

## **DATA SUMMARY POSTING**

Station: Midwest Generation Joliet #9 Generating Station

Regulated Unit(s): Lincoln Stone Quarry (IEPA ID No. W1970450046-01)

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

No background statistics or proposed Groundwater Protection Standards are included on these tables. The background statistics and Proposed Groundwater Protection Standards were submitted to Illinois Environmental Protection Agency (EPA) as part of the Application for Initial Operating Permit 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 Results - Midwest Generation, LLC, Joliet Station #9, Joliet, 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
G45S up-gradient	11/20/2015	0.81	120	180	0.35	7.20	360	810	< 0.003	0.0081	0.044	^< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.036	< 0.0002	0.0120	1.76	< 0.0025	< 0.002
	5/12/2016	0.68	110	140	0.34	7.37	230	860	< 0.003	0.0076	0.041	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.036	< 0.0002	0.0100	3.01	< 0.0025	< 0.002
	6/30/2016	0.48	87	110	0.34	7.50	170	670	< 0.003	0.0075	0.031	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.034	< 0.0002	0.008	2.05	< 0.0025	< 0.002
	8/25/2016	0.47	94	100	0.35	7.28	170	790	< 0.003	0.0076	0.036	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.031	< 0.0002	0.0086	1.91	< 0.0025	< 0.002
	11/16/2016	0.41	91	90	0.33	7.34	170	620	< 0.003	0.0079	0.033	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.028	< 0.0002	0.0094	2.04	< 0.0025	< 0.002
	2/14/2017	0.43	97	97	0.32	7.36	160	620	< 0.003	0.0093	0.037	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.029	< 0.0002	0.0083	1.85	< 0.0025	< 0.002
	5/23/2017	0.36	85	110	0.35	7.30	150	660	< 0.003	0.0082	0.033	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.027	< 0.0002	0.0093	1.40	< 0.0025	< 0.002
	7/7/2017	0.42	94	120	< 0.1	7.21	150	600	< 0.003	0.0086	0.035	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.030	< 0.0002	0.007	1.88	< 0.0025	< 0.002
	9/26/2017	0.43	110	130	0.3	7.21	160	790	< 0.003	0.0096	0.04	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.029	< 0.0002	0.0079	2.14	< 0.0025	< 0.002
	11/21/2017	0.34	96	130	0.33	7.29	180	700	< 0.003	0.0094	0.038	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.028	< 0.0002	0.0072	8.45	< 0.0025	< 0.002
	3/9/2018	0.38	97	110	0.32	7.18	180	710	< 0.003	0.0093	0.036	^< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.028	^< 0.0002	0.008	1.89	< 0.0025	< 0.002
	5/21/2018	0.76	110	150	0.33	7.00	230	970	NA	0.0072	0.047	NA	NA	NA	< 0.001	< 0.0005	0.033	NA	0.013	2.37	< 0.0025	NA
	12/7/2018	0.46	91	120	0.33	7.02	100	740	NA	0.0090	0.034	NA	NA	NA	< 0.001	< 0.0005	0.031	NA	0.0100	1.910	< 0.0025	NA
	6/28/2019	0.39	96	130	0.33	7.51	120	720	NA	0.0100	0.039	NA	NA	NA	< 0.001	< 0.0005	0.032	NA	0.0087	1.99	< 0.0025	NA
	11/14/2019	0.48	110	170	0.33	7.33	170	830	NA	< 0.0100	0.042	NA	NA	NA	< 0.001	< 0.0005	0.034	NA	0.0100	2.89	< 0.010	NA
	6/26/2020	0.62	130	220	0.33	7.21	240	970	NA	0.011	0.049	NA	NA	NA	< 0.001	< 0.0005	0.039	NA	0.0088	3.1	< 0.0025	NA
	12/11/2020	0.70	120	180	0.38	7.16	220	760	NA	0.011	0.042	NA	NA	NA	< 0.001	^< 0.0005	0.038	NA	0.012	1.88	< 0.0025	NA
	6/28/2021	0.44	91	110	0.35	7.20	150	680	< 3.0	0.01	0.034	< 1.0	< 0.50	< 5.00	< 0.001	< 0.0005	0.031	< 0.0002	0.0083	2.14	< 0.0025	< 2.0
	9/23/2021	0.39	85	110	0.35	7.43	140	690	< 0.003	0.01	0.36	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.030	< 0.0002	0.0076	2.77	< 0.0025	< 0.002
	12/16/2021	0.34	84	87	0.36	7.35	130	510	< 0.003	0.0092	0.037	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0005	0.028	< 0.0002	0.0073	1.74	< 0.0025	< 0.002
T03S up-gradient	11/19/2015	0.5	110	75	0.22	7.07	250	710	< 0.003	0.0019	0.063	^< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.019	< 0.0002	0.0260	1.01	< 0.0025	< 0.002
