0.9	20
Barium	0.035		0.0357		mg/L		3	20
Cadmium	<0.00050		<0.00050		mg/L		NC	20
Calcium	63		65.1		mg/L		3	20
Chromium	<0.0050		<0.0050		mg/L		NC	20
Cobalt	<0.0010		<0.0010		mg/L		NC	20
Lead	<0.00050		<0.00050		mg/L		NC	20
Molybdenum	0.021		0.0209		mg/L		0.7	20
Selenium	<0.0025		<0.0025		mg/L		NC	20
Thallium	<0.0020		<0.0020		mg/L		NC	20

Lab Sample ID: 500-254990-1 DU

Matrix: Water

Analysis Batch: 783596

Client Sample ID: MW-01

Prep Type: Total Recoverable

Prep Batch: 782552

Analyte	Sample	Sample Qualifier	DU Result	DU	Unit	D	RPD	RPD
	Result			Qualifier				Limit
Beryllium	<0.0010		<0.0010		mg/L		NC	20
Lithium	<0.010		<0.010		mg/L		NC	20

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QC Sample Results

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

Job ID: 500-254990-1

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

Lab Sample ID: 500-254990-1 DU
Matrix: Water
Analysis Batch: 783978

Client Sample ID: MW-01
Prep Type: Total Recoverable
Prep Batch: 782552

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Boron	1.8		1.81		mg/L		0.7	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-784044/12-A
Matrix: Water
Analysis Batch: 784230

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 784044

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/30/24 10:45	09/03/24 07:46	1

Lab Sample ID: LCS 500-784044/13-A
Matrix: Water
Analysis Batch: 784230

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 784044

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00200	0.00205		mg/L		103	80 - 120

Lab Sample ID: 500-254990-5 MS
Matrix: Water
Analysis Batch: 784230

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 784044

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	<0.00020		0.000999	0.00103		mg/L		103	75 - 125

Lab Sample ID: 500-254990-5 MSD
Matrix: Water
Analysis Batch: 784230

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 784044

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	<0.00020		0.000999	0.00101		mg/L		101	75 - 125	2	20

Lab Sample ID: 500-254990-5 DU
Matrix: Water
Analysis Batch: 784230

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 784044

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

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

Lab Sample ID: MB 500-781749/1
Matrix: Water
Analysis Batch: 781749

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10		mg/L			08/16/24 00:46	1

QC Sample Results

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

Job ID: 500-254990-1

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

Lab Sample ID: LCS 500-781749/2
Matrix: Water
Analysis Batch: 781749

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	236		mg/L		94	80 - 120

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 500-781984/64
Matrix: Water
Analysis Batch: 781984

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			08/15/24 15:20	1

Lab Sample ID: LCS 500-781984/65
Matrix: Water
Analysis Batch: 781984

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	19.0		mg/L		95	85 - 115

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-781815/59
Matrix: Water
Analysis Batch: 781815

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			08/15/24 17:03	1

Lab Sample ID: LCS 500-781815/60
Matrix: Water
Analysis Batch: 781815

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	9.43		mg/L		94	90 - 119

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 500-782442/16
Matrix: Water
Analysis Batch: 782442

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			08/20/24 11:45	1

Lab Sample ID: LCS 500-782442/17
Matrix: Water
Analysis Batch: 782442

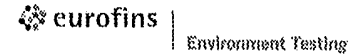
Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	20.0	22.3		mg/L		112	88 - 123

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

Chain of Custody Record



Client Information		Sampler <i>Kaelyn Sperle</i>		Lab PM Mockler, Diana J		Carrier Tracking No(s):		COC No: 500-126835-44027 1																											
Client Contact: <i>Michael Dolan Kaelyn Sperle</i>		Phone: <i>262-278 1621</i>		E-Mail: Diana.Mockler@et.eurofinsus.com		State of Origin: <i>IL</i>		Page: Page 1 of 1																											
Company: KPRG and Associates, Inc.		PWSID		Analysis Requested						Job #: <i>500-254990</i>																									
Address: 14665 West Lisbon Road, Suite 1A		Due Date Requested <i>Standard</i>		<table border="1"> <tr> <td>TAT Requested (days) <i>Standard</i></td> <td colspan="5"></td> </tr> <tr> <td>Compliance Project <input type="checkbox"/> Yes <input type="checkbox"/> No</td> <td colspan="5"></td> </tr> <tr> <td>PO #: <i>4502102435 4502140739</i></td> <td colspan="5"></td> </tr> <tr> <td>WO #:</td> <td colspan="5"></td> </tr> </table>						TAT Requested (days) <i>Standard</i>						Compliance Project <input type="checkbox"/> Yes <input type="checkbox"/> No						PO #: <i>4502102435 4502140739</i>						WO #:						Preservation Codes: D - HNO3 N - None	
TAT Requested (days) <i>Standard</i>																																			
Compliance Project <input type="checkbox"/> Yes <input type="checkbox"/> No																																			
PO #: <i>4502102435 4502140739</i>																																			
WO #:																																			
City: Brookfield		TAT Requested (days) <i>Standard</i>								Other:																									
State, Zip: WI, 53005		Compliance Project <input type="checkbox"/> Yes <input type="checkbox"/> No																																	
Phone: 262-781-0475(Tel)		Project #: 50011597																																	
Email: <i>mitchel.dolan@kprginc.com kaelyns@kprginc.com</i>		SSOW#:																																	
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/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Field Preserved Sample (Yes or No)	903.0, 904.0	6010C, 6020A, 7470A	2540C, 4500_F_C, SM4500_CL_E, SM4500_SO4_E	Total Number of Containers	Special Instructions/Note:																							
				Preservation Code		X	D	D	N		X																								
<i>1-3-4</i> MW-01		<i>8/12/24</i>	<i>1208</i>	<i>G</i>	Water	<i>NN</i>	<i>XX</i>	<i>XX</i>																											
MW-02		<i>8/12/24</i>	<i>1317</i>	<i>↓</i>	Water	<i>NN</i>	<i>↓</i>	<i>↓</i>																											
MW-03		<i>8/12/24</i>	<i>1501</i>	<i>↓</i>	Water	<i>NN</i>	<i>↓</i>	<i>↓</i>																											
MW-04		<i>8/12/24</i>	<i>1600</i>	<i>↓</i>	Water	<i>NN</i>	<i>↓</i>	<i>↓</i>																											
MW-09					Water																														
MW-11					Water																														
MW-14					Water																														
MW-16					Water																														
<i>5</i> Duplicate		<i>8/12/24</i>	<i>-</i>	<i>G</i>	Water	<i>NN</i>	<i>XX</i>	<i>XX</i>			<i>5</i>																								
					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"/> Polson 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>8/12/24/1730</i>	Company: <i>KPRG</i>	Received by: <i>FedEx</i>			Date/Time: <i>8/12/24/1730</i>	Company: <i>FedEx</i>																										
Relinquished by:			Date/Time:	Company:	Received by: <i>Shirley Scott</i>			Date/Time: <i>8/13/24 0925</i>	Company: <i>ETA</i>																										
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: <i>6.2-75.9/1.8-7.7</i>																															



Eurofins Chicago

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

Chain of Custody Record

Client Information		Sampler: <u>Kaelyn Sperle</u>		Lab PM: <u>Mockler, Diana J</u>		Carrier Tracking No(s):		COC No: <u>500-126835-44027 1</u>			
Client Contact: <u>Mitchel Delan Kaelyn Sperle</u>		Phone: <u>262-262-278-1621</u>		E-Mail: <u>Diana.Mockler@et.eurofinsus.com</u>		State of Origin: <u>IL</u>		Page: <u>Page 1 of 1</u>			
Company: <u>KPRG and Associates, Inc.</u>		PWSID:		Analysis Requested					Job #: <u>500-254990</u>		
Address: <u>14665 West Lisbon Road, Suite 1A</u>		Due Date Requested: <u>standard</u>							Preservation Codes: D - HNO3 N - None		
City: <u>Brookfield</u>		TAT Requested (days): <u>standard</u>		Compliance Project <input type="checkbox"/> Yes <input type="checkbox"/> No		Field Filtered Sample (Yes or No)		Total Number of Containers			
State, Zip: <u>WI, 53005</u>		PO #: <u>4502102455 4502140739</u>									
Phone: <u>262-781-0475(Tel)</u>		WO #:		Project #: <u>50011597</u>		SSOW#:		Other:			
Email: <u>mitcheld@kprginc.com Kaelyns@kprginc.com</u>		Project Name: <u>Waukegan CCR Event Desc. Quarterly Waukegan CCR</u>		Site: <u>Illinois</u>							
Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)		Special Instructions/Note:	
<u>MW-01</u>						Water					
<u>MW-02</u>						Water					
<u>MW-03</u>						Water					
<u>MW-04</u>						Water					
<u>MW-09</u>		<u>8/13/24</u>		<u>1326</u>		<u>G</u>		<u>Water</u>		<u>N N X X X</u>	
<u>MW-11</u>		<u>8/13/24</u>		<u>1032</u>		<u>G</u>		<u>Water</u>		<u>N N</u>	
<u>MW-14</u>		<u>8/13/24</u>		<u>1157</u>		<u>G</u>		<u>Water</u>		<u>N N</u>	
<u>MW-16</u>		<u>8/13/24</u>		<u>1513</u>		<u>G</u>		<u>Water</u>		<u>N N</u>	
<u>Duplicate</u>						Water					
<u>Duplicate</u>						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: <u>Kaelyn Sperle</u>		Date/Time: <u>8/13/24/1625</u>		Company: <u>KPRG</u>		Received by: <u>EdEx</u>		Date/Time: <u>8/13/24/1625</u>		Company: <u>EdEx</u>	
Relinquished by:		Date/Time:		Company:		Received by: <u>Shi Roots</u>		Date/Time: <u>8/14/24 0955</u>		Company: <u>EdEx</u>	
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: <u>7.4 → 7.1</u>							



