

## DATA SUMMARY POSTING

Station: Midwest Generation Will County Generating Station

Regulated Unit(s):   Pond 2 S (IEPA ID No. W1978100011-03)  
                          Pond 3 S (IEPA ID No. W1978100011-04)

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

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

Table 1. Groundwater Analytical Data, Pond 2S and Pond 3S, Midwest Generation, LLC, Will County Generating Station, Romeoville, IL.

Well	Date	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved Solids	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Radium 226 + 228 Combined	Selenium	Thallium	
MW-05 up-gradient	11/11/2015	6.1	220	110	0.31	7.24	770	1,900	< 0.003	0.0014	0.071	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.013	< 0.0002	0.0750	-0.168	0.031	< 0.002	
	2/18/2016	4.4	230	120	0.31	6.99	730	1,600	< 0.003	0.0021	0.058	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.017	< 0.0002	0.079	0.468	0.019	< 0.002	
	5/26/2016	3.7	170	110	0.33	6.73	670	1,500	< 0.003	0.0023	0.055	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.011	< 0.0002	0.077	< 0.402	0.019	< 0.002	
	8/10/2016	3.6	67	120	0.72	8.62	480	970	< 0.003	0.0044	0.043	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.010	F1 < 0.0002	0.14	< 0.394	0.0049	< 0.002	
	10/26/2016	3.6	44	120	0.70	9.08	410	920	< 0.003	0.0047	0.033	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.12	< 0.592	< 0.0025	< 0.002	
	2/1/2017	4.6	250	48	0.35	6.81	530	1,600	< 0.003	0.0015	0.058	* < 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.016	< 0.0002	0.048	< 0.424	0.029	< 0.002	
	5/11/2017	4.0	140	85	0.31	7.86	610	1,200	< 0.003	0.0035	0.053	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.093	< 0.388	< 0.0025	< 0.002	
	6/27/2017	3.8	83	99	0.53	7.95	500	1,000	< 0.003	0.0037	0.045	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.11	< 0.412	< 0.0025	< 0.002	
	9/8/2017	4.8	89	78	0.52	9.40	490	1,000	< 0.003	0.0038	V 0.069	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.095	0.486	< 0.0047	< 0.002	
	11/16/2017	4.8	180	52	0.45	6.70	650	1,500	< 0.003	0.0028	0.065	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.021	< 0.0002	0.064	< 0.379	0.012	< 0.002	
	5/2/2018	3.6	200	32	0.39	7.23	510	1,300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10/3/2018	4.9	150	55	0.48	7.07	430	1,200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/29/2019	4.1	61	91	0.59	9.10	380	870	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/6/2019	4.9	170	31	0.41	6.95	440	1,200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/22/2020	4.5	52	70	0.59	7.39	300	870	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/4/2020	5.0	130	29	0.38	7.06	410	1,100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/24/2021	4.7	120	28	0.53	7.07	430	1,000	< 0.003	0.0011	0.046	^1+ < 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.015	< 0.0002	0.063	< 0.492	0.042	< 0.002	
	8/24/2021	4.6	33	45	0.74	9.42	410	580	< 0.003	0.0054	0.028	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.091	1.230	< 0.0025	< 0.002	
	11/23/2021	5.5	140	22	0.44	6.80	370	1,100	< 0.003	0.0035	0.066	^1+ < 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.017	< 0.0002	0.066	0.784	0.012	< 0.002	
	2/24/2022	4.9	210	25	0.39	6.73	660	1,400	< 0.003	0.0092	0.077	< ^1+ < 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.014	< 0.0002	0.059	< 0.415	0.048	< 0.002	
6/16/2022	5.1	120	41	0.34	7.05	510	1,100	< 0.003	0.0037	0.055	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.011	< 0.0002	0.064	< 0.471	0.008	< 0.002		
8/25/2022	6.6	130	20	0.4	6.69	300	940	< 0.003	0.0043	0.072	< 0.001	< ^1+ < 0.0005	< 0.005	< 0.001	< 0.0005	0.016	< 0.0002	0.061	< 0.570	0.056	< 0.002		
11/15/2022	8.9	150	9.8	0.72	6.78	310	930	< 0.003	0.032	0.099	< ^+ < 0.001	0.004	0.0083	< 0.001	< 0.0005	0.02	< 0.0002	0.1	< 0.569	0.089	< 0.002		
MW-06 up-gradient	11/10/2015	3.0	52	100	0.55	6.63	300	660	< 0.003	0.0016	0.048	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.011	< 0.0002	0.0670	-0.383	0.039	< 0.002	
	2/18/2016	2.5	74	150	0.47	8.58	280	650	< 0.003	0.0014	0.068	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.015	< 0.0002	0.0630	0.412	< 0.0025	< 0.002	
	5/26/2016	2.7	86	92	0.44	8.79	350	800	< 0.003	0.002	0.068	^ < 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.012	< 0.0002	0.042	< 0.422	< 0.0025	< 0.002	
	8/11/2016	3.6	110	58	0.35	7.74	330	840	< 0.003	0.0029	0.086	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.017	< 0.0002	0.038	< 0.339	< 0.0025	< 0.002	
	10/26/2016	3.8	86	74	0.40	8.16	220	800	< 0.003	0.003	0.074	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.013	< 0.0002	0.043	< 0.531	< 0.0025	< 0.002	
	2/1/2017	3.4	70	83	0.41	7.88	260	700	< 0.003	0.0043	0.068	* < 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.012	^ < 0.0002	0.05	< 0.511	0.035	< 0.002	
	5/11/2017	3.0	75	84	0.28	8.68	330	570	< 0.003	0.002	0.054	< 0.001	< 0.0005	< 0.005	< 0.001	0.00054	0.011	< 0.0002	0.054	< 0.388	< 0.0025	< 0.002	
	6/27/2017	3.1	65	74	0.38	8.15	330	710	< 0.003	0.0014	0.069	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.012	< 0.0002	0.046	< 0.408	< 0.0025	< 0.002	
	9/7/2017	3.5	75	67	0.40	8.20	300	740	< 0.003	0.0025	0.077	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.013	< 0.0002	0.044	< 0.397	< 0.0025	< 0.002	
	11/16/2017	3.9	88	54	0.39	7.59	280	810	< 0.003	0.0028	0.077	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.017	< 0.0002	0.038	0.491	0.012	< 0.002	
	5/3/2018	3.0	91	52	0.26	6.91	530	750	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	7/25/2018 R	NA	NA	NA	NA	7.47	280	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10/3/2018	3.5	93	44	0.31	7.83	240	720	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/29/2019	4.3	120	38	0.21	7.51	350	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	7/3/2019 R	3.2	NA	NA	NA	8.28	NA	740	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/6/2019	4.2	98	31	0.33	7.91	210	740	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/22/2020	3.4	98	56	0.31	7.47	180	710	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/3/2020	3.3	100	43	0.36	7.29	170	700	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/24/2021	2.6	99	46	0.33	7.65	160	610	< 0.003	0.0025	0.08	^1+ < 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.016	< 0.0002	0.017	0.576	< 0.0025	< 0.002	
	8/24/2021	2.9	100	100	0.35	7.09	170	370	< 0.003	0.0029	0.093	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.021	< 0.0002	0.018	< 0.468	< 0.0025	< 0.002	
11/23/2021	2.6	85	43	0.37	7.48	150	720	< 0.003	0.002	0.07	^1+ < 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.014	< 0.0002	0.017	1.02	< 0.0025	< 0.002		
2/22/2022	2.8	130	35	0.33	7.29	260	940	< 0.003	0.0019	0.09	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.018	< 0.0002	0.033	0.551	0.05	< 0.002		
6/14/2022	2.5	110	22	0.35	7.06	210	610	< 0.003	0.0018	0.082	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.014	< 0.0002	0.018	1.22	< 0.0025	< 0.002		
8/25/2022	2.7	110	20	0.42	7.31	170	750	< 0.003	0.0023	0.088	< 0.001	< ^1+ < 0.0005	< 0.005	< 0.001	< 0.0005	0.018	< 0.0002	0.021	< 0.519	< 0.0025	< 0.002		
11/15/2022	3.2	110	19	0.47	7.41	160	600	< 0.003	0.0017	0.083	< ^+ < 0.001	< 0.0005	< 0.005	< 0.001	0.47	0.016	< 0.0002	0.021	1.08	< 0.0025	< 0.002		
MW-09 down-gradient	11/11/2015	1.9	56	190	0																		

Table 1. Groundwater Analytical Data, Pond 2S and Pond 3S, Midwest Generation, LLC, Will County Generating Station, Romeoville, IL.

Well	Date	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved Solids	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Radium 226 + 228 Combined	Selenium	Thallium	
MW-10 down-gradient	11/10/2015	3.9	140	140	0.77	7.34	310	980	< 0.003	0.015	0.096	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.018	< 0.0002	0.068	1.341	< 0.0025	< 0.002	
	2/16/2016	3.6	150	240	0.79	7.29	290	950	< 0.003	0.014	0.098	^< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.021	< 0.0002	0.075	0.952	< 0.0025	< 0.002	
	5/25/2016	3.6	120	140	0.83	7.26	260	1,000	< 0.003	0.034	0.096	^< 0.001	< 0.0005	< 0.005	< 0.001	0.00055	0.016	< 0.0002	0.065	0.51	< 0.0025	< 0.002	
	8/10/2016	4.3	150	120	0.78	7.22	230	970	< 0.003	0.017	0.11	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.021	< 0.0002	0.082	0.864	< 0.0025	< 0.002	
	10/26/2016	3.0	160	74	0.52	7.30	220	1,000	< 0.003	0.022	0.11	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.021	< 0.0002	0.030	0.458	< 0.0025	< 0.002	
	2/2/2017	3.7	180	81	0.54	7.16	160	930	< 0.003	0.05	0.14	* < 0.001	< 0.0005	< 0.005	< 0.001	0.0013	0.02	^< 0.0002	0.031	< 0.464	< 0.0025	< 0.002	
	5/10/2017	3.0	150	100	0.44	7.83	340	860	< 0.003	0.02	0.11	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.015	< 0.0002	0.066	0.882	< 0.0025	< 0.002	
	6/27/2017	2.8	130	110	0.67	7.49	250	930	< 0.003	0.0072	0.096	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.017	< 0.0002	0.080	0.953	< 0.0025	< 0.002	
	9/7/2017	2.8	120	120	0.77	7.37	290	920	< 0.003	0.0076	0.086	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.014	< 0.00058	0.096	0.921	< 0.0025	< 0.002	
	11/15/2017	4.1	140	120	0.77	7.10	270	1,000	< 0.003	0.015	0.11	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.021	< 0.0002	0.071	0.893	< 0.0025	< 0.002	
	5/1/2018	3.2	150	130	0.65	7.31	280	990	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10/3/2018	2.5	110	140	0.89	7.60	200	860	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/29/2019	2.8	100	140	0.82	7.53	260	860	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/5/2019	3.7	120	110	0.93	7.21	190	940	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/27/2020	2.3	100	170	0.90	7.29	280	850	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/3/2020	3.7	130	140	0.87	7.02	180	920	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/25/2021	3.0	160	130	0.62	7.16	160	910	< 0.003	0.018	0.18	^1+ < 0.001	< 0.0005	< 0.005	0.0013	0.0054	0.02	< 0.0002	0.036	< 1.14	< 0.0025	< 0.002	
	8/26/2021	2.5	110	140	0.82	7.70	250	740	< 0.003	0.009	0.085	< 0.001	< 0.0005	< 0.005	< 0.001	0.00073	0.017	< 0.0002	0.12	1.48	< 0.0025	< 0.002	
	11/23/2021	2.7	110	130	0.71	7.07	230	990	< 0.003	0.012	0.091	^1+ < 0.001	< 0.0005	< 0.005	< 0.001	0.0011	0.013	< 0.0002	0.048	2.22	< 0.0025	< 0.002	
	2/24/2022	2.6	130	120	0.53	7.02	170	840	< 0.003	0.0072	0.1	< ^1+ 0.001	< 0.0005	< 0.005	< 0.0012	< 0.001	0.014	< 0.0002	0.043	0.768	< 0.0025	< 0.002	
6/14/2022	2.9	100	140	0.86	6.99	280	790	< 0.003	0.008	0.081	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.015	< 0.0002	0.12	1.55	< 0.0025	< 0.002		
8/25/2022	2.6	130	140	0.99	7.47	280	910	< 0.003	0.019	0.11	< 0.001	< ^1+ 0.0005	0.0053	0.001	0.0077	0.015	< 0.0002	0.12	1.2	< 0.0025	< 0.002		
9/28/2022 (R)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00093	NA	NA	NA	NA	NA	NA	NA	
11/16/2022	4.4	130	160	0.94	7.15	220	910	< 0.003	0.015	0.1	< ^+ 0.001	< 0.0005	< 0.005	< 0.001	0.002	0.018	< 0.0002	0.097	2.74	< 0.0025	< 0.002		
MW-11 down-gradient	11/10/2015	2.6	120	89	0.61	7.60	180	620	< 0.003	0.007	0.098	< 0.001	< 0.0005	< 0.005	< 0.001	0.00064	< 0.01	< 0.0002	0.0600	0.736	< 0.0025	< 0.002	
	2/16/2016	3.0	100	88	0.68	7.47	170	640	< 0.003	0.0059	0.11	^< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.012	< 0.0002	0.078	1.14	< 0.0025	< 0.002	
	5/25/2016	2.8	82	98	0.75	7.43	170	640	< 0.003	0.0073	0.093	^< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.083	0.775	< 0.0025	< 0.002	
	8/10/2016	3.1	96	86	0.72	7.57	150	660	< 0.003	0.0072	0.12	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.010	< 0.0002	0.087	0.807	< 0.0025	< 0.002	
	10/26/2016	2.5	110	67	0.53	7.82	120	630	< 0.003	0.0082	0.096	< 0.001	< 0.0005	< 0.005	< 0.001	0.00052	< 0.01	< 0.0002	0.043	0.51	< 0.0025	< 0.002	
	2/1/2017	3.9	110	72	0.65	7.54	110	600	< 0.003	0.011	0.15	* < 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.076	0.909	< 0.0025	< 0.002	
	5/10/2017	3.1	95	84	0.46	8.37	170	590	< 0.003	0.014	0.14	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.074	1.03	< 0.0025	< 0.002	
	6/27/2017	2.8	87	90	0.59	7.57	150	680	< 0.003	0.0058	0.11	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.069	0.692	< 0.0025	< 0.002	
	9/7/2017	2.8	90	94	0.58	7.40	150	730	< 0.003	0.0074	0.11	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.067	0.676	< 0.0025	< 0.002	
	11/15/2017	2.9	96	100	0.65	7.41	160	750	< 0.003	0.0082	0.15	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.075	1.04	< 0.0025	< 0.002	
	5/3/2018	3.8	73	110	0.69	6.74	190	670	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10/3/2018	3.1	78	110	0.66	7.65	120	680	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/29/2019	2.2	86	110	0.49	7.55	120	610	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/5/2019	2.5	100	80	0.55	7.26	91	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/26/2020	2.3	89	100	0.54	7.4	90	540	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/3/2020	4.3	85	140	0.72	7.17	68	710	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/25/2021	3.8	94	130	0.74	7.68	57	660	< 0.003	0.0067	0.16	^1+ < 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.077	1.29	< 0.0025	< 0.002	
	8/26/2021	1.9	110	150	0.39	7.73	100	710	< 0.003	0.0076	0.1	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.011	< 0.0002	0.034	1.29	< 0.0025	< 0.002	
	11/23/2021	2.0	130	150	0.48	6.94	94	810	< 0.003	0.0085	0.11	^1+ < 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.025	2.35	< 0.0025	< 0.002	
	12/22/2021 R	NA	NA	150	NA	7.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2/23/2022	1.8	130	150	0.38	6.94	91	760	< 0.003	0.013	0.12	< ^1+ 0.001	< 0.0005	< 0.005	< 0.001	0.0006	0.011	< 0.0002	0.031	1.65	< 0.0025	< 0.002		
6/13/2022	2.8	120	140	0.4	7.22	97	700	< 0.003	0.0088	0.17	< 0.001	< 0.0005	< 0.005	0.0022	0.0018	0.011	< 0.0002	0.058	1.44	< 0.0025	< 0.002		
8/23/2022	2.5	110	140	0.53	6.94	160	740	< 0.003	0.0082	0.12	< 0.001	< ^1+ 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.033	2.02	< 0.0025	< 0.002		
11/16/2022	3.8	120	130	0.71	7.34	66	700	< 0.003	0.013	0.14	< ^+ 0.001	< 0.0005	< 0.005	0.0015	0.0014	0.01	< 0.0002	0.052	1.61	< 0.0025	< 0.002		
MW-12 down-gradient	11/10/2015	2.3	150	160	0.59	7.44	290	1,000	< 0.003	0.0016	0.11	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.012	< 0.0002	0.034	0.8139	< 0.0025	< 0.002	
	2/16/2016	1.8	130	140	0.52	7.38	220	850	< 0.003	0.0013	0.084	^< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.015	< 0.0002	0.031	< 0.407	< 0.0025	< 0.002	
	5/25/2016	1.9	130	150	0.54	7.23	250	890	< 0.003	0.0013	0.12	^< 0.001	< 0.0005	< 0.005	< 0.001	0.00063	0.014	< 0.0002	0.03	0.41	< 0.0025	< 0.002	
	8/10/2016	2.4	170	140	0.49	7.20	280	1,000	< 0.003	0.0017	0.12	< 0.001	< 0.0005	< 0.005	< 0.001	0.0006	0.017	< 0.0002	0.04	< 0.426	0.0077	< 0.002	
	10/26/2016	2.6	140	120	0.49	7.44	220	980	< 0.003	0.0016	0.11	< 0.001	< 0.0005	0.025	< 0.001	< 0.0005	0.013	< 0.0002	0.036	< 0.664	< 0.0025	< 0.002	
	2/1/2017	2.0	160	120	0.48</																		