	5/5/2016	0.84	100	100	0.21	7.16	190	820	< 0.003	0.0013	0.081	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.018	< 0.0002	0.03	1.43	< 0.0025	< 0.002
	6/28/2016	0.98	100	94	0.19	7.30	180	910	< 0.003	0.0011	0.086	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.017	< 0.0002	0.037	1.18	< 0.0025	< 0.002
	8/25/2016	1.1	110	94	0.20	7.22	180	880	< 0.003	0.0012	0.086	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.016	< 0.0002	0.043	1.54	< 0.0025	< 0.002
	11/17/2016	1.3	120	100	0.19	7.14	150	860	< 0.003	0.0012	0.096	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.022	< 0.0002	0.14	1.61	< 0.0025	< 0.002
	2/15/2017	1.0	98	110	0.19	7.36	230	810	< 0.003	0.0011	0.086	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.001	< 0.0002	0.12	0.938	< 0.0025	< 0.002
	5/22/2017	1.4	110	78	0.23	7.25	160	740	< 0.003	0.0017	0.088	^< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.015	< 0.0002	0.13	1.21	< 0.0025	< 0.002
	7/7/2017	1.1	100	FI	< 0.1	7.32	180	710	< 0.003	< 0.001	0.078	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.019	< 0.0002	0.099	1.11	< 0.0025	< 0.002
	9/26/2017	1.3	110	80	0.21	7.19	240	790	< 0.003	0.0011	0.086	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.013	< 0.0002	0.14	1.33	< 0.0025	< 0.002
	11/20/2017	1.7	98	90	0.24	7.13	230	770	< 0.003	0.0014	0.087	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.02	< 0.0002	0.20	1.59	< 0.0025	< 0.002
	3/7/2018	1.5	110	110	0.23	7.34	250	900	< 0.003	0.0023	0.093	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.022	< 0.0002	0.26	1.30	< 0.0025	< 0.002
	5/17/2018	1.8	100	82	0.24	7.07	210	890	NA	0.001	0.087	NA	NA	NA	0.0013	< 0.0005	0.021	NA	0.240	1.25	< 0.0025	NA
	12/11/2018	1.8	100	140	0.23	6.96	160	890	NA	0.0014	0.095	NA	NA	NA	0.0012	< 0.0005	0.021	NA	0.270	1.31	< 0.0025	NA
	6/24/2019	2.7	100	89	0.27	7.17	260	830	NA	0.0020	0.090	NA	NA	NA	0.0010	< 0.0005	0.027	NA	0.370	1.33	< 0.0025	NA
	10/28/2019	1.5	100	73	0.25	7.19	< 500	780	NA	< 0.0100	0.088	NA	NA	NA	0.0011	< 0.0050	0.026	NA	0.210	1.38	< 0.0100	NA
	6/23/2020	2.3	97	74	0.33	7.29	240	770	NA	0.0024	0.093	NA	NA	NA	< 0.001	< 0.0005	0.025	NA	0.23	1.65	< 0.0025	NA
	12/15/2020	1.4	140	FI	0.27	7.01	280	960	NA	0.0013	0.11	NA	NA	NA	0.0015	< 0.0005	0.029	NA	0.174	1.74	< 0.0025	NA
	6/22/2021	0.92	120	130	0.23	6.94	220	980	< 0.003	0.0016	0.085	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.031	H< 0.0002	0.071	1.34	< 0.0025	< 0.002
	9/20/2021	1.2	110	110	0.21	7.45	250	640	< 0.003	0.0014	0.083	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.029	< 0.0002	0.12	1.31	< 0.0025	< 0.002
	12/9/2021	2.4	130	110	0.23	7.48	FI	280	870	< 0.003	0.0011	0.085	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.026	< 0.0002	0.22	1.44	< 0.0025
R08S down-gradient	11/23/2015	6.9	130	77	0.19	7.80	520	740	< 0.003	0.0019	0.052	^< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.14	< 0.0002	0.410	1.608	0.0061	< 0.002
	5/6/2016	6.1	120	80	0.19	7.70	380	820	< 0.003	0.0013	0.052	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.14	< 0.0002	0.390	1.08	0.0079	< 0.002
	6/28/2016	6.8	130	89	0.18	7.49	320	960	< 0.003	0.0019	0.056	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.14	< 0.0002	0.37	1.87	FI 0.0074	< 0.002
	8/25/2016	6.3	120	84	0.19	7.54	350	890	< 0.003	0.0015	0.053	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.13	< 0.0002	0.33	1.50	0.0032	< 0.002
	11/21/2016	6.4	120	86	0.17	7.53	280	790	< 0.003	0.0016	0.052	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.140	< 0.0002	0.36	2.13	0.0037	< 0.002
	2/14/2017	5.4	150	220	0.17	7.55	280	1,000	< 0.003	0.002	0.081	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.120	< 0.0002	0.3	2.71	0.0029	< 0.002
	3/25/2017	12	250	90	0.17																	

