DATA SUMMARY POSTING

Station: Midwest Generation Will County Generating Station

Regulated Unit(s): Pond 1N (IEPA ID No. W1978100011-01)
Pond 1S (IEPA ID No. W1978100011-02)

In accordance with the new Ill. Adm. Code Title 35, Part 845: Standards for the Disposal of Coal Combustion Residuals in Surface Impoundments (State CCR Rule) groundwater monitoring was completed during the 2nd quarter 2023 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. In addition, Table 2 provides a summary of turbidity data which was collected as part of State CCR Rule requirements.

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 for Ponds 1N and 1S dated March 31, 2022. 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 1A. Groundwater Analytical Results-Midwest Generation, LLC, Will County Station, Romeoville, IL. Pond 1N.

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-01 up-gradient	5/3/2021	2.6	170	F1 21	0.62	6.83	390	1200	< 0.003	< 0.001	0.095	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.034	< 0.0002	0.012	0.623	0.0093	< 0.002
	5/24/2021	2.5	200	18	0.63	6.86	350	1100	< 0.003	< 0.001	0.093	^1+ < 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.036	< 0.0002	F1 < 0.012	0.953	0.012	< 0.002
	6/7/2021	3.0	200	18	0.63	6.52	380	510	< 0.003	< 0.001	0.096	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.037	< 0.0002	0.013	< 0.372	0.01	< 0.002
	6/25/2021	B 2.6	200	20	0.59	6.64	410	1200	^+ < 0.003	< 0.001	0.097	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.037	< 0.0002	0.014	0.672	0.0042	< 0.002
	7/12/2021	2.4	190	16	0.60	6.55	320	1000	< 0.003	0.0012	0.100	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.045	< 0.0002	0.013	0.457	0.012	< 0.002
	8/2/2021	2.4	200	18	0.65	6.57	410	1300	< 0.003	0.001	0.100	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.044	< 0.0002	0.014	0.478	0.0095	< 0.002
	8/23/2021	2.4	200	18	0.61	6.99	400	1100	< 0.003	< 0.001	0.100	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.044	< 0.0002	0.014	0.697	0.0058	< 0.002
	11/19/2021	2.0	170	29	0.56	6.62	260	970	< 0.003	< 0.001	0.090	^1+ < 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.038	< 0.0002	0.0098	1.16	0.017	< 0.002
	2/21/2022	2.0	190	26	0.55	6.63	370	1200	< 0.003	< 0.001	0.086	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.032	< 0.0002	0.011	0.773	0.0079	< 0.002
	6/15/2022	2.6	180	33	0.61	6.43	350	1100	< 0.003	< 0.001	0.09	< 0.001	0.00054	< 0.005	< 0.001	< 0.0005	0.033	< 0.0002	0.015	0.945	0.0087	< 0.002
	8/24/2022	2.7	180	24	0.61	6.51	370	1400	< 0.003	< 0.001	0.093	< 0.001	^1+ 0.00092	< 0.005	0.0016	0.00078	0.038	< 0.0002	0.015	0.581	0.0047	< 0.002
	11/15/2022	2.9	190	22	1	6.59	360	1100	< 0.003	0.0011	0.097	< ^+ 0.001	0.00052	< 0.005	0.001	0.00057	0.039	< 0.0002	0.014	< 0.63	0.0085	< 0.002
	2/22/2023	2	170	29	0.49	6.93	360	1000	< 0.003	< 0.001	0.082	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.031	< 0.0002	0.013	< 0.544	0.0092	< 0.002
	4/27/2023	2.4	120	77	0.69	6.79	400	1100	< 0.0030	< 0.0010	0.065	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.028	< 0.00020	0.041	0.824	< 0.0025	< 0.0020
MW-02 up-gradient	5/3/2021	5.3	87	28	0.41	7.76	500	1100	< 0.003	0.009	0.058	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.046	< 0.0002	0.072	1.3	< 0.0025	< 0.002
	5/24/2021	5.2	88	24	0.41	7.77	550	1100	< 0.003	0.0099	0.059	^1+ < 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.047	< 0.0002	0.07	1.19	< 0.0025	< 0.002
	6/7/2021	6.5	100	25	0.4	7.60	540	1100	< 0.003	0.011	0.057	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.045	< 0.0002	0.081	0.54	< 0.0025	< 0.002
	6/28/2021	B 5.3	95	23	0.36	7.93	500	1200	^+ < 0.003	0.012	0.059	< 0.001	< 0.0005	0.0057	< 0.001	< 0.0005	0.046	< 0.0002	0.075	0.8	< 0.0025	< 0.002
	7/12/2021	5.2	97	21	0.37	7.53	480	970	< 0.003	0.012	0.067	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.051	< 0.0002	0.071	1.07	< 0.0025	< 0.002
	8/2/2021	4.8	92	24	0.37	7.54	520	1200	< 0.003	0.011	0.06	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.048	< 0.0002	0.073	0.798	< 0.0025	< 0.002
	8/23/2021	5.0	92	26	0.38	8.02	530	830	< 0.003	0.011	0.06	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.048	< 0.0002	0.075	0.986	< 0.0025	< 0.002
	11/19/2021	5.2	86	27	0.38	7.72	520	1100	< 0.003	0.014	0.057	^1+ < 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.041	< 0.0002	0.068	1.43	< 0.0025	< 0.002
	2/21/2022	4.9	92	32	0.43	7.65	550	1100	< 0.003	0.01	0.06	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.044	< 0.0002	0.083	< 0.848	< 0.0025	< 0.002
	6/15/2022	5.3	91	30	0.39	7.32	460	1100	< 0.003	0.01	0.058	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.044	< 0.0002	0.073	1.17	< 0.0025	< 0.002
	8/24/2022	5.6	81	28	0.38	7.73	480	1100	< 0.003	0.015	0.059	< 0.001	< ^1+ 0.0005	< 0.005	< 0.001	< 0.0005	0.043	< 0.0002	0.07	0.984	< 0.0025	< 0.002
	11/15/2022	6.5	99	27	0.64	7.64	530	1000	< 0.003	0.017	0.069	< ^+ 0.001	< 0.0005	< 0.005	< 0.001	0.00052	0.047	< 0.0002	0.076	2.13	< 0.0025	< 0.002
	2/22/2023	4.6	89	29	0.38	7.86	460	980	< 0.003	0.0095	0.06	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.042	< 0.0002	0.075	0.974	< 0.0025	< 0.002
	4/27/2023	4.6	83	29	0.37	7.60	430	1000	< 0.0030	0.0088	0.053	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.043	< 0.00020	0.072	0.961	< 0.0025	< 0.0020
MW-07 down gradient	5/4/2021	4.0	130	110	0.69	8.29	490	1000	< 0.003	0.0022	0.063	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.026	< 0.0002	0.051	0.952	< 0.0025	< 0.002
	5/24/2021	4.2	150	140	0.53	8.38	590	1400	< 0.003	0.0022	0.064	^1+ < 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.028	< 0.0002	0.049	1.28	< 0.0025	< 0.0025
	6/7/2021	4.0	110	120	0.69	7.62	480	1000	< 0.003	0.0026	0.064	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.022	< 0.0002	0.07	1.25	< 0.0025	< 0.002
	6/25/2021	B 6.0	290	250	0.42	6.35	850	2300	^+ < 0.003	0.0024	0.12	< 0.001	< 0.0005	0.034	0.0012	< 0.0005	0.032	< 0.0002	0.051	0.694	0.0039	< 0.002
	7/12/2021	4.6	230	170	0.65	6.87	510	1400	< 0.003	0.0044	0.063	^+ < 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.039	< 0.0002	0.05	1.4	0.0031	< 0.002
	8/2/2021	3.1	120	130	0.69	7.97	450	980	< 0.003	0.0036	0.071	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.024	< 0.0002	0.068	1.07	< 0.0025	< 0.002
	8/25/2021	2.8	80	130	0.73	8.63	420	800	< 0.003	0.0027	0.059	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.019	< 0.0002	0.076	1.21	< 0.0025	< 0.002
	11/19/2021	3.9	170	190	0.48	6.62	680	1800	< 0.003	0.0065	0.048	^+ < 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.023	< 0.0002	0.033	2.4	< 0.0025	< 0.002
	2/22/2022	2.6	160	130	0.42	6.50	290	1200	< 0.003	0.0012	0.059	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.022	< 0.0002	0.016	< 0.529	< 0.0025	< 0.002
	6/15/2022	4.4	150	120	0.68	7.24	520	1100	< 0.003	0.0045	0.075	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.023	< 0.0002	0.056	1.3	< 0.0025	< 0.002
	8/25/2022	2.9	65	130	0.75	7.90	450	1100	< 0.003	0.0035	0.052	< 0.001	< ^1+ 0.0005	< 0.005	< 0.001	< 0.0005	0.016	< 0.0002	0.073	0.944	< 0.0025	< 0.002
	11/15/2022	3	59	140	1	8.01	440	1000	< 0.003	0.0032	0.044	< ^+ 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.017	< 0.0002	0.087	1.29	< 0.0025	< 0.002
	2/22/2023	3	220	120	0.41	6.68	470	1500	< 0.003	0.0016	0.084	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.027	< 0.0002	0.022	0.714	< 0.0025	< 0.002
	4/27/2023	3.5	190	110	0.55	6.51	610	1600	< 0.0030	0.0021	0.067	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.026	< 0.00020	0.043	< 0.566	< 0.0025	< 0.0020
MW-14 down gradient	5/4/2021	4.8	130	110	0.44	8.03	490	1100	< 0.003	0.0035	0.097	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.046	< 0.0002	0.053	< 0.453	< 0.0025	< 0.002
	5/25/2021	5.1	140	110	0.42	7.94	550	1300	< 0.003	0.0038	0.082	^1+ < 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.051	< 0.0002	0.052	0.736	< 0.0025	< 0.002
	6/7/2021	5.7	150	110	0.47	7.53	530	1200	< 0.003	0.0047	0.13	< 0.001	< 0.0005	< 0.005	< 0.001	0.00062	0.05	< 0.0002	0.054	< 0.368	< 0.0025	< 0.002
	6/28/2021	B 3.1	87	120	0.74	8.17	400	990	^+ < 0.003	0.0028	0.086	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.021	< 0.0002	0.081	1.07	< 0.0025	< 0.002
	7/12/2021	5.2	130	92	0.46	7.67	470	1100	< 0.003	0.0061	0.094	^+ < 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.058	< 0.0002	0.049	1.07	< 0.0025	< 0.002
	8/2/2021	4.7	120	88	0.47	7.75	470	1100	< 0.003	0.0064	0.24	< 0.001	< 0.0005	< 0.005	< 0.001	0.0016	0.052	< 0.0002	0.051	1.25	< 0.0025	< 0.002
	8/25/2021	4.1	96	92	0.58	8.21	440	930	< 0.003	0.0047	0.14	< 0.001	< 0.0005	< 0.005	< 0.001	0.00054	0.037	< 0.0002	0.064	1.43	< 0.0025	< 0.002
	11/23/2021	3.0	81	120	0.6	7.90	460	1000	< 0.003	0.0023	0.051	^1+ < 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.02	< 0.0002	0.049	1.21	< 0.0025	< 0.002
	2/23/2022	3.8	110	110	0.58	7.86	440	1100	< 0.003	0.0028	0.12	< ^1+ 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.024	< 0.0002	0.059	0.874	< 0.0025	< 0.002
	6/14/2022	5.3	160	^+ 110	0.47	7.09	490	1200	< 0.003	0.0021	0.083	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.048	< 0.0002	0.05	1.13	< 0.0025	< 0.002
	8/23/2022	4.1	97	97	0.57	7.72	410	1200	< 0.003	0.0022	0.092	< 0.001	< ^1+ 0.0005	< 0.005	< 0.001	< 0.0005	0.03	< 0.0002	0.067	1.45	< 0.0025	< 0.002
	11/17/2022	3.1	83	120	0.85	7.94	570	970	< 0.003	0.0024	0.11	< ^+ 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.021	< 0.0002	0.073	0.817	< 0.0025	< 0.002
	2/21/2023	2.6	88	120	0.61	8.02	390	970	< 0.003	0.0028	0.15	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.021	< 0.0002	0.071	0.961	< 0.0025	< 0.002
	4/25/2023	3.2	100	120	0.56	7.71	480	1000	< 0.0030	0.0028	0.082	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.024	< 0.00020	0.064	< 0.536	< 0.0025	< 0.0020
MW-15 down gradient	5/4/2021	3.1	180	140	0.34	7.29	510	1400	< 0.003	0.0015	0.18	< 0.001	< 0.0005	< 0.005	0.0012	< 0.0005	0.025	< 0.0002	0.03	1.16	< 0.0025	< 0.002
	5/25/2021	3.2	220	120	0.37	7.27	600	1400	< 0.003	0.0018	0.14	^1+ < 0.001	< 0.0005	< 0.005	0.0016	< 0.0005	0.025	< 0.0002	0.026	< 0.564	< 0.0025	< 0.002
	6/7/2021	3.8	170	110	0.53	7.12	570	1200	< 0.003	0.0021	0.10	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.019	< 0.0002	0.033	0.491	< 0.0025	< 0.002
	6/25/2021	B 3.4	170	110	0.51	7.09	550	1300	^+ < 0.003	0.003	0.10	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.021	< 0.0002	0.036	0.533	< 0.0025	< 0.002
	7/12/2021	3.3	180	110	0.47	7.01	510	1300	< 0.003	0.0041	0.12	^+ < 0.001	< 0.0005	< 0.005	0.0013	< 0.0005	0.025	< 0.0002	0.028	0.931	< 0.0025	< 0.002
	8/2/2021	3.1	160	98	0.56	7.23	550	1200	< 0.003	0.0039	0.097	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.018	< 0.0002	0.036	1.3	< 0.0025	< 0.002
	8/25/2021	3.2	140	130	0.6	7.73	510	820	< 0.003	0.0028	0.097	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.019	< 0.0002	0.036	1.46	< 0.0025	< 0.002
	11/19/2021	2.9	140	120	0.46	6.91	570	1300	< 0.003	0.0036	0.084	^+ < 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.015	< 0.0002	0.021	1.57	< 0.0025	< 0.002
	2/22/2022	3.3	230	100	0.38	6.73	620	1600	< 0.003	0.003	0.12	< ^1+ 0.001	< 0.0005	< 0.005	0.0012	< 0.0005	0.021	< 0.0002	0.02	1.46	< 0.0025	< 0.002
	6/14/2022	3.7	230	^+ 130	0.45	6.60	750	1500	< 0.003	0.0027	0.10	< 0.001	< 0.0005	< 0.005	0.0012	< 0.0005	0.021	< 0.0002	0.027	0.539	< 0.0025	< 0.002
	8/23/2022	3.5	160	110	0.58	6.90	580	1500	< 0.003	0.0047	0.088	< 0.001	< ^1+ 0.0005	< 0.005	< 0.001	< 0.0005	0.018	< 0.0002	0.03	0.714	< 0.0025	< 0.002
	11/17/2022	4.1	170	120	0.57	7.16	480	1200	< 0.003	0.0038	0.098	< ^+ 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.02	< 0.0002	0.03	0.857	< 0.0025	< 0.002
	2/21/2023	3	290	120	0.28	6.61	690	1700	< 0.003	0.0031	0.15	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.026	< 0.0002	0.015	0.957	< 0.0025	< 0.002
	4/25/2023	3.2	250	120	0.30	6.50	730	1700	< 0.0030	0.0018	0.11	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.028	< 0.00020	0.019	< 0.504	< 0.0025	< 0.0020

Notes: All units are in mg/l except pH is in standard units and radium is in pCi/L
B - Compound was found in the blank and sample.
R - Resample

F1 - MS and/or MSD Recovery outside of limits.
F2 - MS/MSD RPD exceeds control limits
^1+ or ^+ - Initial or Continuing Calibration Verification limits is outside acceptable limits, high biased.

Table 1B. Groundwater Analytical Results-Midwest Generation, LLC, Will County Station, Romeoville, IL. Pond 1S.