500-254990 Waybi

ORIGIN ID: FEPA (262) 278-1621
KPRG AND ASSOCIATES
414 PLAZA DR STE 106
WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 12AUG24
ACTWGT: 61.90 LB
CAD: 6994084/SSFE2541
DIMS: 23x12x12 IN
BILL THIRD PARTY

Part # 1562374437 KPRG AND ASSOCIATES EXP 06/25

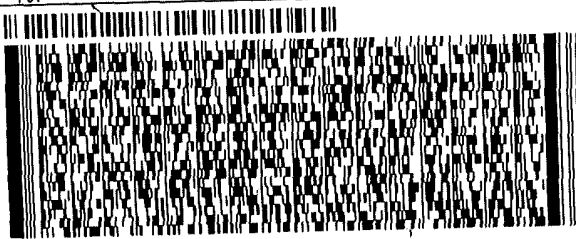
TO EUROFINS CHICAGO
C/O SAMPLE RECEIVING
2417 BOND ST

6.2 + 5.9

UNIVERSITY PARK IL 60484

(123) 123-1234
INVT
PO:

REF:
DEPT:



FedEx
Express



REL#
3786346

J243032407190100

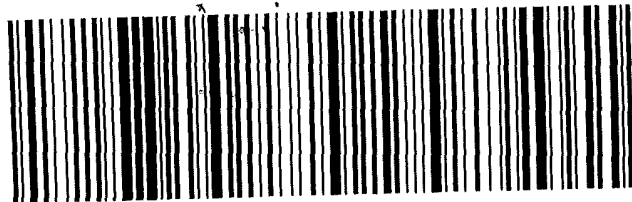
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0263
Mstr# 2782 0641 1965

TUE - 13 AUG 10:30A
PRIORITY OVERNIGHT

0201

79 JOTA

60484
IL-US ORD



48qt.

ORIGIN ID: FEPA (262) 278-1621
KPRG AND ASSOCIATES
414 PLAZA DR STE 106
WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 12AUG24
ACTWGT: 26.00 LB
CAD: 6994084/SSFE2541
DIMS: 15x9x14 IN
BILL THIRD PARTY

Part # 1562374437 KPRG AND ASSOCIATES EXP 06/25

TO EUROFINS CHICAGO
C/O SAMPLE RECEIVING
2417 BOND ST

UNIVERSITY PARK IL 60484

(123) 123-1234
INVT
PO:

REF:
DEPT:

1.8 + 1.7



FedEx
Express



REL#
3786346

AM10E1L072006327

TRK#
0201
MA: 1965 13 18

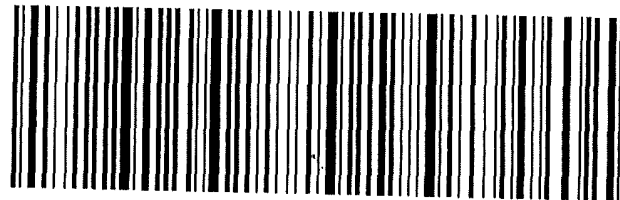
79 A

10:30
5

RT 519

TUE - 13 AUG 10:30A
PRIORITY OVERNIGHT

60484
IL-US ORD



78qt.

ORIGIN ID: FEPA (626) 278-1261

KPRG AND ASSOCIATES
414 PLAZA DR STE 106

WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 13AUG24
ACTWGT: 61.15 LB
CAD: 6994085/SSFE2541
DIMS: 25x13x14 IN

BILL THIRD PARTY

Part # 158
91P
OF
08/25

TO **ATTN: SAMPLE RCV**
EUROFINS CHICAGO
2417 BOND ST



RT 5

500-254990 Waybi

UNIVERSITY PARK IL 604 ST

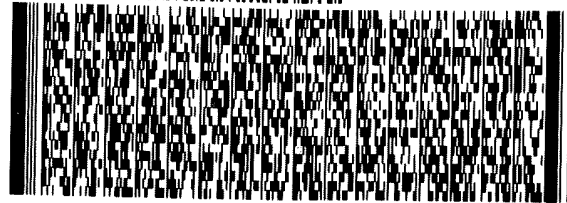
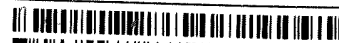
(999) 999-9999

REF:

DEPT:

INU:

PD:



FedEx
Express



J2430024071301 LW

2 of 3

MPS# **2782 5409 9184**

Mstr# 2782 5409 9173

0201

79 JOTA

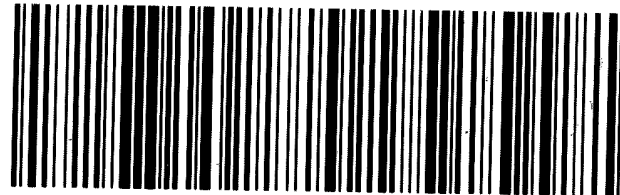
WED - 14 AUG 10:30A

PRIORITY OVERNIGHT

AHS

60484

IL-US ORD



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Chain of Custody Record



Client Information (Sub Contract Lab)		Lab PM Mockler, Diana J		Carrier Tracking No(s) COC No 500-191590-1	
Shipping/Receiving Company TestAmerica Laboratories, Inc.		E-Mail Diana.Mockler@et.eurofins.com		Page Page 1 of 1	
Address 13715 Rider Trail North, City Earth City State, Zip MO, 63045 Phone 314-298-8566(Tel) 314-298-8757(Fax) Email		Accreditations Required (See note): NELAP - Illinois		Job # 500-254990-2	
Due Date Requested: 9/12/2024		Analysis Requested		Preservation Codes:	
TAT Requested (days):		Perform MS/MSD (Yes or No)		Total Number of containers	
PO #		903.0/PrecSep_Z1 Standard Target List		3	
WO #		904.0/PrecSep_0 Standard Target List		3	
Project # 50011597		Field Filtered Sample (Yes or No)		3	
Site NRG Midwest Generation Waukegan		Preservation Code:		3	
Sample Identification - Client ID (Lab ID)		Sample Date		Special Instructions/Note:	
MW-01 (500-254990-1)	8/12/24	12:08 Central	Water	X	Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume.
MW-02 (500-254990-2)	8/12/24	13:17 Central	Water	X	Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume.
MW-03 (500-254990-3)	8/12/24	15:01 Central	Water	X	Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume.
MW-04 (500-254990-4)	8/12/24	16:00 Central	Water	X	Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume.
Duplicate (500-254990-5)	8/12/24	Central	Water	X	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 analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.</p>					
Possible Hazard Identification					
Unconfirmed					
Deliverable Requested: I, II, III, IV, Other (specify) _____ Primary Deliverable Rank: 2					
Empty Kit Relinquished by: _____ Date: _____ Time: _____					
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)					
<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months					
Special Instructions/QC Requirements:					
Relinquished by: <u>Suphanie Hernandez</u>		Date/Time: <u>8/13/24 1400</u>		Company: <u>EEPA</u>	
Relinquished by: _____		Date/Time: _____		Company: _____	
Relinquished by: _____		Date/Time: _____		Company: _____	
Custody Seals Intact: _____		Custody Seal No.: _____		Cooler Temperature(s) °C and Other Remarks: _____	
△ Yes △ No		Received by: <u>M. Pinette</u>		Date/Time: <u>Aug 14 2024 0845</u>	
Received by: _____		Date/Time: _____		Company: _____	

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-254990-1

Login Number: 254990

List Number: 1

Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	False	
Cooler Temperature is recorded.	True	5.9,1.7,7.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Lab Chronicle

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

Job ID: 500-254990-1

Client Sample ID: MW-01
Date Collected: 08/12/24 12:08
Date Received: 08/13/24 09:25

Lab Sample ID: 500-254990-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			782552	BDE	EET CHI	08/21/24 09:01 - 08/21/24 15:01 ¹
Total Recoverable	Analysis	6020B		1	783273	RN	EET CHI	08/26/24 12:17
Total Recoverable	Prep	3005A			782552	BDE	EET CHI	08/21/24 09:01 - 08/21/24 15:01 ¹
Total Recoverable	Analysis	6020B		1	783596	RN	EET CHI	08/27/24 13:30
Total Recoverable	Prep	3005A			782552	BDE	EET CHI	08/21/24 09:01 - 08/21/24 15:01 ¹
Total Recoverable	Analysis	6020B		1	783978	RN	EET CHI	08/29/24 15:13
Total/NA	Prep	7470A			784044	MJG	EET CHI	08/30/24 10:45 - 08/30/24 12:45 ¹
Total/NA	Analysis	7470A		1	784230	MJG	EET CHI	09/03/24 07:57
Total/NA	Analysis	SM 2540C		1	781749	CLB	EET CHI	08/16/24 01:19
Total/NA	Analysis	SM 4500 CI- E		2	781984	TR	EET CHI	08/15/24 16:17
Total/NA	Analysis	SM 4500 F C		1	781815	SO	EET CHI	08/15/24 17:40
Total/NA	Analysis	SM 4500 SO4 E		5	782442	TR	EET CHI	08/20/24 12:15