Table 2. Groundwater Turbidity - Ponds 2S and 3S, Midwest Generation, LLC, Will County Generating Station, Romeoville, IL.

Well ID	Date	Turbidity (NTU)
MW-05	2/23/2021	0.63
	4/10/2021	1.28
	4/25/2021	2.41
	5/24/2021	3.78
	6/11/2021	2.4
	6/28/2021	2.89
	7/12/2021	3.93
	8/4/2021	1.35
	8/24/2021	3.5
	9/24/2021	3.59
	11/23/2021	4.45
	2/24/2022	0.37
	6/16/2022	1.76
	8/25/2022	2.99
11/15/2022	38.9	
MW-06	2/23/2021	0.31
	4/10/2021	11.17
	4/25/2021	15.04
	5/24/2021	5.18
	6/11/2021	2.96
	6/29/2021	4.06
	7/12/2021	6.43
	8/4/2021	3.5
	8/24/2021	7.0
	9/24/2021	4.2
	11/23/2021	6.38
	2/22/2022	0.47
	6/14/2022	3.87
	8/25/2022	2.6
11/16/2022	8.12	
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	
MW-10	2/25/2021	172.14
	4/10/2021	29.99
	4/25/2021	34.77
	5/25/2021	44.14
	6/11/2021	92.03
	6/29/2021	29.35
	7/12/2021	23.45
	8/4/2021	47.68
	8/26/2021	27.5
	9/24/2021	542
	11/23/2021	312.05
	2/24/2022	72.18
	6/14/2022	55.5
	8/25/2022	8.83
11/16/2022	32.4	
MW-11	4/10/2021	269.25
	4/25/2021	60.28
	5/25/2021	9.56
	6/11/2021	77.09
	6/29/2021	7.43
	7/12/2021	39.12
	8/4/2021	9.53
	8/26/2021	11.4
	9/24/2021	9.68
	11/23/2021	1.85
	2/23/2022	162.43
	6/13/2022	27.05
	8/23/2022	10.9
	11/16/2022	60.3
MW-12	4/10/2021	31.67
	4/25/2021	15.04
	5/25/2021	28.65
	6/11/2021	6.1
	6/29/2021	13.04
	7/12/2021	12.99
	8/4/2021	11.97
	8/26/2021	10.9
	9/24/2021	11.97
	11/23/2021	3.88
	2/24/2022	82.8
	6/13/2022	4.24
	8/23/2022	7.35
	11/16/2022	2.85

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

Attn: Mitchel Dolan  
KPRG and Associates, Inc.  
414 Plaza Drive Suite 106  
Westmont, Illinois 60559

Generated 12/20/2022 8:28:23 AM

**JOB DESCRIPTION**

Will County CCR

**JOB NUMBER**

500-225637-1

# Eurofins Chicago

## Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

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



Generated  
12/20/2022 8:28:23 AM

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



# Table of Contents

Cover Page . . . . .	1
Table of Contents . . . . .	3
Case Narrative . . . . .	4
Detection Summary . . . . .	5
Method Summary . . . . .	8
Sample Summary . . . . .	9
Client Sample Results . . . . .	10
Definitions . . . . .	17
QC Association . . . . .	18
QC Sample Results . . . . .	21
Chronicle . . . . .	27
Certification Summary . . . . .	30
Chain of Custody . . . . .	31
Receipt Checklists . . . . .	32

# Case Narrative

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

Job ID: 500-225637-1

---

## Job ID: 500-225637-1

---

### Laboratory: Eurofins Chicago

#### Narrative

---

#### Job Narrative 500-225637-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 11/17/2022 3:20 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 0.4° C, 0.6° C, 1.0° C, 1.4° C and 1.8° C.

#### Metals

Method 6020A: The low level continuing calibration verification (CCVL) associated with batch 500-689114 recovered above the upper control limit for Beryllium. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

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

#### General Chemistry

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





# Detection Summary

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

Job ID: 500-225637-1

## Client Sample ID: MW-05

## Lab Sample ID: 500-225637-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.032		0.0010		mg/L	1		6020A	Total Recoverable
Barium	0.099		0.0025		mg/L	1		6020A	Total Recoverable
Boron	8.9		1.0		mg/L	20		6020A	Total Recoverable
Cadmium	0.0040		0.00050		mg/L	1		6020A	Total Recoverable
Calcium	150		0.20		mg/L	1		6020A	Total Recoverable
Chromium	0.0083		0.0050		mg/L	1		6020A	Total Recoverable
Lithium	0.020		0.010		mg/L	1		6020A	Total Recoverable
Molybdenum	0.10		0.0050		mg/L	1		6020A	Total Recoverable
Selenium	0.089		0.0025		mg/L	1		6020A	Total Recoverable
Fluoride	0.72		0.20		mg/L	1		300.0	Total/NA
Total Dissolved Solids	930		10		mg/L	1		SM 2540C	Total/NA
Chloride	9.8		2.0		mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	310		50		mg/L	10		SM 4500 SO4 E	Total/NA

## Client Sample ID: MW-06

## Lab Sample ID: 500-225637-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0017		0.0010		mg/L	1		6020A	Total Recoverable
Barium	0.083		0.0025		mg/L	1		6020A	Total Recoverable
Boron	3.2		0.50		mg/L	10		6020A	Total Recoverable
Calcium	110		0.20		mg/L	1		6020A	Total Recoverable
Lithium	0.016		0.010		mg/L	1		6020A	Total Recoverable
Molybdenum	0.021		0.0050		mg/L	1		6020A	Total Recoverable
Fluoride	0.47		0.20		mg/L	1		300.0	Total/NA
Total Dissolved Solids	600		10		mg/L	1		SM 2540C	Total/NA
Chloride	19		2.0		mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	160		50		mg/L	10		SM 4500 SO4 E	Total/NA

## Client Sample ID: MW-09

## Lab Sample ID: 500-225637-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0094		0.0010		mg/L	1		6020A	Total Recoverable
Barium	0.036		0.0025		mg/L	1		6020A	Total Recoverable
Boron	2.3		0.25		mg/L	5		6020A	Total Recoverable
Calcium	37		0.20		mg/L	1		6020A	Total Recoverable
Lead	0.00066		0.00050		mg/L	1		6020A	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

# Detection Summary

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

Job ID: 500-225637-1

## Client Sample ID: MW-09 (Continued)

## Lab Sample ID: 500-225637-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Molybdenum	0.067		0.0050		mg/L	1		6020A	Total Recoverable
Fluoride	0.79		0.20		mg/L	1		300.0	Total/NA
Total Dissolved Solids	690		10		mg/L	1		SM 2540C	Total/NA
Chloride	210		20		mg/L	10		SM 4500 Cl- E	Total/NA
Sulfate	160		50		mg/L	10		SM 4500 SO4 E	Total/NA

## Client Sample ID: MW-10

## Lab Sample ID: 500-225637-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.015		0.0010		mg/L	1		6020A	Total Recoverable
Barium	0.10		0.0025		mg/L	1		6020A	Total Recoverable
Boron	4.4		0.50		mg/L	10		6020A	Total Recoverable
Calcium	130		0.20		mg/L	1		6020A	Total Recoverable
Lead	0.0020		0.00050		mg/L	1		6020A	Total Recoverable
Lithium	0.018		0.010		mg/L	1		6020A	Total Recoverable
Molybdenum	0.097		0.0050		mg/L	1		6020A	Total Recoverable
Fluoride	0.94		0.20		mg/L	1		300.0	Total/NA
Total Dissolved Solids	910		10		mg/L	1		SM 2540C	Total/NA
Chloride	160		20		mg/L	10		SM 4500 Cl- E	Total/NA
Sulfate	220		50		mg/L	10		SM 4500 SO4 E	Total/NA

## Client Sample ID: MW-11

## Lab Sample ID: 500-225637-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.013		0.0010		mg/L	1		6020A	Total Recoverable
Barium	0.14		0.0025		mg/L	1		6020A	Total Recoverable
Boron	3.8		0.50		mg/L	10		6020A	Total Recoverable
Calcium	120		0.20		mg/L	1		6020A	Total Recoverable
Cobalt	0.0015		0.0010		mg/L	1		6020A	Total Recoverable
Lead	0.0014		0.00050		mg/L	1		6020A	Total Recoverable
Lithium	0.010		0.010		mg/L	1		6020A	Total Recoverable
Molybdenum	0.052		0.0050		mg/L	1		6020A	Total Recoverable
Fluoride	0.71		0.20		mg/L	1		300.0	Total/NA
Total Dissolved Solids	700		10		mg/L	1		SM 2540C	Total/NA
Chloride	130		20		mg/L	10		SM 4500 Cl- E	Total/NA
Sulfate	66		50		mg/L	10		SM 4500 SO4 E	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

# Detection Summary

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

Job ID: 500-225637-1

## Client Sample ID: MW-12

## Lab Sample ID: 500-225637-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0017		0.0010		mg/L	1		6020A	Total Recoverable
Barium	0.14		0.0025		mg/L	1		6020A	Total Recoverable
Boron	2.3		0.25		mg/L	5		6020A	Total Recoverable
Calcium	160		0.20		mg/L	1		6020A	Total Recoverable
Lithium	0.015		0.010		mg/L	1		6020A	Total Recoverable
Molybdenum	0.029		0.0050		mg/L	1		6020A	Total Recoverable
Fluoride	0.97		0.20		mg/L	1		300.0	Total/NA
Total Dissolved Solids	1000		10		mg/L	1		SM 2540C	Total/NA
Chloride	180		20		mg/L	10		SM 4500 Cl- E	Total/NA
Sulfate	180		50		mg/L	10		SM 4500 SO4 E	Total/NA

## Client Sample ID: 2S/3S Duplicate

## Lab Sample ID: 500-225637-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0017		0.0010		mg/L	1		6020A	Total Recoverable
Barium	0.14		0.0025		mg/L	1		6020A	Total Recoverable
Boron	2.2		0.25		mg/L	5		6020A	Total Recoverable
Calcium	160		0.20		mg/L	1		6020A	Total Recoverable
Lithium	0.015		0.010		mg/L	1		6020A	Total Recoverable
Molybdenum	0.029		0.0050		mg/L	1		6020A	Total Recoverable
Fluoride	0.61		0.20		mg/L	1		300.0	Total/NA
Total Dissolved Solids	990		10		mg/L	1		SM 2540C	Total/NA
Chloride	180		20		mg/L	10		SM 4500 Cl- E	Total/NA
Sulfate	190		50		mg/L	10		SM 4500 SO4 E	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