Table 1. Groundwater Analytical Results - Midwest Generation, LLC, Joliet Station #9, Joliet, 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	
R32S down-gradient	11/19/2015	1.3	99	88	0.28	7.32	210	640	< 0.003	0.0018	0.033	^A < 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.04	< 0.0002	0.16	1.928	< 0.0025	< 0.002	
	5/5/2016	1.9	100	140	0.32	7.38	210	810	< 0.003	0.0034	0.039	^A < 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.069	< 0.0002	0.29	2.26	< 0.0025	< 0.002	
	6/29/2016	2.5	110	110	0.35	7.53	280	860	< 0.003	0.0021	0.042	^A < 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.065	< 0.0002	0.43	2.12	< 0.0025	< 0.002	
	8/26/2016	3.0	120	100	0.4	7.30	330	850	< 0.003	0.0014	0.043	^A < 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.056	< 0.0002	0.48	2.39	< 0.0025	< 0.002	
	11/18/2016	3.3	120	99	0.34	7.38	270	830	< 0.003	0.0016	0.042	^A < 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.063	< 0.0002	0.55	3.17	< 0.0025	< 0.002	
	2/16/2017	FI	4.0	120	99	0.34	7.39	340	830	< 0.003	0.002	0.039	^A < 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.064	< 0.0002	0.57	1.76	FI < 0.0025	< 0.002
	5/25/2017		8.3	240	88	0.42	7.54	320	850	< 0.006	0.0042	0.075	^A < 0.002	< 0.001	< 0.002	< 0.001	< 0.0005	0.14	< 0.0002	1.4	1.82	< 0.005	< 0.004
	7/7/2017		6.2	120	96	0.42	7.61	360	830	< 0.003	0.0043	0.044	^A < 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.1	< 0.0002	0.87	2.08	< 0.0025	< 0.002
	9/28/2017		4.8	140	78	0.36	7.29	290	870	< 0.003	0.003	0.044	^A < 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.086	< 0.0002	0.57	1.79	< 0.0025	< 0.002
	11/21/2017		5.7	120	97	0.38	7.50	390	900	< 0.003	0.0037	0.041	^A < 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.11	< 0.0002	0.74	1.82	< 0.0025	< 0.002
	3/7/2018		5.8	130	86	0.32	7.57	350	880	< 0.003	0.0029	0.042	^A < 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.11	< 0.0002	0.67	2.56	< 0.0025	< 0.002
	5/21/2018		4.4	120	77	0.29	7.13	310	1,000	NA	0.0024	0.04	NA	NA	< 0.001	< 0.0005	0.1	NA	0.64	2.22	< 0.0025	NA	
	12/13/2018		3.5	120	FI	0.26	7.43	280	880	NA	0.0019	0.043	NA	NA	< 0.001	< 0.0005	0.17	NA	0.560	2.23	< 0.0025	NA	
	6/27/2019		6.3	140	74	0.27	7.33	380	880	NA	0.0027	0.041	NA	NA	< 0.001	< 0.0005	0.090	NA	0.810	2.67	< 0.0025	NA	
	11/6/2019		4.8	150	69	0.27	7.45	360	820	NA	< 0.01	0.039	NA	NA	< 0.001	< 0.0005	0.13	NA	0.580	2.370	< 0.0100	NA	
	6/29/2020		6.0	130	71	0.28	7.47	400	790	NA	0.0021	0.038	NA	NA	< 0.001	< 0.0005	0.11	NA	0.64	3.92	< 0.0025	NA	
	12/16/2020		6.1	150	FI	0.34	7.43	430	840	NA	0.0025	0.038	NA	NA	< 0.001	^A+ < 0.0005	0.11	NA	0.75	3.22	FI < 0.0025	NA	
	6/28/2021	B	4.0	130	56	0.30	7.16	430	790	< 3.0	< 0.001	0.036	< 1.0	< 0.5	< 5.0	< 0.001	< 0.0005	0.071	< 0.0002	0.53	2.10	< 0.0025	< 2.0
	9/30/2021		6.0	160	62	0.31	7.47	520	970	< 0.003	0.0029	0.037	^A+ < 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.12	< 0.0002	0.95	2.45	< 0.0025	< 0.002
	12/15/2021		4.9	150	59	0.32	7.42	490	930	< 0.003	0.0016	0.037	^A+ < 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.097	< 0.0002	0.75	2.68	< 0.0025	< 0.002
	G44S down-gradient	11/20/2015	1.0	120	43	0.21	7.11	220	640	< 0.003	0.0012	0.053	^A < 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.017	< 0.0002	0.1000	1.161	< 0.0025	< 0.002
5/9/2016		0.91	110	37	0.18	7.39	120	690	< 0.003	< 0.001	0.049	^A < 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.015	< 0.0002	0.046	< 0.415	< 0.0025	< 0.002	
6/30/2016		0.69	100	32	0.18	7.59	99	620	< 0.003	< 0.001	0.044	^A < 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.014	< 0.0002	0.025	0.879	< 0.0025	< 0.002	