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-03 up-gradient	5/3/2021	3.3	140	18	0.31	6.90	240	890	< 0.003	0.0011	0.11	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.04	< 0.0002	0.017	0.993	< 0.0025	< 0.002
	5/24/021	3.2	120	19	0.34	6.91	270	900	< 0.003	0.001	0.001	^1+ < 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.038	< 0.0002	0.018	0.922	0.0057	< 0.002
	6/8/2021	3.7	140	21	0.32	6.75	290	940	< 0.003	0.0014	0.10	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.041	< 0.0002	0.017	0.857	< 0.0025	< 0.002
	6/28/2021	B 3.6	120	23	0.32	7.17	290	930	^+ < 0.003	0.0023	0.091	< 0.001	< 0.0005	< 0.005	0.001	< 0.0005	0.044	< 0.0002	0.022	1.03	< 0.0025	< 0.002
	7/12/2021	3.8	120	27	0.33	6.88	270	870	< 0.003	0.0033	0.10	< 0.001	0.00053	< 0.005	< 0.001	< 0.0005	0.048	< 0.0002	0.028	1.97	< 0.0025	< 0.002
	8/2/2021	6.2	120	31	0.3	6.86	280	920	< 0.003	0.0053	0.096	< 0.001	< 0.0005	< 0.005	0.001	< 0.0005	0.043	< 0.0002	0.021	1.16	< 0.0025	< 0.002
	8/24/2021	3.3	120	F1 F2 50	0.35	7.28	300	890	< 0.003	0.0021	0.091	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.042	< 0.0002	0.022	0.763	< 0.0025	< 0.002
	11/19/2021	3.7	160	27	0.32	6.67	330	970	< 0.003	0.0016	0.12	^1+ < 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.039	< 0.0002	0.025	2.47	0.0082	< 0.002
	2/24/2022	2.6	220	18	0.3	6.53	360	1200	< 0.003	0.0015	0.12	< ^1+ 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.032	< 0.0002	0.014	1.11	0.046	< 0.002
	6/16/2022	4.0	140	18	0.31	6.62	300	910	< 0.003	0.0014	0.10	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.045	< 0.0002	0.022	1.38	< 0.0025	< 0.002
	8/24/2022	3.4	140	35	0.34	6.73	360	1200	< 0.003	< 0.001	0.096	< 0.001	< ^1+ 0.0005	< 0.005	0.001	< 0.0005	0.035	< 0.0002	0.018	1.24	< 0.0025	< 0.002
	11/15/2022	3.5	140	43	F1 0.64	6.79	360	990	< 0.003	0.0039	0.095	< ^+ 0.001	< 0.0005	< 0.005	0.0012	0.00063	0.037	< 0.0002	0.021	1.78	< 0.0025	< 0.002
	2/22/2023	2.4	180	14	0.29	6.83	330	1000	< 0.003	< 0.001	0.099	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.03	< 0.0002	0.013	0.76	0.03	< 0.002
	4/27/2023	3.2	150	16	0.28	6.54	320	1000	< 0.0030	0.0013	0.090	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.040	< 0.00020	0.021	1.12	0.0057	< 0.0020
MW-04 up-gradient	5/3/2021	5.1	310	28	0.36	6.76	910	2000	< 0.003	0.003	0.046	< 0.001	< 0.0005	< 0.005	0.0019	< 0.0005	0.026	< 0.0002	0.026	1.16	< 0.0025	< 0.002
	5/24/2021	5.5	340	24	0.38	6.90	950	2000	< 0.003	0.0039	0.047	^1+ < 0.001	< 0.0005	< 0.005	0.0016	< 0.0005	0.027	< 0.0002	0.028	1.72	0.0051	< 0.002
	6/8/2021	5.7	310	24	0.37	6.58	910	2000	< 0.003	0.0026	0.043	< 0.001	< 0.0005	< 0.005	0.0016	< 0.0005	0.027	< 0.0002	0.028	< 0.459	0.0076	< 0.002
	6/28/2021	B 5.6	330	20	0.35	6.95	930	2100	^+ < 0.003	0.011	0.047	< 0.001	< 0.0005	< 0.005	0.0016	< 0.0005	0.025	< 0.0002	0.027	1.12	0.019	< 0.002
	7/12/2021	5.9	320	16	0.38	6.70	970	2100	< 0.003	0.01	0.049	< 0.001	< 0.0005	< 0.005	0.0016	< 0.0005	0.03	< 0.0002	0.033	1.68	0.0056	< 0.002
	8/2/2021	5.3	310	21	0.38	6.71	1000	2200	< 0.003	0.0039	0.046	< 0.001	< 0.0005	< 0.005	0.0018	< 0.0005	0.027	< 0.0002	0.032	1.18	< 0.0025	< 0.002
	8/24/2021	6.2	320	90	0.40	7.09	1100	1700	< 0.003	0.0075	0.046	< 0.001	< 0.0005	< 0.005	0.002	< 0.0005	0.028	< 0.0002	0.035	< 0.642	< 0.0025	< 0.002
	11/19/2021	6.1	300	23	0.36	6.69	840	1900	< 0.003	0.0063	0.044	^1+ < 0.001	< 0.0005	< 0.005	0.0022	< 0.0005	0.022	< 0.0002	0.023	1.17	< 0.0025	< 0.002
	2/24/2022	4.7	350	16	0.37	6.50	950	2100	< 0.003	0.02	0.039	< ^1+ 0.001	< 0.0005	< 0.005	0.0017	< 0.0005	0.02	< 0.0002	0.028	< 0.424	0.09	< 0.002
	6/16/2022	5.5	310	22	0.37	6.55	990	2200	< 0.003	0.003	0.045	< 0.001	< 0.0005	< 0.005	0.0021	< 0.0005	0.023	< 0.0002	0.026	1.39	0.0044	< 0.002
	8/24/2022	5.8	280	18	0.40	6.57	810	2000	< 0.003	0.0053	0.044	< 0.001	< ^1+ 0.0005	< 0.005	0.003	< 0.0005	0.019	< 0.0002	0.021	1.41	0.003	< 0.002
	11/15/2022	5.6	290	19	0.64	6.64	770	1700	< 0.003	0.011	0.047	< ^+ 0.001	< 0.0005	< 0.005	0.0032	< 0.0005	0.02	< 0.0002	0.021	4.15	0.0061	< 0.002
	2/22/2023	3.7	390	36	0.38	6.77	1200	2500	< 0.003	0.0044	0.035	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.02	< 0.0002	0.032	0.795	0.067	< 0.002
	4/27/2023	4.3	310	25	0.33	6.51	870	2000	< 0.0030	0.0027	0.039	< 0.0010	< 0.00050	< 0.0050	0.0015	< 0.00050	0.021	< 0.00020	0.023	1.19	0.0091	< 0.0020
MW-08 down gradient	5/4/2021	2.6	190	290	0.51	6.95	490	1900	< 0.003	0.0073	0.081	< 0.001	< 0.0005	< 0.005	0.0015	< 0.0005	0.015	< 0.0002	0.047	0.873	< 0.0025	< 0.002
	5/25/2021	2.8	170	290	0.51	6.90	540	1600	< 0.003	0.0074	0.083	^1+ < 0.001	< 0.0005	< 0.005	0.001	< 0.0005	0.016	< 0.0002	0.044	1.06	< 0.0025	< 0.002
	6/7/2021	4.2	170	120	0.59	7.24	650	1400	< 0.003	0.01	0.067	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.021	< 0.0002	0.091	0.768	< 0.0025	< 0.002
	6/28/2021	B 3.0	160	190	0.53	7.17	480	1400	^+ < 0.003	0.014	0.083	< 0.001	< 0.0005	< 0.005	< 0.001	0.0011	0.019	< 0.0002	0.066	0.621	< 0.0025	< 0.002
	7/12/2021	7.0	200	260	0.5	6.64	530	1600	< 0.003	0.013	0.17	^+ < 0.001	< 0.0005	< 0.005	0.0012	< 0.0005	0.022	< 0.0002	0.07	0.841	< 0.0025	< 0.002
	8/2/2021	3.1	160	180	0.53	6.87	530	1400	< 0.003	0.012	0.074	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.021	< 0.0002	0.076	0.533	< 0.0025	< 0.002
	8/25/2021	3.0	130	150	0.61	7.45	500	1100	< 0.003	0.011	0.068	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.021	< 0.0002	0.084	0.888	< 0.0025	< 0.002
	11/19/2021	3.3	200	310	0.5	6.66	630	1900	< 0.003	0.0094	0.065	^1+ < 0.001	< 0.0005	< 0.005	0.0014	< 0.0005	0.013	< 0.0002	0.043	1.69	< 0.0025	< 0.002
	2/24/2022	1.6	170	210	0.52	6.84	270	1200	< 0.003	0.006	0.061	< ^1+ 0.001	< 0.0005	< 0.005	< 0.001	0.00068	0.0088	< 0.0002	0.026	< 0.645	0.048	< 0.002
	6/15/2022	2.9	150	170	0.59	6.66	480	1300	< 0.003	0.0048	0.075	< 0.001	< 0.0005	< 0.005	0.0016	< 0.0005	0.014	< 0.0002	0.064	1.39	< 0.0025	< 0.002
	8/25/2022	3.0	120	140	0.75	6.95	480	1200	< 0.003	0.0062	0.059	< 0.001	^1+ 0.0012	< 0.005	< 0.001	< 0.0005	0.019	< 0.0002	0.085	1.23	< 0.0025	< 0.002
	11/17/2022	3.5	110	120	0.63	7.19	500	1100	< 0.003	0.014	0.061	< ^+ 0.001	< 0.0005	< 0.005	0.0016	< 0.0005	0.021	< 0.0002	0.11	1.2	< 0.0025	< 0.002
	2/23/2023	1.9	150	200	0.6	7.03	320	1300	< 0.003	0.003	0.04	< ^1+ ^+ 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.028	0.949	0.033	< 0.002
	4/27/2023	2.7	180	150	0.54	6.82	480	1600	< 0.0030	0.0025	0.052	< 0.0010	< 0.00050	< 0.0050	0.0014	< 0.00050	< 0.010	< 0.00020	0.030	< 0.654	< 0.0025	< 0.0020
MW-09 down gradient	11/11/2015	1.9	56	190	0.55	9.12	460	750	< 0.003	0.0047	0.027	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.14	-0.2208	< 0.0025	< 0.002
	2/17/2016	1.8	47	160	0.55	9.10	250	600	< 0.003	0.0051	0.027	^ < 0.001	< 0.0005	< 0.005	< 0.001	0.00065	< 0.01	< 0.0002	0.089	< 0.373	< 0.0025	< 0.002
	5/24/2016	1.6	48	180	0.51	8.79	240	640	< 0.003	0.0043	0.027	^ < 0.001	< 0.0005	< 0.005	< 0.001	0.00071	< 0.01	< 0.0002	0.079	0.508	< 0.0025	< 0.002
	8/9/2016	2.2	53	140	0.48	8.35	280	750	< 0.003	0.0052	0.031	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.14	0.639	< 0.0025	< 0.002
	10/26/2016	2.2	33	130	0.81	9.16	230	660	< 0.003	0.0069	0.019	< 0.001	< 0.0005	< 0.005	< 0.0010	< 0.0005	< 0.01	< 0.0002	0.11	0.608	< 0.0025	< 0.002
	1/31/2017	2.0	61	250	0.57	8.59	180	710	< 0.003	0.0063	0.038	* < 0.001	< 0.0005	< 0.005	< 0.0010	0.0014	< 0.01	^ < 0.0002	0.09	< 0.45	< 0.0025	< 0.002
	5/9/2017	1.8	66	340	0.38	8.58	250	900	< 0.003	0.0052	0.038	< 0.001	< 0.0005	< 0.005	< 0.0010	0.00054	< 0.01	< 0.0002	0.093	< 0.361	< 0.0025	< 0.002
	6/27/2017	1.9	64	330	0.51	7.76	240	940	< 0.003	0.0046	0.039	< 0.001	< 0.0005	< 0.005	< 0.0010	< 0.0005	< 0.01	< 0.0002	0.091	0.638	< 0.0025	< 0.002
	9/6/2017	1.8	59	310	0.51	8.98	240	890	< 0.003	0.0047	0.038	< 0.001	< 0.0005	< 0.005	< 0.0010	< 0.0005	< 0.01	< 0.0002	0.1	0.454	< 0.0025	< 0.002
	11/14/2017	2.6	160	270	0.51	8.10	290	910	< 0.003	0.0017	0.11	< 0.001	< 0.0005	< 0.005	< 0.0010	< 0.0005	0.018	< 0.0002	0.026	< 0.372	0.0061	< 0.002
	5/1/2018	1.7	49	200	0.52	7.81	430	820	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	7/25/2018 R	NA	NA	NA	NA	NA	320	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10/2/2018	2.1	49	170	0.55	8.09	270	820	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/29/2019	1.5	48	280	0.29	8.90	150	750	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/6/2019	2.0	38	140	0.46	8.65	160	630	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/26/2020	1.3	55	320	0.32	8.66	140	720	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/3/2020	2.0	43	240	0.55	8.64	180	750	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/26/2021	1.6	67	360	0.39	8.74	180	900	< 0.003	0.0044	0.054	^1+ < 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.054	0.741	< 0.0025	< 0.002
	8/25/2021	1.9	60	360	0.43	9.06	210	800	< 0.003	0.0065	0.049	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.067	< 0.444	< 0.0025	< 0.002
	11/23/2021	1.1	30	290	0.47	8.73	210	900	< 0.003	0.0046	0.024	^1+ < 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.037	0.789	< 0.0025	< 0.002
	2/22/2022	1.5	49	250	0.40	8.65	160	900	< 0.003	0.007	0.037	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.0065	< 0.0002	0.051	< 0.409	< 0.0025	< 0.002
	6/15/2022	1.9	43	230	0.48	8.35	180	730	< 0.003	0.0071	0.036	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.057	< 0.39	< 0.0025	< 0.002
	8/25/2022	2.1	38	210	0.58	8.68	190	770	< 0.003	0.0089	0.034	< 0.001	< ^1+ 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.065	0.661	< 0.0025	< 0.002
	11/16/2022	2.4	37	200	0.76	8.82	180	750	< 0.003	0.0093	0.037	< ^+ 0.001	< 0.0005	< 0.005	< 0.001	0.00073	< 0.01	< 0.0002	0.068	0.648	< 0.0025	< 0.002
	2/23/2023	1.7	36	190	0.53	9.04	210	720	< 0.003	0.0079	0.029	< ^1+ ^+ 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.063	< 0.672	< 0.0025	< 0.002
	4/26/2023	1.7	38	190	0.48	8.82	200	760	< 0.0030	0.0075	0.029	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.062	< 0.554	< 0.0025	< 0.0020
MW-13 down gradient	5/4/2021	1.7	150	210	0.29	7.54	280	1100	< 0.003	0.0011	0.14	< 0.001	< 0.0005	< 0.005	< 0.001	0.00054	0.013	< 0.0002	0.025	1.02	0.0032	< 0.002
	5/26/2021	1.8	150	220	0.32	7.47	280	1100	< 0.003	0.001	0.13	^1+ < 0.001	< 0.0005	< 0.005	< 0.001	0.00052	< 0.01	< 0.0002	0.016	0.724	0.0025	< 0.002
	6/7/2021	2.2	180	250	0.33	7.19	270	1200	< 0.003	0.0021	0.13	< 0.001	< 0.0005	< 0.005	0.0013	0.0014	< 0.01	< 0.0002	0.018	1.07	0.0027	< 0.002
	6/28/2021	0.68	110	160	0.37	7.56	120	840	^+ < 0.003	< 0.001	0.082	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.016	< 0.0002	0.018	0.461	0.0072	< 0.002
	7/12/2021	1.6	150	240	0.33	7.17	220	1200	< 0.003	0.0015	0.13	^+ < 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.017	< 0.0002	0.014	1.08	0.009	< 0.002
	8/2/2021	1.6	170	240	0.32	7.10	240	1200	< 0.003	0.0019	0.13	< 0.001	< 0.0005	< 0.005	< 0.001	0.00055	< 0.01	< 0.0002	0.013	0.523	0.0061	< 0.002
	8/26/2021	2.0	180	260	0.34	7.49	250	980	< 0.003	0.0051	0.16	< 0.001	< 0.0005	0.0072	0.0035	0.0047	0.012	< 0.0002	0.015	< 0.744	< 0.0025	< 0.002
	11/23/2021	1.8	170	230	0.33	7.03	300	1200	< 0.003	0.0011	0.11	^+ < 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.012	1.49	0.0082	< 0.002
	2/23/2022	0.3	75	95	0.34	7.25	66	590	< 0.003	< 0.001	0.054	< ^1+ 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.0066	< 0.0002	0.0089	< 0.613	0.0054	< 0.002
	6/14/2022	2.1	500	^+ 200	0.37	6.68	210	940	< 0.003	0.046	0.43	< 0.005	0.0022	0.077	0.041	0.063	< 0.05	< 0.0002	0.026	1.59	0.0097	< 0.002
	8/23/2022	1.2	120	180	0.39	6.92	210	1100	< 0.003	0.0012	0.11	< 0.001	< ^1+ 0.0005	< 0.005	< 0.001	0.0014	0.01	< 0.0002	0.013	< 0.954	0.0099	< 0.002
	11/16/2022	1.6	140	160	0.46	7.10	400	920	< 0.003	0.0015	0.1	< ^+ 0.001	< 0.0005	< 0.005	0.0011	0.0013	< 0.01	< 0.0002	0.017	< 1.7	0.0054	< 0.002
	2/21/2023	0.7	110	150	0.32	7.23	120	740	< 0.003	0.0013	0.11	< 0.001	< 0.0005	< 0.005	< 0.001	0.0011	< 0.01	< 0.0002	0.014	< 1	0.011	< 0.002
	4/25/2023	1.1	120	180	0.35	6.96	200	930	< 0.0030	0.0016	0.11	< 0.0010	< 0.00050	< 0.0050	< 0.0010	0.0010	< 0.010	< 0.00020	0.015	< 0.721	0.013	< 0.0020

Notes: All units are in mg/l except pH is in standard units and radium is in pCi/L
B - Compound was found in the blank and sample.
R - Resample

F1 - MS and/or MSD Recovery outside of limits.
F2 - MS/MSD RPD exceeds control limits
^1+ or ^+ - Initial or Continuing Calibration Verification limits is outside acceptable limits, high biased.

Table 2A. Groundwater Turbidity - Pond 1N, Midwest Generation, LLC, Will County Generating Station, Romeoville, IL.

Well ID	Date	Turbidity (NTU)
MW-01	2/23/2021	0.64
	4/10/2021	5.81
	4/25/2021	7.69
	5/3/2021	1.74
	5/24/2021	1.83
	6/7/2021	2.32
	6/25/2021	3.50
	7/12/2021	4.18
	8/2/2021	2.87
	8/23/2021	1.17
	9/24/2021	3.25
	11/19/2021	16.82
	2/21/2022	3.04
	6/15/2022	10.56
	8/24/2022	15.3
	11/15/2022	19.8
	2/22/2023	19.12
	4/27/2023	4.40
MW-02	2/25/2021	8.84
	4/10/2021	9.17
	4/25/2021	12.03
	5/3/2021	2.42
	5/24/2021	2.7
	6/7/2021	1.82
	6/28/2021	3.15
	7/12/2021	4.23
	8/2/2021	3.11
	8/23/2021	1.37
	9/24/2021	4.63
	11/19/2021	2.1
	2/21/2022	0.45
	6/15/2022	2.69
	8/24/2022	8.71
	11/15/2022	8.21
	2/22/2023	6.07
	4/27/2023	2.90
MW-07	3/1/2021	6.11
	4/10/2021	6.19
	4/25/2021	6.98
	5/4/2021	37.65
	5/24/2021	2.54
	6/7/2021	6.21
	6/25/2021	6.02
	7/12/2021	5.13
	8/2/2021	2.45
	8/25/2021	7.7
	9/24/2021	4.13
	11/19/2021	7.35
	2/22/2022	-0.02
	6/15/2022	5.58
	8/25/2022	2.27
	11/15/2022	41.3
	2/22/2023	13.55
	4/27/2023	8.90
MW-14	5/4/2021	6.88
	5/25/2021	3.5
	6/7/2021	2.55
	6/28/2021	7.44
	7/12/2021	4.89
	8/2/2021	9.8
	8/25/2021	11.7
	9/24/2021	6.87
	11/19/2021	5.19
	2/23/2022	45.11
	6/14/2022	3.98
	8/23/2022	2.71
	11/17/2022	2.8
	2/21/2023	6.71
	4/25/2023	5.0
MW-15	5/4/2021	28.65
	5/25/2021	8.89
	6/7/2021	8.82
	6/28/2021	6.48
	7/12/2021	8.52
	8/2/2021	22.71
	8/25/2021	12.4
	9/24/2021	11.44
	11/19/2021	10.83
	2/22/2022	17.05
	6/14/2022	11.83
	8/23/2022	33.2
	11/17/2022	148.2
	2/21/2023	41.83
	4/25/2023	11.2

Table 2B. Groundwater Turbidity - Pond 1S, Midwest Generation, LLC, Will County Generating Station, Romeoville, IL.