# Method Summary

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

Job ID: 500-225637-1

Method	Method Description	Protocol	Laboratory
6020A	Metals (ICP/MS)	SW846	EET CHI
7470A	Mercury (CVAA)	SW846	EET CHI
300.0	Anions, Ion Chromatography	MCAWW	EET CHI
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET CHI
SM 4500 Cl- E	Chloride, Total	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:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.  
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

Job ID: 500-225637-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-225637-1	MW-05	Water	11/15/22 14:50	11/17/22 15:20
500-225637-2	MW-06	Water	11/16/22 09:38	11/17/22 15:20
500-225637-3	MW-09	Water	11/16/22 14:39	11/17/22 15:20
500-225637-4	MW-10	Water	11/16/22 12:02	11/17/22 15:20
500-225637-5	MW-11	Water	11/16/22 13:09	11/17/22 15:20
500-225637-6	MW-12	Water	11/16/22 10:23	11/17/22 15:20
500-225637-7	2S/3S Duplicate	Water	11/16/22 00:00	11/17/22 15:20

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

# Client Sample Results

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

Job ID: 500-225637-1

**Client Sample ID: MW-05**

**Lab Sample ID: 500-225637-1**

Date Collected: 11/15/22 14:50

Matrix: Water

Date Received: 11/17/22 15:20

**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		12/06/22 08:47	12/06/22 20:54	1
<b>Arsenic</b>	<b>0.032</b>		0.0010		mg/L		12/06/22 08:47	12/06/22 20:54	1
<b>Barium</b>	<b>0.099</b>		0.0025		mg/L		12/06/22 08:47	12/06/22 20:54	1
Beryllium	<0.0010	^+	0.0010		mg/L		12/06/22 08:47	12/06/22 20:54	1
<b>Boron</b>	<b>8.9</b>		1.0		mg/L		12/06/22 08:47	12/10/22 18:36	20
<b>Cadmium</b>	<b>0.0040</b>		0.00050		mg/L		12/06/22 08:47	12/06/22 20:54	1
<b>Calcium</b>	<b>150</b>		0.20		mg/L		12/06/22 08:47	12/06/22 20:54	1
<b>Chromium</b>	<b>0.0083</b>		0.0050		mg/L		12/06/22 08:47	12/06/22 20:54	1
Cobalt	<0.0010		0.0010		mg/L		12/06/22 08:47	12/06/22 20:54	1
Lead	<0.00050		0.00050		mg/L		12/06/22 08:47	12/06/22 20:54	1
<b>Lithium</b>	<b>0.020</b>		0.010		mg/L		12/06/22 08:47	12/09/22 21:25	1
<b>Molybdenum</b>	<b>0.10</b>		0.0050		mg/L		12/06/22 08:47	12/06/22 20:54	1
<b>Selenium</b>	<b>0.089</b>		0.0025		mg/L		12/06/22 08:47	12/06/22 20:54	1
Thallium	<0.0020		0.0020		mg/L		12/06/22 08:47	12/06/22 20:54	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		11/30/22 10:15	12/01/22 08:29	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Fluoride (MCAWW 300.0)</b>	<b>0.72</b>		0.20		mg/L			12/09/22 20:06	1
<b>Total Dissolved Solids (SM 2540C)</b>	<b>930</b>		10		mg/L			11/18/22 04:16	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>9.8</b>		2.0		mg/L			12/06/22 09:50	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>310</b>		50		mg/L			11/29/22 11:22	10

# Client Sample Results

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

Job ID: 500-225637-1

**Client Sample ID: MW-06**

**Lab Sample ID: 500-225637-2**

Date Collected: 11/16/22 09:38

Matrix: Water

Date Received: 11/17/22 15:20

**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		12/06/22 08:47	12/06/22 21:04	1
<b>Arsenic</b>	<b>0.0017</b>		0.0010		mg/L		12/06/22 08:47	12/06/22 21:04	1
<b>Barium</b>	<b>0.083</b>		0.0025		mg/L		12/06/22 08:47	12/06/22 21:04	1
Beryllium	<0.0010	^+	0.0010		mg/L		12/06/22 08:47	12/06/22 21:04	1
<b>Boron</b>	<b>3.2</b>		0.50		mg/L		12/06/22 08:47	12/10/22 18:40	10
Cadmium	<0.00050		0.00050		mg/L		12/06/22 08:47	12/06/22 21:04	1
<b>Calcium</b>	<b>110</b>		0.20		mg/L		12/06/22 08:47	12/06/22 21:04	1
Chromium	<0.0050		0.0050		mg/L		12/06/22 08:47	12/06/22 21:04	1
Cobalt	<0.0010		0.0010		mg/L		12/06/22 08:47	12/06/22 21:04	1
Lead	<0.00050		0.00050		mg/L		12/06/22 08:47	12/06/22 21:04	1
<b>Lithium</b>	<b>0.016</b>		0.010		mg/L		12/06/22 08:47	12/09/22 21:29	1
<b>Molybdenum</b>	<b>0.021</b>		0.0050		mg/L		12/06/22 08:47	12/06/22 21:04	1
Selenium	<0.0025		0.0025		mg/L		12/06/22 08:47	12/06/22 21:04	1
Thallium	<0.0020		0.0020		mg/L		12/06/22 08:47	12/06/22 21:04	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		11/30/22 10:15	12/01/22 08:41	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Fluoride (MCAWW 300.0)</b>	<b>0.47</b>		0.20		mg/L			12/09/22 20:19	1
<b>Total Dissolved Solids (SM 2540C)</b>	<b>600</b>		10		mg/L			11/22/22 02:30	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>19</b>		2.0		mg/L			12/06/22 09:50	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>160</b>		50		mg/L			11/29/22 11:22	10

# Client Sample Results

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

Job ID: 500-225637-1

**Client Sample ID: MW-09**

**Lab Sample ID: 500-225637-3**

Date Collected: 11/16/22 14:39

Matrix: Water

Date Received: 11/17/22 15:20

## 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		12/06/22 08:47	12/06/22 21:08	1
<b>Arsenic</b>	<b>0.0094</b>		0.0010		mg/L		12/06/22 08:47	12/06/22 21:08	1
<b>Barium</b>	<b>0.036</b>		0.0025		mg/L		12/06/22 08:47	12/06/22 21:08	1
Beryllium	<0.0010	^+	0.0010		mg/L		12/06/22 08:47	12/06/22 21:08	1
<b>Boron</b>	<b>2.3</b>		0.25		mg/L		12/06/22 08:47	12/10/22 18:43	5
Cadmium	<0.00050		0.00050		mg/L		12/06/22 08:47	12/06/22 21:08	1
<b>Calcium</b>	<b>37</b>		0.20		mg/L		12/06/22 08:47	12/06/22 21:08	1
Chromium	<0.0050		0.0050		mg/L		12/06/22 08:47	12/06/22 21:08	1
Cobalt	<0.0010		0.0010		mg/L		12/06/22 08:47	12/06/22 21:08	1
<b>Lead</b>	<b>0.00066</b>		0.00050		mg/L		12/06/22 08:47	12/06/22 21:08	1
Lithium	<0.010		0.010		mg/L		12/06/22 08:47	12/09/22 21:32	1
<b>Molybdenum</b>	<b>0.067</b>		0.0050		mg/L		12/06/22 08:47	12/06/22 21:08	1
Selenium	<0.0025		0.0025		mg/L		12/06/22 08:47	12/06/22 21:08	1
Thallium	<0.0020		0.0020		mg/L		12/06/22 08:47	12/06/22 21:08	1

## Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		11/30/22 10:15	12/01/22 08:43	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Fluoride (MCAWW 300.0)</b>	<b>0.79</b>		0.20		mg/L			12/09/22 20:31	1
<b>Total Dissolved Solids (SM 2540C)</b>	<b>690</b>		10		mg/L			11/22/22 02:37	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>210</b>		20		mg/L			12/06/22 09:50	10
<b>Sulfate (SM 4500 SO4 E)</b>	<b>160</b>		50		mg/L			11/29/22 11:23	10



# Client Sample Results

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

Job ID: 500-225637-1

**Client Sample ID: MW-10**

**Lab Sample ID: 500-225637-4**

Date Collected: 11/16/22 12:02

Matrix: Water

Date Received: 11/17/22 15:20

**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		12/06/22 08:47	12/06/22 21:12	1
<b>Arsenic</b>	<b>0.015</b>		0.0010		mg/L		12/06/22 08:47	12/06/22 21:12	1
<b>Barium</b>	<b>0.10</b>		0.0025		mg/L		12/06/22 08:47	12/06/22 21:12	1
Beryllium	<0.0010	^+	0.0010		mg/L		12/06/22 08:47	12/06/22 21:12	1
<b>Boron</b>	<b>4.4</b>		0.50		mg/L		12/06/22 08:47	12/10/22 18:47	10
Cadmium	<0.00050		0.00050		mg/L		12/06/22 08:47	12/06/22 21:12	1
<b>Calcium</b>	<b>130</b>		0.20		mg/L		12/06/22 08:47	12/06/22 21:12	1
Chromium	<0.0050		0.0050		mg/L		12/06/22 08:47	12/06/22 21:12	1
Cobalt	<0.0010		0.0010		mg/L		12/06/22 08:47	12/06/22 21:12	1
<b>Lead</b>	<b>0.0020</b>		0.00050		mg/L		12/06/22 08:47	12/06/22 21:12	1
<b>Lithium</b>	<b>0.018</b>		0.010		mg/L		12/06/22 08:47	12/09/22 21:36	1
<b>Molybdenum</b>	<b>0.097</b>		0.0050		mg/L		12/06/22 08:47	12/06/22 21:12	1
Selenium	<0.0025		0.0025		mg/L		12/06/22 08:47	12/06/22 21:12	1
Thallium	<0.0020		0.0020		mg/L		12/06/22 08:47	12/06/22 21:12	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		11/30/22 10:15	12/01/22 08:45	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Fluoride (MCAWW 300.0)</b>	<b>0.94</b>		0.20		mg/L			12/09/22 20:44	1
<b>Total Dissolved Solids (SM 2540C)</b>	<b>910</b>		10		mg/L			11/22/22 02:43	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>160</b>		20		mg/L			12/06/22 09:50	10
<b>Sulfate (SM 4500 SO4 E)</b>	<b>220</b>		50		mg/L			11/29/22 11:24	10

# Client Sample Results

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

Job ID: 500-225637-1

**Client Sample ID: MW-11**  
Date Collected: 11/16/22 13:09  
Date Received: 11/17/22 15:20

**Lab Sample ID: 500-225637-5**  
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		12/06/22 08:47	12/06/22 21:15	1
<b>Arsenic</b>	<b>0.013</b>		0.0010		mg/L		12/06/22 08:47	12/06/22 21:15	1
<b>Barium</b>	<b>0.14</b>		0.0025		mg/L		12/06/22 08:47	12/06/22 21:15	1
Beryllium	<0.0010	^+	0.0010		mg/L		12/06/22 08:47	12/06/22 21:15	1
<b>Boron</b>	<b>3.8</b>		0.50		mg/L		12/06/22 08:47	12/10/22 18:50	10
Cadmium	<0.00050		0.00050		mg/L		12/06/22 08:47	12/06/22 21:15	1
<b>Calcium</b>	<b>120</b>		0.20		mg/L		12/06/22 08:47	12/06/22 21:15	1
Chromium	<0.0050		0.0050		mg/L		12/06/22 08:47	12/06/22 21:15	1
<b>Cobalt</b>	<b>0.0015</b>		0.0010		mg/L		12/06/22 08:47	12/06/22 21:15	1
<b>Lead</b>	<b>0.0014</b>		0.00050		mg/L		12/06/22 08:47	12/06/22 21:15	1
<b>Lithium</b>	<b>0.010</b>		0.010		mg/L		12/06/22 08:47	12/09/22 21:39	1
<b>Molybdenum</b>	<b>0.052</b>		0.0050		mg/L		12/06/22 08:47	12/06/22 21:15	1
Selenium	<0.0025		0.0025		mg/L		12/06/22 08:47	12/06/22 21:15	1
Thallium	<0.0020		0.0020		mg/L		12/06/22 08:47	12/06/22 21:15	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		11/30/22 10:15	12/01/22 08:48	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Fluoride (MCAWW 300.0)</b>	<b>0.71</b>		0.20		mg/L			12/09/22 20:56	1
<b>Total Dissolved Solids (SM 2540C)</b>	<b>700</b>		10		mg/L			11/22/22 02:45	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>130</b>		20		mg/L			12/06/22 09:51	10
<b>Sulfate (SM 4500 SO4 E)</b>	<b>66</b>		50		mg/L			11/29/22 11:24	10

# Client Sample Results

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

Job ID: 500-225637-1

**Client Sample ID: MW-12**

**Lab Sample ID: 500-225637-6**

Date Collected: 11/16/22 10:23

Matrix: Water

Date Received: 11/17/22 15:20

**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		12/06/22 08:47	12/06/22 21:19	1
<b>Arsenic</b>	<b>0.0017</b>		0.0010		mg/L		12/06/22 08:47	12/06/22 21:19	1
<b>Barium</b>	<b>0.14</b>		0.0025		mg/L		12/06/22 08:47	12/06/22 21:19	1
Beryllium	<0.0010	^+	0.0010		mg/L		12/06/22 08:47	12/06/22 21:19	1
<b>Boron</b>	<b>2.3</b>		0.25		mg/L		12/06/22 08:47	12/10/22 18:54	5
Cadmium	<0.00050		0.00050		mg/L		12/06/22 08:47	12/06/22 21:19	1
<b>Calcium</b>	<b>160</b>		0.20		mg/L		12/06/22 08:47	12/06/22 21:19	1
Chromium	<0.0050		0.0050		mg/L		12/06/22 08:47	12/06/22 21:19	1
Cobalt	<0.0010		0.0010		mg/L		12/06/22 08:47	12/06/22 21:19	1
Lead	<0.00050		0.00050		mg/L		12/06/22 08:47	12/06/22 21:19	1
<b>Lithium</b>	<b>0.015</b>		0.010		mg/L		12/06/22 08:47	12/09/22 21:43	1
<b>Molybdenum</b>	<b>0.029</b>		0.0050		mg/L		12/06/22 08:47	12/06/22 21:19	1
Selenium	<0.0025		0.0025		mg/L		12/06/22 08:47	12/06/22 21:19	1
Thallium	<0.0020		0.0020		mg/L		12/06/22 08:47	12/06/22 21:19	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		11/30/22 10:15	12/01/22 08:50	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Fluoride (MCAWW 300.0)</b>	<b>0.97</b>		0.20		mg/L			12/14/22 19:16	1
<b>Total Dissolved Solids (SM 2540C)</b>	<b>1000</b>		10		mg/L			11/22/22 02:48	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>180</b>		20		mg/L			12/06/22 09:51	10
<b>Sulfate (SM 4500 SO4 E)</b>	<b>180</b>		50		mg/L			11/29/22 11:24	10