Client Sample ID: MW-02
Date Collected: 08/12/24 13:17
Date Received: 08/13/24 09:25

Lab Sample ID: 500-254990-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			782552	BDE	EET CHI	08/21/24 09:01 - 08/21/24 15:01 ¹
Total Recoverable	Analysis	6020B		1	783273	RN	EET CHI	08/26/24 12:33
Total Recoverable	Prep	3005A			782552	BDE	EET CHI	08/21/24 09:01 - 08/21/24 15:01 ¹
Total Recoverable	Analysis	6020B		1	783596	RN	EET CHI	08/27/24 13:42
Total Recoverable	Prep	3005A			782552	BDE	EET CHI	08/21/24 09:01 - 08/21/24 15:01 ¹
Total Recoverable	Analysis	6020B		1	783978	RN	EET CHI	08/29/24 15:26
Total/NA	Prep	7470A			784044	MJG	EET CHI	08/30/24 10:45 - 08/30/24 12:45 ¹
Total/NA	Analysis	7470A		1	784230	MJG	EET CHI	09/03/24 07:59
Total/NA	Analysis	SM 2540C		1	781749	CLB	EET CHI	08/16/24 01:22
Total/NA	Analysis	SM 4500 CI- E		2	781984	TR	EET CHI	08/15/24 16:03
Total/NA	Analysis	SM 4500 F C		1	781815	SO	EET CHI	08/15/24 17:44
Total/NA	Analysis	SM 4500 SO4 E		5	782442	TR	EET CHI	08/20/24 12:15

Client Sample ID: MW-03
Date Collected: 08/12/24 15:01
Date Received: 08/13/24 09:25

Lab Sample ID: 500-254990-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			782552	BDE	EET CHI	08/21/24 09:01 - 08/21/24 15:01 ¹
Total Recoverable	Analysis	6020B		1	783273	RN	EET CHI	08/26/24 12:35
Total Recoverable	Prep	3005A			782552	BDE	EET CHI	08/21/24 09:01 - 08/21/24 15:01 ¹
Total Recoverable	Analysis	6020B		1	783596	RN	EET CHI	08/27/24 13:44
Total Recoverable	Prep	3005A			782552	BDE	EET CHI	08/21/24 09:01 - 08/21/24 15:01 ¹
Total Recoverable	Analysis	6020B		1	783978	RN	EET CHI	08/29/24 15:38
Total/NA	Prep	7470A			784044	MJG	EET CHI	08/30/24 10:45 - 08/30/24 12:45 ¹
Total/NA	Analysis	7470A		1	784230	MJG	EET CHI	09/03/24 08:01

Eurofins Chicago

Lab Chronicle

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

Job ID: 500-254990-1

Client Sample ID: MW-03
Date Collected: 08/12/24 15:01
Date Received: 08/13/24 09:25

Lab Sample ID: 500-254990-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM 2540C		1	781749	CLB	EET CHI	08/16/24 01:24
Total/NA	Analysis	SM 4500 Cl- E		5	781984	TR	EET CHI	08/15/24 16:16
Total/NA	Analysis	SM 4500 F C		1	781815	SO	EET CHI	08/15/24 17:50
Total/NA	Analysis	SM 4500 SO4 E		5	782442	TR	EET CHI	08/20/24 12:15

Client Sample ID: MW-04
Date Collected: 08/12/24 16:00
Date Received: 08/13/24 09:25

Lab Sample ID: 500-254990-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			782552	BDE	EET CHI	08/21/24 09:01 - 08/21/24 15:01 ¹
Total Recoverable	Analysis	6020B		1	783273	RN	EET CHI	08/26/24 12:37
Total Recoverable	Prep	3005A			782552	BDE	EET CHI	08/21/24 09:01 - 08/21/24 15:01 ¹
Total Recoverable	Analysis	6020B		1	783596	RN	EET CHI	08/27/24 14:00
Total Recoverable	Prep	3005A			782552	BDE	EET CHI	08/21/24 09:01 - 08/21/24 15:01 ¹
Total Recoverable	Analysis	6020B		1	783978	RN	EET CHI	08/29/24 15:41
Total/NA	Prep	7470A			784044	MJG	EET CHI	08/30/24 10:45 - 08/30/24 12:45 ¹
Total/NA	Analysis	7470A		1	784230	MJG	EET CHI	09/03/24 08:03
Total/NA	Analysis	SM 2540C		1	781749	CLB	EET CHI	08/16/24 01:27
Total/NA	Analysis	SM 4500 Cl- E		2	781984	TR	EET CHI	08/15/24 16:03
Total/NA	Analysis	SM 4500 F C		1	781815	SO	EET CHI	08/15/24 17:54
Total/NA	Analysis	SM 4500 SO4 E		10	782442	TR	EET CHI	08/20/24 12:32

Client Sample ID: Duplicate
Date Collected: 08/12/24 00:00
Date Received: 08/13/24 09:25

Lab Sample ID: 500-254990-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			782552	BDE	EET CHI	08/21/24 09:01 - 08/21/24 15:01 ¹
Total Recoverable	Analysis	6020B		1	783273	RN	EET CHI	08/26/24 12:40
Total Recoverable	Prep	3005A			782552	BDE	EET CHI	08/21/24 09:01 - 08/21/24 15:01 ¹
Total Recoverable	Analysis	6020B		1	783596	RN	EET CHI	08/27/24 14:02
Total Recoverable	Prep	3005A			782552	BDE	EET CHI	08/21/24 09:01 - 08/21/24 15:01 ¹
Total Recoverable	Analysis	6020B		1	783978	RN	EET CHI	08/29/24 15:43
Total/NA	Prep	7470A			784044	MJG	EET CHI	08/30/24 10:45 - 08/30/24 12:45 ¹
Total/NA	Analysis	7470A		1	784230	MJG	EET CHI	09/03/24 08:21
Total/NA	Analysis	SM 2540C		1	781749	CLB	EET CHI	08/16/24 01:29
Total/NA	Analysis	SM 4500 Cl- E		2	781984	TR	EET CHI	08/15/24 16:03
Total/NA	Analysis	SM 4500 F C		1	781815	SO	EET CHI	08/15/24 17:59
Total/NA	Analysis	SM 4500 SO4 E		5	782442	TR	EET CHI	08/20/24 12:16

Lab Chronicle

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

Job ID: 500-254990-1

Client Sample ID: MW-09
Date Collected: 08/13/24 13:26
Date Received: 08/14/24 09:55

Lab Sample ID: 500-254990-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			782552	BDE	EET CHI	08/21/24 09:01 - 08/21/24 15:01 ¹
Total Recoverable	Analysis	6020B		1	783273	RN	EET CHI	08/26/24 12:42
Total Recoverable	Prep	3005A			782552	BDE	EET CHI	08/21/24 09:01 - 08/21/24 15:01 ¹
Total Recoverable	Analysis	6020B		1	783596	RN	EET CHI	08/27/24 14:05
Total Recoverable	Prep	3005A			782552	BDE	EET CHI	08/21/24 09:01 - 08/21/24 15:01 ¹
Total Recoverable	Analysis	6020B		5	783978	RN	EET CHI	08/29/24 15:45
Total/NA	Prep	7470A			784044	MJG	EET CHI	08/30/24 10:45 - 08/30/24 12:45 ¹
Total/NA	Analysis	7470A		1	784230	MJG	EET CHI	09/03/24 08:30
Total/NA	Analysis	SM 2540C		1	781749	CLB	EET CHI	08/16/24 01:32
Total/NA	Analysis	SM 4500 CI- E		2	781984	TR	EET CHI	08/15/24 16:02
Total/NA	Analysis	SM 4500 F C		1	781815	SO	EET CHI	08/15/24 18:04
Total/NA	Analysis	SM 4500 SO4 E		5	782442	TR	EET CHI	08/20/24 12:16

Client Sample ID: MW-11
Date Collected: 08/13/24 10:32
Date Received: 08/14/24 09:55

Lab Sample ID: 500-254990-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			782552	BDE	EET CHI	08/21/24 09:01 - 08/21/24 15:01 ¹
Total Recoverable	Analysis	6020B		1	783273	RN	EET CHI	08/26/24 12:58
Total Recoverable	Prep	3005A			782552	BDE	EET CHI	08/21/24 09:01 - 08/21/24 15:01 ¹
Total Recoverable	Analysis	6020B		1	783596	RN	EET CHI	08/27/24 14:18
Total Recoverable	Prep	3005A			782552	BDE	EET CHI	08/21/24 09:01 - 08/21/24 15:01 ¹
Total Recoverable	Analysis	6020B		1	783978	RN	EET CHI	08/29/24 15:48
Total/NA	Prep	7470A			784044	MJG	EET CHI	08/30/24 10:45 - 08/30/24 12:45 ¹
Total/NA	Analysis	7470A		1	784230	MJG	EET CHI	09/03/24 08:39
Total/NA	Analysis	SM 2540C		1	781749	CLB	EET CHI	08/16/24 01:35
Total/NA	Analysis	SM 4500 CI- E		2	781984	TR	EET CHI	08/15/24 16:02
Total/NA	Analysis	SM 4500 F C		1	781815	SO	EET CHI	08/15/24 18:08
Total/NA	Analysis	SM 4500 SO4 E		1	782442	TR	EET CHI	08/20/24 11:47