Well ID	Date	Turbidity (NTU)
MW-03	3/1/2021	0.0
	4/10/2021	1.45
	4/25/2021	3.41
	5/3/2021	1.61
	5/24/2021	2.06
	6/8/2021	2.34
	6/28/2021	2.69
	7/12/2021	4.07
	8/2/2021	1.98
	8/24/2021	5.1
	9/24/2021	4.18
	11/19/2021	0.47
	2/24/2022	-1.1
	6/16/2022	1.7
	8/24/2022	6.4
	11/15/2022	9.7
	2/22/2023	6.9
	4/27/2023	2.00
MW-04	2/22/2021	9.87
	4/10/2021	42.2
	4/25/2021	7.41
	5/3/2021	4.2
	5/24/2021	4.45
	6/8/2021	2.8
	6/28/2021	12.93
	7/12/2021	3.93
	8/2/2021	3.75
	8/24/2021	10.1
	9/24/2021	5.74
	11/19/2021	15.15
	2/24/2022	2.04
	6/16/2022	3.13
	8/24/2022	4.7
	11/15/2022	14.2
	2/22/2023	20.1
	4/27/2023	8.40
MW-08	3/1/2021	2.3
	4/10/2021	270.98
	4/25/2021	26.73
	5/4/2021	6.6
	5/28/2021	6.51
	6/7/2021	4.58
	6/28/2021	5.67
	7/12/2021	6.71
	8/2/2021	14.15
	8/25/2021	8.9
	9/24/2021	7.21
	11/19/2021	2.34
	2/24/2022	40.05
	6/15/2022	5.01
	8/25/2022	9.02
	11/17/2022	13.9
	2/23/2023	43.13
	4/27/2023	29.20
MW-09	3/1/2021	0.86
	4/10/2021	6.91
	4/25/2021	2.08
	5/25/2021	14.12
	6/11/2021	2.39
	6/29/2021	2.97
	7/12/2021	3.94
	8/4/2021	0.0
	8/25/2021	19.9
	9/24/2021	3.67
	11/23/2021	19.07
	2/22/2022	0.59
	6/15/2022	113.77
	8/25/2022	1.93
	11/16/2022	11.73
	2/23/2023	10.34
	4/26/2023	2.90
MW-13	5/4/2021	20.6
	5/25/2021	9.8
	6/7/2021	6.49
	6/28/2021	8.25
	7/12/2021	5.89
	8/2/2021	2.91
	8/26/2021	12.9
	9/24/2021	9.13
	11/23/2021	17.83
	2/23/2022	34.33
	6/14/2022	81.91
	8/23/2022	47.3
	11/16/2022	77.2
	2/21/2023	41.7
	4/25/2023	41.90

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 5/18/2023 2:09:49 PM

JOB DESCRIPTION

Will County CCR 1N/1S

JOB NUMBER

500-232843-1

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

myEOL

Job Notes

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

Authorization

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5/18/2023 2:09:49 PM

Authorized for release by
Diana Mockler, Project Manager I
Diana.Mockler@et.eurofinsus.com
(219)252-7570

Table of Contents

Job ID: 500-232843-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative
500-232843-1

Receipt
The samples were received on 4/26/2023 4:30 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 5 coolers at receipt time were 1.3º C, 2.2º C, 2.5º C, 3.0º C and 5.0º C.

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

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

Method Summary

Client: KPRG and Associates, Inc.
Project/Site: Will County CCR 1N/1S

Job ID: 500-232843-1

Method	Method Description	Protocol	Laboratory
6020A	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: Will County CCR 1N/1S

Job ID: 500-232843-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-232843-1	MW-09	Water	04/26/23 12:21	04/26/23 16:30
500-232843-2	MW-13	Water	04/25/23 11:57	04/26/23 16:30
500-232843-3	MW-14	Water	04/25/23 12:50	04/26/23 16:30
500-232843-4	MW-15	Water	04/25/23 13:49	04/26/23 16:30
500-232843-5	1N/1S Duplicate	Water	04/25/23 00:00	04/26/23 16:30
500-232843-6	MW-01	Water	04/27/23 12:37	04/28/23 09:00
500-232843-7	MW-02	Water	04/27/23 14:02	04/28/23 09:00
500-232843-8	MW-03	Water	04/27/23 15:07	04/28/23 09:00
500-232843-9	MW-04	Water	04/27/23 16:34	04/28/23 09:00
500-232843-10	MW-07	Water	04/27/23 09:37	04/28/23 09:00
500-232843-11	MW-08	Water	04/27/23 11:04	04/28/23 09:00

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Will County CCR 1N/1S

Job ID: 500-232843-1

Client Sample ID: MW-09

Date Collected: 04/26/23 12:21
Date Received: 04/26/23 16:30

Lab Sample ID: 500-232843-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/10/23 09:24	05/10/23 19:28	1
Arsenic	**0.0075**		0.0010		mg/L		05/10/23 09:24	05/10/23 19:28	1
Barium	**0.029**		0.0025		mg/L		05/10/23 09:24	05/10/23 19:28	1
Beryllium	<0.0010		0.0010		mg/L		05/10/23 09:24	05/10/23 19:28	1
Boron	**1.7**		0.050		mg/L		05/10/23 09:24	05/10/23 19:28	1
Cadmium	<0.00050		0.00050		mg/L		05/10/23 09:24	05/10/23 19:28	1
Calcium	**38**		0.20		mg/L		05/10/23 09:24	05/10/23 19:28	1
Chromium	<0.0050		0.0050		mg/L		05/10/23 09:24	05/10/23 19:28	1
Cobalt	<0.0010		0.0010		mg/L		05/10/23 09:24	05/10/23 19:28	1
Lead	<0.00050		0.00050		mg/L		05/10/23 09:24	05/10/23 19:28	1
Lithium	<0.010		0.010		mg/L		05/10/23 09:24	05/10/23 19:28	1
Molybdenum	**0.062**		0.0050		mg/L		05/10/23 09:24	05/10/23 19:28	1
Selenium	<0.0025		0.0025		mg/L		05/10/23 09:24	05/16/23 16:22	1
Thallium	<0.0020		0.0020		mg/L		05/10/23 09:24	05/10/23 19:28	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/16/23 10:30	05/17/23 10:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**760**		10		mg/L			05/02/23 17:57	1
Chloride (SM 4500 Cl- E)	**190**		20		mg/L			05/06/23 12:32	10
Fluoride (SM 4500 F C)	**0.48**		0.10		mg/L			05/10/23 14:22	1
Sulfate (SM 4500 SO4 E)	**200**		100		mg/L			05/08/23 13:06	20

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Will County CCR 1N/1S

Job ID: 500-232843-1

Client Sample ID: MW-13

Date Collected: 04/25/23 11:57
Date Received: 04/26/23 16:30

Lab Sample ID: 500-232843-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/10/23 09:24	05/10/23 19:32	1
Arsenic	**0.0016**		0.0010		mg/L		05/10/23 09:24	05/10/23 19:32	1
Barium	**0.11**		0.0025		mg/L		05/10/23 09:24	05/10/23 19:32	1
Beryllium	<0.0010		0.0010		mg/L		05/10/23 09:24	05/10/23 19:32	1
Boron	**1.1**		0.050		mg/L		05/10/23 09:24	05/10/23 19:32	1
Cadmium	<0.00050		0.00050		mg/L		05/10/23 09:24	05/10/23 19:32	1
Calcium	**120**		0.20		mg/L		05/10/23 09:24	05/10/23 19:32	1
Chromium	<0.0050		0.0050		mg/L		05/10/23 09:24	05/10/23 19:32	1
Cobalt	<0.0010		0.0010		mg/L		05/10/23 09:24	05/10/23 19:32	1
Lead	**0.0010**		0.00050		mg/L		05/10/23 09:24	05/10/23 19:32	1
Lithium	<0.010		0.010		mg/L		05/10/23 09:24	05/10/23 19:32	1
Molybdenum	**0.015**		0.0050		mg/L		05/10/23 09:24	05/10/23 19:32	1
Selenium	**0.013**		0.0025		mg/L		05/10/23 09:24	05/16/23 16:25	1
Thallium	<0.0020		0.0020		mg/L		05/10/23 09:24	05/10/23 19:32	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/16/23 10:30	05/17/23 10:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**930**		10		mg/L			05/01/23 22:17	1
Chloride (SM 4500 Cl- E)	**180**		20		mg/L			05/06/23 13:03	10
Fluoride (SM 4500 F C)	**0.35**		0.10		mg/L			05/10/23 14:22	1
Sulfate (SM 4500 SO4 E)	**200**		50		mg/L			05/04/23 11:07	10

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Will County CCR 1N/1S

Job ID: 500-232843-1

Client Sample ID: MW-14

Date Collected: 04/25/23 12:50
Date Received: 04/26/23 16:30

Lab Sample ID: 500-232843-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/10/23 09:24	05/10/23 19:45	1
Arsenic	**0.0028**		0.0010		mg/L		05/10/23 09:24	05/10/23 19:45	1
Barium	**0.082**		0.0025		mg/L		05/10/23 09:24	05/10/23 19:45	1
Beryllium	<0.0010		0.0010		mg/L		05/10/23 09:24	05/10/23 19:45	1
Boron	**3.2**		0.050		mg/L		05/10/23 09:24	05/10/23 19:45	1
Cadmium	<0.00050		0.00050		mg/L		05/10/23 09:24	05/10/23 19:45	1
Calcium	**100**		0.20		mg/L		05/10/23 09:24	05/10/23 19:45	1
Chromium	<0.0050		0.0050		mg/L		05/10/23 09:24	05/10/23 19:45	1
Cobalt	<0.0010		0.0010		mg/L		05/10/23 09:24	05/10/23 19:45	1
Lead	<0.00050		0.00050		mg/L		05/10/23 09:24	05/10/23 19:45	1
Lithium	**0.024**		0.010		mg/L		05/10/23 09:24	05/10/23 19:45	1
Molybdenum	**0.064**		0.0050		mg/L		05/10/23 09:24	05/10/23 19:45	1
Selenium	<0.0025		0.0025		mg/L		05/10/23 09:24	05/16/23 16:28	1
Thallium	<0.0020		0.0020		mg/L		05/10/23 09:24	05/10/23 19:45	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/16/23 10:30	05/17/23 10:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**1000**		10		mg/L			05/01/23 22:20	1
Chloride (SM 4500 Cl- E)	**120**		20		mg/L			05/06/23 13:03	10
Fluoride (SM 4500 F C)	**0.56**		0.10		mg/L			05/10/23 14:22	1
Sulfate (SM 4500 SO4 E)	**480**		100		mg/L			05/04/23 11:08	20

Client: KPRG and Associates, Inc.
Project/Site: Will County CCR 1N/1S

Job ID: 500-232843-1

Client Sample ID: MW-15

Date Collected: 04/25/23 13:49
Date Received: 04/26/23 16:30

Lab Sample ID: 500-232843-4

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/10/23 09:24	05/10/23 19:49	1
Arsenic	**0.0018**		0.0010		mg/L		05/10/23 09:24	05/10/23 19:49	1
Barium	**0.11**		0.0025		mg/L		05/10/23 09:24	05/10/23 19:49	1
Beryllium	<0.0010		0.0010		mg/L		05/10/23 09:24	05/10/23 19:49	1
Boron	**3.2**		0.050		mg/L		05/10/23 09:24	05/10/23 19:49	1
Cadmium	<0.00050		0.00050		mg/L		05/10/23 09:24	05/10/23 19:49	1
Calcium	**250**		0.20		mg/L		05/10/23 09:24	05/10/23 19:49	1
Chromium	<0.0050		0.0050		mg/L		05/10/23 09:24	05/10/23 19:49	1
Cobalt	<0.0010		0.0010		mg/L		05/10/23 09:24	05/10/23 19:49	1
Lead	<0.00050		0.00050		mg/L		05/10/23 09:24	05/10/23 19:49	1
Lithium	**0.028**		0.010		mg/L		05/10/23 09:24	05/10/23 19:49	1
Molybdenum	**0.019**		0.0050		mg/L		05/10/23 09:24	05/10/23 19:49	1
Selenium	<0.0025		0.0025		mg/L		05/10/23 09:24	05/16/23 16:32	1
Thallium	<0.0020		0.0020		mg/L		05/10/23 09:24	05/10/23 19:49	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/16/23 10:30	05/17/23 10:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**1700**		10		mg/L			05/01/23 22:22	1
Chloride (SM 4500 Cl- E)	**120**		20		mg/L			05/06/23 13:04	10
Fluoride (SM 4500 F C)	**0.30**		0.10		mg/L			05/10/23 14:22	1
Sulfate (SM 4500 SO4 E)	**730**		100		mg/L			05/04/23 11:08	20

Client: KPRG and Associates, Inc.
Project/Site: Will County CCR 1N/1S

Job ID: 500-232843-1

Client Sample ID: 1N/1S Duplicate

Date Collected: 04/25/23 00:00
Date Received: 04/26/23 16:30

Lab Sample ID: 500-232843-5

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/10/23 09:24	05/10/23 19:53	1
Arsenic	**0.0017**		0.0010		mg/L		05/10/23 09:24	05/10/23 19:53	1
Barium	**0.11**		0.0025		mg/L		05/10/23 09:24	05/10/23 19:53	1
Beryllium	<0.0010		0.0010		mg/L		05/10/23 09:24	05/10/23 19:53	1
Boron	**3.1**		0.050		mg/L		05/10/23 09:24	05/10/23 19:53	1
Cadmium	<0.00050		0.00050		mg/L		05/10/23 09:24	05/10/23 19:53	1
Calcium	**250**		0.20		mg/L		05/10/23 09:24	05/10/23 19:53	1
Chromium	<0.0050		0.0050		mg/L		05/10/23 09:24	05/10/23 19:53	1
Cobalt	<0.0010		0.0010		mg/L		05/10/23 09:24	05/10/23 19:53	1
Lead	<0.00050		0.00050		mg/L		05/10/23 09:24	05/10/23 19:53	1
Lithium	**0.026**		0.010		mg/L		05/10/23 09:24	05/10/23 19:53	1
Molybdenum	**0.019**		0.0050		mg/L		05/10/23 09:24	05/10/23 19:53	1
Selenium	<0.0025		0.0025		mg/L		05/10/23 09:24	05/16/23 16:35	1
Thallium	<0.0020		0.0020		mg/L		05/10/23 09:24	05/10/23 19:53	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/16/23 10:30	05/17/23 10:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**1700**		10		mg/L			05/01/23 22:25	1
Chloride (SM 4500 Cl- E)	**120**		10		mg/L			05/06/23 13:04	5
Fluoride (SM 4500 F C)	**0.30**		0.10		mg/L			05/10/23 14:22	1
Sulfate (SM 4500 SO4 E)	**750**		100		mg/L			05/04/23 11:08	20

Client: KPRG and Associates, Inc.
Project/Site: Will County CCR 1N/1S

Job ID: 500-232843-1

Client Sample ID: MW-01

Date Collected: 04/27/23 12:37
Date Received: 04/28/23 09:00

Lab Sample ID: 500-232843-6

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/10/23 09:24	05/10/23 19:57	1
Arsenic	<0.0010		0.0010		mg/L		05/10/23 09:24	05/10/23 19:57	1
Barium	**0.065**		0.0025		mg/L		05/10/23 09:24	05/10/23 19:57	1
Beryllium	<0.0010		0.0010		mg/L		05/10/23 09:24	05/10/23 19:57	1
Boron	**2.4**		0.050		mg/L		05/10/23 09:24	05/10/23 19:57	1
Cadmium	<0.00050		0.00050		mg/L		05/10/23 09:24	05/10/23 19:57	1
Calcium	**120**		0.20		mg/L		05/10/23 09:24	05/10/23 19:57	1
Chromium	<0.0050		0.0050		mg/L		05/10/23 09:24	05/10/23 19:57	1
Cobalt	<0.0010		0.0010		mg/L		05/10/23 09:24	05/10/23 19:57	1
Lead	<0.00050		0.00050		mg/L		05/10/23 09:24	05/10/23 19:57	1
Lithium	**0.028**		0.010		mg/L		05/10/23 09:24	05/10/23 19:57	1
Molybdenum	**0.041**		0.0050		mg/L		05/10/23 09:24	05/10/23 19:57	1
Selenium	<0.0025		0.0025		mg/L		05/10/23 09:24	05/16/23 16:38	1
Thallium	<0.0020		0.0020		mg/L		05/10/23 09:24	05/10/23 19:57	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/16/23 10:30	05/17/23 10:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**1100**		10		mg/L			05/02/23 17:59	1
Chloride (SM 4500 Cl- E)	**77**		10		mg/L			05/06/23 12:40	5
Fluoride (SM 4500 F C)	**0.69**		0.10		mg/L			05/10/23 14:22	1
Sulfate (SM 4500 SO4 E)	**400**		100		mg/L			05/08/23 13:07	20