8/26/2016		0.89	120	36	0.19	7.12	110	710	< 0.003	< 0.001	0.053	^A < 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.014	< 0.0002	0.047	0.816	< 0.0025	< 0.002	
11/16/2016		0.82	120	26	0.17	7.15	88	530	< 0.003	< 0.001	0.048	^A < 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.011	< 0.0002	0.041	0.475	< 0.0025	< 0.002	
2/16/2017		0.86	120	30	0.15	7.38	120	620	< 0.003	< 0.001	0.051	^A < 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.014	< 0.0002	0.044	0.729	< 0.0025	< 0.002	
5/24/2017		0.83	120	31	0.19	7.08	95	600	< 0.003	< 0.001	0.048	^A < 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.011	< 0.0002	0.031	1.02	< 0.0025	< 0.002	
7/10/2017		0.83	110	30	< 0.1	7.00	110	700	< 0.003	< 0.001	0.049	^A < 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.012	< 0.0002	0.061	0.667	< 0.0025	< 0.002	
9/28/2017		0.99	130	30	0.19	7.13	100	730	< 0.003	< 0.001	0.048	^A < 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.014	< 0.0002	0.081	0.614	< 0.0025	< 0.002	
11/21/2017		0.79	110	35	0.18	7.06	120	640	< 0.003	< 0.001	0.051	^A < 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.016	< 0.0002	0.055	0.913	< 0.0025	< 0.002	
3/7/2018		0.91	120	36	0.18	7.19	110	670	< 0.003	0.0014	0.053	^A < 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.017	< 0.0002	0.049	1.31	< 0.0025	< 0.002	
5/17/2018		0.98	120	35	0.18	7.02	96	780	NA	< 0.001	0.054	NA	NA	< 0.001	< 0.0005	0.016	NA	0.071	0.714	< 0.0025	NA		
12/10/2018		1.1	120	43	0.19	7.41	78	630	NA	< 0.001	0.057	NA	NA	< 0.001	< 0.0005	0.019	NA	0.14	0.454	< 0.0025	NA		
6/19/2019		1.3	130	59	0.19	7.02	140	720	NA	< 0.001	0.062	NA	NA	< 0.001	< 0.0005	0.023	NA	0.13	0.841	< 0.0025	NA		
11/12/2019		1.3	140	53	0.21	7.22	160	670	NA	< 0.01	0.065	NA	NA	< 0.001	< 0.0005	0.026	NA	0.20	1.01	< 0.01	NA		
6/29/2020		1.4	130	52	0.21	7.30	160	670	NA	< 0.001	0.06	NA	NA	< 0.001	< 0.0005	0.024	NA	0.15	1.860	< 0.0025	NA		
12/15/2020		1.7	140	52	0.25	7.17	180	650	NA	< 0.001	0.062	NA	NA	< 0.001	< 0.0005	0.03	NA	0.28	1.18	< 0.0025	NA		
6/30/2021		B	1.9	120	65	0.21	7.00	170	730	< 3.0	< 0.001	0.058	^A+ < 1.0	< 0.5	< 5.0	< 0.001	< 0.0005	0.026	< 0.0002	0.22	1.29	< 0.0025	< 2.0
9/27/2021			0.39	130	62	0.20	7.30	180	650	< 0.003	< 0.001	0.065	^A+ < 0.001	< 0.0005	< 0.0005	< 0.001	< 0.0005	0.0056	< 0.0002	0.29	1.19	< 0.0025	< 0.002
12/16/2021			1.9	140	62	0.20	7.21	170	690	< 0.003	< 0.001	0.066	^A+ < 0.001	< 0.0005	< 0.0005	< 0.001	< 0.0005	0.027	< 0.0002	0.29	1.12	< 0.0025	< 0.002
G46S down-gradient		11/23/2015	6.0	110	80	0.27	7.32	430	780	< 0.003	0.0033	0.064	^A < 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.073	< 0.0002	0.5	1.468	< 0.0025	< 0.002
	5/9/2016	7.7	100	100	0.28	7.77	360	940	< 0.003	0.0018	0.099	^A < 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.11	< 0.0002	0.7	1.85	< 0.0025	< 0.002	
	6/30/2016	7.9	100	99	0.29	8.26	290	880	< 0.003	0.0014	0.098	^A < 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.13	< 0.0002	0.71	1.94	< 0.0025	< 0.002	
	8/26/2016	7.2	100	120	0.35	7.48	350	1,000	< 0.003	0.0027	0.054	^A < 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.13	< 0.0002	1.2	1.17	< 0.0025	< 0.002	
	11/18/2016	6.5	110	120	0.39	7.56	330	1,000	< 0.003	0.0025	0.051	^A < 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.13	< 0.0002	1.8	< 0.601	< 0.0025	< 0.002	
	2/16/2017	6.1	100	150	0.41	7.94	410	1,000	< 0.003	0.0024	0.053	^A < 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.091	< 0.0002	1.4				