# Client Sample Results

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

Job ID: 500-225637-1

**Client Sample ID: 2S/3S Duplicate**

**Lab Sample ID: 500-225637-7**

Date Collected: 11/16/22 00:00

Matrix: Water

Date Received: 11/17/22 15:20

**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		12/06/22 08:47	12/06/22 21:22	1
<b>Arsenic</b>	<b>0.0017</b>		0.0010		mg/L		12/06/22 08:47	12/06/22 21:22	1
<b>Barium</b>	<b>0.14</b>		0.0025		mg/L		12/06/22 08:47	12/06/22 21:22	1
Beryllium	<0.0010	^+	0.0010		mg/L		12/06/22 08:47	12/06/22 21:22	1
<b>Boron</b>	<b>2.2</b>		0.25		mg/L		12/06/22 08:47	12/10/22 18:57	5
Cadmium	<0.00050		0.00050		mg/L		12/06/22 08:47	12/06/22 21:22	1
<b>Calcium</b>	<b>160</b>		0.20		mg/L		12/06/22 08:47	12/06/22 21:22	1
Chromium	<0.0050		0.0050		mg/L		12/06/22 08:47	12/06/22 21:22	1
Cobalt	<0.0010		0.0010		mg/L		12/06/22 08:47	12/06/22 21:22	1
Lead	<0.00050		0.00050		mg/L		12/06/22 08:47	12/06/22 21:22	1
<b>Lithium</b>	<b>0.015</b>		0.010		mg/L		12/06/22 08:47	12/09/22 21:47	1
<b>Molybdenum</b>	<b>0.029</b>		0.0050		mg/L		12/06/22 08:47	12/06/22 21:22	1
Selenium	<0.0025		0.0025		mg/L		12/06/22 08:47	12/06/22 21:22	1
Thallium	<0.0020		0.0020		mg/L		12/06/22 08:47	12/06/22 21:22	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		11/30/22 10:15	12/01/22 08:52	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Fluoride (MCAWW 300.0)</b>	<b>0.61</b>		0.20		mg/L			12/09/22 22:00	1
<b>Total Dissolved Solids (SM 2540C)</b>	<b>990</b>		10		mg/L			11/22/22 02:50	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>180</b>		20		mg/L			12/06/22 10:08	10
<b>Sulfate (SM 4500 SO4 E)</b>	<b>190</b>		50		mg/L			11/29/22 12:01	10

# Definitions/Glossary

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

Job ID: 500-225637-1

## Qualifiers

### Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.

### General Chemistry

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

## Glossary

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

# QC Association Summary

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

Job ID: 500-225637-1

## Metals

### Prep Batch: 687510

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225637-1	MW-05	Total/NA	Water	7470A	
500-225637-2	MW-06	Total/NA	Water	7470A	
500-225637-3	MW-09	Total/NA	Water	7470A	
500-225637-4	MW-10	Total/NA	Water	7470A	
500-225637-5	MW-11	Total/NA	Water	7470A	
500-225637-6	MW-12	Total/NA	Water	7470A	
500-225637-7	2S/3S Duplicate	Total/NA	Water	7470A	
MB 500-687510/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-687510/13-A	Lab Control Sample	Total/NA	Water	7470A	
500-225637-1 MS	MW-05	Total/NA	Water	7470A	
500-225637-1 MSD	MW-05	Total/NA	Water	7470A	
500-225637-1 DU	MW-05	Total/NA	Water	7470A	

### Analysis Batch: 687783

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225637-1	MW-05	Total/NA	Water	7470A	687510
500-225637-2	MW-06	Total/NA	Water	7470A	687510
500-225637-3	MW-09	Total/NA	Water	7470A	687510
500-225637-4	MW-10	Total/NA	Water	7470A	687510
500-225637-5	MW-11	Total/NA	Water	7470A	687510
500-225637-6	MW-12	Total/NA	Water	7470A	687510
500-225637-7	2S/3S Duplicate	Total/NA	Water	7470A	687510
MB 500-687510/12-A	Method Blank	Total/NA	Water	7470A	687510
LCS 500-687510/13-A	Lab Control Sample	Total/NA	Water	7470A	687510
500-225637-1 MS	MW-05	Total/NA	Water	7470A	687510
500-225637-1 MSD	MW-05	Total/NA	Water	7470A	687510
500-225637-1 DU	MW-05	Total/NA	Water	7470A	687510

### Prep Batch: 688396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225637-1	MW-05	Total Recoverable	Water	3005A	
500-225637-2	MW-06	Total Recoverable	Water	3005A	
500-225637-3	MW-09	Total Recoverable	Water	3005A	
500-225637-4	MW-10	Total Recoverable	Water	3005A	
500-225637-5	MW-11	Total Recoverable	Water	3005A	
500-225637-6	MW-12	Total Recoverable	Water	3005A	
500-225637-7	2S/3S Duplicate	Total Recoverable	Water	3005A	
MB 500-688396/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-688396/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

### Analysis Batch: 689114

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225637-1	MW-05	Total Recoverable	Water	6020A	688396
500-225637-2	MW-06	Total Recoverable	Water	6020A	688396
500-225637-3	MW-09	Total Recoverable	Water	6020A	688396
500-225637-4	MW-10	Total Recoverable	Water	6020A	688396
500-225637-5	MW-11	Total Recoverable	Water	6020A	688396
500-225637-6	MW-12	Total Recoverable	Water	6020A	688396
500-225637-7	2S/3S Duplicate	Total Recoverable	Water	6020A	688396
MB 500-688396/1-A	Method Blank	Total Recoverable	Water	6020A	688396
LCS 500-688396/2-A	Lab Control Sample	Total Recoverable	Water	6020A	688396

Eurofins Chicago

# QC Association Summary

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

Job ID: 500-225637-1

## Metals

### Analysis Batch: 689195

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225637-1	MW-05	Total Recoverable	Water	6020A	688396
500-225637-2	MW-06	Total Recoverable	Water	6020A	688396
500-225637-3	MW-09	Total Recoverable	Water	6020A	688396
500-225637-4	MW-10	Total Recoverable	Water	6020A	688396
500-225637-5	MW-11	Total Recoverable	Water	6020A	688396
500-225637-6	MW-12	Total Recoverable	Water	6020A	688396
500-225637-7	2S/3S Duplicate	Total Recoverable	Water	6020A	688396
MB 500-688396/1-A	Method Blank	Total Recoverable	Water	6020A	688396
LCS 500-688396/2-A	Lab Control Sample	Total Recoverable	Water	6020A	688396

### Analysis Batch: 689345

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225637-1	MW-05	Total Recoverable	Water	6020A	688396
500-225637-2	MW-06	Total Recoverable	Water	6020A	688396
500-225637-3	MW-09	Total Recoverable	Water	6020A	688396
500-225637-4	MW-10	Total Recoverable	Water	6020A	688396
500-225637-5	MW-11	Total Recoverable	Water	6020A	688396
500-225637-6	MW-12	Total Recoverable	Water	6020A	688396
500-225637-7	2S/3S Duplicate	Total Recoverable	Water	6020A	688396
MB 500-688396/1-A	Method Blank	Total Recoverable	Water	6020A	688396
LCS 500-688396/2-A	Lab Control Sample	Total Recoverable	Water	6020A	688396

## General Chemistry

### Analysis Batch: 685754

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225637-1	MW-05	Total/NA	Water	SM 2540C	
MB 500-685754/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-685754/2	Lab Control Sample	Total/NA	Water	SM 2540C	

### Analysis Batch: 686397

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225637-2	MW-06	Total/NA	Water	SM 2540C	
500-225637-3	MW-09	Total/NA	Water	SM 2540C	
500-225637-4	MW-10	Total/NA	Water	SM 2540C	
500-225637-5	MW-11	Total/NA	Water	SM 2540C	
500-225637-6	MW-12	Total/NA	Water	SM 2540C	
500-225637-7	2S/3S Duplicate	Total/NA	Water	SM 2540C	
MB 500-686397/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-686397/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-225637-2 MS	MW-06	Total/NA	Water	SM 2540C	
500-225637-2 DU	MW-06	Total/NA	Water	SM 2540C	
500-225637-3 DU	MW-09	Total/NA	Water	SM 2540C	

### Analysis Batch: 687313

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225637-1	MW-05	Total/NA	Water	SM 4500 SO4 E	
500-225637-2	MW-06	Total/NA	Water	SM 4500 SO4 E	
500-225637-3	MW-09	Total/NA	Water	SM 4500 SO4 E	
500-225637-4	MW-10	Total/NA	Water	SM 4500 SO4 E	
500-225637-5	MW-11	Total/NA	Water	SM 4500 SO4 E	

Eurofins Chicago

# QC Association Summary

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

Job ID: 500-225637-1

## General Chemistry (Continued)

### Analysis Batch: 687313 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225637-6	MW-12	Total/NA	Water	SM 4500 SO4 E	
500-225637-7	2S/3S Duplicate	Total/NA	Water	SM 4500 SO4 E	
MB 500-687313/181	Method Blank	Total/NA	Water	SM 4500 SO4 E	
MB 500-687313/217	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-687313/182	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
LCS 500-687313/218	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
500-225637-7 MS	2S/3S Duplicate	Total/NA	Water	SM 4500 SO4 E	
500-225637-7 MSD	2S/3S Duplicate	Total/NA	Water	SM 4500 SO4 E	

### Analysis Batch: 688458

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225637-1	MW-05	Total/NA	Water	SM 4500 Cl- E	
500-225637-2	MW-06	Total/NA	Water	SM 4500 Cl- E	
500-225637-3	MW-09	Total/NA	Water	SM 4500 Cl- E	
500-225637-4	MW-10	Total/NA	Water	SM 4500 Cl- E	
500-225637-5	MW-11	Total/NA	Water	SM 4500 Cl- E	
500-225637-6	MW-12	Total/NA	Water	SM 4500 Cl- E	
500-225637-7	2S/3S Duplicate	Total/NA	Water	SM 4500 Cl- E	
MB 500-688458/48	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 500-688458/49	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	

### Analysis Batch: 689188

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225637-1	MW-05	Total/NA	Water	300.0	
500-225637-2	MW-06	Total/NA	Water	300.0	
500-225637-3	MW-09	Total/NA	Water	300.0	
500-225637-4	MW-10	Total/NA	Water	300.0	
500-225637-5	MW-11	Total/NA	Water	300.0	
500-225637-7	2S/3S Duplicate	Total/NA	Water	300.0	
MB 500-689188/33	Method Blank	Total/NA	Water	300.0	
LCS 500-689188/34	Lab Control Sample	Total/NA	Water	300.0	
500-225637-5 MS	MW-11	Total/NA	Water	300.0	
500-225637-5 MSD	MW-11	Total/NA	Water	300.0	
500-225637-7 MS	2S/3S Duplicate	Total/NA	Water	300.0	
500-225637-7 MSD	2S/3S Duplicate	Total/NA	Water	300.0	

### Analysis Batch: 689941

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225637-6	MW-12	Total/NA	Water	300.0	
MB 500-689941/11	Method Blank	Total/NA	Water	300.0	
LCS 500-689941/12	Lab Control Sample	Total/NA	Water	300.0	



# QC Sample Results

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

Job ID: 500-225637-1

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

**Lab Sample ID: MB 500-688396/1-A**  
**Matrix: Water**  
**Analysis Batch: 689114**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 688396**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0030		0.0030		mg/L		12/06/22 08:47	12/06/22 19:40	1
Arsenic	<0.0010		0.0010		mg/L		12/06/22 08:47	12/06/22 19:40	1
Barium	<0.0025		0.0025		mg/L		12/06/22 08:47	12/06/22 19:40	1
Beryllium	<0.0010	^+	0.0010		mg/L		12/06/22 08:47	12/06/22 19:40	1
Cadmium	<0.00050		0.00050		mg/L		12/06/22 08:47	12/06/22 19:40	1
Calcium	<0.20		0.20		mg/L		12/06/22 08:47	12/06/22 19:40	1
Chromium	<0.0050		0.0050		mg/L		12/06/22 08:47	12/06/22 19:40	1
Cobalt	<0.0010		0.0010		mg/L		12/06/22 08:47	12/06/22 19:40	1
Lead	<0.00050		0.00050		mg/L		12/06/22 08:47	12/06/22 19:40	1
Molybdenum	<0.0050		0.0050		mg/L		12/06/22 08:47	12/06/22 19:40	1
Selenium	<0.0025		0.0025		mg/L		12/06/22 08:47	12/06/22 19:40	1
Thallium	<0.0020		0.0020		mg/L		12/06/22 08:47	12/06/22 19:40	1

**Lab Sample ID: MB 500-688396/1-A**  
**Matrix: Water**  
**Analysis Batch: 689195**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 688396**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Lithium	<0.010		0.010		mg/L		12/06/22 08:47	12/09/22 20:33	1

**Lab Sample ID: MB 500-688396/1-A**  
**Matrix: Water**  
**Analysis Batch: 689345**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 688396**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Boron	<0.050		0.050		mg/L		12/06/22 08:47	12/10/22 17:45	1

**Lab Sample ID: LCS 500-688396/2-A**  
**Matrix: Water**  
**Analysis Batch: 689114**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 688396**