Client: KPRG and Associates, Inc.
Project/Site: Will County CCR 1N/1S

Job ID: 500-232843-1

Client Sample ID: MW-02

Date Collected: 04/27/23 14:02
Date Received: 04/28/23 09:00

Lab Sample ID: 500-232843-7

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/10/23 09:24	05/10/23 20:01	1
Arsenic	**0.0088**		0.0010		mg/L		05/10/23 09:24	05/10/23 20:01	1
Barium	**0.053**		0.0025		mg/L		05/10/23 09:24	05/10/23 20:01	1
Beryllium	<0.0010		0.0010		mg/L		05/10/23 09:24	05/10/23 20:01	1
Boron	**4.6**		0.050		mg/L		05/10/23 09:24	05/10/23 20:01	1
Cadmium	<0.00050		0.00050		mg/L		05/10/23 09:24	05/10/23 20:01	1
Calcium	**83**		0.20		mg/L		05/10/23 09:24	05/10/23 20:01	1
Chromium	<0.0050		0.0050		mg/L		05/10/23 09:24	05/10/23 20:01	1
Cobalt	<0.0010		0.0010		mg/L		05/10/23 09:24	05/10/23 20:01	1
Lead	<0.00050		0.00050		mg/L		05/10/23 09:24	05/10/23 20:01	1
Lithium	**0.043**		0.010		mg/L		05/10/23 09:24	05/10/23 20:01	1
Molybdenum	**0.072**		0.0050		mg/L		05/10/23 09:24	05/10/23 20:01	1
Selenium	<0.0025		0.0025		mg/L		05/10/23 09:24	05/16/23 16:42	1
Thallium	<0.0020		0.0020		mg/L		05/10/23 09:24	05/10/23 20:01	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/16/23 10:30	05/17/23 10:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**1000**		10		mg/L			05/02/23 18:02	1
Chloride (SM 4500 Cl- E)	**29**		2.0		mg/L			05/06/23 12:29	1
Fluoride (SM 4500 F C)	**0.37**		0.10		mg/L			05/10/23 14:22	1
Sulfate (SM 4500 SO4 E)	**430**		250		mg/L			05/08/23 13:07	50

Client: KPRG and Associates, Inc.
Project/Site: Will County CCR 1N/1S

Job ID: 500-232843-1

Client Sample ID: MW-03

Date Collected: 04/27/23 15:07
Date Received: 04/28/23 09:00

Lab Sample ID: 500-232843-8

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/10/23 09:24	05/10/23 20:05	1
Arsenic	**0.0013**		0.0010		mg/L		05/10/23 09:24	05/10/23 20:05	1
Barium	**0.090**		0.0025		mg/L		05/10/23 09:24	05/10/23 20:05	1
Beryllium	<0.0010		0.0010		mg/L		05/10/23 09:24	05/10/23 20:05	1
Boron	**3.2**		0.050		mg/L		05/10/23 09:24	05/10/23 20:05	1
Cadmium	<0.00050		0.00050		mg/L		05/10/23 09:24	05/10/23 20:05	1
Calcium	**150**		0.20		mg/L		05/10/23 09:24	05/10/23 20:05	1
Chromium	<0.0050		0.0050		mg/L		05/10/23 09:24	05/10/23 20:05	1
Cobalt	<0.0010		0.0010		mg/L		05/10/23 09:24	05/10/23 20:05	1
Lead	<0.00050		0.00050		mg/L		05/10/23 09:24	05/10/23 20:05	1
Lithium	**0.040**		0.010		mg/L		05/10/23 09:24	05/10/23 20:05	1
Molybdenum	**0.021**		0.0050		mg/L		05/10/23 09:24	05/10/23 20:05	1
Selenium	**0.0057**		0.0025		mg/L		05/10/23 09:24	05/16/23 16:45	1
Thallium	<0.0020		0.0020		mg/L		05/10/23 09:24	05/10/23 20:05	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/16/23 10:30	05/17/23 10:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**1000**		10		mg/L			05/02/23 18:04	1
Chloride (SM 4500 Cl- E)	**16**		4.0		mg/L			05/06/23 13:04	2
Fluoride (SM 4500 F C)	**0.28**		0.10		mg/L			05/10/23 14:22	1
Sulfate (SM 4500 SO4 E)	**320**		100		mg/L			05/08/23 12:44	20

Client: KPRG and Associates, Inc.
Project/Site: Will County CCR 1N/1S

Job ID: 500-232843-1

Client Sample ID: MW-04

Date Collected: 04/27/23 16:34
Date Received: 04/28/23 09:00

Lab Sample ID: 500-232843-9

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/10/23 09:24	05/10/23 20:09	1
Arsenic	**0.0027**		0.0010		mg/L		05/10/23 09:24	05/10/23 20:09	1
Barium	**0.039**		0.0025		mg/L		05/10/23 09:24	05/10/23 20:09	1
Beryllium	<0.0010		0.0010		mg/L		05/10/23 09:24	05/10/23 20:09	1
Boron	**4.3**		0.050		mg/L		05/10/23 09:24	05/10/23 20:09	1
Cadmium	<0.00050		0.00050		mg/L		05/10/23 09:24	05/10/23 20:09	1
Calcium	**310**		2.0		mg/L		05/10/23 09:24	05/16/23 16:59	10
Chromium	<0.0050		0.0050		mg/L		05/10/23 09:24	05/10/23 20:09	1
Cobalt	**0.0015**		0.0010		mg/L		05/10/23 09:24	05/10/23 20:09	1
Lead	<0.00050		0.00050		mg/L		05/10/23 09:24	05/10/23 20:09	1
Lithium	**0.021**		0.010		mg/L		05/10/23 09:24	05/10/23 20:09	1
Molybdenum	**0.023**		0.0050		mg/L		05/10/23 09:24	05/10/23 20:09	1
Selenium	**0.0091**		0.0025		mg/L		05/10/23 09:24	05/16/23 16:56	1
Thallium	<0.0020		0.0020		mg/L		05/10/23 09:24	05/10/23 20:09	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/16/23 10:30	05/17/23 10:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**2000**		10		mg/L			05/02/23 18:07	1
Chloride (SM 4500 Cl- E)	**25**		4.0		mg/L			05/06/23 12:34	2
Fluoride (SM 4500 F C)	**0.33**		0.10		mg/L			05/10/23 14:22	1
Sulfate (SM 4500 SO4 E)	**870**		500		mg/L			05/08/23 12:44	100

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Will County CCR 1N/1S

Job ID: 500-232843-1

Client Sample ID: MW-07

Date Collected: 04/27/23 09:37
Date Received: 04/28/23 09:00

Lab Sample ID: 500-232843-10

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/10/23 09:24	05/10/23 20:13	1
Arsenic	**0.0021**		0.0010		mg/L		05/10/23 09:24	05/10/23 20:13	1
Barium	**0.067**		0.0025		mg/L		05/10/23 09:24	05/10/23 20:13	1
Beryllium	<0.0010		0.0010		mg/L		05/10/23 09:24	05/10/23 20:13	1
Boron	**3.5**		0.050		mg/L		05/10/23 09:24	05/10/23 20:13	1
Cadmium	<0.00050		0.00050		mg/L		05/10/23 09:24	05/10/23 20:13	1
Calcium	**190**		0.20		mg/L		05/10/23 09:24	05/10/23 20:13	1
Chromium	<0.0050		0.0050		mg/L		05/10/23 09:24	05/10/23 20:13	1
Cobalt	<0.0010		0.0010		mg/L		05/10/23 09:24	05/10/23 20:13	1
Lead	<0.00050		0.00050		mg/L		05/10/23 09:24	05/10/23 20:13	1
Lithium	**0.026**		0.010		mg/L		05/10/23 09:24	05/10/23 20:13	1
Molybdenum	**0.043**		0.0050		mg/L		05/10/23 09:24	05/10/23 20:13	1
Selenium	<0.0025		0.0025		mg/L		05/10/23 09:24	05/16/23 17:03	1
Thallium	<0.0020		0.0020		mg/L		05/10/23 09:24	05/10/23 20:13	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/16/23 10:30	05/17/23 10:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**1600**		10		mg/L			05/02/23 18:10	1
Chloride (SM 4500 Cl- E)	**110**		20		mg/L			05/06/23 12:34	10
Fluoride (SM 4500 F C)	**0.55**		0.10		mg/L			05/10/23 14:22	1
Sulfate (SM 4500 SO4 E)	**610**		250		mg/L			05/08/23 12:45	50

Client: KPRG and Associates, Inc.
Project/Site: Will County CCR 1N/1S

Job ID: 500-232843-1

Client Sample ID: MW-08

Date Collected: 04/27/23 11:04
Date Received: 04/28/23 09:00

Lab Sample ID: 500-232843-11

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/10/23 09:24	05/10/23 20:17	1
Arsenic	**0.0025**		0.0010		mg/L		05/10/23 09:24	05/10/23 20:17	1
Barium	**0.052**		0.0025		mg/L		05/10/23 09:24	05/10/23 20:17	1
Beryllium	<0.0010		0.0010		mg/L		05/10/23 09:24	05/10/23 20:17	1
Boron	**2.7**		0.050		mg/L		05/10/23 09:24	05/10/23 20:17	1
Cadmium	<0.00050		0.00050		mg/L		05/10/23 09:24	05/10/23 20:17	1
Calcium	**180**		0.20		mg/L		05/10/23 09:24	05/10/23 20:17	1
Chromium	<0.0050		0.0050		mg/L		05/10/23 09:24	05/10/23 20:17	1
Cobalt	**0.0014**		0.0010		mg/L		05/10/23 09:24	05/10/23 20:17	1
Lead	<0.00050		0.00050		mg/L		05/10/23 09:24	05/10/23 20:17	1
Lithium	<0.010		0.010		mg/L		05/10/23 09:24	05/10/23 20:17	1
Molybdenum	**0.030**		0.0050		mg/L		05/10/23 09:24	05/10/23 20:17	1
Selenium	<0.0025		0.0025		mg/L		05/10/23 09:24	05/16/23 17:06	1
Thallium	<0.0020		0.0020		mg/L		05/10/23 09:24	05/10/23 20:17	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/16/23 10:30	05/17/23 10:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**1600**		10		mg/L			05/02/23 18:12	1
Chloride (SM 4500 Cl- E)	**150**		40		mg/L			05/06/23 12:34	20
Fluoride (SM 4500 F C)	**0.54**		0.10		mg/L			05/10/23 14:22	1
Sulfate (SM 4500 SO4 E)	**480**		250		mg/L			05/08/23 13:07	50

Definitions/Glossary

Client: KPRG and Associates, Inc.
Project/Site: Will County CCR 1N/1S

Job ID: 500-232843-1

Glossary

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

Metals

Prep Batch: 712420

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-232843-1	MW-09	Total Recoverable	Water	3005A	
500-232843-2	MW-13	Total Recoverable	Water	3005A	
500-232843-3	MW-14	Total Recoverable	Water	3005A	
500-232843-4	MW-15	Total Recoverable	Water	3005A	
500-232843-5	1N/1S Duplicate	Total Recoverable	Water	3005A	
500-232843-6	MW-01	Total Recoverable	Water	3005A	
500-232843-7	MW-02	Total Recoverable	Water	3005A	
500-232843-8	MW-03	Total Recoverable	Water	3005A	
500-232843-9	MW-04	Total Recoverable	Water	3005A	
500-232843-10	MW-07	Total Recoverable	Water	3005A	
500-232843-11	MW-08	Total Recoverable	Water	3005A	
MB 500-712420/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-712420/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 712707

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-232843-1	MW-09	Total Recoverable	Water	6020A	712420
500-232843-2	MW-13	Total Recoverable	Water	6020A	712420
500-232843-3	MW-14	Total Recoverable	Water	6020A	712420
500-232843-4	MW-15	Total Recoverable	Water	6020A	712420
500-232843-5	1N/1S Duplicate	Total Recoverable	Water	6020A	712420
500-232843-6	MW-01	Total Recoverable	Water	6020A	712420
500-232843-7	MW-02	Total Recoverable	Water	6020A	712420
500-232843-8	MW-03	Total Recoverable	Water	6020A	712420
500-232843-9	MW-04	Total Recoverable	Water	6020A	712420
500-232843-10	MW-07	Total Recoverable	Water	6020A	712420
500-232843-11	MW-08	Total Recoverable	Water	6020A	712420
MB 500-712420/1-A	Method Blank	Total Recoverable	Water	6020A	712420
LCS 500-712420/2-A	Lab Control Sample	Total Recoverable	Water	6020A	712420

Prep Batch: 713506

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-232843-1	MW-09	Total/NA	Water	7470A	
500-232843-2	MW-13	Total/NA	Water	7470A	
500-232843-3	MW-14	Total/NA	Water	7470A	
500-232843-4	MW-15	Total/NA	Water	7470A	
500-232843-5	1N/1S Duplicate	Total/NA	Water	7470A	
500-232843-6	MW-01	Total/NA	Water	7470A	
500-232843-7	MW-02	Total/NA	Water	7470A	
500-232843-8	MW-03	Total/NA	Water	7470A	
500-232843-9	MW-04	Total/NA	Water	7470A	
500-232843-10	MW-07	Total/NA	Water	7470A	
500-232843-11	MW-08	Total/NA	Water	7470A	
MB 500-713506/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-713506/13-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 713622

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-232843-1	MW-09	Total Recoverable	Water	6020A	712420
500-232843-2	MW-13	Total Recoverable	Water	6020A	712420
500-232843-3	MW-14	Total Recoverable	Water	6020A	712420

Metals (Continued)

Analysis Batch: 713622 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-232843-4	MW-15	Total Recoverable	Water	6020A	712420
500-232843-5	1N/1S Duplicate	Total Recoverable	Water	6020A	712420
500-232843-6	MW-01	Total Recoverable	Water	6020A	712420
500-232843-7	MW-02	Total Recoverable	Water	6020A	712420
500-232843-8	MW-03	Total Recoverable	Water	6020A	712420
500-232843-9	MW-04	Total Recoverable	Water	6020A	712420
500-232843-9	MW-04	Total Recoverable	Water	6020A	712420
500-232843-10	MW-07	Total Recoverable	Water	6020A	712420
500-232843-11	MW-08	Total Recoverable	Water	6020A	712420
MB 500-712420/1-A	Method Blank	Total Recoverable	Water	6020A	712420
LCS 500-712420/2-A	Lab Control Sample	Total Recoverable	Water	6020A	712420

Analysis Batch: 713807

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-232843-1	MW-09	Total/NA	Water	7470A	713506
500-232843-2	MW-13	Total/NA	Water	7470A	713506
500-232843-3	MW-14	Total/NA	Water	7470A	713506
500-232843-4	MW-15	Total/NA	Water	7470A	713506
500-232843-5	1N/1S Duplicate	Total/NA	Water	7470A	713506
500-232843-6	MW-01	Total/NA	Water	7470A	713506
500-232843-7	MW-02	Total/NA	Water	7470A	713506
500-232843-8	MW-03	Total/NA	Water	7470A	713506
500-232843-9	MW-04	Total/NA	Water	7470A	713506
500-232843-10	MW-07	Total/NA	Water	7470A	713506
500-232843-11	MW-08	Total/NA	Water	7470A	713506
MB 500-713506/12-A	Method Blank	Total/NA	Water	7470A	713506
LCS 500-713506/13-A	Lab Control Sample	Total/NA	Water	7470A	713506

General Chemistry

Analysis Batch: 710743

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-232843-2	MW-13	Total/NA	Water	SM 2540C	
500-232843-3	MW-14	Total/NA	Water	SM 2540C	
500-232843-4	MW-15	Total/NA	Water	SM 2540C	
500-232843-5	1N/1S Duplicate	Total/NA	Water	SM 2540C	
MB 500-710743/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-710743/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 710989

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-232843-1	MW-09	Total/NA	Water	SM 2540C	
500-232843-6	MW-01	Total/NA	Water	SM 2540C	
500-232843-7	MW-02	Total/NA	Water	SM 2540C	
500-232843-8	MW-03	Total/NA	Water	SM 2540C	
500-232843-9	MW-04	Total/NA	Water	SM 2540C	
500-232843-10	MW-07	Total/NA	Water	SM 2540C	
500-232843-11	MW-08	Total/NA	Water	SM 2540C	
MB 500-710989/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-710989/2	Lab Control Sample	Total/NA	Water	SM 2540C	

General Chemistry

Analysis Batch: 711406

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-232843-2	MW-13	Total/NA	Water	SM 4500 SO4 E	
500-232843-3	MW-14	Total/NA	Water	SM 4500 SO4 E	
500-232843-4	MW-15	Total/NA	Water	SM 4500 SO4 E	
500-232843-5	1N/1S Duplicate	Total/NA	Water	SM 4500 SO4 E	
MB 500-711406/35	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-711406/36	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 711786

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-232843-1	MW-09	Total/NA	Water	SM 4500 Cl- E	
500-232843-2	MW-13	Total/NA	Water	SM 4500 Cl- E	
500-232843-3	MW-14	Total/NA	Water	SM 4500 Cl- E	
500-232843-4	MW-15	Total/NA	Water	SM 4500 Cl- E	
500-232843-5	1N/1S Duplicate	Total/NA	Water	SM 4500 Cl- E	
500-232843-6	MW-01	Total/NA	Water	SM 4500 Cl- E	
500-232843-7	MW-02	Total/NA	Water	SM 4500 Cl- E	
500-232843-8	MW-03	Total/NA	Water	SM 4500 Cl- E	
500-232843-9	MW-04	Total/NA	Water	SM 4500 Cl- E	
500-232843-10	MW-07	Total/NA	Water	SM 4500 Cl- E	
500-232843-11	MW-08	Total/NA	Water	SM 4500 Cl- E	
MB 500-711786/65	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 500-711786/66	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 712003

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-232843-1	MW-09	Total/NA	Water	SM 4500 SO4 E	
500-232843-6	MW-01	Total/NA	Water	SM 4500 SO4 E	
500-232843-7	MW-02	Total/NA	Water	SM 4500 SO4 E	
500-232843-8	MW-03	Total/NA	Water	SM 4500 SO4 E	
500-232843-9	MW-04	Total/NA	Water	SM 4500 SO4 E	
500-232843-10	MW-07	Total/NA	Water	SM 4500 SO4 E	
500-232843-11	MW-08	Total/NA	Water	SM 4500 SO4 E	
MB 500-712003/16	Method Blank	Total/NA	Water	SM 4500 SO4 E	
MB 500-712003/32	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-712003/17	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
LCS 500-712003/34	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 712501