Table 2. Groundwater Turbidity - Midwest Generation, LLC, Joliet #9 Generating Station

Well ID	Date	Turbidity (NTU)
G45S	3/12/2021	0.87
	4/5/2021	0.33
	4/23/2021	0.54
	5/18/2021	0.36
	6/8/2021	0.64
	7/2/2021	1.4
	8/12/2021	0.36
	9/2/2021	0.46
	12/16/2021	0.89
T03S	3/15/2021	2.42
	4/1/2021	0.44
	4/22/2021	94
	5/17/2021	0.47
	6/7/2021	0.47
	7/1/2021	0.3
	8/12/2021	0.34
	9/1/2021	0.67
	12/9/2021	0.56
R08S	3/12/2021	0.19
	4/1/2021	0.46
	4/23/2021	0.34
	5/18/2021	0.24
	6/8/2021	0.2
	7/1/2021	0.17
	8/12/2021	0.58
	9/2/2021	0.42
	12/14/2021	0.57
G20S	3/12/2021	0.32
	4/1/2021	0.29
	4/22/2021	0.14
	5/18/2021	0.63
	6/8/2021	0.2
	7/1/2021	0.29
	8/12/2021	0.32
	9/2/2021	0.48
	12/10/2021	1.28
G30S	3/12/2021	0.05
	4/2/2021	0.14
	4/23/2021	0.25
	5/18/2021	0.43
	6/8/2021	0.61
	7/2/2021	0.48
	8/13/2021	0.31
	9/2/2021	0.48
	12/15/2021	0.09

Table 2. Groundwater Turbidity - Midwest Generation, LLC, Joliet #9 Generating Station

Well ID	Date	Turbidity (NTU)
R32S	3/12/2021	0.42
	4/5/2021	0.81
	4/23/2021	1.23
	5/18/2021	1.78
	6/8/2021	1.14
	7/2/2021	0.42
	8/13/2021	0.57
	9/30/2021	0.39
	12/15/2021	0.84
G44S	3/15/2021	3.66
	4/5/2021	3.89
	4/23/2021	3.31
	5/18/2021	1.41
	6/8/2021	1.42
	7/2/2021	1.37
	8/12/2021	1.56
	9/2/2021	1.38
	12/16/2021	1.29
G46S	3/15/2021	18.4
	4/5/2021	106.5
	4/23/2021	59.2
	5/18/2021	181
	6/8/2021	3140
	7/1/2021	11.6
	8/12/2021	112
	9/2/2021	43.3
	12/15/2021	73.1
G47S	3/15/2021	0.12
	4/5/2021	0.1
	4/22/2021	0.16
	5/18/2021	0.14
	6/8/2021	0.53
	7/1/2021	0.3
	8/13/2021	0.18
	9/2/2021	0.68
	12/16/2021	0.59
G48S	3/15/2021	0.47
	4/5/2021	0.14
	4/22/2021	0.22
	5/18/2021	0.44
	6/8/2021	0.24
	7/1/2021	0.91
	8/13/2021	0.23
	9/2/2021	0.63
	12/16/2021	0.62

## ANALYTICAL REPORT

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

Laboratory Job ID: 500-209450-1  
Client Project/Site: Joliet #9 (Quarry) CCR 4Q21

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

Attn: Richard Gnat



Authorized for release by:  
1/3/2022 9:54:45 AM

Diana Mockler, Project Manager I  
(219)252-7570  
[Diana.Mockler@Eurofinset.com](mailto:Diana.Mockler@Eurofinset.com)

### LINKS

Review your project  
results through  
**TotalAccess**

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[www.eurofinsus.com/Env](http://www.eurofinsus.com/Env)

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*



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# Case Narrative

Client: KPRG and Associates, Inc.  
Project/Site: Joliet #9 (Quarry) CCR 4Q21

Job ID: 500-209450-1

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## Job ID: 500-209450-1

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Laboratory: Eurofins North Central, Chicago

### Narrative

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#### Job Narrative 500-209450-1

#### Comments

No sample collected on 12/15/21 for sample 500-209450-16 due to property development/excavation.  
No additional comments.