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Antimony	0.500	0.508		mg/L		102	80 - 120
Arsenic	0.100	0.0953		mg/L		95	80 - 120
Barium	2.00	2.06		mg/L		103	80 - 120
Beryllium	0.0500	0.0502	^+	mg/L		100	80 - 120
Cadmium	0.0500	0.0493		mg/L		99	80 - 120
Calcium	10.0	10.0		mg/L		100	80 - 120
Chromium	0.200	0.207		mg/L		103	80 - 120
Cobalt	0.500	0.532		mg/L		106	80 - 120
Lead	0.100	0.109		mg/L		109	80 - 120
Molybdenum	1.00	0.959		mg/L		96	80 - 120
Selenium	0.100	0.0920		mg/L		92	80 - 120
Thallium	0.100	0.111		mg/L		111	80 - 120

# QC Sample Results

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

Job ID: 500-225637-1

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

Lab Sample ID: LCS 500-688396/2-A  
Matrix: Water  
Analysis Batch: 689195

Client Sample ID: Lab Control Sample  
Prep Type: Total Recoverable  
Prep Batch: 688396

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.500	0.492		mg/L		98	80 - 120

Lab Sample ID: LCS 500-688396/2-A  
Matrix: Water  
Analysis Batch: 689345

Client Sample ID: Lab Control Sample  
Prep Type: Total Recoverable  
Prep Batch: 688396

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.00	1.06		mg/L		106	80 - 120

## Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-687510/12-A  
Matrix: Water  
Analysis Batch: 687783

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 687510

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		11/30/22 10:15	12/01/22 07:57	1

Lab Sample ID: LCS 500-687510/13-A  
Matrix: Water  
Analysis Batch: 687783

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 687510

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00198	0.00165		mg/L		83	80 - 120

Lab Sample ID: 500-225637-1 MS  
Matrix: Water  
Analysis Batch: 687783

Client Sample ID: MW-05  
Prep Type: Total/NA  
Prep Batch: 687510

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.00020		0.00100	0.000998		mg/L		100	75 - 125

Lab Sample ID: 500-225637-1 MSD  
Matrix: Water  
Analysis Batch: 687783

Client Sample ID: MW-05  
Prep Type: Total/NA  
Prep Batch: 687510

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.00020		0.00100	0.00100		mg/L		100	75 - 125	0	20

Lab Sample ID: 500-225637-1 DU  
Matrix: Water  
Analysis Batch: 687783

Client Sample ID: MW-05  
Prep Type: Total/NA  
Prep Batch: 687510

Analyte	Sample Result	Sample Qualifier	Spike Added	DU Result	DU Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.00020		0.00100	<0.00020		mg/L				NC	20

# QC Sample Results

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

Job ID: 500-225637-1

## Method: 300.0 - Anions, Ion Chromatography

**Lab Sample ID: MB 500-689188/33**  
**Matrix: Water**  
**Analysis Batch: 689188**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.20		0.20		mg/L			12/09/22 17:47	1

**Lab Sample ID: LCS 500-689188/34**  
**Matrix: Water**  
**Analysis Batch: 689188**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	1.00	1.10		mg/L		110	90 - 110

**Lab Sample ID: 500-225637-5 MS**  
**Matrix: Water**  
**Analysis Batch: 689188**

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.71		0.600	1.27		mg/L		93	80 - 120

**Lab Sample ID: 500-225637-5 MSD**  
**Matrix: Water**  
**Analysis Batch: 689188**

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	0.71		0.600	1.28		mg/L		94	80 - 120	1	20

**Lab Sample ID: 500-225637-7 MS**  
**Matrix: Water**  
**Analysis Batch: 689188**

**Client Sample ID: 2S/3S Duplicate**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.61		0.600	1.12		mg/L		85	80 - 120

**Lab Sample ID: 500-225637-7 MSD**  
**Matrix: Water**  
**Analysis Batch: 689188**

**Client Sample ID: 2S/3S Duplicate**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	0.61		0.600	1.12		mg/L		84	80 - 120	1	20

**Lab Sample ID: MB 500-689941/11**  
**Matrix: Water**  
**Analysis Batch: 689941**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.20		0.20		mg/L			12/14/22 15:53	1

**Lab Sample ID: LCS 500-689941/12**  
**Matrix: Water**  
**Analysis Batch: 689941**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	1.00	1.05		mg/L		105	90 - 110

Eurofins Chicago

# QC Sample Results

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

Job ID: 500-225637-1

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

**Lab Sample ID: MB 500-685754/1**  
**Matrix: Water**  
**Analysis Batch: 685754**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10		mg/L			11/18/22 03:17	1

**Lab Sample ID: LCS 500-685754/2**  
**Matrix: Water**  
**Analysis Batch: 685754**

**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	244		mg/L		98	80 - 120

**Lab Sample ID: MB 500-686397/1**  
**Matrix: Water**  
**Analysis Batch: 686397**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10		mg/L			11/22/22 02:25	1

**Lab Sample ID: LCS 500-686397/2**  
**Matrix: Water**  
**Analysis Batch: 686397**

**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	252		mg/L		101	80 - 120

**Lab Sample ID: 500-225637-2 MS**  
**Matrix: Water**  
**Analysis Batch: 686397**

**Client Sample ID: MW-06**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	600		250	848		mg/L		98	75 - 125

**Lab Sample ID: 500-225637-2 DU**  
**Matrix: Water**  
**Analysis Batch: 686397**

**Client Sample ID: MW-06**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	600		578		mg/L		4	5

**Lab Sample ID: 500-225637-3 DU**  
**Matrix: Water**  
**Analysis Batch: 686397**

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

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	690		712		mg/L		4	5

# QC Sample Results

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

Job ID: 500-225637-1

## Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 500-688458/48  
Matrix: Water  
Analysis Batch: 688458

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			12/06/22 09:48	1

Lab Sample ID: LCS 500-688458/49  
Matrix: Water  
Analysis Batch: 688458

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	20.5		mg/L		103	85 - 115

## Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 500-687313/181  
Matrix: Water  
Analysis Batch: 687313

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<5.0		5.0		mg/L			11/29/22 11:16	1

Lab Sample ID: MB 500-687313/217  
Matrix: Water  
Analysis Batch: 687313

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<5.0		5.0		mg/L			11/29/22 11:44	1

Lab Sample ID: LCS 500-687313/182  
Matrix: Water  
Analysis Batch: 687313

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	20.0	22.7		mg/L		114	88 - 123

Lab Sample ID: LCS 500-687313/218  
Matrix: Water  
Analysis Batch: 687313

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	23.2		mg/L		116	88 - 123

Lab Sample ID: 500-225637-7 MS  
Matrix: Water  
Analysis Batch: 687313

Client Sample ID: 2S/3S Duplicate  
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	190		20.0	202	4	mg/L		84	75 - 125

# QC Sample Results

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

Job ID: 500-225637-1

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

**Lab Sample ID: 500-225637-7 MSD**  
**Matrix: Water**  
**Analysis Batch: 687313**

**Client Sample ID: 2S/3S Duplicate**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	190		20.0	200	4	mg/L		77	75 - 125	1	20

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

# Lab Chronicle

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

Job ID: 500-225637-1

**Client Sample ID: MW-05**  
**Date Collected: 11/15/22 14:50**  
**Date Received: 11/17/22 15:20**

**Lab Sample ID: 500-225637-1**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			688396	BDE	EET CHI	12/06/22 08:47 - 12/06/22 09:17 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	689114	FXG	EET CHI	12/06/22 20:54
Total Recoverable	Prep	3005A			688396	BDE	EET CHI	12/06/22 08:47 - 12/06/22 09:17 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	689195	FXG	EET CHI	12/09/22 21:25
Total Recoverable	Prep	3005A			688396	BDE	EET CHI	12/06/22 08:47 - 12/06/22 09:17 <sup>1</sup>
Total Recoverable	Analysis	6020A		20	689345	FXG	EET CHI	12/10/22 18:36
Total/NA	Prep	7470A			687510	MJG	EET CHI	11/30/22 10:15 - 11/30/22 12:15 <sup>1</sup>
Total/NA	Analysis	7470A		1	687783	MJG	EET CHI	12/01/22 08:29
Total/NA	Analysis	300.0		1	689188	RES	EET CHI	12/09/22 20:06
Total/NA	Analysis	SM 2540C		1	685754	CLB	EET CHI	11/18/22 04:16
Total/NA	Analysis	SM 4500 CI- E		1	688458	LP	EET CHI	12/06/22 09:50
Total/NA	Analysis	SM 4500 SO4 E		10	687313	LP	EET CHI	11/29/22 11:22

**Client Sample ID: MW-06**  
**Date Collected: 11/16/22 09:38**  
**Date Received: 11/17/22 15:20**

**Lab Sample ID: 500-225637-2**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			688396	BDE	EET CHI	12/06/22 08:47 - 12/06/22 09:17 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	689114	FXG	EET CHI	12/06/22 21:04
Total Recoverable	Prep	3005A			688396	BDE	EET CHI	12/06/22 08:47 - 12/06/22 09:17 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	689195	FXG	EET CHI	12/09/22 21:29
Total Recoverable	Prep	3005A			688396	BDE	EET CHI	12/06/22 08:47 - 12/06/22 09:17 <sup>1</sup>
Total Recoverable	Analysis	6020A		10	689345	FXG	EET CHI	12/10/22 18:40
Total/NA	Prep	7470A			687510	MJG	EET CHI	11/30/22 10:15 - 11/30/22 12:15 <sup>1</sup>
Total/NA	Analysis	7470A		1	687783	MJG	EET CHI	12/01/22 08:41
Total/NA	Analysis	300.0		1	689188	RES	EET CHI	12/09/22 20:19
Total/NA	Analysis	SM 2540C		1	686397	CLB	EET CHI	11/22/22 02:30
Total/NA	Analysis	SM 4500 CI- E		1	688458	LP	EET CHI	12/06/22 09:50
Total/NA	Analysis	SM 4500 SO4 E		10	687313	LP	EET CHI	11/29/22 11:22

**Client Sample ID: MW-09**  
**Date Collected: 11/16/22 14:39**  
**Date Received: 11/17/22 15:20**

**Lab Sample ID: 500-225637-3**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			688396	BDE	EET CHI	12/06/22 08:47 - 12/06/22 09:17 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	689114	FXG	EET CHI	12/06/22 21:08
Total Recoverable	Prep	3005A			688396	BDE	EET CHI	12/06/22 08:47 - 12/06/22 09:17 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	689195	FXG	EET CHI	12/09/22 21:32
Total Recoverable	Prep	3005A			688396	BDE	EET CHI	12/06/22 08:47 - 12/06/22 09:17 <sup>1</sup>
Total Recoverable	Analysis	6020A		5	689345	FXG	EET CHI	12/10/22 18:43
Total/NA	Prep	7470A			687510	MJG	EET CHI	11/30/22 10:15 - 11/30/22 12:15 <sup>1</sup>
Total/NA	Analysis	7470A		1	687783	MJG	EET CHI	12/01/22 08:43

Eurofins Chicago

# Lab Chronicle

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

Job ID: 500-225637-1

**Client Sample ID: MW-09**  
**Date Collected: 11/16/22 14:39**  
**Date Received: 11/17/22 15:20**

**Lab Sample ID: 500-225637-3**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		1	689188	RES	EET CHI	12/09/22 20:31
Total/NA	Analysis	SM 2540C		1	686397	CLB	EET CHI	11/22/22 02:37
Total/NA	Analysis	SM 4500 CI- E		10	688458	LP	EET CHI	12/06/22 09:50
Total/NA	Analysis	SM 4500 SO4 E		10	687313	LP	EET CHI	11/29/22 11:23

**Client Sample ID: MW-10**  
**Date Collected: 11/16/22 12:02**  
**Date Received: 11/17/22 15:20**

**Lab Sample ID: 500-225637-4**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			688396	BDE	EET CHI	12/06/22 08:47 - 12/06/22 09:17 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	689114	FXG	EET CHI	12/06/22 21:12
Total Recoverable	Prep	3005A			688396	BDE	EET CHI	12/06/22 08:47 - 12/06/22 09:17 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	689195	FXG	EET CHI	12/09/22 21:36
Total Recoverable	Prep	3005A			688396	BDE	EET CHI	12/06/22 08:47 - 12/06/22 09:17 <sup>1</sup>
Total Recoverable	Analysis	6020A		10	689345	FXG	EET CHI	12/10/22 18:47
Total/NA	Prep	7470A			687510	MJG	EET CHI	11/30/22 10:15 - 11/30/22 12:15 <sup>1</sup>
Total/NA	Analysis	7470A		1	687783	MJG	EET CHI	12/01/22 08:45
Total/NA	Analysis	300.0		1	689188	RES	EET CHI	12/09/22 20:44
Total/NA	Analysis	SM 2540C		1	686397	CLB	EET CHI	11/22/22 02:43
Total/NA	Analysis	SM 4500 CI- E		10	688458	LP	EET CHI	12/06/22 09:50
Total/NA	Analysis	SM 4500 SO4 E		10	687313	LP	EET CHI	11/29/22 11:24

**Client Sample ID: MW-11**  
**Date Collected: 11/16/22 13:09**  
**Date Received: 11/17/22 15:20**

**Lab Sample ID: 500-225637-5**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			688396	BDE	EET CHI	12/06/22 08:47 - 12/06/22 09:17 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	689114	FXG	EET CHI	12/06/22 21:15
Total Recoverable	Prep	3005A			688396	BDE	EET CHI	12/06/22 08:47 - 12/06/22 09:17 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	689195	FXG	EET CHI	12/09/22 21:39
Total Recoverable	Prep	3005A			688396	BDE	EET CHI	12/06/22 08:47 - 12/06/22 09:17 <sup>1</sup>
Total Recoverable	Analysis	6020A		10	689345	FXG	EET CHI	12/10/22 18:50
Total/NA	Prep	7470A			687510	MJG	EET CHI	11/30/22 10:15 - 11/30/22 12:15 <sup>1</sup>
Total/NA	Analysis	7470A		1	687783	MJG	EET CHI	12/01/22 08:48
Total/NA	Analysis	300.0		1	689188	RES	EET CHI	12/09/22 20:56
Total/NA	Analysis	SM 2540C		1	686397	CLB	EET CHI	11/22/22 02:45
Total/NA	Analysis	SM 4500 CI- E		10	688458	LP	EET CHI	12/06/22 09:51
Total/NA	Analysis	SM 4500 SO4 E		10	687313	LP	EET CHI	11/29/22 11:24