Client Sample ID: MW-14
Date Collected: 08/13/24 11:57
Date Received: 08/14/24 09:55

Lab Sample ID: 500-254990-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			782552	BDE	EET CHI	08/21/24 09:01 - 08/21/24 15:01 ¹
Total Recoverable	Analysis	6020B		1	783273	RN	EET CHI	08/26/24 13:00
Total Recoverable	Prep	3005A			782552	BDE	EET CHI	08/21/24 09:01 - 08/21/24 15:01 ¹
Total Recoverable	Analysis	6020B		1	783596	RN	EET CHI	08/27/24 14:21
Total Recoverable	Prep	3005A			782552	BDE	EET CHI	08/21/24 09:01 - 08/21/24 15:01 ¹
Total Recoverable	Analysis	6020B		1	783978	RN	EET CHI	08/29/24 15:50
Total/NA	Prep	7470A			784044	MJG	EET CHI	08/30/24 10:45 - 08/30/24 12:45 ¹
Total/NA	Analysis	7470A		1	784230	MJG	EET CHI	09/03/24 08:41

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Lab Chronicle

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

Job ID: 500-254990-1

Client Sample ID: MW-14
Date Collected: 08/13/24 11:57
Date Received: 08/14/24 09:55

Lab Sample ID: 500-254990-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM 2540C		1	781749	CLB	EET CHI	08/16/24 01:37
Total/NA	Analysis	SM 4500 CI- E		1	781984	TR	EET CHI	08/15/24 15:21
Total/NA	Analysis	SM 4500 F C		1	781815	SO	EET CHI	08/15/24 18:24
Total/NA	Analysis	SM 4500 SO4 E		1	782442	TR	EET CHI	08/20/24 11:47

Client Sample ID: MW-16
Date Collected: 08/13/24 15:13
Date Received: 08/14/24 09:55

Lab Sample ID: 500-254990-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			782552	BDE	EET CHI	08/21/24 09:01 - 08/21/24 15:01 ¹
Total Recoverable	Analysis	6020B		1	783273	RN	EET CHI	08/26/24 13:02
Total Recoverable	Prep	3005A			782552	BDE	EET CHI	08/21/24 09:01 - 08/21/24 15:01 ¹
Total Recoverable	Analysis	6020B		1	783596	RN	EET CHI	08/27/24 14:23
Total Recoverable	Prep	3005A			782552	BDE	EET CHI	08/21/24 09:01 - 08/21/24 15:01 ¹
Total Recoverable	Analysis	6020B		5	783978	RN	EET CHI	08/29/24 15:52
Total/NA	Prep	7470A			784044	MJG	EET CHI	08/30/24 10:45 - 08/30/24 12:45 ¹
Total/NA	Analysis	7470A		1	784230	MJG	EET CHI	09/03/24 08:43
Total/NA	Analysis	SM 2540C		1	781749	CLB	EET CHI	08/16/24 01:40
Total/NA	Analysis	SM 4500 CI- E		5	781984	TR	EET CHI	08/15/24 16:01
Total/NA	Analysis	SM 4500 F C		1	781815	SO	EET CHI	08/15/24 18:28
Total/NA	Analysis	SM 4500 SO4 E		20	782442	TR	EET CHI	08/20/24 12:32

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, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

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

Job ID: 500-254990-1

Laboratory: Eurofins Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	05-31-25

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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 9/16/2024 3:31:12 PM

JOB DESCRIPTION

Waukegan CCR (RAD)

JOB NUMBER

500-254990-2

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.

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Authorization



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Authorized for release by
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Case Narrative

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

Job ID: 500-254990-2

Job ID: 500-254990-2

Eurofins Chicago

Job Narrative 500-254990-2

Receipt

The samples were received on 8/13/2024 9:25 AM and 8/14/2024 9:55 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 1.7°C, 5.9°C and 7.1°C.

Receipt Exceptions

The following samples were received at the laboratory outside the required temperature criteria: MW-09 (500-254990-6), MW-11 (500-254990-7), MW-14 (500-254990-8) and MW-16 (500-254990-9).

Gas Flow Proportional Counter

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

Rad

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



Method Summary

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

Job ID: 500-254990-2

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: 500-254990-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-254990-1	MW-01	Water	08/12/24 12:08	08/13/24 09:25
500-254990-2	MW-02	Water	08/12/24 13:17	08/13/24 09:25
500-254990-3	MW-03	Water	08/12/24 15:01	08/13/24 09:25
500-254990-4	MW-04	Water	08/12/24 16:00	08/13/24 09:25
500-254990-5	Duplicate	Water	08/12/24 00:00	08/13/24 09:25
500-254990-6	MW-09	Water	08/13/24 13:26	08/14/24 09:55
500-254990-7	MW-11	Water	08/13/24 10:32	08/14/24 09:55
500-254990-8	MW-14	Water	08/13/24 11:57	08/14/24 09:55
500-254990-9	MW-16	Water	08/13/24 15:13	08/14/24 09:55

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- 2
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- 13
- 14

Client Sample Results

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

Job ID: 500-254990-2

Client Sample ID: MW-01

Lab Sample ID: 500-254990-1

Date Collected: 08/12/24 12:08

Matrix: Water

Date Received: 08/13/24 09:25

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	<0.190	U	0.115	0.116	1.00	0.190	pCi/L	08/19/24 08:10	09/10/24 17:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.2		30 - 110					08/19/24 08:10	09/10/24 17:14	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	<0.606	U	0.364	0.365	1.00	0.606	pCi/L	08/19/24 08:14	09/06/24 12:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.2		30 - 110					08/19/24 08:14	09/06/24 12:09	1
Y Carrier	79.3		30 - 110					08/19/24 08:14	09/06/24 12:09	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	<0.606	U	0.382	0.383	5.00	0.606	pCi/L		09/16/24 12:56	1

Client Sample Results

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

Job ID: 500-254990-2

Client Sample ID: MW-02
Date Collected: 08/12/24 13:17
Date Received: 08/13/24 09:25

Lab Sample ID: 500-254990-2
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	<0.198	U	0.130	0.130	1.00	0.198	pCi/L	08/19/24 08:10	09/10/24 17:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.3		30 - 110					08/19/24 08:10	09/10/24 17:15	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	<0.638	U	0.384	0.385	1.00	0.638	pCi/L	08/19/24 08:14	09/06/24 12:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.3		30 - 110					08/19/24 08:14	09/06/24 12:11	1
Y Carrier	81.1		30 - 110					08/19/24 08:14	09/06/24 12:11	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	<0.638	U	0.405	0.406	5.00	0.638	pCi/L		09/16/24 12:56	1

Client Sample Results

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

Job ID: 500-254990-2

Client Sample ID: MW-03

Lab Sample ID: 500-254990-3

Date Collected: 08/12/24 15:01

Matrix: Water

Date Received: 08/13/24 09:25

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	<0.198	U	0.102	0.102	1.00	0.198	pCi/L	08/19/24 08:10	09/10/24 17:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.2		30 - 110					08/19/24 08:10	09/10/24 17:15	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	<0.546	U	0.298	0.298	1.00	0.546	pCi/L	08/19/24 08:14	09/06/24 12:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.2		30 - 110					08/19/24 08:14	09/06/24 12:12	1
Y Carrier	80.7		30 - 110					08/19/24 08:14	09/06/24 12:12	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	<0.546	U	0.315	0.315	5.00	0.546	pCi/L		09/16/24 12:56	1

Client Sample Results

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

Job ID: 500-254990-2

Client Sample ID: MW-04
Date Collected: 08/12/24 16:00
Date Received: 08/13/24 09:25

Lab Sample ID: 500-254990-4
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	<0.197	U	0.134	0.135	1.00	0.197	pCi/L	08/19/24 08:10	09/10/24 17:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	73.6		30 - 110					08/19/24 08:10	09/10/24 17:14	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	<0.821	U	0.508	0.510	1.00	0.821	pCi/L	08/19/24 08:14	09/06/24 12:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	73.6		30 - 110					08/19/24 08:14	09/06/24 12:12	1
Y Carrier	66.9		30 - 110					08/19/24 08:14	09/06/24 12:12	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	<0.821	U	0.525	0.528	5.00	0.821	pCi/L		09/16/24 12:56	1

Client Sample Results

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

Job ID: 500-254990-2

Client Sample ID: Duplicate
Date Collected: 08/12/24 00:00
Date Received: 08/13/24 09:25

Lab Sample ID: 500-254990-5
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	<0.104	U	0.0605	0.0606	1.00	0.104	pCi/L	08/19/24 08:10	09/10/24 17:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	75.6		30 - 110					08/19/24 08:10	09/10/24 17:14	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	<0.770	U	0.469	0.471	1.00	0.770	pCi/L	08/19/24 08:14	09/06/24 12:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	75.6		30 - 110					08/19/24 08:14	09/06/24 12:12	1
Y Carrier	74.8		30 - 110					08/19/24 08:14	09/06/24 12:12	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	<0.770	U	0.473	0.475	5.00	0.770	pCi/L		09/16/24 12:59	1