#### Receipt

The samples were received on 12/8/2021 2:29 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 7 coolers at receipt time were 1.0° C, 2.1° C, 3.0° C, 3.2° C, 3.7° C, 3.8° C and 3.9° C.

#### Metals

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

#### General Chemistry

Method SM 2540C: The matrix spike (MS) recovery for analytical batch 500-633495 was outside control limits for TDS. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. (500-209450-E-3 MS)

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: Joliet #9 (Quarry) CCR 4Q21

Job ID: 500-209450-1

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

#### Protocol References:

EPA = US Environmental Protection Agency

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

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

#### Laboratory References:

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

# Sample Summary

Client: KPRG and Associates, Inc.  
Project/Site: Joliet #9 (Quarry) CCR 4Q21

Job ID: 500-209450-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-209450-1	T09S	Water	12/08/21 11:28	12/08/21 14:29
500-209450-2	T06S	Water	12/08/21 13:06	12/08/21 14:29
500-209450-3	T02S	Water	12/09/21 09:39	12/09/21 14:48
500-209450-4	T08S	Water	12/09/21 11:48	12/09/21 14:48
500-209450-5	T03S	Water	12/09/21 13:42	12/09/21 14:48
500-209450-6	T05S	Water	12/10/21 09:55	12/10/21 14:07
500-209450-7	G20S	Water	12/10/21 11:25	12/10/21 14:07
500-209450-8	T01S	Water	12/13/21 10:42	12/13/21 15:10
500-209450-9	G33S	Water	12/13/21 13:06	12/13/21 15:10
500-209450-10	G31S	Water	12/13/21 14:14	12/13/21 15:10
500-209450-11	R08S	Water	12/14/21 13:05	12/14/21 14:00
500-209450-12	G30S	Water	12/15/21 09:03	12/15/21 14:15
500-209450-13	R32S	Water	12/15/21 10:44	12/15/21 14:15
500-209450-14	DUP	Water	12/15/21 10:44	12/15/21 14:15
500-209450-15	G46S	Water	12/15/21 12:19	12/15/21 14:15
500-209450-16	T04S	Water	12/15/21 13:20	12/15/21 14:15
500-209450-17	G44S	GW	12/16/21 09:07	12/16/21 14:26
500-209450-18	G45S	GW	12/16/21 10:01	12/16/21 14:26
500-209450-19	G48S	GW	12/16/21 11:13	12/16/21 14:26
500-209450-20	G47S	GW	12/16/21 13:10	12/16/21 14:26

# Client Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Joliet #9 (Quarry) CCR 4Q21

Job ID: 500-209450-1

**Client Sample ID: T09S**

**Lab Sample ID: 500-209450-1**

Date Collected: 12/08/21 11:28

Matrix: Water

Date Received: 12/08/21 14:29

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		12/29/21 10:14	12/30/21 14:15	1
<b>Arsenic</b>	<b>0.0035</b>		0.0010		mg/L		12/29/21 10:14	12/29/21 18:56	1
<b>Barium</b>	<b>0.067</b>		0.0025		mg/L		12/29/21 10:14	12/30/21 14:15	1
Beryllium	<0.0010		0.0010		mg/L		12/29/21 10:14	12/30/21 14:15	1
<b>Boron</b>	<b>9.0</b>		1.0		mg/L		12/29/21 10:14	12/30/21 12:19	20
Cadmium	<0.00050		0.00050		mg/L		12/29/21 10:14	12/30/21 14:15	1
<b>Calcium</b>	<b>130</b>		0.20		mg/L		12/29/21 10:14	12/30/21 14:15	1
Chromium	<0.0050		0.0050		mg/L		12/29/21 10:14	12/30/21 14:15	1
<b>Cobalt</b>	<b>0.0011</b>		0.0010		mg/L		12/29/21 10:14	12/30/21 14:15	1
<b>Lead</b>	<b>0.00084</b>		0.00050		mg/L		12/29/21 10:14	12/30/21 14:15	1
<b>Lithium</b>	<b>0.10</b>		0.0020		mg/L		12/29/21 10:14	12/30/21 14:15	1
<b>Molybdenum</b>	<b>1.3</b>		0.0050		mg/L		12/29/21 10:14	12/30/21 14:15	1
Selenium	<0.0025		0.0025		mg/L		12/29/21 10:14	12/30/21 14:15	1
Thallium	<0.0020		0.0020		mg/L		12/29/21 10:14	12/30/21 14:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/14/21 14:20	12/15/21 08:49	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>1100</b>		10		mg/L			12/09/21 07:35	1
<b>Chloride</b>	<b>64</b>		6.0		mg/L			12/13/21 16:35	3
<b>Fluoride</b>	<b>0.38</b>		0.10		mg/L			12/20/21 17:47	1
<b>Sulfate</b>	<b>570</b>		100		mg/L			12/13/21 18:32	20