# Lab Chronicle

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

Job ID: 500-225637-1

**Client Sample ID: MW-12**  
**Date Collected: 11/16/22 10:23**  
**Date Received: 11/17/22 15:20**

**Lab Sample ID: 500-225637-6**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			688396	BDE	EET CHI	12/06/22 08:47 - 12/06/22 09:17 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	689114	FXG	EET CHI	12/06/22 21:19
Total Recoverable	Prep	3005A			688396	BDE	EET CHI	12/06/22 08:47 - 12/06/22 09:17 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	689195	FXG	EET CHI	12/09/22 21:43
Total Recoverable	Prep	3005A			688396	BDE	EET CHI	12/06/22 08:47 - 12/06/22 09:17 <sup>1</sup>
Total Recoverable	Analysis	6020A		5	689345	FXG	EET CHI	12/10/22 18:54
Total/NA	Prep	7470A			687510	MJG	EET CHI	11/30/22 10:15 - 11/30/22 12:15 <sup>1</sup>
Total/NA	Analysis	7470A		1	687783	MJG	EET CHI	12/01/22 08:50
Total/NA	Analysis	300.0		1	689941	RES	EET CHI	12/14/22 19:16
Total/NA	Analysis	SM 2540C		1	686397	CLB	EET CHI	11/22/22 02:48
Total/NA	Analysis	SM 4500 Cl- E		10	688458	LP	EET CHI	12/06/22 09:51
Total/NA	Analysis	SM 4500 SO4 E		10	687313	LP	EET CHI	11/29/22 11:24

**Client Sample ID: 2S/3S Duplicate**  
**Date Collected: 11/16/22 00:00**  
**Date Received: 11/17/22 15:20**

**Lab Sample ID: 500-225637-7**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			688396	BDE	EET CHI	12/06/22 08:47 - 12/06/22 09:17 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	689114	FXG	EET CHI	12/06/22 21:22
Total Recoverable	Prep	3005A			688396	BDE	EET CHI	12/06/22 08:47 - 12/06/22 09:17 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	689195	FXG	EET CHI	12/09/22 21:47
Total Recoverable	Prep	3005A			688396	BDE	EET CHI	12/06/22 08:47 - 12/06/22 09:17 <sup>1</sup>
Total Recoverable	Analysis	6020A		5	689345	FXG	EET CHI	12/10/22 18:57
Total/NA	Prep	7470A			687510	MJG	EET CHI	11/30/22 10:15 - 11/30/22 12:15 <sup>1</sup>
Total/NA	Analysis	7470A		1	687783	MJG	EET CHI	12/01/22 08:52
Total/NA	Analysis	300.0		1	689188	RES	EET CHI	12/09/22 22:00
Total/NA	Analysis	SM 2540C		1	686397	CLB	EET CHI	11/22/22 02:50
Total/NA	Analysis	SM 4500 Cl- E		10	688458	LP	EET CHI	12/06/22 10:08
Total/NA	Analysis	SM 4500 SO4 E		10	687313	LP	EET CHI	11/29/22 12:01

<sup>1</sup> Completion dates and times are reported or not reported per method requirements or individual lab discretion.

**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

Job ID: 500-225637-1

## Laboratory: Eurofins Chicago

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

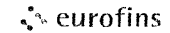
Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-23

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

**Eurofins Chicago**

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

**Chain of Custody Record**



<b>Client Information</b>		Sampler: <b>IAN JOHN HOWIESON</b>	Lab PM: Mockler Diana J	Carrier Tracking No(s):	COC No 500 106660-45300 1							
Client Contact: Mitchel Dolan		Phone: <b>630-325-1300</b>	E Mail: Diana.Mockler@et.eurofinsus.com	State of Origin:	Page Page 1 of 1							
Company KPRG and Associates Inc		PWSID		Job # <b>500-225637</b>								
Address 414 Plaza Drive Suite 106		Due Date Requested		<b>Analysis Requested</b>								
City Westmont		TAT Requested (days)										
State Zip IL 60559		Compliance Project <input type="checkbox"/> Yes <input type="checkbox"/> No										
Phone 500-225637 COC		PO # 4502081393										
Email mitcheld@kprginc.com		WO #		Preservation Codes A HCL M Hexane B NaOH N None C Zn Acetate O AsNaO2 D Nitric Acid P Na2O4S E NaHSO4 Q Na2SO3 F MeOH R Na2S2O3 G Amchlor S H2SO4 H Ascorbic Acid T TSP Dodecahydrate I Ice U Acetone J DI Water V MCAA K EDTA W pH 4-5 L EDA Y Trizma Z other (specify)								
Project Name Will County 2S/3S Event Desc Quarterly GW Monitoring		Project # 50011609										
Site Illinois		SSOW#										
<b>Sample Identification</b>		Sample Date	ACT 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_CLE SM4500_SO4_E	Total Number of containers	Special Instructions/Note
				Preservation Code								
1	MW-05	11-15-22	14:50	G	Water	N	N	X	X	X	5	
2	MW-06	11-16-22	09:38	G	Water	N	N	X	X	X	5	
3	MW-09	11-16-22	14:39	G	Water	N	N	X	X	X	5	
4	MW 10	11-16-22	12:02	G	Water	N	N	X	X	X	5	
5	MW 11	11-16-22	13:09	G	Water	N	N	X	X	X	5	
6	MW-12	11-16-22	10:23	G	Water	N	N	X	X	X	5	
7	2S/3S Duplicate	11-16-22	—	G	Water	N	N	X	X	X	5	
<b>Possible Hazard Identification</b>						<b>Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)</b>						
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological						<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months						
Deliverable Requested I II III IV Other (specify)						Special Instructions/QC Requirements						
Empty Kit Relinquished by			Date	Time	Method of Shipment							
Relinquished by:			Date/Time: 11-17-22 15:20	Company:	Received by:			Date/Time: 11-17-22 1520	Company:			
Relinquished by:			Date/Time:	Company:	Received by:			Date/Time:	Company:			
Relinquished by:			Date/Time:	Company:	Received by:			Date/Time:	Company:			
Custody Seals Intact. <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks. 1.9 → 1.4 2.8 → 1.8, 0.9 → 0.8, 1 → 0.6, 1.5 → 1.0								

# Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-225637-1

**Login Number: 225637**

**List Number: 1**

**Creator: Scott, Sherri L**

**List Source: Eurofins Chicago**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> 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	1.4,1.8,0.4,0.6,1.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



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

Attn: Mitchel Dolan  
KPRG and Associates, Inc.  
414 Plaza Drive Suite 106  
Westmont, Illinois 60559  
Generated 12/22/2022 7:50:47 AM

**JOB DESCRIPTION**

Will County CCR (RAD)

**JOB NUMBER**

500-225637-2

# Eurofins Chicago

## Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

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



Generated  
12/22/2022 7:50:47 AM

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



# Table of Contents

Cover Page . . . . .	1
Table of Contents . . . . .	3
Case Narrative . . . . .	4
Method Summary . . . . .	5
Sample Summary . . . . .	6
Client Sample Results . . . . .	7
Definitions . . . . .	14
QC Association . . . . .	15
QC Sample Results . . . . .	16
Chronicle . . . . .	18
Certification Summary . . . . .	20
Chain of Custody . . . . .	21
Receipt Checklists . . . . .	23
Tracer Carrier Summary . . . . .	25

# Case Narrative

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

Job ID: 500-225637-2

---

## Job ID: 500-225637-2

---

### Laboratory: Eurofins Chicago

#### Narrative

---

#### Job Narrative 500-225637-2

#### Comments

No additional comments.

#### Receipt

The samples were received on 11/17/2022 3:20 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 0.4° C, 0.6° C, 1.0° C, 1.4° C and 1.8° C.

#### RAD

Method 903.0: Radium-226 batch 591407

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-05 (500-225637-1), MW-06 (500-225637-2), MW-09 (500-225637-3), MW-10 (500-225637-4), MW-11 (500-225637-5), MW-12 (500-225637-6), 2S/3S Duplicate (500-225637-7), (LCS 160-591407/2-A), (MB 160-591407/1-A) and (500-225637-C-1-A DU)

Method 904.0: Radium-228 batch 591417

The detection goal was not met for the following sample(s). Sample was prepped at a reduced volume due to the presence of matrix interferences: MW-10 (500-225637-4). Analytical results are reported with the detection limit achieved.

Method 904.0: Radium-228 batch 591417

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-05 (500-225637-1), MW-06 (500-225637-2), MW-09 (500-225637-3), MW-10 (500-225637-4), MW-11 (500-225637-5), MW-12 (500-225637-6), 2S/3S Duplicate (500-225637-7), (LCS 160-591417/2-A), (MB 160-591417/1-A) and (500-225637-C-1-B DU)

Method PrecSep\_0:

Method PrecSep-21:

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



# Method Summary

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

Job ID: 500-225637-2

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 (RAD)

Job ID: 500-225637-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-225637-1	MW-05	Water	11/15/22 14:50	11/17/22 15:20
500-225637-2	MW-06	Water	11/16/22 09:38	11/17/22 15:20
500-225637-3	MW-09	Water	11/16/22 14:39	11/17/22 15:20
500-225637-4	MW-10	Water	11/16/22 12:02	11/17/22 15:20
500-225637-5	MW-11	Water	11/16/22 13:09	11/17/22 15:20
500-225637-6	MW-12	Water	11/16/22 10:23	11/17/22 15:20
500-225637-7	2S/3S Duplicate	Water	11/16/22 00:00	11/17/22 15:20

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

# Client Sample Results

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

Job ID: 500-225637-2

**Client Sample ID: MW-05**

**Lab Sample ID: 500-225637-1**

Date Collected: 11/15/22 14:50

Matrix: Water

Date Received: 11/17/22 15:20

**Method: EPA 903.0 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.108	U	0.0930	0.0935	1.00	0.142	pCi/L	11/29/22 09:20	12/21/22 12:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.0		40 - 110					11/29/22 09:20	12/21/22 12:27	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	0.371	U	0.356	0.357	1.00	0.569	pCi/L	11/29/22 09:44	12/15/22 12:02	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.0		40 - 110					11/29/22 09:44	12/15/22 12:02	1
Y Carrier	80.4		40 - 110					11/29/22 09:44	12/15/22 12:02	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	0.479	U	0.368	0.369	5.00	0.569	pCi/L		12/21/22 18:30	1

# Client Sample Results

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

Job ID: 500-225637-2

**Client Sample ID: MW-06**

**Lab Sample ID: 500-225637-2**

Date Collected: 11/16/22 09:38

Matrix: Water

Date Received: 11/17/22 15:20

**Method: EPA 903.0 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Radium-226</b>	<b>0.170</b>		0.0968	0.0979	1.00	0.125	pCi/L	11/29/22 09:20	12/21/22 12:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.5		40 - 110					11/29/22 09:20	12/21/22 12:27	1

**Method: EPA 904.0 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Radium-228</b>	<b>0.912</b>		0.390	0.399	1.00	0.504	pCi/L	11/29/22 09:44	12/15/22 12:02	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.5		40 - 110					11/29/22 09:44	12/15/22 12:02	1
Y Carrier	83.4		40 - 110					11/29/22 09:44	12/15/22 12:02	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
<b>Combined Radium 226 + 228</b>	<b>1.08</b>		0.402	0.411	5.00	0.504	pCi/L		12/21/22 18:30	1

# Client Sample Results

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

Job ID: 500-225637-2

**Client Sample ID: MW-09**

**Lab Sample ID: 500-225637-3**

Date Collected: 11/16/22 14:39

Matrix: Water

Date Received: 11/17/22 15:20

**Method: EPA 903.0 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0532	U	0.0841	0.0843	1.00	0.145	pCi/L	11/29/22 09:20	12/21/22 12:28	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.2		40 - 110					11/29/22 09:20	12/21/22 12:28	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	0.152	U	0.292	0.292	1.00	0.510	pCi/L	11/29/22 09:44	12/15/22 12:02	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.2		40 - 110					11/29/22 09:44	12/15/22 12:02	1
Y Carrier	82.2		40 - 110					11/29/22 09:44	12/15/22 12:02	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	0.205	U	0.304	0.304	5.00	0.510	pCi/L		12/21/22 18:30	1

# Client Sample Results

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

Job ID: 500-225637-2

**Client Sample ID: MW-10**

**Lab Sample ID: 500-225637-4**

Date Collected: 11/16/22 12:02

Matrix: Water

Date Received: 11/17/22 15:20

**Method: EPA 903.0 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.252		0.166	0.167	1.00	0.227	pCi/L	11/29/22 09:20	12/21/22 12:28	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	61.7		40 - 110					11/29/22 09:20	12/21/22 12:28	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	2.49	G	0.875	0.905	1.00	1.06	pCi/L	11/29/22 09:44	12/15/22 12:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	61.7		40 - 110					11/29/22 09:44	12/15/22 12:04	1
Y Carrier	81.9		40 - 110					11/29/22 09:44	12/15/22 12:04	1

**Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	2.74		0.891	0.920	5.00	1.06	pCi/L		12/21/22 18:30	1

# Client Sample Results

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

Job ID: 500-225637-2

**Client Sample ID: MW-11**

**Lab Sample ID: 500-225637-5**

Date Collected: 11/16/22 13:09

Matrix: Water

Date Received: 11/17/22 15:20

**Method: EPA 903.0 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.491		0.187	0.192	1.00	0.209	pCi/L	11/29/22 09:20	12/21/22 12:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.6		40 - 110					11/29/22 09:20	12/21/22 12:29	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	1.12		0.663	0.671	1.00	0.983	pCi/L	11/29/22 09:44	12/15/22 12:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.6		40 - 110					11/29/22 09:44	12/15/22 12:04	1
Y Carrier	81.1		40 - 110					11/29/22 09:44	12/15/22 12:04	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	1.61		0.689	0.698	5.00	0.983	pCi/L		12/21/22 18:30	1