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-232843-1	MW-09	Total/NA	Water	SM 4500 F C	
500-232843-2	MW-13	Total/NA	Water	SM 4500 F C	
500-232843-3	MW-14	Total/NA	Water	SM 4500 F C	
500-232843-4	MW-15	Total/NA	Water	SM 4500 F C	
500-232843-5	1N/1S Duplicate	Total/NA	Water	SM 4500 F C	
500-232843-6	MW-01	Total/NA	Water	SM 4500 F C	
500-232843-7	MW-02	Total/NA	Water	SM 4500 F C	
500-232843-8	MW-03	Total/NA	Water	SM 4500 F C	
500-232843-9	MW-04	Total/NA	Water	SM 4500 F C	
500-232843-10	MW-07	Total/NA	Water	SM 4500 F C	
500-232843-11	MW-08	Total/NA	Water	SM 4500 F C	
MB 500-712501/3	Method Blank	Total/NA	Water	SM 4500 F C	

General Chemistry (Continued)

Analysis Batch: 712501 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-712501/31	Method Blank	Total/NA	Water	SM 4500 F C	
MB 500-712501/59	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-712501/32	Lab Control Sample	Total/NA	Water	SM 4500 F C	
LCS 500-712501/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
LCS 500-712501/60	Lab Control Sample	Total/NA	Water	SM 4500 F C	
500-232843-7 MS	MW-02	Total/NA	Water	SM 4500 F C	
500-232843-7 MSD	MW-02	Total/NA	Water	SM 4500 F C	

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 500-712420/1-A
Matrix: Water
Analysis Batch: 712707

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 712420

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/10/23 09:24	05/10/23 18:15	1
Arsenic	<0.0010		0.0010		mg/L		05/10/23 09:24	05/10/23 18:15	1
Barium	<0.0025		0.0025		mg/L		05/10/23 09:24	05/10/23 18:15	1
Beryllium	<0.0010		0.0010		mg/L		05/10/23 09:24	05/10/23 18:15	1
Boron	<0.050		0.050		mg/L		05/10/23 09:24	05/10/23 18:15	1
Cadmium	<0.00050		0.00050		mg/L		05/10/23 09:24	05/10/23 18:15	1
Calcium	<0.20		0.20		mg/L		05/10/23 09:24	05/10/23 18:15	1
Chromium	<0.0050		0.0050		mg/L		05/10/23 09:24	05/10/23 18:15	1
Cobalt	<0.0010		0.0010		mg/L		05/10/23 09:24	05/10/23 18:15	1
Lead	<0.00050		0.00050		mg/L		05/10/23 09:24	05/10/23 18:15	1
Lithium	<0.010		0.010		mg/L		05/10/23 09:24	05/10/23 18:15	1
Molybdenum	<0.0050		0.0050		mg/L		05/10/23 09:24	05/10/23 18:15	1
Thallium	<0.0020		0.0020		mg/L		05/10/23 09:24	05/10/23 18:15	1

Lab Sample ID: MB 500-712420/1-A
Matrix: Water
Analysis Batch: 713622

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 712420

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	<0.0025		0.0025		mg/L		05/10/23 09:24	05/16/23 16:15	1

Lab Sample ID: LCS 500-712420/2-A
Matrix: Water
Analysis Batch: 712707

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 712420

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.515		mg/L		103	80 - 120
Arsenic	0.100	0.0950		mg/L		95	80 - 120
Barium	2.00	2.02		mg/L		101	80 - 120
Beryllium	0.0500	0.0521		mg/L		104	80 - 120
Boron	1.00	1.02		mg/L		102	80 - 120
Cadmium	0.0500	0.0502		mg/L		100	80 - 120
Calcium	10.0	10.1		mg/L		101	80 - 120
Chromium	0.200	0.213		mg/L		106	80 - 120
Cobalt	0.500	0.520		mg/L		104	80 - 120
Lead	0.100	0.105		mg/L		105	80 - 120
Lithium	0.500	0.527		mg/L		105	80 - 120
Molybdenum	1.00	0.979		mg/L		98	80 - 120
Thallium	0.100	0.108		mg/L		108	80 - 120

Lab Sample ID: LCS 500-712420/2-A
Matrix: Water
Analysis Batch: 713622

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 712420

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Selenium	0.100	0.106		mg/L		106	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-713506/12-A
Matrix: Water
Analysis Batch: 713807

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 713506

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/16/23 10:30	05/17/23 10:01	1

Lab Sample ID: LCS 500-713506/13-A
Matrix: Water
Analysis Batch: 713807

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 713506

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00198	0.00192		mg/L		97	80 - 120

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

Lab Sample ID: MB 500-710743/1
Matrix: Water
Analysis Batch: 710743

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10		mg/L			05/01/23 21:39	1

Lab Sample ID: LCS 500-710743/2
Matrix: Water
Analysis Batch: 710743

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	248		mg/L		99	80 - 120

Lab Sample ID: MB 500-710989/1
Matrix: Water
Analysis Batch: 710989

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10		mg/L			05/02/23 17:39	1

Lab Sample ID: LCS 500-710989/2
Matrix: Water
Analysis Batch: 710989

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	238		mg/L		95	80 - 120

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 500-711786/65
Matrix: Water
Analysis Batch: 711786

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<2.0		2.0		mg/L			05/06/23 12:26	1

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

Lab Sample ID: LCS 500-711786/66
Matrix: Water
Analysis Batch: 711786

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	19.9		mg/L		99	85 - 115

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-712501/3
Matrix: Water
Analysis Batch: 712501

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10		mg/L			05/10/23 14:22	1

Lab Sample ID: MB 500-712501/31
Matrix: Water
Analysis Batch: 712501

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10		mg/L			05/10/23 14:22	1

Lab Sample ID: MB 500-712501/59
Matrix: Water
Analysis Batch: 712501

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10		mg/L			05/10/23 14:22	1

Lab Sample ID: LCS 500-712501/32
Matrix: Water
Analysis Batch: 712501

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	10.0	10.2		mg/L		102	90 - 119

Lab Sample ID: LCS 500-712501/4
Matrix: Water
Analysis Batch: 712501

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	10.0	10.7		mg/L		107	90 - 119

Lab Sample ID: LCS 500-712501/60
Matrix: Water
Analysis Batch: 712501

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	10.0	10.1		mg/L		101	90 - 119

Method: SM 4500 F C - Fluoride (Continued)

Lab Sample ID: 500-232843-7 MS
Matrix: Water
Analysis Batch: 712501

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.37		5.00	5.41		mg/L		101	75 - 125

Lab Sample ID: 500-232843-7 MSD
Matrix: Water
Analysis Batch: 712501

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	0.37		5.00	5.04		mg/L		93	75 - 125	7	20

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 500-711406/35
Matrix: Water
Analysis Batch: 711406

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<5.0		5.0		mg/L			05/04/23 11:02	1

Lab Sample ID: LCS 500-711406/36
Matrix: Water
Analysis Batch: 711406

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	20.0	20.7		mg/L		103	88 - 123

Lab Sample ID: MB 500-712003/16
Matrix: Water
Analysis Batch: 712003

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<5.0		5.0		mg/L			05/08/23 12:35	1

Lab Sample ID: MB 500-712003/32
Matrix: Water
Analysis Batch: 712003

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<5.0		5.0		mg/L			05/08/23 12:44	1

Lab Sample ID: LCS 500-712003/17
Matrix: Water
Analysis Batch: 712003

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	19.2		mg/L		96	88 - 123

Method: SM 4500 SO4 E - Sulfate, Total (Continued)

Lab Sample ID: LCS 500-712003/34
Matrix: Water
Analysis Batch: 712003

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	19.4		mg/L		97	88 - 123		

Eurofins Chicago
241 Bond Street
University Park IL 60484
Phone 708-534-5200 Fax 708-534 5211

Chain of Custody Record

MKE 232

eurofins

Client Information	Sampler	Lab PM	Carrier Tracking No(s)	COC No
	[illegible] John Hoskeson	Mockler Diana J		500 111452-45943 1
Client Contact: Patrick Allenstein	Phone: 630-325-1300	E-Mail: Diana Mockler@et eurofinsus com	State of Origin	Page: Page 1 of 1
Company: KPRG and Associates Inc	PWSID			Job #: 500-232843
Address: 14665 West Lisbon Road Suite 1A	Due Date Requested			
City: Brookfield	TAT Requested (days)			
State Zip: WI 53005	Compliance Project: Δ Yes Δ No			
Phone	PO #: 4502116506			
Email: patricka@kprginc com	WO #			
Project Name: Will County 1N 1S Event Desc Quarterly GW Monitoring CCR	Project #: 50011609			
Site: Illinois	SSOW#			

500-232843 COC

Analysis Requested

Preservation Codes

A HCL
B NaOH
C Zn Acetate
D Nitric Acid
E NaHSO4
F MeOH
G Amchlor
H Ascorbic Acid
I Ice
J DI Water
K EDTA
L EDA
M Hexane
N None
O AsNaO2
P Na2O4S
Q Na2SO3
R Na2S2O3
S H2SO4
T TSP Dodecahydrate
U Acetone
V MCAA
W pH 4-5
Y Trizma
Z other (specify)

Other

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp G=grab)	Matrix (W=water S=solid O=waste/oil BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0 904.0	6010C 6020A 7470A	2540C 4500_F_C SM4500_Cl_E, SM4500_SO4_E	Total Number of containers	Special Instructions/Note
			Preservation Code:				D	D	N		
MW-01				Water							
MW 02				Water							
MW 03				Water							
MW 04				Water							
MW 07				Water							
MW 08				Water							
1 MW 09	4-26-23	12:21	G	Water	N	N	X	X	X	5	
2 MW 13	4-25-23	11:57	G	Water	N	N	X	X	X	5	
3 MW 14	4-25-23	12:50	G	Water	N	N	X	X	X	5	
4 MW 1	4-25-23	13:49	G	Water	N	N	X	X	X	5	
5 1N/1S Duplicate	4-25-23	—	G	Water	N	N	X	X	X	5	

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

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

Deliverable Requested I II III IV Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment
Relinquished by	Date/Time: 4-26-23 16:30	Company: KPRG	Received by: [illegible] Scott
Relinquished by	Date/Time	Company	Received by
Relinquished by	Date/Time	Company	Received by

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks: 5.1→5.0, 2.6→2.5, 3.1→3.0

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

Chain of Custody Record

MKE 232

eurofins

Client Information	Sampler: IAN JOHN HOWIESON	Lab PM: Mockler Diana J	Carrier Tracking No( ):	COC No: 500 111452-45943
Client Contact: Patrick Allenstein	Phone: 630-325-1300	E-Mail: Diana Mockler@et eurofinsus com	State of Origin:	Page: Page 1 of 1
Company: KPRG and Associates Inc	PWSID:			Job #: 500-232843
Address: 14665 West Lisbon Road Suite 1A	Due Date Requested			
City: Brookfield	TAT Requested (days)			
State Zip: WI 53005	Compliance Project: Yes No			
Phone	PO #: 4502116506			
Email: patricka@kprginc com	WO #:			
Project Name: Will County 1N 1S Event Desc Quarterly GW Monitoring CCR	Project #: 50011609			
Site: Illinois	SOW#:			

Analysis Requested

500-232843 COC

Preservation Codes
A HCL
B NaOH
C Zn Acetate
D Nitric Acid
E NaHSO4
F MeOH
G Amchlor
H Ascorbic Acid
I Ice
J DI Water
K EDTA
L EDA
M Hexane
N None
O AsNaO2
P Na2O4S
Q Na2SO3
R Na2S2O3
S H2SO4
T TSP Dodecahydrate
U Acetone
V MCAA
W pH 4 5
Y Trizma
Z other (specify)
Other

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0 904.0	6010C 6020A 7470A	2540C 4500_F_C SM4500_Cl_E, SM4500_SO4_E	Total Number of containers	Special Instructions/Note
				Preservation Code:				D	D	N		
6	MW-01	4-27-23	12:37	G	Water	N	N	X	X	X	5	
7	MW 02	4-27-23	14:02	G	Water	N	N	X	X	X	5	
8	MW 03	4-27-23	15:07	G	Water	N	N	X	X	X	5	
9	MW 04	4-27-23	16:34	G	Water	N	N	X	X	X	5	
10	MW 07	4-27-23	09:37	G	Water	N	N	X	X	X	5	
11	MW 08	4-27-23	11:04	G	Water	N	N	X	X	X	5	
	MW 09				Water							
	MW 13				Water							
	MW 14				Water							
	MW 15				Water							
	1N/1S Duplicate				Water							

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

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

Deliverable Requested I II III IV Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment
Relinquished by	Date/Time: 4-28-23 09:00	Company: KPRG	Received by: [signature] Date/Time: 4/28/23 0900 Company: EET
Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: Yes No | Custody Seal No | Cooler Temperature(s) °C and Other Remarks: 23+2.2, 0.9+1.3

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-232843-1

Login Number: 232843
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.0,2.5,3.0,2.2,1.3
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Lab Chronicle

Client: KPRG and Associates, Inc.
Project/Site: Will County CCR 1N/1S

Job ID: 500-232843-1

Client Sample ID: MW-09

Date Collected: 04/26/23 12:21
Date Received: 04/26/23 16:30

Lab Sample ID: 500-232843-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			712420	BDE	EET CHI	05/10/23 09:24 - 05/10/23 09:54 [1]
Total Recoverable	Analysis	6020A		1	712707	FXG	EET CHI	05/10/23 19:28
Total Recoverable	Prep	3005A			712420	BDE	EET CHI	05/10/23 09:24 - 05/10/23 09:54 [1]
Total Recoverable	Analysis	6020A		1	713622	FXG	EET CHI	05/16/23 16:22
Total/NA	Prep	7470A			713506	MJG	EET CHI	05/16/23 10:30 - 05/16/23 12:30 [1]
Total/NA	Analysis	7470A		1	713807	MJG	EET CHI	05/17/23 10:06
Total/NA	Analysis	SM 2540C		1	710989	CLB	EET CHI	05/02/23 17:57
Total/NA	Analysis	SM 4500 Cl- E		10	711786	MM	EET CHI	05/06/23 12:32
Total/NA	Analysis	SM 4500 F C		1	712501	EH	EET CHI	05/10/23 14:22
Total/NA	Analysis	SM 4500 SO4 E		20	712003	LP	EET CHI	05/08/23 13:06

Client Sample ID: MW-13

Date Collected: 04/25/23 11:57
Date Received: 04/26/23 16:30

Lab Sample ID: 500-232843-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			712420	BDE	EET CHI	05/10/23 09:24 - 05/10/23 09:54 [1]
Total Recoverable	Analysis	6020A		1	712707	FXG	EET CHI	05/10/23 19:32
Total Recoverable	Prep	3005A			712420	BDE	EET CHI	05/10/23 09:24 - 05/10/23 09:54 [1]
Total Recoverable	Analysis	6020A		1	713622	FXG	EET CHI	05/16/23 16:25
Total/NA	Prep	7470A			713506	MJG	EET CHI	05/16/23 10:30 - 05/16/23 12:30 [1]
Total/NA	Analysis	7470A		1	713807	MJG	EET CHI	05/17/23 10:08
Total/NA	Analysis	SM 2540C		1	710743	CLB	EET CHI	05/01/23 22:17
Total/NA	Analysis	SM 4500 Cl- E		10	711786	MM	EET CHI	05/06/23 13:03
Total/NA	Analysis	SM 4500 F C		1	712501	EH	EET CHI	05/10/23 14:22
Total/NA	Analysis	SM 4500 SO4 E		10	711406	MM	EET CHI	05/04/23 11:07

Client Sample ID: MW-14

Date Collected: 04/25/23 12:50
Date Received: 04/26/23 16:30

Lab Sample ID: 500-232843-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			712420	BDE	EET CHI	05/10/23 09:24 - 05/10/23 09:54 [1]
Total Recoverable	Analysis	6020A		1	712707	FXG	EET CHI	05/10/23 19:45
Total Recoverable	Prep	3005A			712420	BDE	EET CHI	05/10/23 09:24 - 05/10/23 09:54 [1]
Total Recoverable	Analysis	6020A		1	713622	FXG	EET CHI	05/16/23 16:28
Total/NA	Prep	7470A			713506	MJG	EET CHI	05/16/23 10:30 - 05/16/23 12:30 [1]
Total/NA	Analysis	7470A		1	713807	MJG	EET CHI	05/17/23 10:10
Total/NA	Analysis	SM 2540C		1	710743	CLB	EET CHI	05/01/23 22:20
Total/NA	Analysis	SM 4500 Cl- E		10	711786	MM	EET CHI	05/06/23 13:03
Total/NA	Analysis	SM 4500 F C		1	712501	EH	EET CHI	05/10/23 14:22
Total/NA	Analysis	SM 4500 SO4 E		20	711406	MM	EET CHI	05/04/23 11:08

Lab Chronicle

Client: KPRG and Associates, Inc.
Project/Site: Will County CCR 1N/1S

Job ID: 500-232843-1

Client Sample ID: MW-15
Date Collected: 04/25/23 13:49
Date Received: 04/26/23 16:30

Lab Sample ID: 500-232843-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			712420	BDE	EET CHI	05/10/23 09:24 - 05/10/23 09:54 [1]
Total Recoverable	Analysis	6020A		1	712707	FXG	EET CHI	05/10/23 19:49
Total Recoverable	Prep	3005A			712420	BDE	EET CHI	05/10/23 09:24 - 05/10/23 09:54 [1]
Total Recoverable	Analysis	6020A		1	713622	FXG	EET CHI	05/16/23 16:32
Total/NA	Prep	7470A			713506	MJG	EET CHI	05/16/23 10:30 - 05/16/23 12:30 [1]
Total/NA	Analysis	7470A		1	713807	MJG	EET CHI	05/17/23 10:12
Total/NA	Analysis	SM 2540C		1	710743	CLB	EET CHI	05/01/23 22:22
Total/NA	Analysis	SM 4500 Cl- E		10	711786	MM	EET CHI	05/06/23 13:04
Total/NA	Analysis	SM 4500 F C		1	712501	EH	EET CHI	05/10/23 14:22
Total/NA	Analysis	SM 4500 SO4 E		20	711406	MM	EET CHI	05/04/23 11:08