Client Sample Results

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

Job ID: 500-254990-2

Client Sample ID: MW-09
Date Collected: 08/13/24 13:26
Date Received: 08/14/24 09:55

Lab Sample ID: 500-254990-6
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.332		0.131	0.134	1.00	0.130	pCi/L	08/19/24 08:10	09/10/24 20:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.8		30 - 110					08/19/24 08:10	09/10/24 20:17	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		0.473	0.479	1.00	0.695	pCi/L	08/19/24 08:14	09/06/24 12:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.8		30 - 110					08/19/24 08:14	09/06/24 12:12	1
Y Carrier	68.8		30 - 110					08/19/24 08:14	09/06/24 12:12	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	1.10		0.491	0.497	5.00	0.695	pCi/L		09/16/24 12:59	1

Client Sample Results

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

Job ID: 500-254990-2

Client Sample ID: MW-11

Lab Sample ID: 500-254990-7

Date Collected: 08/13/24 10:32

Matrix: Water

Date Received: 08/14/24 09:55

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	0.494		0.163	0.169	1.00	0.144	pCi/L	08/19/24 08:10	09/10/24 20:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.4		30 - 110					08/19/24 08:10	09/10/24 20:17	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	1.63		0.523	0.544	1.00	0.598	pCi/L	08/19/24 08:14	09/06/24 12:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.4		30 - 110					08/19/24 08:14	09/06/24 12:12	1
Y Carrier	81.9		30 - 110					08/19/24 08:14	09/06/24 12:12	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	2.13		0.548	0.570	5.00	0.598	pCi/L		09/16/24 12:59	1

Client Sample Results

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

Job ID: 500-254990-2

Client Sample ID: MW-14
Date Collected: 08/13/24 11:57
Date Received: 08/14/24 09:55

Lab Sample ID: 500-254990-8
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.194		0.141	0.142	1.00	0.193	pCi/L	08/19/24 08:10	09/10/24 20:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.1		30 - 110					08/19/24 08:10	09/10/24 20:17	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	<0.884	U	0.565	0.568	1.00	0.884	pCi/L	08/19/24 08:14	09/06/24 12:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.1		30 - 110					08/19/24 08:14	09/06/24 12:12	1
Y Carrier	78.5		30 - 110					08/19/24 08:14	09/06/24 12:12	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	<0.884	U	0.582	0.585	5.00	0.884	pCi/L		09/16/24 12:59	1

Client Sample Results

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

Job ID: 500-254990-2

Client Sample ID: MW-16
Date Collected: 08/13/24 15:13
Date Received: 08/14/24 09:55

Lab Sample ID: 500-254990-9
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.364		0.156	0.160	1.00	0.186	pCi/L	08/19/24 08:10	09/10/24 20:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.1		30 - 110					08/19/24 08:10	09/10/24 20:17	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	0.760		0.397	0.403	1.00	0.547	pCi/L	08/19/24 08:14	09/06/24 12:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.1		30 - 110					08/19/24 08:14	09/06/24 12:13	1
Y Carrier	78.5		30 - 110					08/19/24 08:14	09/06/24 12:13	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	1.12		0.427	0.434	5.00	0.547	pCi/L		09/16/24 12:59	1

Definitions/Glossary

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

Job ID: 500-254990-2

Qualifiers

Rad

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

Glossary

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

QC Association Summary

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

Job ID: 500-254990-2

Rad

Prep Batch: 675562

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254990-1	MW-01	Total/NA	Water	PrecSep-21	
500-254990-2	MW-02	Total/NA	Water	PrecSep-21	
500-254990-3	MW-03	Total/NA	Water	PrecSep-21	
500-254990-4	MW-04	Total/NA	Water	PrecSep-21	
500-254990-5	Duplicate	Total/NA	Water	PrecSep-21	
500-254990-6	MW-09	Total/NA	Water	PrecSep-21	
500-254990-7	MW-11	Total/NA	Water	PrecSep-21	
500-254990-8	MW-14	Total/NA	Water	PrecSep-21	
500-254990-9	MW-16	Total/NA	Water	PrecSep-21	
MB 160-675562/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-675562/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 675563

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254990-1	MW-01	Total/NA	Water	PrecSep_0	
500-254990-2	MW-02	Total/NA	Water	PrecSep_0	
500-254990-3	MW-03	Total/NA	Water	PrecSep_0	
500-254990-4	MW-04	Total/NA	Water	PrecSep_0	
500-254990-5	Duplicate	Total/NA	Water	PrecSep_0	
500-254990-6	MW-09	Total/NA	Water	PrecSep_0	
500-254990-7	MW-11	Total/NA	Water	PrecSep_0	
500-254990-8	MW-14	Total/NA	Water	PrecSep_0	
500-254990-9	MW-16	Total/NA	Water	PrecSep_0	
MB 160-675563/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-675563/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

QC Sample Results

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

Job ID: 500-254990-2

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-675562/1-A
Matrix: Water
Analysis Batch: 678848

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 675562

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	<0.157	U	0.0880	0.0880	1.00	0.157	pCi/L	08/19/24 08:10	09/10/24 12:48	1
Carrier	MB MB		Limits			Prepared	Analyzed	Dil Fac		
%Yield	Qualifier									
Ba Carrier	100		30 - 110			08/19/24 08:10	09/10/24 12:48	1		

Lab Sample ID: LCS 160-675562/2-A
Matrix: Water
Analysis Batch: 678848

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 675562

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-226	9.58	9.064		1.01	1.00	0.0894	pCi/L	95	75 - 125
Carrier	LCS LCS		Limits			Prepared	Analyzed	Dil Fac	
%Yield	Qualifier								
Ba Carrier	92.9		30 - 110						

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-675563/1-A
Matrix: Water
Analysis Batch: 678528

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 675563

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	<0.449	U	0.240	0.240	1.00	0.449	pCi/L	08/19/24 08:14	09/06/24 12:07	1
Carrier	MB MB		Limits			Prepared	Analyzed	Dil Fac		
%Yield	Qualifier									
Ba Carrier	100		30 - 110			08/19/24 08:14	09/06/24 12:07	1		
Y Carrier	80.7		30 - 110			08/19/24 08:14	09/06/24 12:07	1		

Lab Sample ID: LCS 160-675563/2-A
Matrix: Water
Analysis Batch: 678528

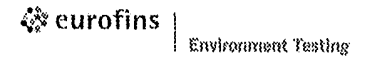
Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 675563

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-228	8.54	8.345		1.19	1.00	0.492	pCi/L	98	75 - 125
Carrier	LCS LCS		Limits			Prepared	Analyzed	Dil Fac	
%Yield	Qualifier								
Ba Carrier	92.9		30 - 110						
Y Carrier	80.7		30 - 110						

Eurofins Chicago

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

Chain of Custody Record



Client Information		Sampler Kaelyn Sperle		Lab PM Mockler, Diana J		Carrier Tracking No(s):		COC No: 500-126835-44027 1																																																																																																																																																																																																																																																																																						
Client Contact: Michael Dolan Kaelyn Sperle		Phone: 262-278 1621		E-Mail: Diana.Mockler@et.eurofinsus.com		State of Origin: IL		Page: Page 1 of 1																																																																																																																																																																																																																																																																																						
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Address: 14665 West Lisbon Road, Suite 1A		Due Date Requested Standard		<table border="1"> <tr> <td rowspan="4">Field Filtered Sample (Yes or No)</td> <td rowspan="4">Pulsar MS/MS3 (Yes or No)</td> <td rowspan="4">903.0, 904.0</td> <td rowspan="4">6010C, 6020A, 7470A</td> <td rowspan="4">2540C, 4500_F_C, SM4500_CL_E, SM4500_SO4_E</td> <td rowspan="4">Total Number of Containers</td> <td rowspan="4">Preservation Codes: D - HNO3 N - None</td> <td rowspan="4">Other:</td> </tr> <tr><td>TAT Requested (days) Standard</td></tr> <tr><td>Compliance Project <input type="checkbox"/> Yes <input type="checkbox"/> No</td></tr> <tr><td>PO #: 4502102435 4502140739</td></tr> <tr> <td colspan="2">City: Brookfield</td> <td colspan="2">Project Name: Waukegan CCR Event Desc. 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Quarterly Waukegan CCR		MW-01		8/12/24		1208		G		Water		Site: Illinois		MW-02		8/12/24		1317		↓		Water				MW-03		8/12/24		1501		↓		Water				MW-04		8/12/24		1600		↓		Water				MW-09								Water				MW-11								Water				MW-14								Water				MW-16								Water				Duplicate		8/12/24		-		G		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.				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Relinquished by:				Date/Time:		Company:		Received by: Shirley Scott		Date/Time: 8/13/24 0925		Company: EJTA																																																																																																																																																																																																																																																																																		
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Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.		Cooler Temperature(s) °C and Other Remarks: 6.2 → 5.9, 1.8 → 1.7																																																																																																																																																																																																																																																																																										