**Method: Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
<b>Depth to water from land surface</b>	<b>91.72</b>				ft			12/08/21 11:28	1
<b>Depth to Water (ft from MP)</b>	<b>94.12</b>				ft			12/08/21 11:28	1
<b>Elevation of well (ft from MP)</b>	<b>603.69</b>				ft			12/08/21 11:28	1
<b>Field pH</b>	<b>7.23</b>				SU			12/08/21 11:28	1
<b>Field Temperature</b>	<b>44.8</b>				Degrees F			12/08/21 11:28	1
<b>Ground Water Elevation</b>	<b>509.57</b>				ft			12/08/21 11:28	1
<b>Specific Conductance</b>	<b>1300</b>				umhos/cm			12/08/21 11:28	1
<b>Well bottom elevation</b>	<b>444.80</b>				ft			12/08/21 11:28	1
<b>Field Turbidity</b>	<b>13.0</b>				NTU			12/08/21 11:28	1

# Client Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Joliet #9 (Quarry) CCR 4Q21

Job ID: 500-209450-1

**Client Sample ID: T06S**

**Lab Sample ID: 500-209450-2**

Date Collected: 12/08/21 13:06

Matrix: Water

Date Received: 12/08/21 14:29

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		12/29/21 10:14	12/30/21 14:39	1
Arsenic	<0.0010		0.0010		mg/L		12/29/21 10:14	12/29/21 19:13	1
<b>Barium</b>	<b>0.035</b>		0.0025		mg/L		12/29/21 10:14	12/30/21 14:39	1
Beryllium	<0.0010		0.0010		mg/L		12/29/21 10:14	12/30/21 14:39	1
<b>Boron</b>	<b>0.81</b>		0.10		mg/L		12/29/21 10:14	12/30/21 12:43	2
Cadmium	<0.00050		0.00050		mg/L		12/29/21 10:14	12/30/21 14:39	1
<b>Calcium</b>	<b>94</b>		0.20		mg/L		12/29/21 10:14	12/30/21 14:39	1
Chromium	<0.0050		0.0050		mg/L		12/29/21 10:14	12/30/21 14:39	1
Cobalt	<0.0010		0.0010		mg/L		12/29/21 10:14	12/30/21 14:39	1
Lead	<0.00050		0.00050		mg/L		12/29/21 10:14	12/30/21 14:39	1
<b>Lithium</b>	<b>0.027</b>		0.0020		mg/L		12/29/21 10:14	12/30/21 14:39	1
<b>Molybdenum</b>	<b>0.014</b>		0.0050		mg/L		12/29/21 10:14	12/30/21 14:39	1
Selenium	<0.0025		0.0025		mg/L		12/29/21 10:14	12/30/21 14:39	1
Thallium	<0.0020		0.0020		mg/L		12/29/21 10:14	12/30/21 14:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/14/21 14:20	12/15/21 08:51	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>550</b>		10		mg/L			12/09/21 07:38	1
<b>Chloride</b>	<b>14</b>		2.0		mg/L			12/13/21 16:34	1
<b>Fluoride</b>	<b>0.42</b>		0.10		mg/L			12/20/21 17:51	1
<b>Sulfate</b>	<b>100</b>		15		mg/L			12/13/21 18:32	3

**Method: Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
<b>Depth to water from land surface</b>	<b>111.07</b>				ft			12/08/21 13:06	1
<b>Depth to Water (ft from MP)</b>	<b>113.37</b>				ft			12/08/21 13:06	1
<b>Elevation of well (ft from MP)</b>	<b>620.99</b>				ft			12/08/21 13:06	1
<b>Field pH</b>	<b>7.44</b>				SU			12/08/21 13:06	1
<b>Field Temperature</b>	<b>51.8</b>				Degrees F			12/08/21 13:06	1
<b>Ground Water Elevation</b>	<b>507.62</b>				ft			12/08/21 13:06	1
<b>Specific Conductance</b>	<b>694</b>				umhos/cm			12/08/21 13:06	1
<b>Well bottom elevation</b>	<b>447.94</b>				ft			12/08/21 13:06	1
<b>Field Turbidity</b>	<b>1.96</b>				NTU			12/08/21 13:06	1