Client Sample ID: 1N/1S Duplicate
Date Collected: 04/25/23 00:00
Date Received: 04/26/23 16:30

Lab Sample ID: 500-232843-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			712420	BDE	EET CHI	05/10/23 09:24 - 05/10/23 09:54 [1]
Total Recoverable	Analysis	6020A		1	712707	FXG	EET CHI	05/10/23 19:53
Total Recoverable	Prep	3005A			712420	BDE	EET CHI	05/10/23 09:24 - 05/10/23 09:54 [1]
Total Recoverable	Analysis	6020A		1	713622	FXG	EET CHI	05/16/23 16:35
Total/NA	Prep	7470A			713506	MJG	EET CHI	05/16/23 10:30 - 05/16/23 12:30 [1]
Total/NA	Analysis	7470A		1	713807	MJG	EET CHI	05/17/23 10:24
Total/NA	Analysis	SM 2540C		1	710743	CLB	EET CHI	05/01/23 22:25
Total/NA	Analysis	SM 4500 Cl- E		5	711786	MM	EET CHI	05/06/23 13:04
Total/NA	Analysis	SM 4500 F C		1	712501	EH	EET CHI	05/10/23 14:22
Total/NA	Analysis	SM 4500 SO4 E		20	711406	MM	EET CHI	05/04/23 11:08

Client Sample ID: MW-01
Date Collected: 04/27/23 12:37
Date Received: 04/28/23 09:00

Lab Sample ID: 500-232843-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			712420	BDE	EET CHI	05/10/23 09:24 - 05/10/23 09:54 [1]
Total Recoverable	Analysis	6020A		1	712707	FXG	EET CHI	05/10/23 19:57
Total Recoverable	Prep	3005A			712420	BDE	EET CHI	05/10/23 09:24 - 05/10/23 09:54 [1]
Total Recoverable	Analysis	6020A		1	713622	FXG	EET CHI	05/16/23 16:38
Total/NA	Prep	7470A			713506	MJG	EET CHI	05/16/23 10:30 - 05/16/23 12:30 [1]
Total/NA	Analysis	7470A		1	713807	MJG	EET CHI	05/17/23 10:26
Total/NA	Analysis	SM 2540C		1	710989	CLB	EET CHI	05/02/23 17:59
Total/NA	Analysis	SM 4500 Cl- E		5	711786	MM	EET CHI	05/06/23 12:40
Total/NA	Analysis	SM 4500 F C		1	712501	EH	EET CHI	05/10/23 14:22
Total/NA	Analysis	SM 4500 SO4 E		20	712003	LP	EET CHI	05/08/23 13:07

Client Sample ID: MW-02

Lab Sample ID: 500-232843-7

Date Collected: 04/27/23 14:02

Matrix: Water

Date Received: 04/28/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			712420	BDE	EET CHI	05/10/23 09:24 - 05/10/23 09:54 [1]
Total Recoverable	Analysis	6020A		1	712707	FXG	EET CHI	05/10/23 20:01
Total Recoverable	Prep	3005A			712420	BDE	EET CHI	05/10/23 09:24 - 05/10/23 09:54 [1]
Total Recoverable	Analysis	6020A		1	713622	FXG	EET CHI	05/16/23 16:42
Total/NA	Prep	7470A			713506	MJG	EET CHI	05/16/23 10:30 - 05/16/23 12:30 [1]
Total/NA	Analysis	7470A		1	713807	MJG	EET CHI	05/17/23 10:28
Total/NA	Analysis	SM 2540C		1	710989	CLB	EET CHI	05/02/23 18:02
Total/NA	Analysis	SM 4500 Cl- E		1	711786	MM	EET CHI	05/06/23 12:29
Total/NA	Analysis	SM 4500 F C		1	712501	EH	EET CHI	05/10/23 14:22
Total/NA	Analysis	SM 4500 SO4 E		50	712003	LP	EET CHI	05/08/23 13:07

Client Sample ID: MW-03

Lab Sample ID: 500-232843-8

Date Collected: 04/27/23 15:07

Matrix: Water

Date Received: 04/28/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			712420	BDE	EET CHI	05/10/23 09:24 - 05/10/23 09:54 [1]
Total Recoverable	Analysis	6020A		1	712707	FXG	EET CHI	05/10/23 20:05
Total Recoverable	Prep	3005A			712420	BDE	EET CHI	05/10/23 09:24 - 05/10/23 09:54 [1]
Total Recoverable	Analysis	6020A		1	713622	FXG	EET CHI	05/16/23 16:45
Total/NA	Prep	7470A			713506	MJG	EET CHI	05/16/23 10:30 - 05/16/23 12:30 [1]
Total/NA	Analysis	7470A		1	713807	MJG	EET CHI	05/17/23 10:31
Total/NA	Analysis	SM 2540C		1	710989	CLB	EET CHI	05/02/23 18:04
Total/NA	Analysis	SM 4500 Cl- E		2	711786	MM	EET CHI	05/06/23 13:04
Total/NA	Analysis	SM 4500 F C		1	712501	EH	EET CHI	05/10/23 14:22
Total/NA	Analysis	SM 4500 SO4 E		20	712003	LP	EET CHI	05/08/23 12:44

Client Sample ID: MW-04

Lab Sample ID: 500-232843-9

Date Collected: 04/27/23 16:34

Matrix: Water

Date Received: 04/28/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			712420	BDE	EET CHI	05/10/23 09:24 - 05/10/23 09:54 [1]
Total Recoverable	Analysis	6020A		1	712707	FXG	EET CHI	05/10/23 20:09
Total Recoverable	Prep	3005A			712420	BDE	EET CHI	05/10/23 09:24 - 05/10/23 09:54 [1]
Total Recoverable	Analysis	6020A		1	713622	FXG	EET CHI	05/16/23 16:56
Total Recoverable	Prep	3005A			712420	BDE	EET CHI	05/10/23 09:24 - 05/10/23 09:54 [1]
Total Recoverable	Analysis	6020A		10	713622	FXG	EET CHI	05/16/23 16:59
Total/NA	Prep	7470A			713506	MJG	EET CHI	05/16/23 10:30 - 05/16/23 12:30 [1]
Total/NA	Analysis	7470A		1	713807	MJG	EET CHI	05/17/23 10:33
Total/NA	Analysis	SM 2540C		1	710989	CLB	EET CHI	05/02/23 18:07
Total/NA	Analysis	SM 4500 Cl- E		2	711786	MM	EET CHI	05/06/23 12:34
Total/NA	Analysis	SM 4500 F C		1	712501	EH	EET CHI	05/10/23 14:22
Total/NA	Analysis	SM 4500 SO4 E		100	712003	LP	EET CHI	05/08/23 12:44

Lab Chronicle

Client: KPRG and Associates, Inc.
Project/Site: Will County CCR 1N/1S

Job ID: 500-232843-1

Client Sample ID: MW-07

Lab Sample ID: 500-232843-10

Date Collected: 04/27/23 09:37

Matrix: Water

Date Received: 04/28/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			712420	BDE	EET CHI	05/10/23 09:24 - 05/10/23 09:54 [1]
Total Recoverable	Analysis	6020A		1	712707	FXG	EET CHI	05/10/23 20:13
Total Recoverable	Prep	3005A			712420	BDE	EET CHI	05/10/23 09:24 - 05/10/23 09:54 [1]
Total Recoverable	Analysis	6020A		1	713622	FXG	EET CHI	05/16/23 17:03
Total/NA	Prep	7470A			713506	MJG	EET CHI	05/16/23 10:30 - 05/16/23 12:30 [1]
Total/NA	Analysis	7470A		1	713807	MJG	EET CHI	05/17/23 10:35
Total/NA	Analysis	SM 2540C		1	710989	CLB	EET CHI	05/02/23 18:10
Total/NA	Analysis	SM 4500 Cl- E		10	711786	MM	EET CHI	05/06/23 12:34
Total/NA	Analysis	SM 4500 F C		1	712501	EH	EET CHI	05/10/23 14:22
Total/NA	Analysis	SM 4500 SO4 E		50	712003	LP	EET CHI	05/08/23 12:45

Client Sample ID: MW-08

Lab Sample ID: 500-232843-11

Date Collected: 04/27/23 11:04

Matrix: Water

Date Received: 04/28/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			712420	BDE	EET CHI	05/10/23 09:24 - 05/10/23 09:54 [1]
Total Recoverable	Analysis	6020A		1	712707	FXG	EET CHI	05/10/23 20:17
Total Recoverable	Prep	3005A			712420	BDE	EET CHI	05/10/23 09:24 - 05/10/23 09:54 [1]
Total Recoverable	Analysis	6020A		1	713622	FXG	EET CHI	05/16/23 17:06
Total/NA	Prep	7470A			713506	MJG	EET CHI	05/16/23 10:30 - 05/16/23 12:30 [1]
Total/NA	Analysis	7470A		1	713807	MJG	EET CHI	05/17/23 10:37
Total/NA	Analysis	SM 2540C		1	710989	CLB	EET CHI	05/02/23 18:12
Total/NA	Analysis	SM 4500 Cl- E		20	711786	MM	EET CHI	05/06/23 12:34
Total/NA	Analysis	SM 4500 F C		1	712501	EH	EET CHI	05/10/23 14:22
Total/NA	Analysis	SM 4500 SO4 E		50	712003	LP	EET CHI	05/08/23 13:07

[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: Will County CCR 1N/1S

Job ID: 500-232843-1

Laboratory: Eurofins Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-23 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 5/31/2023 3:05:07 PM

JOB DESCRIPTION

Will County CCR 1N/1S (RAD)

JOB NUMBER

500-232843-2

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

Job Notes

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

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

Authorization

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Authorized for release by
Diana Mockler, Project Manager I
Diana.Mockler@et.eurofinsus.com
(219)252-7570

Table of Contents

Job ID: 500-232843-2

Laboratory: Eurofins Chicago

Narrative

Job Narrative
500-232843-2

Receipt
The samples were received on 4/26/2023 4:30 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 5 coolers at receipt time were 1.3º C, 2.2º C, 2.5º C, 3.0º C and 5.0º C.

RAD
Method 903.0: Radium-226 prep batch 160-610447:

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.MW-09 (500-232843-1), MW-13 (500-232843-2), MW-14 (500-232843-3), MW-15 (500-232843-4), 1N/1S Duplicate (500-232843-5), (LCS 160-610447/2-A), (MB 160-610447/1-A) and (500-232843-C-5-B DU)

Methods 903.0, 9315: Radium-226 prep batch 160-610605:

The following samples were inadvertently prepped in a batch with 21 physical samples. The data is being reported with this narrative. MW-01 (500-232843-6), MW-02 (500-232843-7), MW-03 (500-232843-8), MW-04 (500-232843-9), MW-07 (500-232843-10), MW-08 (500-232843-11), (LCS 160-610605/2-A), (MB 160-610605/1-A) and (500-232843-C-11-B DU)

Methods 903.0, 9315: Radium-226 prep batch 160-610605:

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.MW-01 (500-232843-6), MW-02 (500-232843-7), MW-03 (500-232843-8), MW-04 (500-232843-9), MW-07 (500-232843-10), MW-08 (500-232843-11), (LCS 160-610605/2-A), (MB 160-610605/1-A) and (500-232843-C-11-B DU)

Method 904.0: Radium-228 prep batch 160-610459:

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.
MW-09 (500-232843-1), MW-13 (500-232843-2), MW-14 (500-232843-3), MW-15 (500-232843-4), 1N/1S Duplicate (500-232843-5), (LCS 160-610459/2-A), (MB 160-610459/1-A) and (500-232843-C-5-C DU)

Methods 904.0, 9320: Radium-228 prep batch 160-610627:

The following samples were inadvertently prepped in a batch with 21 physical samples. The data is being reported with this narrative. MW-01 (500-232843-6), MW-02 (500-232843-7), MW-03 (500-232843-8), MW-04 (500-232843-9), MW-07 (500-232843-10), MW-08 (500-232843-11), (LCS 160-610627/2-A), (MB 160-610627/1-A) and (500-232843-C-11-C DU)

Methods 904.0, 9320: Radium-228 prep batch 160-610627:

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.MW-01 (500-232843-6), MW-02 (500-232843-7), MW-03 (500-232843-8), MW-04 (500-232843-9), MW-07 (500-232843-10), MW-08 (500-232843-11), (LCS 160-610627/2-A), (MB 160-610627/1-A) and (500-232843-C-11-C DU)

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

Method Summary

Client: KPRG and Associates, Inc.
Project/Site: Will County CCR 1N/1S (RAD)

Job ID: 500-232843-2

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: Will County CCR 1N/1S (RAD)

Job ID: 500-232843-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-232843-1	MW-09	Water	04/26/23 12:21	04/26/23 16:30
500-232843-2	MW-13	Water	04/25/23 11:57	04/26/23 16:30
500-232843-3	MW-14	Water	04/25/23 12:50	04/26/23 16:30
500-232843-4	MW-15	Water	04/25/23 13:49	04/26/23 16:30
500-232843-5	1N/1S Duplicate	Water	04/25/23 00:00	04/26/23 16:30
500-232843-6	MW-01	Water	04/27/23 12:37	04/28/23 09:00
500-232843-7	MW-02	Water	04/27/23 14:02	04/28/23 09:00
500-232843-8	MW-03	Water	04/27/23 15:07	04/28/23 09:00
500-232843-9	MW-04	Water	04/27/23 16:34	04/28/23 09:00
500-232843-10	MW-07	Water	04/27/23 09:37	04/28/23 09:00
500-232843-11	MW-08	Water	04/27/23 11:04	04/28/23 09:00

Client Sample ID: MW-09

Date Collected: 04/26/23 12:21
Date Received: 04/26/23 16:30

Lab Sample ID: 500-232843-1

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	0.0134	U	0.0858	0.0859	1.00	0.163	pCi/L	05/08/23 10:29	05/31/23 08:16	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.2*		*30 - 110*	*05/08/23 10:29*	*05/31/23 08:16*	*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	0.123	U	0.313	0.313	1.00	0.554	pCi/L	05/08/23 10:54	05/25/23 15:48	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.2*		*30 - 110*	*05/08/23 10:54*	*05/25/23 15:48*	*1*
Y Carrier	*77.0*		*30 - 110*	*05/08/23 10:54*	*05/25/23 15:48*	*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	0.136	U	0.325	0.325	5.00	0.554	pCi/L		05/31/23 14:19	1

Client Sample ID: MW-13

Date Collected: 04/25/23 11:57
Date Received: 04/26/23 16:30

Lab Sample ID: 500-232843-2

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	0.114	U	0.114	0.114	1.00	0.178	pCi/L	05/08/23 10:29	05/31/23 08:16	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.3*		*30 - 110*	*05/08/23 10:29*	*05/31/23 08:16*	*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	-0.143	U	0.351	0.352	1.00	0.721	pCi/L	05/08/23 10:54	05/25/23 15:49	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.3*		*30 - 110*	*05/08/23 10:54*	*05/25/23 15:49*	*1*
Y Carrier	*71.8*		*30 - 110*	*05/08/23 10:54*	*05/25/23 15:49*	*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	-0.0285	U	0.369	0.370	5.00	0.721	pCi/L		05/31/23 14:19	1

Client Sample ID: MW-14

Date Collected: 04/25/23 12:50
Date Received: 04/26/23 16:30

Lab Sample ID: 500-232843-3

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	0.357		0.129	0.133	1.00	0.136	pCi/L	05/08/23 10:29	05/31/23 08:16	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.2*		*30 - 110*	*05/08/23 10:29*	*05/31/23 08:16*	*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	0.144	U	0.307	0.307	1.00	0.536	pCi/L	05/08/23 10:54	05/25/23 15:49	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.2*		*30 - 110*	*05/08/23 10:54*	*05/25/23 15:49*	*1*
Y Carrier	*77.8*		*30 - 110*	*05/08/23 10:54*	*05/25/23 15:49*	*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	0.501	U	0.333	0.335	5.00	0.536	pCi/L		05/31/23 14:19	1

Client Sample ID: MW-15

Date Collected: 04/25/23 13:49
Date Received: 04/26/23 16:30

Lab Sample ID: 500-232843-4

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	0.258		0.126	0.128	1.00	0.157	pCi/L	05/08/23 10:29	05/31/23 10:19	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.7*		*30 - 110*	*05/08/23 10:29*	*05/31/23 10:19*	*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	0.212	U	0.300	0.300	1.00	0.504	pCi/L	05/08/23 10:54	05/25/23 15:49	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.7*		*30 - 110*	*05/08/23 10:54*	*05/25/23 15:49*	*1*
Y Carrier	*83.4*		*30 - 110*	*05/08/23 10:54*	*05/25/23 15:49*	*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	0.471	U	0.325	0.326	5.00	0.504	pCi/L		05/31/23 14:19	1

Client Sample ID: 1N/1S Duplicate

Date Collected: 04/25/23 00:00
Date Received: 04/26/23 16:30

Lab Sample ID: 500-232843-5

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	**0.292**		0.113	0.116	1.00	0.117	pCi/L	05/08/23 10:29	05/31/23 10:19	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*94.9*		*30 - 110*	*05/08/23 10:29*	*05/31/23 10:19*	*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	0.339	U	0.305	0.306	1.00	0.481	pCi/L	05/08/23 10:54	05/25/23 15:49	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*94.9*		*30 - 110*	*05/08/23 10:54*	*05/25/23 15:49*	*1*
Y Carrier	*82.2*		*30 - 110*	*05/08/23 10:54*	*05/25/23 15:49*	*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	**0.631**		0.325	0.327	5.00	0.481	pCi/L		05/31/23 14:19	1

Client Sample ID: MW-01

Date Collected: 04/27/23 12:37
Date Received: 04/28/23 09:00

Lab Sample ID: 500-232843-6

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	0.132	U	0.101	0.101	1.00	0.147	pCi/L	05/08/23 12:36	05/31/23 10:11	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.8*		*30 - 110*	*05/08/23 12:36*	*05/31/23 10:11*	*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	**0.693**		0.357	0.362	1.00	0.490	pCi/L	05/08/23 14:26	05/26/23 15:56	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.8*		*30 - 110*	*05/08/23 14:26*	*05/26/23 15:56*	*1*
Y Carrier	*82.2*		*30 - 110*	*05/08/23 14:26*	*05/26/23 15:56*	*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	**0.824**		0.371	0.376	5.00	0.490	pCi/L		05/31/23 14:19	1