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Eurofins Chicago

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

Chain of Custody Record

eurofins | Environment Testing

Client Information		Sampler: <u>Kaelyn Sperle</u>			Lab PM: <u>Mockler, Diana J</u>			Carrier Tracking No(s):			COC No: <u>500-126835-44027 1</u>		
Client Contact: <u>Mitchel Dolan - Kaelyn Sperle</u>		Phone: <u>262-26278-1621</u>			E-Mail: <u>Diana Mockler@et.eurofins.com</u>			State of Origin: <u>IL</u>			Page: <u>Page 1 of 1</u>		
Company: <u>KPRG and Associates, Inc.</u>				PWSID:			Analysis Requested						Job #: <u>500-254990</u>
Address: <u>14665 West Lisbon Road, Suite 1A</u>													Preservation Codes: D - HNO3 N - None
City: <u>Brookfield</u>				Due Date Requested: <u>Standard</u>									
State, Zip: <u>WI, 53005</u>				TAT Requested (days): <u>Standard</u>									
Phone: <u>262-781-0475(Tel)</u>				Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No									
Email: <u>mitcheld@kprginc.com - kaelyns@kprginc.com</u>				PO #: <u>4502102435 - 4502140739</u>									
Project Name: <u>Waukegan CCR Event Desc. Quarterly Waukegan CCR</u>				WO #:									
Site: <u>Illinois</u>				Project #: <u>50011597</u>									
				SSOW#:									Other:
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	<i>Field Filtered Sample (Yes or No)</i>	<i>Autoclave (Yes or No)</i>	<i>Refrigerate (Yes or No)</i>	<i>Preserve (Yes or No)</i>	<i>Seal (Yes or No)</i>	<i>Other</i>	<i>Total Number of Containers</i>	
Preservation Codes													
<u>MW-01</u>					Water								
<u>MW-02</u>					Water								
<u>MW-03</u>					Water								
<u>MW-04</u>					Water								
<u>MW-09</u>		8/13/24	1326	G	Water	N	N	X	X	X		5	
<u>MW-11</u>		8/13/24	1032		Water	N	N						
<u>MW-14</u>		8/13/24	1157		Water	N	N						
<u>MW-16</u>		8/13/24	1513		Water	N	N						
<u>Duplicate</u>					Water								
<u></u>					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 <u>I, II, III, IV, Other (specify)</u>						Special Instructions/QC Requirements							
Empty Kit Relinquished by			Date		Time		Method of Shipment						
Relinquished by: <u>Kaelyn Sperle</u>			Date/Time: <u>8/13/24/1625</u>		Company: <u>KPRG</u>		Received by: <u>FEDEX</u>		Date/Time: <u>8/13/24/1625</u>		Company: <u>FEDEX</u>		
Relinquished by: _____			Date/Time: _____		Company: _____		Received by: <u>Shirley Rooks</u>		Date/Time: <u>8/14/24 0955</u>		Company: <u>ETA</u>		
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: <u>7.4-7.1</u>								

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500-254990 Waybi

ORIGIN ID: FEPA (262) 278-1621
KPRG AND ASSOCIATES
414 PLAZA DR STE 106
WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 12AUG24
ACTWGT: 61.90 LB
CAD: 6994084/SSFE2541
DIMS: 23x12x12 IN
BILL THIRD PARTY

Part # 1562374437 KPRG AND ASSOCIATES EXP 06/25

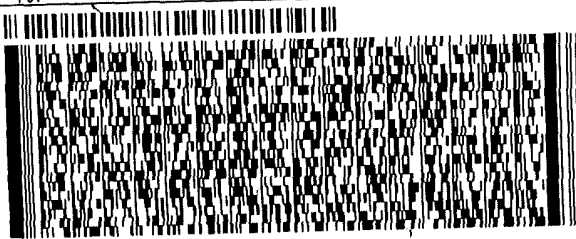
TO EUROFINS CHICAGO
C/O SAMPLE RECEIVING
2417 BOND ST

6.2 + 5.9

UNIVERSITY PARK IL 60484

(123) 123-1234
INVT
PO:

REF:
DEPT:



FedEx
Express



REL#
3786346

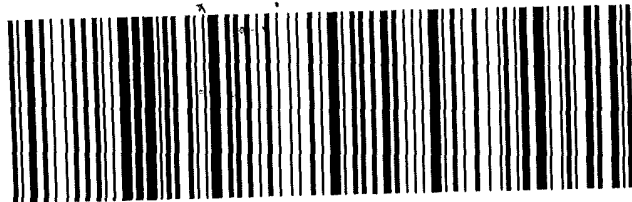
TUE - 13 AUG 10:30A
PRIORITY OVERNIGHT

4 of 4
MP# 2782 0641 1998
Mstr# 2782 0641 1965

0201

79 JOTA

60484
IL-US ORD



48qt.

ORIGIN ID: FEPA (262) 278-1621
KPRG AND ASSOCIATES
414 PLAZA DR STE 106
WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 12AUG24
ACTWGT: 26.00 LB
CAD: 6994084/SSFE2541
DIMS: 15x9x14 IN
BILL THIRD PARTY

Part # 1562374437 KPRG AND ASSOCIATES EXP 06/25

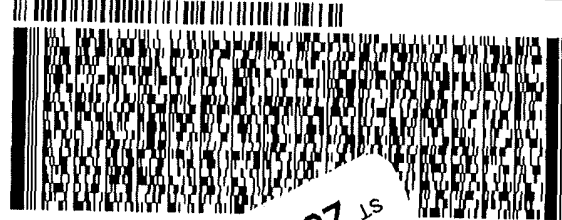
TO EUROFINS CHICAGO
C/O SAMPLE RECEIVING
2417 BOND ST

UNIVERSITY PARK IL 60484

1.8 + 1.7

(123) 123-1234
INVT
PO:

REF:
DEPT:



FedEx
Express



REL#
3786346

TRK#
0201
MA: 1965 13 18

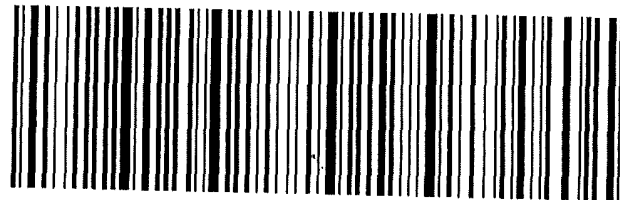
79 A

10:30
5

RT 519

TUE - 13 AUG 10:30A
PRIORITY OVERNIGHT

60484
IL-US ORD



78qt.

ORIGIN ID: FEPA (626) 278-1261

KPRG AND ASSOCIATES
414 PLAZA DR STE 106

WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 13AUG24
ACTWGT: 61.15 LB
CAD: 6994085/SSFE2541
DIMS: 25x13x14 IN

BILL THIRD PARTY

Part # 158
91P
OF
08/25

TO **ATTN: SAMPLE RCV**
EUROFINS CHICAGO
2417 BOND ST



RT 5

500-254990 Waybi

UNIVERSITY PARK IL 604 ST

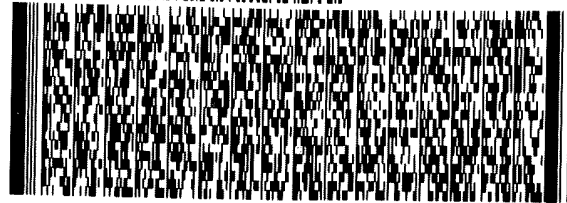
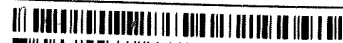
(999) 999-9999

REF:

DEPT:

INU:

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FedEx
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J2430024071301 LW

2 of 3

MPS# **2782 5409 9184**

Mstr# 2782 5409 9173

0201

79 JOTA

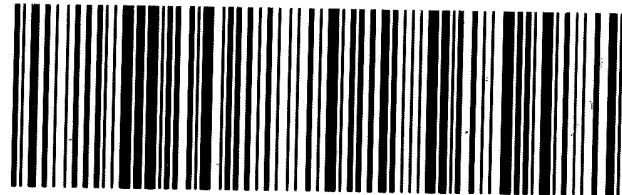
WED - 14 AUG 10:30A

PRIORITY OVERNIGHT

AHS

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Chain of Custody Record



Client Information (Sub Contract Lab)		Lab PM Mockler, Diana J	Carrier Tracking No(s) 500-191590-1
Shipping/Receiving		E-Mail Diana.Mockler@et.eurofins.com	Page Page 1 of 1
Company TestAmerica Laboratories, Inc.		State of Origin Illinois	Job # 500-254990-2
Address 13715 Rider Trail North,		Preservation Codes:	
City Earth City	Due Date Requested: 9/12/2024	Analysis Requested	
State, Zip MO, 63045	TAT Requested (days):	Total Number of containers	
Phone 314-298-8566(Tel) 314-298-8757(Fax)	PO #	904.0/PrecSep_0 Standard Target List	
Email	WO #	903.0/PrecSep_21 Standard Target List	
Project Name Waukegan CCR (RAD)	Project # 50011597	Perform MS/MSD (Yes or No)	
Site NRG Midwest Generation Waukegan	SSOW#	Field Filtered Sample (Yes or No)	
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)
MW-01 (500-254990-1)	8/12/24	12:08 Central	Water
MW-02 (500-254990-2)	8/12/24	13:17 Central	Water
MW-03 (500-254990-3)	8/12/24	15:01 Central	Water
MW-04 (500-254990-4)	8/12/24	16:00 Central	Water
Duplicate (500-254990-5)	8/12/24	Central	Water
Special Instructions/Note: Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume. Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume. Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume. Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume. Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume.			
Other:			