# Client Sample Results

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

Job ID: 500-225637-2

**Client Sample ID: MW-12**

**Lab Sample ID: 500-225637-6**

Date Collected: 11/16/22 10:23

Matrix: Water

Date Received: 11/17/22 15:20

**Method: EPA 903.0 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0719	U	0.0848	0.0850	1.00	0.139	pCi/L	11/29/22 09:20	12/21/22 12:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.3		40 - 110					11/29/22 09:20	12/21/22 12:29	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	0.963		0.425	0.434	1.00	0.569	pCi/L	11/29/22 09:44	12/15/22 12:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.3		40 - 110					11/29/22 09:44	12/15/22 12:04	1
Y Carrier	83.0		40 - 110					11/29/22 09:44	12/15/22 12:04	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	1.03		0.433	0.442	5.00	0.569	pCi/L		12/21/22 18:30	1



# Client Sample Results

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

Job ID: 500-225637-2

**Client Sample ID: 2S/3S Duplicate**

**Lab Sample ID: 500-225637-7**

Date Collected: 11/16/22 00:00

Matrix: Water

Date Received: 11/17/22 15:20

**Method: EPA 903.0 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0114	U	0.0661	0.0661	1.00	0.130	pCi/L	11/29/22 09:20	12/21/22 12:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.5		40 - 110					11/29/22 09:20	12/21/22 12:29	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	0.200	U	0.349	0.349	1.00	0.600	pCi/L	11/29/22 09:44	12/15/22 12:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.5		40 - 110					11/29/22 09:44	12/15/22 12:04	1
Y Carrier	82.6		40 - 110					11/29/22 09:44	12/15/22 12:04	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	0.211	U	0.355	0.355	5.00	0.600	pCi/L		12/21/22 18:30	1

# Definitions/Glossary

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

Job ID: 500-225637-2

## Qualifiers

### Rad

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

## Glossary

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

# QC Association Summary

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

Job ID: 500-225637-2

## Rad

### Prep Batch: 591407

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225637-1	MW-05	Total/NA	Water	PrecSep-21	
500-225637-2	MW-06	Total/NA	Water	PrecSep-21	
500-225637-3	MW-09	Total/NA	Water	PrecSep-21	
500-225637-4	MW-10	Total/NA	Water	PrecSep-21	
500-225637-5	MW-11	Total/NA	Water	PrecSep-21	
500-225637-6	MW-12	Total/NA	Water	PrecSep-21	
500-225637-7	2S/3S Duplicate	Total/NA	Water	PrecSep-21	
MB 160-591407/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-591407/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-225637-1 DU	MW-05	Total/NA	Water	PrecSep-21	

### Prep Batch: 591417

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225637-1	MW-05	Total/NA	Water	PrecSep_0	
500-225637-2	MW-06	Total/NA	Water	PrecSep_0	
500-225637-3	MW-09	Total/NA	Water	PrecSep_0	
500-225637-4	MW-10	Total/NA	Water	PrecSep_0	
500-225637-5	MW-11	Total/NA	Water	PrecSep_0	
500-225637-6	MW-12	Total/NA	Water	PrecSep_0	
500-225637-7	2S/3S Duplicate	Total/NA	Water	PrecSep_0	
MB 160-591417/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-591417/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-225637-1 DU	MW-05	Total/NA	Water	PrecSep_0	

# QC Sample Results

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

Job ID: 500-225637-2

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

**Lab Sample ID: MB 160-591407/1-A**  
**Matrix: Water**  
**Analysis Batch: 594432**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 591407**

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.03040	U	0.0706	0.0707	1.00	0.128	pCi/L	11/29/22 09:20	12/21/22 12:27	1
Carrier	MB	MB	Limits			Prepared	Analyzed	Dil Fac		
	%Yield	Qualifier								
Ba Carrier	97.1		40 - 110			11/29/22 09:20	12/21/22 12:27	1		

**Lab Sample ID: LCS 160-591407/2-A**  
**Matrix: Water**  
**Analysis Batch: 594432**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 591407**

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	10.44		1.10	1.00	0.139	pCi/L	92	75 - 125
Carrier	LCS	LCS	Limits			Prepared	Analyzed	Dil Fac	
	%Yield	Qualifier							
Ba Carrier	96.4		40 - 110						

**Lab Sample ID: 500-225637-1 DU**  
**Matrix: Water**  
**Analysis Batch: 594432**

**Client Sample ID: MW-05**  
**Prep Type: Total/NA**  
**Prep Batch: 591407**

Analyte	Sample	Sample	DU	DU	Total	RL	MDC	Unit	RER	RER Limit
	Result	Qual	Result	Qual	Uncert. (2σ+/-)					
Radium-226	0.108	U	0.1483		0.100	1.00	0.139	pCi/L	0.21	1
Carrier	DU	DU	Limits			Prepared	Analyzed	Dil Fac		
	%Yield	Qualifier								
Ba Carrier	87.4		40 - 110							

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

**Lab Sample ID: MB 160-591417/1-A**  
**Matrix: Water**  
**Analysis Batch: 593777**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 591417**

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.3878	U	0.298	0.300	1.00	0.452	pCi/L	11/29/22 09:44	12/15/22 12:01	1
Carrier	MB	MB	Limits			Prepared	Analyzed	Dil Fac		
	%Yield	Qualifier								
Ba Carrier	97.1		40 - 110			11/29/22 09:44	12/15/22 12:01	1		
Y Carrier	83.4		40 - 110			11/29/22 09:44	12/15/22 12:01	1		

# QC Sample Results

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

Job ID: 500-225637-2

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

**Lab Sample ID: LCS 160-591417/2-A**  
**Matrix: Water**  
**Analysis Batch: 593777**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 591417**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-228	8.36	9.304		1.27	1.00	0.509	pCi/L	111	75 - 125
<b>LCS LCS</b>									
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>						
Ba Carrier	96.4		40 - 110						
Y Carrier	83.0		40 - 110						

**Lab Sample ID: 500-225637-1 DU**  
**Matrix: Water**  
**Analysis Batch: 593777**

**Client Sample ID: MW-05**  
**Prep Type: Total/NA**  
**Prep Batch: 591417**

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-228	0.371	U	0.7200		0.405	1.00	0.565	pCi/L	0.46	1
<b>DU DU</b>										
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>							
Ba Carrier	87.4		40 - 110							
Y Carrier	81.1		40 - 110							

# Lab Chronicle

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

Job ID: 500-225637-2

## Client Sample ID: MW-05

Date Collected: 11/15/22 14:50

Date Received: 11/17/22 15:20

## Lab Sample ID: 500-225637-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			591407	BMP	EET SL	11/29/22 09:20
Total/NA	Analysis	903.0		1	594432	FLC	EET SL	12/21/22 12:27
Total/NA	Prep	PrecSep_0			591417	BMP	EET SL	11/29/22 09:44
Total/NA	Analysis	904.0		1	593777	FLC	EET SL	12/15/22 12:02
Total/NA	Analysis	Ra226_Ra228		1	594570	CLP	EET SL	12/21/22 18:30

## Client Sample ID: MW-06

Date Collected: 11/16/22 09:38

Date Received: 11/17/22 15:20

## Lab Sample ID: 500-225637-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			591407	BMP	EET SL	11/29/22 09:20
Total/NA	Analysis	903.0		1	594432	FLC	EET SL	12/21/22 12:27
Total/NA	Prep	PrecSep_0			591417	BMP	EET SL	11/29/22 09:44
Total/NA	Analysis	904.0		1	593777	FLC	EET SL	12/15/22 12:02
Total/NA	Analysis	Ra226_Ra228		1	594570	CLP	EET SL	12/21/22 18:30

## Client Sample ID: MW-09

Date Collected: 11/16/22 14:39

Date Received: 11/17/22 15:20

## Lab Sample ID: 500-225637-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			591407	BMP	EET SL	11/29/22 09:20
Total/NA	Analysis	903.0		1	594432	FLC	EET SL	12/21/22 12:28
Total/NA	Prep	PrecSep_0			591417	BMP	EET SL	11/29/22 09:44
Total/NA	Analysis	904.0		1	593777	FLC	EET SL	12/15/22 12:02
Total/NA	Analysis	Ra226_Ra228		1	594570	CLP	EET SL	12/21/22 18:30

## Client Sample ID: MW-10

Date Collected: 11/16/22 12:02

Date Received: 11/17/22 15:20

## Lab Sample ID: 500-225637-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			591407	BMP	EET SL	11/29/22 09:20
Total/NA	Analysis	903.0		1	594432	FLC	EET SL	12/21/22 12:28
Total/NA	Prep	PrecSep_0			591417	BMP	EET SL	11/29/22 09:44
Total/NA	Analysis	904.0		1	593774	FLC	EET SL	12/15/22 12:04
Total/NA	Analysis	Ra226_Ra228		1	594570	CLP	EET SL	12/21/22 18:30

# Lab Chronicle

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

Job ID: 500-225637-2

**Client Sample ID: MW-11**

**Lab Sample ID: 500-225637-5**

**Date Collected: 11/16/22 13:09**

**Matrix: Water**

**Date Received: 11/17/22 15:20**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			591407	BMP	EET SL	11/29/22 09:20
Total/NA	Analysis	903.0		1	594432	FLC	EET SL	12/21/22 12:29
Total/NA	Prep	PrecSep_0			591417	BMP	EET SL	11/29/22 09:44
Total/NA	Analysis	904.0		1	593774	FLC	EET SL	12/15/22 12:04
Total/NA	Analysis	Ra226_Ra228		1	594570	CLP	EET SL	12/21/22 18:30

**Client Sample ID: MW-12**

**Lab Sample ID: 500-225637-6**

**Date Collected: 11/16/22 10:23**

**Matrix: Water**

**Date Received: 11/17/22 15:20**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			591407	BMP	EET SL	11/29/22 09:20
Total/NA	Analysis	903.0		1	594432	FLC	EET SL	12/21/22 12:29
Total/NA	Prep	PrecSep_0			591417	BMP	EET SL	11/29/22 09:44
Total/NA	Analysis	904.0		1	593774	FLC	EET SL	12/15/22 12:04
Total/NA	Analysis	Ra226_Ra228		1	594570	CLP	EET SL	12/21/22 18:30

**Client Sample ID: 2S/3S Duplicate**

**Lab Sample ID: 500-225637-7**

**Date Collected: 11/16/22 00:00**

**Matrix: Water**

**Date Received: 11/17/22 15:20**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			591407	BMP	EET SL	11/29/22 09:20
Total/NA	Analysis	903.0		1	594432	FLC	EET SL	12/21/22 12:29
Total/NA	Prep	PrecSep_0			591417	BMP	EET SL	11/29/22 09:44
Total/NA	Analysis	904.0		1	593774	FLC	EET SL	12/15/22 12:04
Total/NA	Analysis	Ra226_Ra228		1	594570	CLP	EET SL	12/21/22 18:30

**Laboratory References:**

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

# Accreditation/Certification Summary

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

Job ID: 500-225637-2

## Laboratory: Eurofins St. Louis

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

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

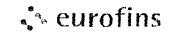
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14



**Eurofins Chicago**

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

**Chain of Custody Record**



<b>Client Information</b>		Sampler: <b>IAN JOHN HOWIESON</b>	Lab PM: Mockler Diana J	Carrier Tracking No(s):	COC No: 500 106660-45300 1																										
Client Contact: Mitchel Dolan		Phone: <b>630-325-1300</b>	E Mail: Diana Mockler@et eurofinsus.com	State of Origin:	Page: Page 1 of 1																										
Company: KPRG and Associates Inc		PWSID		Job #: <b>500-225637</b>																											
Address: 414 Plaza Drive Suite 106 City: Westmont State Zip: IL 60559 Phone: 500-225637 COC		Due Date Requested		<b>Analysis Requested</b>																											
Email: mitcheld@kprginc.com		TAT Requested (days)		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>Field Filtered Sample (Yes or No)</td> <td>Perform MS/MSD (Yes or No)</td> <td>903.0 904.0</td> <td>6010C, 6020A, 7470A</td> <td>2540C 4500_F_C SM4500_C1_E SM4500_S04_E</td> </tr> <tr> <td>Compliance Project <input type="checkbox"/> Yes <input type="checkbox"/> No</td> <td>PO #</td> <td colspan="3"></td> </tr> <tr> <td></td> <td>WO #</td> <td colspan="3"></td> </tr> </table>		Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0 904.0	6010C, 6020A, 7470A	2540C 4500_F_C SM4500_C1_E SM4500_S04_E	Compliance Project <input type="checkbox"/> Yes <input type="checkbox"/> No	PO #					WO #														
Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0 904.0	6010C, 6020A, 7470A			2540C 4500_F_C SM4500_C1_E SM4500_S04_E																									
Compliance Project <input type="checkbox"/> Yes <input type="checkbox"/> No	PO #																														
	WO #																														
Project Name: Will County 2S/3S Event Desc Quarterly GW Monitoring		Project #: 50011609		Preservation Codes																											
Site: Illinois		SSOW#		<table border="0" style="width:100%;"> <tr> <td>A HCL</td> <td>M Hexane</td> </tr> <tr> <td>B NaOH</td> <td>N None</td> </tr> <tr> <td>C Zn Acetate</td> <td>O AsNaO2</td> </tr> <tr> <td>D Nitric Acid</td> <td>P Na2O4S</td> </tr> <tr> <td>E NaHSO4</td> <td>Q Na2SO3</td> </tr> <tr> <td>F MeOH</td> <td>R Na2S2O3</td> </tr> <tr> <td>G Amchlor</td> <td>S H2SO4</td> </tr> <tr> <td>H Ascorbic Acid</td> <td>T TSP Dodecahydrate</td> </tr> <tr> <td>I Ice</td> <td>U Acetone</td> </tr> <tr> <td>J DI Water</td> <td>V MCAA</td> </tr> <tr> <td>K EDTA</td> <td>W pH 4-5</td> </tr> <tr> <td>L EDA</td> <td>Y Trizma</td> </tr> <tr> <td></td> <td>Z other (specify)</td> </tr> </table>		A HCL	M Hexane	B NaOH	N None	C Zn Acetate	O AsNaO2	D Nitric Acid	P Na2O4S	E NaHSO4	Q Na2SO3	F MeOH	R Na2S2O3	G Amchlor	S H2SO4	H Ascorbic Acid	T TSP Dodecahydrate	I Ice	U Acetone	J DI Water	V MCAA	K EDTA	W pH 4-5	L EDA	Y Trizma		Z other (specify)
A HCL	M Hexane																														
B NaOH	N None																														
C Zn Acetate	O AsNaO2																														
D Nitric Acid	P Na2O4S																														
E NaHSO4	Q Na2SO3																														
F MeOH	R Na2S2O3																														
G Amchlor	S H2SO4																														
H Ascorbic Acid	T TSP Dodecahydrate																														
I Ice	U Acetone																														
J DI Water	V MCAA																														
K EDTA	W pH 4-5																														
L EDA	Y Trizma																														
	Z other (specify)																														
<b>Sample Identification</b>		Sample Date	ACT 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_C1_E SM4500_S04_E	Total Number of containers	Special Instructions/Note																			
				Preservation Code																											
1	MW-05	11-15-22	14:50	G	Water	N	N	X	X	X	5																				
2	MW-06	11-16-22	09:38	G	Water	N	N	X	X	X	5																				
3	MW-09	11-16-22	14:39	G	Water	N	N	X	X	X	5																				
4	MW 10	11-16-22	12:02	G	Water	N	N	X	X	X	5																				
5	MW 11	11-16-22	13:09	G	Water	N	N	X	X	X	5																				
6	MW-12	11-16-22	10:23	G	Water	N	N	X	X	X	5																				
7	2S/3S Duplicate	11-16-22	—	G	Water	N	N	X	X	X	5																				
<b>Possible Hazard Identification</b>		<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological				<b>Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)</b>																									
Deliverable Requested I II III IV Other (specify)						<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months																									
Empty Kit Relinquished by		Date	Time	Method of Shipment																											
Relinquished by:		Date/Time: 11-17-22 15:20	Company:	Received by:				Date/Time: 11-22-22 1520	Company:																						
Relinquished by:		Date/Time:	Company:	Received by:				Date/Time:	Company:																						
Relinquished by:		Date/Time:	Company:	Received by:				Date/Time:	Company:																						
Custody Seals Intact. <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks: 1.9 → 1.4 2.8 → 1.8, 0.9 → 0.8, 1 → 0.6, 1.5 → 1.0																											