Client Sample ID: MW-02

Date Collected: 04/27/23 14:02
Date Received: 04/28/23 09:00

Lab Sample ID: 500-232843-7

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	**0.239**		0.128	0.130	1.00	0.156	pCi/L	05/08/23 12:36	05/31/23 10:12	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*69.1*		*30 - 110*	*05/08/23 12:36*	*05/31/23 10:12*	*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	0.723	U	0.497	0.502	1.00	0.752	pCi/L	05/08/23 14:26	05/26/23 15:56	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*69.1*		*30 - 110*	*05/08/23 14:26*	*05/26/23 15:56*	*1*
Y Carrier	*80.0*		*30 - 110*	*05/08/23 14:26*	*05/26/23 15:56*	*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	**0.961**		0.513	0.519	5.00	0.752	pCi/L		05/31/23 14:19	1

Client Sample ID: MW-03

Date Collected: 04/27/23 15:07
Date Received: 04/28/23 09:00

Lab Sample ID: 500-232843-8

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	0.284		0.113	0.116	1.00	0.115	pCi/L	05/08/23 12:36	05/31/23 10:12	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*96.4*		*30 - 110*	*05/08/23 12:36*	*05/31/23 10:12*	*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	0.838		0.359	0.367	1.00	0.470	pCi/L	05/08/23 14:26	05/26/23 15:56	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*96.4*		*30 - 110*	*05/08/23 14:26*	*05/26/23 15:56*	*1*
Y Carrier	*82.6*		*30 - 110*	*05/08/23 14:26*	*05/26/23 15:56*	*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		0.376	0.385	5.00	0.470	pCi/L		05/31/23 14:19	1

Client Sample ID: MW-04

Date Collected: 04/27/23 16:34
Date Received: 04/28/23 09:00

Lab Sample ID: 500-232843-9

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	0.120		0.0848	0.0855	1.00	0.114	pCi/L	05/08/23 12:36	05/31/23 10:12	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.1*		*30 - 110*	*05/08/23 12:36*	*05/31/23 10:12*	*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	1.07		0.400	0.412	1.00	0.494	pCi/L	05/08/23 14:26	05/26/23 15:57	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.1*		*30 - 110*	*05/08/23 14:26*	*05/26/23 15:57*	*1*
Y Carrier	*83.7*		*30 - 110*	*05/08/23 14:26*	*05/26/23 15:57*	*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	1.19		0.409	0.421	5.00	0.494	pCi/L		05/31/23 14:19	1

Client Sample ID: MW-07

Date Collected: 04/27/23 09:37
Date Received: 04/28/23 09:00

Lab Sample ID: 500-232843-10

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	0.193		0.112	0.114	1.00	0.145	pCi/L	05/08/23 12:36	05/31/23 10:12	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*84.2*		*30 - 110*	*05/08/23 12:36*	*05/31/23 10:12*	*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	0.256	U	0.339	0.340	1.00	0.566	pCi/L	05/08/23 14:26	05/26/23 15:57	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*84.2*		*30 - 110*	*05/08/23 14:26*	*05/26/23 15:57*	*1*
Y Carrier	*71.4*		*30 - 110*	*05/08/23 14:26*	*05/26/23 15:57*	*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	0.449	U	0.357	0.359	5.00	0.566	pCi/L		05/31/23 14:19	1

Client: KPRG and Associates, Inc.
Project/Site: Will County CCR 1N/1S (RAD)

Job ID: 500-232843-2

Client Sample ID: MW-08

Date Collected: 04/27/23 11:04
Date Received: 04/28/23 09:00

Lab Sample ID: 500-232843-11

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	0.0979	U	0.0980	0.0984	1.00	0.152	pCi/L	05/08/23 12:36	05/31/23 10:13	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*72.5*		*30 - 110*	*05/08/23 12:36*	*05/31/23 10:13*	*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	0.499	U	0.418	0.421	1.00	0.654	pCi/L	05/08/23 14:26	05/26/23 15:57	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*72.5*		*30 - 110*	*05/08/23 14:26*	*05/26/23 15:57*	*1*
Y Carrier	*81.1*		*30 - 110*	*05/08/23 14:26*	*05/26/23 15:57*	*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	0.597	U	0.429	0.432	5.00	0.654	pCi/L		05/31/23 14:19	1

Definitions/Glossary

Client: KPRG and Associates, Inc. Job ID: 500-232843-2
Project/Site: Will County CCR 1N/1S (RAD)

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.
¤	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

Rad

Prep Batch: 610447

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-232843-1	MW-09	Total/NA	Water	PrecSep-21	
500-232843-2	MW-13	Total/NA	Water	PrecSep-21	
500-232843-3	MW-14	Total/NA	Water	PrecSep-21	
500-232843-4	MW-15	Total/NA	Water	PrecSep-21	
500-232843-5	1N/1S Duplicate	Total/NA	Water	PrecSep-21	
MB 160-610447/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-610447/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-232843-5 DU	1N/1S Duplicate	Total/NA	Water	PrecSep-21	

Prep Batch: 610459

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-232843-1	MW-09	Total/NA	Water	PrecSep_0	
500-232843-2	MW-13	Total/NA	Water	PrecSep_0	
500-232843-3	MW-14	Total/NA	Water	PrecSep_0	
500-232843-4	MW-15	Total/NA	Water	PrecSep_0	
500-232843-5	1N/1S Duplicate	Total/NA	Water	PrecSep_0	
MB 160-610459/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-610459/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-232843-5 DU	1N/1S Duplicate	Total/NA	Water	PrecSep_0	

Prep Batch: 610605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-232843-6	MW-01	Total/NA	Water	PrecSep-21	
500-232843-7	MW-02	Total/NA	Water	PrecSep-21	
500-232843-8	MW-03	Total/NA	Water	PrecSep-21	
500-232843-9	MW-04	Total/NA	Water	PrecSep-21	
500-232843-10	MW-07	Total/NA	Water	PrecSep-21	
500-232843-11	MW-08	Total/NA	Water	PrecSep-21	
MB 160-610605/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-610605/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-232843-11 DU	MW-08	Total/NA	Water	PrecSep-21	

Prep Batch: 610627

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-232843-6	MW-01	Total/NA	Water	PrecSep_0	
500-232843-7	MW-02	Total/NA	Water	PrecSep_0	
500-232843-8	MW-03	Total/NA	Water	PrecSep_0	
500-232843-9	MW-04	Total/NA	Water	PrecSep_0	
500-232843-10	MW-07	Total/NA	Water	PrecSep_0	
500-232843-11	MW-08	Total/NA	Water	PrecSep_0	
MB 160-610627/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-610627/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-232843-11 DU	MW-08	Total/NA	Water	PrecSep_0	

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-610447/1-A
Matrix: Water
Analysis Batch: 613861

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 610447

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0000	U	0.0560	0.0560	1.00	0.117	pCi/L	05/08/23 10:29	05/31/23 08:13	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*95.4*		*30 - 110*	*05/08/23 10:29*	*05/31/23 08:13*	*1*

Lab Sample ID: LCS 160-610447/2-A
Matrix: Water
Analysis Batch: 613861

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 610447

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			11.3	10.16		1.09	1.00	0.123	pCi/L	90	75 - 113		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*94.4*		*30 - 110*

Lab Sample ID: 500-232843-5 DU
Matrix: Water
Analysis Batch: 613861

Client Sample ID: 1N/1S Duplicate
Prep Type: Total/NA
Prep Batch: 610447

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-226	0.292			0.2120		0.112	1.00	0.140	pCi/L			0.35	1

Carrier	*DU %Yield*	*DU Qualifier*	*Limits*
Ba Carrier	*101*		*30 - 110*

Lab Sample ID: MB 160-610605/1-A
Matrix: Water
Analysis Batch: 613860

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 610605

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.02984	U	0.0610	0.0610	1.00	0.112	pCi/L	05/08/23 12:36	05/31/23 10:11	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.5*		*30 - 110*	*05/08/23 12:36*	*05/31/23 10:11*	*1*

Lab Sample ID: LCS 160-610605/2-A
Matrix: Water
Analysis Batch: 613860

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 610605

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			11.3	10.82		1.16	1.00	0.169	pCi/L	95	75 - 113		

Method: 903.0 - Radium-226 (GFPC) (Continued)

Lab Sample ID: LCS 160-610605/2-A
Matrix: Water
Analysis Batch: 613860

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 610605

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	93.4		30 - 110

Lab Sample ID: 500-232843-11 DU
Matrix: Water
Analysis Batch: 613860

Client Sample ID: MW-08
Prep Type: Total/NA
Prep Batch: 610605

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-226	0.0979	U		0.1142	U	0.0920	1.00	0.132	pCi/L			0.09	1

Carrier	DU %Yield	DU Qualifier	Limits
Ba Carrier	86.4		30 - 110

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-610459/1-A
Matrix: Water
Analysis Batch: 613105

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 610459

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.1797	U	0.301	0.301	1.00	0.513	pCi/L	05/08/23 10:54	05/25/23 15:45	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	95.4		30 - 110	05/08/23 10:54	05/25/23 15:45	1
Y Carrier	85.2		30 - 110	05/08/23 10:54	05/25/23 15:45	1

Lab Sample ID: LCS 160-610459/2-A
Matrix: Water
Analysis Batch: 613105

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 610459

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			8.17	7.218		1.03	1.00	0.456	pCi/L	88	75 - 125		

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	94.4		30 - 110
Y Carrier	84.1		30 - 110

Lab Sample ID: 500-232843-5 DU
Matrix: Water
Analysis Batch: 613238

Client Sample ID: 1N/1S Duplicate
Prep Type: Total/NA
Prep Batch: 610459

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-228	0.339	U		0.3753	U	0.297	1.00	0.453	pCi/L			0.06	1

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

Lab Sample ID: 500-232843-5 DU
Matrix: Water
Analysis Batch: 613238

Client Sample ID: 1N/1S Duplicate
Prep Type: Total/NA
Prep Batch: 610459

Carrier	DU %Yield	DU Qualifier	Limits
Ba Carrier	101		30 - 110
Y Carrier	82.6		30 - 110

Lab Sample ID: MB 160-610627/1-A
Matrix: Water
Analysis Batch: 613346

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 610627

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.2432	U	0.329	0.329	1.00	0.550	pCi/L	05/08/23 14:26	05/26/23 15:56	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	90.5		30 - 110	05/08/23 14:26	05/26/23 15:56	1
Y Carrier	80.7		30 - 110	05/08/23 14:26	05/26/23 15:56	1

Lab Sample ID: LCS 160-610627/2-A
Matrix: Water
Analysis Batch: 613346

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 610627

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			8.17	9.087		1.24	1.00	0.456	pCi/L	111	75 - 125		

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	93.4		30 - 110
Y Carrier	81.1		30 - 110

Lab Sample ID: 500-232843-11 DU
Matrix: Water
Analysis Batch: 613346

Client Sample ID: MW-08
Prep Type: Total/NA
Prep Batch: 610627

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-228	0.499	U		0.1558	U	0.336	1.00	0.585	pCi/L			0.45	1

Carrier	DU %Yield	DU Qualifier	Limits
Ba Carrier	86.4		30 - 110
Y Carrier	80.7		30 - 110

Eurofins Chicago
241 Bond Street
University Park IL 60484
Phone 708-534-5200 Fax 708-534 5211

Chain of Custody Record

MKE 232

eurofins

Client Information	Sampler	Lab PM	Carrier Tracking No(s)	COC No
	[illegible]	Mockler Diana J		500 111452-45943 1
Client Contact: Patrick Allenstein	Phone: 630-325-1300	E-Mail: Diana Mockler@et eurofinsus com	State of Origin	Page: Page 1 of 1
Company: KPRG and Associates Inc	PWSID			Job #: 500-232843
Address: 14665 West Lisbon Road Suite 1A	Due Date Requested			
City: Brookfield	TAT Requested (days)			
State Zip: WI 5300[illegible]	Compliance Project: Δ Yes Δ No			
Phone	PO #: 4502116506			
Email: patricka@kprginc com	WO #			
Project Name: Will County 1N 1S Event Desc Quarterly GW Monitoring CCR	Project #: 50011609			
Site: Illinois	SSOW#			

500-232843 COC

Analysis Requested

Preservation Codes

A HCL
B NaOH
C Zn Acetate
D Nitric Acid
E NaHSO4
F MeOH
G Amchlor
H Ascorbic Acid
I Ice
J DI Water
K EDTA
L EDA
M Hexane
N None
O AsNaO2
P Na2O4S
Q Na2SO3
R Na2S2O3
S H2SO4
T TSP Dodecahydrate
U Acetone
V MCAA
W pH 4-5
Y Trizma
Z other (specify)

Other

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp G=grab)	Matrix (W=water S=solid O=waste/oil BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0 904.0	6010C 6020A 7470A	2540C 4500_F_C SM4500_Cl_E, SM4500_SO4_E	Total Number of containers	Special Instructions/Note
			Preservation Code:				D	D	N		
MW-01				Water							
MW 02				Water							
MW 03				Water							
MW 04				Water							
MW 07				Water							
MW 08				Water							
1 MW 09	4-26-23	12:21	G	Water	N	N	X	X	X	5	
2 MW 13	4-25-23	11:57	G	Water	N	N	X	X	X	5	
3 MW 14	4-25-23	12:50	G	Water	N	N	X	X	X	5	
4 MW 1	4-25-23	13:49	G	Water	N	N	X	X	X	5	
5 1N/1S Duplicate	4-25-23	—	G	Water	N	N	X	X	X	5	

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

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

Deliverable Requested I II III IV Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment
Relinquished by	Date/Time: 4-26-23 16:30	Company: KPRG	Received by: [illegible] Date/Time: 4/26/23 1630 Company: EEA
Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No

Cooler Temperature(s) °C and Other Remarks: 5.1→5.0, 2.6→2.5, 3.1→3.0

Ver: 06/08/2017

5/31/2023

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

Chain of Custody Record

MKE 232

eurofins

Client Information	Sampler: IAN JOHN HOWIESON	Lab PM: Mockler Diana J	Carrier Tracking No(s):	COC No: 500 111452-45943
Client Contact: Patrick Allenstein	Phone: 630-325-1300	E-Mail: Diana Mockler@et eurofinsus com	State of Origin:	Page: Page 1 of 1
Company: KPRG and Associates Inc	PWSID:			Job #: 500-232843
Address: 14665 West Lisbon Road Suite 1A	Due Date Requested:			
City: Brookfield	TAT Requested (days):			
State Zip: WI 53005	Compliance Project: Yes No			
Phone:	PO #: 4502116506			
Email: patricka@kprginc com	WO #:			
Project Name: Will County 1N 1S Event Desc Quarterly GW Monitoring CCR	Project #: 50011609			
Site: Illinois	SOW#:			

Analysis Requested

500-232843 COC

Preservation Codes

A HCL
B NaOH
C Zn Acetate
D Nitric Acid
E NaHSO4
F MeOH
G Amchlor
H Ascorbic Acid
I Ice
J DI Water
K EDTA
L EDA
M Hexane
N None
O AsNaO2
P Na2O4S
Q Na2SO3
R Na2S2O3
S H2SO4
T TSP Dodecahydrate
U Acetone
V MCAA
W pH 4 5
Y Trizma
Z other (specify)

Other

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0 904.0	6010C 6020A 7470A	2540C 4500_F_C SM4500_Cl_E, SM4500_SO4_E	Total Number of containers	Special Instructions/Note
				Preservation Code:				D	D	N		
6	MW-01	4-27-23	12:37	G	Water	N	N	X	X	X	5	
7	MW 02	4-27-23	14:02	G	Water	N	N	X	X	X	5	
8	MW 03	4-27-23	15:07	G	Water	N	N	X	X	X	5	
9	MW 04	4-27-23	16:34	G	Water	N	N	X	X	X	5	
10	MW 07	4-27-23	09:37	G	Water	N	N	X	X	X	5	
11	MW 08	4-27-23	11:04	G	Water	N	N	X	X	X	5	
	MW 09				Water							
	MW 13				Water							
	MW 14				Water							
	MW 15				Water							
	1N/1S Duplicate				Water							

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

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

Deliverable Requested: I II III IV Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by:	Date	Time	Method of Shipment
Relinquished by:	Date/Time: 4-28-23 09:00	Company: KPRG	Received by: [signature] Date/Time: 4/28/23 0900 Company: EET
Relinquished by:	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: Yes No | Custody Seal No: | Cooler Temperature(s) °C and Other Remarks: 23+2.2, 0.9+1.3

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 (Sub Contract Lab)	Sampler:	Lab PM: Mockler, Diana J	Carrier Tracking No(s):	COC No: 500-173302.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Diana.Mockler@et.eurofinsus.com	State of Origin: Illinois	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #: 500-232843-2
Address: 13715 Rider Trail North, ,	Due Date Requested: 5/24/2023			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: Will County CCR 1N/1S (RAD)	Project #: 50011609			
Site: NRG Midwest Generation Will County	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PrecSep_21 Standard Target List	904.0/PrecSep_0 Standard Target List	Ra226Ra228_GFPC	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
MW-09 (500-232843-1)	4/26/23	12:21 Central		Water			X	X	X	3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;
MW-13 (500-232843-2)	4/25/23	11:57 Central		Water			X	X	X	3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;
MW-14 (500-232843-3)	4/25/23	12:50 Central		Water			X	X	X	3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;
MW-15 (500-232843-4)	4/25/23	13:49 Central		Water			X	X	X	3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;
1N/1S Duplicate (500-232843-5)	4/25/23	Central		Water			X	X	X	3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;
										(5)	

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	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

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

Relinquished by: [signature]	Date/Time: 4/27/23 1615	Company	Received by: fedex	Date/Time:	Company
Relinquished by: fedex	Date/Time:	Company	Received by: [illegible] Shadeed - Hazen	Date/Time: 4/28/23 0830	Company ETAS IL
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