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

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

Relinquished by Suphanie Hernandez	Date/Time 8/13/24 1400	Company EPA
Relinquished by	Date/Time	Company
Relinquished by	Date/Time	Company
Custody Seals Intact: △ Yes △ No	Custody Seal No.:	

Received by: M. Pinette
 Date/Time: AUG 14 2024 0845
 Company: _____
 Received by: _____
 Date/Time: _____
 Company: _____
 Cooler Temperature(s) °C and Other Remarks:

Chain of Custody Record



Environment Testing



Client Information (Sub Contract Lab)		Lab PM Mockler, Diana J	Carrier Tracking No(s): 500-191643 1								
Client Contact Shipping/Receiving		E-Mail Diana Mockler@et.eurofins.com	Page Page 1 of 1								
Company TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois	Job # 500-254990-2								
Address 13715 Rider Trail North, City Earth City State, Zip MO, 63045		Due Date Requested: 9/3/2024	Preservation Codes:								
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		TAT Requested (days):									
Email		PO #	Analysis Requested								
Project #: 50011597		WO #									
Site NRG Midwest Generation Waukegan		Project Name Waukegan CCR (RAD)									
Site NRG Midwest Generation Waukegan		SSOW#									
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastewater, BT=BIOSUB, A=AIR)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903 /Pre/Secp_21 Standard Target List	904 /Pre/Secp_0 Standard Target List	Ra226Ra228_GFPc	Total Number of containers	Special Instructions/Note:
MW-09 (500-254990-6)	8/13/24	13:26 Central		Water	X	X	X	X		3	Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume.
MW-11 (500-254990-7)	8/13/24	10:32 Central		Water	X	X	X	X		3	Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume.
MW-14 (500-254990-8)	8/13/24	11:57 Central		Water	X	X	X	X		3	Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume.
MW-16 (500-254990-9)	8/13/24	15:13 Central		Water	X	X	X	X		3	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 analysis/test/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>Shirley Scott</i> Date: 8/14/24 1530 Company: _____											
Relinquished by: _____ Date/Time: _____ Company: _____											
Relinquished by: _____ Date/Time: _____ Company: _____											
Custody Seals Intact: _____ Custody Seal No.: _____											
Cooler Temperature(s) °C and Other Remarks: _____											
<p>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</p> <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months											
Special Instructions/QC Requirements:											

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-254990-2

Login Number: 254990

List Number: 1

Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	False	
Cooler Temperature is recorded.	True	5.9,1.7,7.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-254990-2

Login Number: 254990

List Number: 2

Creator: Pinette, Meadow L

List Source: Eurofins St. Louis

List Creation: 08/14/24 11:12 AM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	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 <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-254990-2

Login Number: 254990

List Number: 3

Creator: Pinette, Meadow L

List Source: Eurofins St. Louis

List Creation: 08/15/24 12:42 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	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 <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Lab Chronicle

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

Job ID: 500-254990-2

Client Sample ID: MW-01
Date Collected: 08/12/24 12:08
Date Received: 08/13/24 09:25

Lab Sample ID: 500-254990-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			675562	MLT	EET SL	08/19/24 08:10
Total/NA	Analysis	903.0		1	678846	CMM	EET SL	09/10/24 17:14
Total/NA	Prep	PrecSep_0			675563	MLT	EET SL	08/19/24 08:14
Total/NA	Analysis	904.0		1	678528	FLC	EET SL	09/06/24 12:09
Total/NA	Analysis	Ra226_Ra228		1	679690	FLC	EET SL	09/16/24 12:56

Client Sample ID: MW-02
Date Collected: 08/12/24 13:17
Date Received: 08/13/24 09:25

Lab Sample ID: 500-254990-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			675562	MLT	EET SL	08/19/24 08:10
Total/NA	Analysis	903.0		1	678846	CMM	EET SL	09/10/24 17:15
Total/NA	Prep	PrecSep_0			675563	MLT	EET SL	08/19/24 08:14
Total/NA	Analysis	904.0		1	678486	FLC	EET SL	09/06/24 12:11
Total/NA	Analysis	Ra226_Ra228		1	679690	FLC	EET SL	09/16/24 12:56

Client Sample ID: MW-03
Date Collected: 08/12/24 15:01
Date Received: 08/13/24 09:25

Lab Sample ID: 500-254990-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			675562	MLT	EET SL	08/19/24 08:10
Total/NA	Analysis	903.0		1	678846	CMM	EET SL	09/10/24 17:15
Total/NA	Prep	PrecSep_0			675563	MLT	EET SL	08/19/24 08:14
Total/NA	Analysis	904.0		1	678486	FLC	EET SL	09/06/24 12:12
Total/NA	Analysis	Ra226_Ra228		1	679690	FLC	EET SL	09/16/24 12:56

Client Sample ID: MW-04
Date Collected: 08/12/24 16:00
Date Received: 08/13/24 09:25

Lab Sample ID: 500-254990-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			675562	MLT	EET SL	08/19/24 08:10
Total/NA	Analysis	903.0		1	678848	CMM	EET SL	09/10/24 17:14
Total/NA	Prep	PrecSep_0			675563	MLT	EET SL	08/19/24 08:14
Total/NA	Analysis	904.0		1	678486	FLC	EET SL	09/06/24 12:12
Total/NA	Analysis	Ra226_Ra228		1	679690	FLC	EET SL	09/16/24 12:56

Lab Chronicle

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

Job ID: 500-254990-2

Client Sample ID: Duplicate
Date Collected: 08/12/24 00:00
Date Received: 08/13/24 09:25

Lab Sample ID: 500-254990-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			675562	MLT	EET SL	08/19/24 08:10
Total/NA	Analysis	903.0		1	678848	CMM	EET SL	09/10/24 17:14
Total/NA	Prep	PrecSep_0			675563	MLT	EET SL	08/19/24 08:14
Total/NA	Analysis	904.0		1	678486	FLC	EET SL	09/06/24 12:12
Total/NA	Analysis	Ra226_Ra228		1	679690	FLC	EET SL	09/16/24 12:59

Client Sample ID: MW-09
Date Collected: 08/13/24 13:26
Date Received: 08/14/24 09:55

Lab Sample ID: 500-254990-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			675562	MLT	EET SL	08/19/24 08:10
Total/NA	Analysis	903.0		1	678846	CMM	EET SL	09/10/24 20:17
Total/NA	Prep	PrecSep_0			675563	MLT	EET SL	08/19/24 08:14
Total/NA	Analysis	904.0		1	678486	FLC	EET SL	09/06/24 12:12
Total/NA	Analysis	Ra226_Ra228		1	679690	FLC	EET SL	09/16/24 12:59

Client Sample ID: MW-11
Date Collected: 08/13/24 10:32
Date Received: 08/14/24 09:55

Lab Sample ID: 500-254990-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			675562	MLT	EET SL	08/19/24 08:10
Total/NA	Analysis	903.0		1	678846	CMM	EET SL	09/10/24 20:17
Total/NA	Prep	PrecSep_0			675563	MLT	EET SL	08/19/24 08:14
Total/NA	Analysis	904.0		1	678486	FLC	EET SL	09/06/24 12:12
Total/NA	Analysis	Ra226_Ra228		1	679690	FLC	EET SL	09/16/24 12:59

Client Sample ID: MW-14
Date Collected: 08/13/24 11:57
Date Received: 08/14/24 09:55

Lab Sample ID: 500-254990-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			675562	MLT	EET SL	08/19/24 08:10
Total/NA	Analysis	903.0		1	678846	CMM	EET SL	09/10/24 20:17
Total/NA	Prep	PrecSep_0			675563	MLT	EET SL	08/19/24 08:14
Total/NA	Analysis	904.0		1	678486	FLC	EET SL	09/06/24 12:12
Total/NA	Analysis	Ra226_Ra228		1	679690	FLC	EET SL	09/16/24 12:59

Lab Chronicle

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

Job ID: 500-254990-2

Client Sample ID: MW-16

Lab Sample ID: 500-254990-9

Date Collected: 08/13/24 15:13

Matrix: Water

Date Received: 08/14/24 09:55

<u>Prep Type</u>	<u>Batch Type</u>	<u>Batch Method</u>	<u>Run</u>	<u>Dilution Factor</u>	<u>Batch Number</u>	<u>Analyst</u>	<u>Lab</u>	<u>Prepared or Analyzed</u>
Total/NA	Prep	PrecSep-21			675562	MLT	EET SL	08/19/24 08:10
Total/NA	Analysis	903.0		1	678846	CMM	EET SL	09/10/24 20:17
Total/NA	Prep	PrecSep_0			675563	MLT	EET SL	08/19/24 08:14
Total/NA	Analysis	904.0		1	678486	FLC	EET SL	09/06/24 12:13
Total/NA	Analysis	Ra226_Ra228		1	679690	FLC	EET SL	09/16/24 12:59