**Chain of Custody Record**



**Client Information (Sub Contract Lab)**  
 Client Contact: [Blank]  
 Shipping/Receiving: [Blank]  
 Company: TestAmerica Laboratories, Inc.  
 Address: 13715 Ridler Trail North, Earth City, MO 63045  
 Phone: 314-298-8566 (Tel) 314-298-8757 (Fax)  
 Email: [Blank]  
 Project Name: Will County CCR (RAD)  
 Site: NRG Midwest Generation Will County

**Sampler:** Lab PM: Mocker, Diana J  
 Email: Diana.Mocker@eurofins.com  
 Company: Eurofins  
 State of Origin: Illinois  
 COC No: 500-16757-1  
 Page: Page 1 of 1  
 Job #: 500-225637-2  
 Preservation Codes:  
 A - HCL  
 M - Hexane  
 N - None  
 B - NaOH  
 C - Zn Acetate  
 P - AINCO2  
 D - Nitric Acid  
 O - Na2SO3  
 F - MeOH  
 S - H2SO4  
 G - Amchlor  
 H - Ascorbic Acid  
 I - Ice  
 J - Water  
 K - EDTA  
 L - EDA  
 Z - other (specify)  
 Other: [Blank]

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C-Comp, G-Grab)	Matrix (Preservative, Overpack, BPA Free, Aseptic)	Field Filtered Sample (Yes or No)	Perform M/MSD (Yes or No)	903/Precep. 21 Standard Target List	904/Precep. 0 Standard Target List	Razzer228, GFPC	Analysis Requested	Total Number of Containers	Special Instructions/Note:
MW-05 (500-225637-1)	11/15/22	14:50	Central	Water	X	X	X	X	X		3	Batch OC must be performed (dup, spikes, etc) - no NCMs concerning limited volume.
MW-06 (500-225637-2)	11/16/22	09:36	Central	Water	X	X	X	X	X		3	Batch OC must be performed (dup, spikes, etc) - no NCMs concerning limited volume.
MW-09 (500-225637-3)	11/16/22	14:39	Central	Water	X	X	X	X	X		3	Batch OC must be performed (dup, spikes, etc) - no NCMs concerning limited volume.
MW-10 (500-225637-4)	11/16/22	12:02	Central	Water	X	X	X	X	X		3	Batch OC must be performed (dup, spikes, etc) - no NCMs concerning limited volume.
MW-11 (500-225637-5)	11/16/22	13:09	Central	Water	X	X	X	X	X		3	Batch OC must be performed (dup, spikes, etc) - no NCMs concerning limited volume.
MW-12 (500-225637-6)	11/16/22	10:23	Central	Water	X	X	X	X	X		3	Batch OC must be performed (dup, spikes, etc) - no NCMs concerning limited volume.
2S/3S Duplicate (500-225637-7)	11/16/22		Central	Water	X	X	X	X	X		3	Batch OC must be performed (dup, spikes, etc) - no NCMs concerning limited volume.

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 hold the accreditation for the analyte listed above for analysis/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 requests/accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

**Possible Hazard Identification**  
 Unconfirmed  
 Deliverable Requested: I, II, III, IV, Other (specify) \_\_\_\_\_  
 Empty Kit Relinquished by: \_\_\_\_\_  
 Date: \_\_\_\_\_

**Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)**  
 Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months  
 Special Instructions/OC Requirements: \_\_\_\_\_

Relinquished by: Walter Carbajal Date/Time: 11/15/22 16:00 Company: FEDEX  
 Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_  
 Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_

Custody Seal No.: \_\_\_\_\_  
 A Yes A No



# Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-225637-2

**Login Number: 225637**

**List Number: 1**

**Creator: Scott, Sherri L**

**List Source: Eurofins Chicago**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> 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	1.4,1.8,0.4,0.6,1.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

## Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-225637-2

**Login Number: 225637**

**List Number: 2**

**Creator: Bohlmann, Jessica M**

**List Source: Eurofins St. Louis**

**List Creation: 11/21/22 01:47 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	

# Tracer/Carrier Summary

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

Job ID: 500-225637-2

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

Matrix: Water

Prep Type: Total/NA

### Percent Yield (Acceptance Limits)

Lab Sample ID	Client Sample ID	Ba (40-110)
500-225637-1	MW-05	91.0
500-225637-1 DU	MW-05	87.4
500-225637-2	MW-06	91.5
500-225637-3	MW-09	84.2
500-225637-4	MW-10	61.7
500-225637-5	MW-11	81.6
500-225637-6	MW-12	90.3
500-225637-7	2S/3S Duplicate	84.5
LCS 160-591407/2-A	Lab Control Sample	96.4
MB 160-591407/1-A	Method Blank	97.1

#### Tracer/Carrier Legend

Ba = Ba Carrier

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

Matrix: Water

Prep Type: Total/NA

### Percent Yield (Acceptance Limits)

Lab Sample ID	Client Sample ID	Ba (40-110)	Y (40-110)
500-225637-1	MW-05	91.0	80.4
500-225637-1 DU	MW-05	87.4	81.1
500-225637-2	MW-06	91.5	83.4
500-225637-3	MW-09	84.2	82.2
500-225637-4	MW-10	61.7	81.9
500-225637-5	MW-11	81.6	81.1
500-225637-6	MW-12	90.3	83.0
500-225637-7	2S/3S Duplicate	84.5	82.6
LCS 160-591417/2-A	Lab Control Sample	96.4	83.0
MB 160-591417/1-A	Method Blank	97.1	83.4

#### Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier

PROJECT NAME	NRG - WILL COUNTY STATION (12313.3)		DATE	11-15-22
Sample Name	MW-05	Start Time	14:35 CT	
Condition of Well	GOOD			
Water Level	10.69	Total Depth	—	
Well Diameter	PVC - 2 inch	Volume in Well	—	
Method of Purge	Low-Flow	Purge Characteristics	SLIGHT TINT WITH ORANGE COLOR PARTICLES	
Volume Removed	3 QTS.	WL at Sample Time	10.71	
Method of Sample	Low-Flow	Sample Characteristics	SLIGHT FLURBS & TINT / ORANGE PARTICLES.	
Sample Analysis	CCR	Sample Time	14:50 CT	
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)
14:38	10.70	6.88	13.7	1.084	4.35	57.0	26.5
14:41	10.69	6.82	13.6	1.084	3.45	51.7	45.3
14:44	10.70	6.80	13.3	1.074	2.60	48.5	39.5
14:47	10.72	6.79	13.5	1.079	2.20	47.8	37.8
14:50	10.72	6.78	13.4	1.074	2.07	51.2	38.9

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates

IAN JOHN HANCOCKSON



PROJECT NAME	NRG - WILL COUNTY STATION (12313.3)		DATE	11-16-22
Sample Name	MW-06	Start Time	09:26 CT	
Condition of Well	Good			
Water Level	12.1	Total Depth	—	
Well Diameter	PVC - 2 inch	Volume in Well	—	
Method of Purge	Low-Flow	Purge Characteristics	APPEARS CLEAR SLIGHT ODOR	
Volume Removed	3 QTS	W L at Sample Time	12.18	
Method of Sample	Low-Flow	Sample Characteristics	APPEARS CLEAR SLIGHT ODOR	
Sample Analysis	CCR	Sample Time	09:38 CT	
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)
09:29	12.20	7.37	14.6	0.833	1.42	-100.8	13.76
09:32	12.20	7.40	14.2	0.823	1.04	-108.9	10.37
09:35	12.24	7.40	14.0	0.821	0.96	-111.3	9.02
09:38	12.19	7.41	13.8	0.821	0.92	-113.9	8.12

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates

LAW JOHN HANLSON 


PROJECT NAME	NRG - WILL COUNTY STATION (12313.3)		DATE	11-16-22
Sample Name	MW-09	Start Time	14:15 CT	
Condition of Well	GOOD			
Water Level	12.21	Total Depth	—	
Well Diameter	PVC - 2 inch	Volume in Well	—	
Method of Purge	Low-Flow	Purge Characteristics	APPEARS CLEAR SLIGHT ODOR	
Volume Removed	4.5 QTS	W L at Sample Time	12.33	
Method of Sample	Low-Flow	Sample Characteristics	APPEARS CLEAR	
Sample Analysis	CCR WIS + 2S3S	Sample Time	14:39 CT	
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)
14:18	12.28	7.87	12.3	1.016	5.29	-144.0	5.76
14:21	12.29	7.75	11.3	0.991	5.72	-147.7	7.45
14:24	12.26	8.34	10.1	0.959	5.30	-161.3	10.23
14:27	12.29	8.84	9.0	0.907	2.15	-167.6	12.89
14:30	12.32	8.84	11.6	0.974	1.63	-164.1	12.27
14:33	12.34	8.83	11.9	0.986	1.62	-159.7	12.76
14:36	12.37	8.82	12.7	1.005	1.52	-155.2	11.75
14:39	12.41	8.82	12.6	1.003	1.50	-151.8	11.73

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates

IAN JOHN HOUISON 




PROJECT NAME	NRG - WILL COUNTY STATION (12313.3)		DATE	11-16-22
Sample Name	MW-10	Start Time	11:47 CT	
Condition of Well	GOOD			
Water Level	11.10	Total Depth	—	
Well Diameter	PVC - 2 inch	Volume in Well	—	
Method of Purge	Low-Flow	Purge Characteristics	APPEARS CLEAR	
Volume Removed	3 QRS.	W L at Sample Time	11.18	
Method of Sample	Low-Flow	Sample Characteristics	APPEARS CLEAR	
Sample Analysis	CCR	Sample Time	12:02 CT	
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)
11:50	11.16	7.15	13.7	1.204	3.03	-96.8	45.1
11:53	11.22	7.15	13.1	1.203	2.07	-100.1	43.1
11:56	11.19	7.15	12.2	1.180	1.58	-100.7	40.5
11:59	11.18	7.15	11.7	1.166	1.47	-100.2	37.8
12:02	11.18	7.15	11.5	1.160	1.40	-100.1	32.4

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates


IAS Seth Howison 

PROJECT NAME	NRG - WILL COUNTY STATION (12313.3)		DATE	11-16-22
Sample Name	MW-11	Start Time	12:51	
Condition of Well	GOOD			
Water Level	10.86	Total Depth	---	
Well Diameter	PVC - 2 inch	Volume in Well	---	
Method of Purge	Low-Flow	Purge Characteristics	CLOUDY MOD TURBIDITY	
Volume Removed	3.5 QTS	W L at Sample Time	11.04	
Method of Sample	Low-Flow	Sample Characteristics	CLOUDY SLIGHT TURBIDITY	
Sample Analysis	CCR	Sample Time	13:09 CT	
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)
12:54	10.94	7.33	12.7	1.009	3.45	-111.3	89.9
12:57	10.98	7.37	12.7	0.996	1.83	-125.4	76.4
13:00	11.02	7.36	12.6	0.994	1.45	-127.1	69.5
13:03	11.04	7.35	12.5	0.996	1.22	-128.9	66.4
13:06	11.05	7.35	12.8	0.999	1.09	-130.8	58.8
13:09	11.04	7.34	12.9	1.002	1.04	-131.2	60.3

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates IAN JOHN HOWIESON 

PROJECT NAME	NRG - WILL COUNTY STATION (12313.3)		DATE	11-16-22
Sample Name	MW-12	Start Time	10:05 CT	
Condition of Well	GOOD			
Water Level	10.7	Total Depth	—	
Well Diameter	PVC - 2 inch	Volume in Well	—	
Method of Purge	Low-Flow	Purge Characteristics	APPEARS CLEAR SLIGHT ODOR	
Volume Removed	4 QTS	W L at Sample Time	10.74	
Method of Sample	Low-Flow	Sample Characteristics	APPEARS CLEAR SLIGHT ODOR	
Sample Analysis	CCR + CCR DUPS	Sample Time	10:23 CT	
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)
10:08	10.75	7.05	12.9	1.361	2.88	-6.6	5.74
10:11	10.72	7.05	12.6	1.350	2.50	-5.6	4.56
10:14	10.76	7.07	11.7	1.317	1.95	0.8	4.93
10:17	10.74	7.08	11.5	1.312	1.67	8.6	4.10
10:20	10.74	7.09	11.8	1.325	1.27	17.4	3.05
10:23	10.74	7.09	11.9	1.323	1.19	19.1	2.85

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates

IAN JOHN HANLSON 