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 (Sub Contract Lab)	Sampler:	Lab PM: Mockler, Diana J	Carrier Tracking No(s):	COC No: 500-173391.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Diana.Mockler@et.eurofinsus.com	State of Origin: Illinois	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #: 500-232843-2
Address: 13715 Rider Trail North, ,	Due Date Requested: 5/17/2023			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: Will County CCR 1N/1S (RAD)	Project #: 50011609			
Site: NRG Midwest Generation Will County	SSOW#:			

Preservation Codes:
A - HCl, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PrecSep_21 Standard Target List	904.0/PrecSep_0 Standard Target List	Ra226Ra228_GFPC	Total Number of containers	Special Instructions/Note:
Preservation Code:											
MW-01 (500-232843-6)	4/27/23	12:37 Central		Water			X	X	X	3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;
MW-02 (500-232843-7)	4/27/23	14:02 Central		Water			X	X	X	3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;
MW-03 (500-232843-8)	4/27/23	15:07 Central		Water			X	X	X	3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;
MW-04 (500-232843-9)	4/27/23	16:34 Central		Water			X	X	X	3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;
MW-07 (500-232843-10)	4/27/23	09:37 Central		Water			X	X	X	3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;
MW-08 (500-232843-11)	4/27/23	11:04 Central		Water			X	X	X	3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;
										18	

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	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

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

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature] FED EX	4/28/23 1650		FED EX		
2	Relinquished by:	Date/Time:	Company	Received by: [signature]	Date/Time: MAY 01 2023	Company ETA STL
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

5/31/2023

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-232843-2

Login Number: 232843
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.0,2.5,3.0,2.2,1.3
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-232843-2

Login Number: 232843
List Number: 2
Creator: Sharkey-Gonzalez, Briana L

List Source: Eurofins St. Louis
List Creation: 04/28/23 02:21 PM

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

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-232843-2

Login Number: 232843
List Number: 3
Creator: Farrell, Conor P

List Source: Eurofins St. Louis
List Creation: 05/01/23 01:59 PM

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

Lab Chronicle

Client: KPRG and Associates, Inc.
Project/Site: Will County CCR 1N/1S (RAD)

Job ID: 500-232843-2

Client Sample ID: MW-09

Lab Sample ID: 500-232843-1

Date Collected: 04/26/23 12:21
Date Received: 04/26/23 16:30

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			610447	KAC	EET SL	05/08/23 10:29
Total/NA	Analysis	903.0		1	613938	SCB	EET SL	05/31/23 08:16
Total/NA	Prep	PrecSep_0			610459	KAC	EET SL	05/08/23 10:54
Total/NA	Analysis	904.0		1	613238	SCB	EET SL	05/25/23 15:48
Total/NA	Analysis	Ra226_Ra228		1	613826	EMH	EET SL	05/31/23 14:19

Client Sample ID: MW-13

Lab Sample ID: 500-232843-2

Date Collected: 04/25/23 11:57
Date Received: 04/26/23 16:30

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			610447	KAC	EET SL	05/08/23 10:29
Total/NA	Analysis	903.0		1	613938	SCB	EET SL	05/31/23 08:16
Total/NA	Prep	PrecSep_0			610459	KAC	EET SL	05/08/23 10:54
Total/NA	Analysis	904.0		1	613238	SCB	EET SL	05/25/23 15:49
Total/NA	Analysis	Ra226_Ra228		1	613826	EMH	EET SL	05/31/23 14:19

Client Sample ID: MW-14

Lab Sample ID: 500-232843-3

Date Collected: 04/25/23 12:50
Date Received: 04/26/23 16:30

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			610447	KAC	EET SL	05/08/23 10:29
Total/NA	Analysis	903.0		1	613938	SCB	EET SL	05/31/23 08:16
Total/NA	Prep	PrecSep_0			610459	KAC	EET SL	05/08/23 10:54
Total/NA	Analysis	904.0		1	613238	SCB	EET SL	05/25/23 15:49
Total/NA	Analysis	Ra226_Ra228		1	613826	EMH	EET SL	05/31/23 14:19

Client Sample ID: MW-15

Lab Sample ID: 500-232843-4

Date Collected: 04/25/23 13:49
Date Received: 04/26/23 16:30

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			610447	KAC	EET SL	05/08/23 10:29
Total/NA	Analysis	903.0		1	613861	SCB	EET SL	05/31/23 10:19
Total/NA	Prep	PrecSep_0			610459	KAC	EET SL	05/08/23 10:54
Total/NA	Analysis	904.0		1	613238	SCB	EET SL	05/25/23 15:49
Total/NA	Analysis	Ra226_Ra228		1	613826	EMH	EET SL	05/31/23 14:19

Lab Chronicle

Client: KPRG and Associates, Inc.
Project/Site: Will County CCR 1N/1S (RAD)

Job ID: 500-232843-2

Client Sample ID: 1N/1S Duplicate

Lab Sample ID: 500-232843-5

Date Collected: 04/25/23 00:00
Date Received: 04/26/23 16:30

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			610447	KAC	EET SL	05/08/23 10:29
Total/NA	Analysis	903.0		1	613861	SCB	EET SL	05/31/23 10:19
Total/NA	Prep	PrecSep_0			610459	KAC	EET SL	05/08/23 10:54
Total/NA	Analysis	904.0		1	613238	SCB	EET SL	05/25/23 15:49
Total/NA	Analysis	Ra226_Ra228		1	613826	EMH	EET SL	05/31/23 14:19

Client Sample ID: MW-01

Lab Sample ID: 500-232843-6

Date Collected: 04/27/23 12:37
Date Received: 04/28/23 09:00

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			610605	KAC	EET SL	05/08/23 12:36
Total/NA	Analysis	903.0		1	613860	SCB	EET SL	05/31/23 10:11
Total/NA	Prep	PrecSep_0			610627	KAC	EET SL	05/08/23 14:26
Total/NA	Analysis	904.0		1	613346	SCB	EET SL	05/26/23 15:56
Total/NA	Analysis	Ra226_Ra228		1	613826	EMH	EET SL	05/31/23 14:19

Client Sample ID: MW-02

Lab Sample ID: 500-232843-7

Date Collected: 04/27/23 14:02
Date Received: 04/28/23 09:00

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			610605	KAC	EET SL	05/08/23 12:36
Total/NA	Analysis	903.0		1	613860	SCB	EET SL	05/31/23 10:12
Total/NA	Prep	PrecSep_0			610627	KAC	EET SL	05/08/23 14:26
Total/NA	Analysis	904.0		1	613346	SCB	EET SL	05/26/23 15:56
Total/NA	Analysis	Ra226_Ra228		1	613826	EMH	EET SL	05/31/23 14:19

Client Sample ID: MW-03

Lab Sample ID: 500-232843-8

Date Collected: 04/27/23 15:07
Date Received: 04/28/23 09:00

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			610605	KAC	EET SL	05/08/23 12:36
Total/NA	Analysis	903.0		1	613860	SCB	EET SL	05/31/23 10:12
Total/NA	Prep	PrecSep_0			610627	KAC	EET SL	05/08/23 14:26
Total/NA	Analysis	904.0		1	613346	SCB	EET SL	05/26/23 15:56
Total/NA	Analysis	Ra226_Ra228		1	613826	EMH	EET SL	05/31/23 14:19

Lab Chronicle

Client: KPRG and Associates, Inc.
Project/Site: Will County CCR 1N/1S (RAD)

Job ID: 500-232843-2

Client Sample ID: MW-04

Lab Sample ID: 500-232843-9

Date Collected: 04/27/23 16:34

Matrix: Water

Date Received: 04/28/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			610605	KAC	EET SL	05/08/23 12:36
Total/NA	Analysis	903.0		1	613860	SCB	EET SL	05/31/23 10:12
Total/NA	Prep	PrecSep_0			610627	KAC	EET SL	05/08/23 14:26
Total/NA	Analysis	904.0		1	613346	SCB	EET SL	05/26/23 15:57
Total/NA	Analysis	Ra226_Ra228		1	613826	EMH	EET SL	05/31/23 14:19

Client Sample ID: MW-07

Lab Sample ID: 500-232843-10

Date Collected: 04/27/23 09:37

Matrix: Water

Date Received: 04/28/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			610605	KAC	EET SL	05/08/23 12:36
Total/NA	Analysis	903.0		1	613860	SCB	EET SL	05/31/23 10:12
Total/NA	Prep	PrecSep_0			610627	KAC	EET SL	05/08/23 14:26
Total/NA	Analysis	904.0		1	613346	SCB	EET SL	05/26/23 15:57
Total/NA	Analysis	Ra226_Ra228		1	613826	EMH	EET SL	05/31/23 14:19

Client Sample ID: MW-08

Lab Sample ID: 500-232843-11

Date Collected: 04/27/23 11:04

Matrix: Water

Date Received: 04/28/23 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			610605	KAC	EET SL	05/08/23 12:36
Total/NA	Analysis	903.0		1	613860	SCB	EET SL	05/31/23 10:13
Total/NA	Prep	PrecSep_0			610627	KAC	EET SL	05/08/23 14:26
Total/NA	Analysis	904.0		1	613346	SCB	EET SL	05/26/23 15:57
Total/NA	Analysis	Ra226_Ra228		1	613826	EMH	EET SL	05/31/23 14:19

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. Job ID: 500-232843-2
Project/Site: Will County CCR 1N/1S (RAD)

Laboratory: Eurofins St. Louis

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	200023	11-30-23

Tracer/Carrier Summary

Client: KPRG and Associates, Inc.
Project/Site: Will County CCR 1N/1S (RAD)

Job ID: 500-232843-2

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)
500-232843-1	MW-09	91.2
500-232843-2	MW-13	89.3
500-232843-3	MW-14	93.2
500-232843-4	MW-15	93.7
500-232843-5	1N/1S Duplicate	94.9
500-232843-5 DU	1N/1S Duplicate	101
500-232843-6	MW-01	87.8
500-232843-7	MW-02	69.1
500-232843-8	MW-03	96.4
500-232843-9	MW-04	89.1
500-232843-10	MW-07	84.2
500-232843-11	MW-08	72.5
500-232843-11 DU	MW-08	86.4
LCS 160-610447/2-A	Lab Control Sample	94.4
LCS 160-610605/2-A	Lab Control Sample	93.4
MB 160-610447/1-A	Method Blank	95.4
MB 160-610605/1-A	Method Blank	90.5

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)
500-232843-1	MW-09	91.2	77.0
500-232843-2	MW-13	89.3	71.8
500-232843-3	MW-14	93.2	77.8
500-232843-4	MW-15	93.7	83.4
500-232843-5	1N/1S Duplicate	94.9	82.2
500-232843-5 DU	1N/1S Duplicate	101	82.6
500-232843-6	MW-01	87.8	82.2
500-232843-7	MW-02	69.1	80.0
500-232843-8	MW-03	96.4	82.6
500-232843-9	MW-04	89.1	83.7
500-232843-10	MW-07	84.2	71.4
500-232843-11	MW-08	72.5	81.1
500-232843-11 DU	MW-08	86.4	80.7
LCS 160-610459/2-A	Lab Control Sample	94.4	84.1
LCS 160-610627/2-A	Lab Control Sample	93.4	81.1
MB 160-610459/1-A	Method Blank	95.4	85.2
MB 160-610627/1-A	Method Blank	90.5	80.7

Tracer/Carrier Legend

Ba = Ba Carrier
Y = Y Carrier

PROJECT NAME	NRG – WILL COUNTY STATION (12313.3)		DATE 4-27-23
Sample Name	MW-01	Start Time	12:16
Condition of Well	GOOD		
Water Level	10.41	Total Depth	—
Well Diameter	PVC – 2 inch	Volume in Well	—
Method of Purge	Low-Flow	Purge Characteristics	COLORLESS SLIGHT ODOR
Volume Removed	3.5 QTS	W L at Sample Time	10.41
Method of Sample	Low-Flow	Sample Characteristics	APPEARS CLEAR
Sample Analysis	CCA + CCR	Sample Time	12:37
Water Quality Meter	YSI ProDss		

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm).	DO (mg/L)	ORP (mV)	Turbidity (NTU)
12:19	10.41	7.35	15.3	1.584	6.72	-46.1	5.2
12:22	10.44	7.07	14.6	1.601	4.01	-27.7	2.7
12:25	10.40	6.90	14.6	1.606	2.51	-7.4	2.4
12:28	10.41	6.84	14.5	1.604	1.95	9.7	2.6
12:31	10.41	6.82	14.3	1.601	1.76	17.9	2.8
12:34	10.41	6.80	14.4	1.598	1.57	23.9	3.6
12:37	10.41	6.79	14.3	1.599	1.47	27.1	4.4

SAMPLING NOTES:

Sampler Name and Company: KPRG and Associates IAN JOHN HOWKSON

PROJECT NAME	NRG – WILL COUNTY STATION (12313.3)		DATE	4-27-23
Sample Name	MW-02	Start Time	13:44	
Condition of Well	GOOD			
Water Level	11.49	Total Depth	—	
Well Diameter	PVC – 2 inch	Volume in Well	—	
Method of Purge	Low-Flow	Purge Characteristics	COLORLESS ODORLESS	
Volume Removed	2.75 Qts	W L at Sample Time	11.52	
Method of Sample	Low-Flow	Sample Characteristics	APPEARS CLEAR	
Sample Analysis	CCA + CCR	Sample Time	14:02	
Water Quality Meter	YSI ProDss			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm).	DO (mg/L)	ORP (mV)	Turbidity (NTU)
13:47	11.51	7.19	17.7	1.647	4.13	-34.9	17.1
13:50	11.52	7.76	15.7	1.544	3.43	-55.1	72.5
13:53	11.52	7.64	15.6	1.514	1.76	-44.5	2.9
13:56	11.51	7.61	15.7	1.505	1.18	-47.8	3.0
13:59	11.51	7.60	15.7	1.509	1.03	-56.6	2.9
14:02	11.52	7.60	15.7	1.508	0.95	-58.3	2.9

SAMPLING NOTES:

Sampler Name and Company: KPRG and Associates IAN JOHN HOWKSON

PROJECT NAME	NRG – WILL COUNTY STATION (12313.3)		DATE	4-27-23
Sample Name	MW-07	Start Time	09:19	
Condition of Well	GOOD			
Water Level	11.03	Total Depth	—	
Well Diameter	PVC – 2 inch	Volume in Well	—	
Method of Purge	Low-Flow	Purge Characteristics	COLORLESS ODORLESS	
Volume Removed	2.75 GAL.	W L at Sample Time	11.14	
Method of Sample	Low-Flow	Sample Characteristics	APPEARS CLEAR	
Sample Analysis	CCA + CCR	Sample Time	09:37	
Water Quality Meter	YSI ProDss			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm).	DO (mg/L)	ORP (mV)	Turbidity (NTU)
09:22	11.05	6.65	11.3	2.058	8.08	-8.1	84.6
09:25	11.09	6.51	11.5	2.283	4.34	37.6	85.9
09:28	11.13	6.50	11.8	2.308	3.33	52.4	80.3
09:31	11.16	6.50	11.9	2.311	2.77	54.6	84.6
09:34	11.15	6.50	11.9	2.290	1.50	55.8	53.2
09:37	11.14	6.51	11.9	2.282	1.38	55.7	8.9

SAMPLING NOTES:

Sampler Name and Company: KPRG and Associates IAN JOHN HOWIESON

PROJECT NAME	NRG – WILL COUNTY STATION (12313.3)		DATE	4-25-23
Sample Name	MW-14	Start Time	12:32	
Condition of Well	GOOD			
Water Level	10.67	Total Depth	—	
Well Diameter	PVC – 2 inch	Volume in Well	—	
Method of Purge	Low-Flow	Purge Characteristics	COLORLESS ODORLESS	
Volume Removed	3.5 QTS.	W L at Sample Time	10.73	
Method of Sample	Low-Flow	Sample Characteristics	APPEARS CLEAR	
Sample Analysis	CCR	Sample Time	12:50	
Water Quality Meter	YSI ProDss			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm).	DO (mg/L)	ORP (mV)	Turbidity (NTU)
12:35	10.69	7.45	11.3	1.593	4.22	-32.8	7.2
12:38	10.72	7.67	11.0	1.534	2.45	-105.9	8.3
12:41	10.71	7.84	10.7	1.486	1.12	-144.9	8.5
12:44	10.72	7.83	10.7	1.486	0.80	-157.1	7.5
12:47	10.72	7.79	10.7	1.499	0.57	-161.3	6.0
12:50	10.73	7.71	10.7	1.528	0.49	-160.4	5.0

SAMPLING NOTES:

Sampler Name and Company: KPRG and Associates IAN JOHNSON

PROJECT NAME	NRG – WILL COUNTY STATION (12313.3)		DATE	4-25-23
Sample Name	MW-15	Start Time	13:20	
Condition of Well	GOOD			
Water Level	10.02	Total Depth	—	
Well Diameter	PVC – 2 inch	Volume in Well	—	
Method of Purge	Low-Flow	Purge Characteristics	TAN TINT WITH SMALL PARTICLES / SPONGE.	
Volume Removed	5.5 Qts	W L at Sample Time	10.80	
Method of Sample	Low-Flow	Sample Characteristics	TAN TINT WITH FLUFF LIKE PARTICLES.	
Sample Analysis	CCR + CCR DUPS	Sample Time	13:49	
Water Quality Meter	YSI ProDss			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm).	DO (mg/L)	ORP (mV)	Turbidity (NTU)
13:23	10.03	6.45	11.5	2,125	6.60	33.6	33.5
13:26	10.11	6.54	11.0	2.287	4.31	50.9	186.2
13:29	10.25	6.53	11.0	2.310	2.23	50.9	289.1
FLUSH	CELL	& START	OVER.				
13:37	10.43	6.53	10.6	2.290	1.10	54.4	95.2
13:40	10.60	6.49	10.5	2.265	0.61	36.2	33.8
13:43	10.72	6.48	10.4	2.257	0.51	10.0	15.9
13:46	10.79	6.49	10.4	2.257	0.46	-6.8	13.6
13:49	10.80	6.50	10.4	2.257	0.43	-17.8	11.2

SAMPLING NOTES: SLOW RECOVERY

Sampler Name and Company: KPRG and Associates IAN JOHN HOWESON