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: 500-254990-2

Laboratory: Eurofins St. Louis

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	200023	11-30-24

- 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: 500-254990-2

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)	
500-254990-1	MW-01	77.2	
500-254990-2	MW-02	84.3	
500-254990-3	MW-03	83.2	
500-254990-4	MW-04	73.6	
500-254990-5	Duplicate	75.6	
500-254990-6	MW-09	86.8	
500-254990-7	MW-11	78.4	
500-254990-8	MW-14	76.1	
500-254990-9	MW-16	88.1	
LCS 160-675562/2-A	Lab Control Sample	92.9	
MB 160-675562/1-A	Method Blank	100	
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)
500-254990-1	MW-01	77.2	79.3
500-254990-2	MW-02	84.3	81.1
500-254990-3	MW-03	83.2	80.7
500-254990-4	MW-04	73.6	66.9
500-254990-5	Duplicate	75.6	74.8
500-254990-6	MW-09	86.8	68.8
500-254990-7	MW-11	78.4	81.9
500-254990-8	MW-14	76.1	78.5
500-254990-9	MW-16	88.1	78.5
LCS 160-675563/2-A	Lab Control Sample	92.9	80.7
MB 160-675563/1-A	Method Blank	100	80.7
Tracer/Carrier Legend			
Ba = Ba Carrier			
Y = Y Carrier			

PROJECT NAME	12313.2 – NRG Waukegan Station		DATE	8/12/24
Sample Name	MW-01	Start Time	1136	
Condition of Well	good			
Water Level	21.53	Total Depth	-	
Well Diameter	PVC – 2 inch	Volume in Well	-	
Method of Purge	Low flow bladder	Purge Characteristics	clear	
Volume Removed	10.5 gts	W L at Sample Time	21.53	
Method of Sample	Low flow bladder	Sample Characteristics	clear	
Sample Analysis	CCR + permit	Sample Time	1208	
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)
1140	21.53	7.44	14.2	.738	6.30	96.6	6.95
1143	-	7.73	14.4	.705	4.54	84.9	8 6.92
1146	-	8.05	14.0	.687	3.48	63.1	6.86
1149	-	8.18	14.1	.675	2.95	46.9	6.73
1152	-	8.40	14.0	.664	2.53	20.7	7.07
1155	-	8.48	14.4	.657	2.38	9.6	6.80
1158	-	8.59	14.1	.653	2.19	-1.5	7.17
1201	-	8.61	14.1	.656	2.06	-11.2	6.71
1204	-	8.65	14.0	.657	1.91	-21.0	6.80

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates

KLS

PROJECT NAME	12313.2 - NRG Waukegan Station		DATE	8/12/24
Sample Name	Mw-02	Start Time	1247	
Condition of Well	good			
Water Level	21.33	Total Depth	-	
Well Diameter	PVC - 2 inch	Volume in Well	-	
Method of Purge	Low flow bladder	Purge Characteristics	Clear	
Volume Removed	10.5 gts	WL at Sample Time	21.33	
Method of Sample	Low flow bladder	Sample Characteristics	Clear	
Sample Analysis	CCR, permit	Sample Time	1317	
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)
1249	21.33	7.67	16.1	1.104	7.70	2.2	12.42
1252	-	8.26	14.3	.675	5.29	-5.8	19.43
1255	-	8.47	14.1	.674	4.11	-13.0	12.78
1258	-	8.37	14.1	.697	3.36	-20.5	9.47
1301	-	8.10	14.1	.729	2.95	-29.7	8.20
1304	-	7.82	14.2	.757	2.56	-42.3	7.66
1307	-	7.63	14.3	7.13	2.35	-47.2	7.13
1310	-	7.48	14.3	.823	2.17	-49.0	6.71
1313	-	7.37	14.4	.836	2.09	-48.5	6.51
1316	21.33	7.32	14.3	.842	2.00	-47.4	6.11

SAMPLING NOTES:

CCR duplicate

Sampler Name and Company:

KPRG and Associates

KLS

PROJECT NAME	12313.2 – NRG Waukegan Station		DATE	8/12/24
Sample Name	MW-03	Start Time	1432	
Condition of Well	good			
Water Level	21.55	Total Depth	-	
Well Diameter	PVC – 2 inch	Volume in Well	-	
Method of Purge	Low flow bladder	Purge Characteristics	Clear	
Volume Removed	8.5 gts	WL at Sample Time	21.49	
Method of Sample	Low flow bladder	Sample Characteristics	Clear	
Sample Analysis	CCR & permit	Sample Time	1501	
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)
1436	21.55	7.50	14.1	.922	7.62	101.4	6.78
1439	-	7.48	13.8	.958	4.99	95.8	6.89
1442	-	7.50	13.6	.942	3.82	70.0	6.64
1445	-	7.52	13.7	.931	3.47	53.9	6.66
1448	-	7.50	13.9	.930	2.96	29.7	6.34
1451	-	7.49	13.5	.929	2.63	12.4	6.47
1454	-	7.49	13.7	.930	2.44	2.4	6.42
1457	-	7.50	13.7	.929	2.24	-8.8	6.44
1500	21.49	7.51	13.5	.924	2.12	-15.2	6.37

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates

FLS

PROJECT NAME	12313.2 – NRG Waukegan Station		DATE	8/12/24
Sample Name	MW-04	Start Time	1542	
Condition of Well	good			
Water Level	21.12	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	21.15	
Method of Sample	Low flow bladder	Sample Characteristics	clear	
Sample Analysis	CCR & Permit	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)
1544	21.12	7.11	15.5	.689	7.77	114.4	8.13
1547	-	6.89	13.7	1.412	5.06	115.2	7.64
1550	-	6.90	13.6	1.419	4.45	111.1	6.38
1553	-	6.90	13.4	1.413	3.80	105.9	6.47
1556	21.15	6.89	13.7	1.394	3.40	98.3	6.33

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates

KCS

PROJECT NAME	12313.2 – NRG Waukegan Station		DATE	8/13/24
Sample Name	MW-09	Start Time	1252	
Condition of Well	good			
Water Level	10.46	Total Depth	-	
Well Diameter	PVC – 2 inch	Volume in Well	-	
Method of Purge	Low flow bladder	Purge Characteristics	cloudy, gray	
Volume Removed	7 gts	WL at Sample Time	10.52	
Method of Sample	Low flow bladder	Sample Characteristics	clear	
Sample Analysis	CCR, permit	Sample Time	1326	
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)
1255	10.46	7.28	14.2	.986	5.36	57.5	46.69
1300	-	7.03	14.2	1.000	3.55	-19.2	18.72
1305	-	6.99	15.2	1.013	2.74	-47.4	15.57
1310	-	7.04	15.4	1.018	2.29	-61.7	13.48
1315	-	7.06	15.1	1.036	1.99	-69.9	12.05
1320	-	7.07	15.1	1.039	1.75	-75.9	11.08
1325	10.52	7.08	14.9	1.052	1.63	-79.5	10.56

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates

KLS

PROJECT NAME	12313.2 – NRG Waukegan Station		DATE	8/13/24
Sample Name	Mw-11	Start Time	1003	
Condition of Well	good			
Water Level	6.08	Total Depth	-	
Well Diameter	PVC – 2 inch	Volume in Well	-	
Method of Purge	Low flow bladder	Purge Characteristics	Clear	
Volume Removed	4.5 gts	WL at Sample Time	6.08	
Method of Sample	Low flow bladder	Sample Characteristics	Clear	
Sample Analysis	CCR, permit (ELUC)	Sample Time	1032	
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)
1006	6.08	7.01 7.01	18.9	1.298	8.00	-18.1	25.03
1011	-	6.92	16.0	1.336	4.19	-105.8	6.97
1016	-	6.93	16.1	1.329	2.93	-116.4	5.96
1021	-	6.93	16.3	1.327	2.48	-119.5	6.09
1026	6.08	6.93	16.0	1.330	2.09	-122.2	6.04

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates

KLS

PROJECT NAME	12313.2 – NRG Waukegan Station		DATE	8/13/2024
Sample Name	MW-14	Start Time	1129	
Condition of Well	good			
Water Level	5.45	Total Depth	-	
Well Diameter	PVC – 2 inch	Volume in Well	-	
Method of Purge	Low flow bladder	Purge Characteristics	cloudy, orange	
Volume Removed	3.5 gts	WL at Sample Time	5.47	
Method of Sample	Low flow bladder	Sample Characteristics	cloudy, orange	
Sample Analysis	CCR, Permit (ELUC)	Sample Time	1157	
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)
1131	5.45	7.40	19.1	.717	7.92	-8.3	1059.61
1136	-	7.07	16.2	.834	4.17	-113.5	1240.71
1141	-	7.08	16.3	.834	2.87	-127.0	379.21
1146	-	7.07	16.3	.839	2.38	-130.0	90.35
1151	5.47	7.06	16.3	.835	1.97	-131.2	59.22

SAMPLING NOTES:

- samples cleared up

Sampler Name and Company:

KPRG and Associates

KLS

PROJECT NAME	12313.2 - NRG Waukegan Station		DATE	8/13/24
Sample Name	MW-16	Start Time	1442	
Condition of Well	good			
Water Level	25.77	Total Depth	-	
Well Diameter	PVC - 2 inch	Volume in Well	-	
Method of Purge	Low flow bladder	Purge Characteristics	clear	
Volume Removed	4 gts	WL at Sample Time	25.81	
Method of Sample	Low flow bladder	Sample Characteristics	clear	
Sample Analysis	CCR	Sample Time	1513	
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)
1447	25.77	6.63	16.3	2.114	6.86	119.3	24.41
1452	-	6.57	16.1	2.238	5.37	127.1	8.70
1457	-	6.57	16.0	2.238	5.15	128.8	8.64
1502	-	6.57	16.1	2.229	4.86	130.9	7.62
1507	25.81	6.58	16.1	2.206	4.63	132.4	7.08

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates

KCS