# Client Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Joliet #9 (Quarry) CCR 4Q21

Job ID: 500-209450-1

**Client Sample ID: T02S**

**Lab Sample ID: 500-209450-3**

Date Collected: 12/09/21 09:39

Matrix: Water

Date Received: 12/09/21 14:48

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0082		0.0030		mg/L		12/29/21 10:14	12/30/21 14:43	1
Arsenic	0.0097		0.0010		mg/L		12/29/21 10:14	12/29/21 19:16	1
Barium	0.078		0.0025		mg/L		12/29/21 10:14	12/30/21 14:43	1
Beryllium	<0.0010		0.0010		mg/L		12/29/21 10:14	12/30/21 14:43	1
Boron	5.1		0.50		mg/L		12/29/21 10:14	12/30/21 12:47	10
Cadmium	<0.00050		0.00050		mg/L		12/29/21 10:14	12/30/21 14:43	1
Calcium	69		0.20		mg/L		12/29/21 10:14	12/30/21 14:43	1
Chromium	<0.0050		0.0050		mg/L		12/29/21 10:14	12/30/21 14:43	1
Cobalt	0.0041		0.0010		mg/L		12/29/21 10:14	12/30/21 14:43	1
Lead	0.0027		0.00050		mg/L		12/29/21 10:14	12/30/21 14:43	1
Lithium	0.034		0.0020		mg/L		12/29/21 10:14	12/30/21 14:43	1
Molybdenum	0.54		0.0050		mg/L		12/29/21 10:14	12/30/21 14:43	1
Selenium	<0.0025		0.0025		mg/L		12/29/21 10:14	12/30/21 14:43	1
Thallium	<0.0020		0.0020		mg/L		12/29/21 10:14	12/30/21 14:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/14/21 14:20	12/15/21 08:54	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	890	F1	10		mg/L			12/14/21 04:40	1
Chloride	99		6.0		mg/L			12/13/21 16:38	3
Fluoride	0.41		0.10		mg/L			12/20/21 17:54	1
Sulfate	360		50		mg/L			12/13/21 18:33	10

**Method: Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	132.72				ft			12/09/21 09:39	1
Depth to Water (ft from MP)	135.05				ft			12/09/21 09:39	1
Elevation of well (ft from MP)	626.12				ft			12/09/21 09:39	1
Field pH	7.77				SU			12/09/21 09:39	1
Field Temperature	46.4				Degrees F			12/09/21 09:39	1
Ground Water Elevation	491.07				ft			12/09/21 09:39	1
Specific Conductance	1169				umhos/cm			12/09/21 09:39	1
Well bottom elevation	453.40				ft			12/09/21 09:39	1
Field Turbidity	8.77				NTU			12/09/21 09:39	1

# Client Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Joliet #9 (Quarry) CCR 4Q21

Job ID: 500-209450-1

**Client Sample ID: T08S**

**Lab Sample ID: 500-209450-4**

Date Collected: 12/09/21 11:48

Matrix: Water

Date Received: 12/09/21 14:48

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		12/29/21 10:14	12/30/21 14:46	1
<b>Arsenic</b>	<b>0.015</b>		0.0010		mg/L		12/29/21 10:14	12/29/21 19:20	1
<b>Barium</b>	<b>0.044</b>		0.0025		mg/L		12/29/21 10:14	12/30/21 14:46	1
Beryllium	<0.0010		0.0010		mg/L		12/29/21 10:14	12/30/21 14:46	1
<b>Boron</b>	<b>9.2</b>		1.0		mg/L		12/29/21 10:14	12/30/21 12:50	20
Cadmium	<0.00050		0.00050		mg/L		12/29/21 10:14	12/30/21 14:46	1
<b>Calcium</b>	<b>36</b>		0.20		mg/L		12/29/21 10:14	12/30/21 14:46	1
Chromium	<0.0050		0.0050		mg/L		12/29/21 10:14	12/30/21 14:46	1
Cobalt	<0.0010		0.0010		mg/L		12/29/21 10:14	12/30/21 14:46	1
Lead	<0.00050		0.00050		mg/L		12/29/21 10:14	12/30/21 14:46	1
<b>Lithium</b>	<b>0.034</b>		0.0020		mg/L		12/29/21 10:14	12/30/21 14:46	1
<b>Molybdenum</b>	<b>0.98</b>		0.0050		mg/L		12/29/21 10:14	12/30/21 14:46	1
Selenium	<0.0025		0.0025		mg/L		12/29/21 10:14	12/30/21 14:46	1
Thallium	<0.0020		0.0020		mg/L		12/29/21 10:14	12/30/21 14:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/14/21 14:20	12/15/21 08:56	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>1100</b>		10		mg/L			12/14/21 04:47	1
<b>Chloride</b>	<b>90</b>		6.0		mg/L			12/13/21 16:37	3
Fluoride	<0.10		0.10		mg/L			12/20/21 18:11	1
<b>Sulfate</b>	<b>550</b>		100		mg/L			12/13/21 18:33	20

**Method: Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
<b>Depth to water from land surface</b>	<b>127.87</b>				ft			12/09/21 11:48	1
<b>Depth to Water (ft from MP)</b>	<b>130.25</b>				ft			12/09/21 11:48	1
<b>Elevation of well (ft from MP)</b>	<b>627.50</b>				ft			12/09/21 11:48	1
<b>Field pH</b>	<b>8.50</b>				SU			12/09/21 11:48	1
<b>Field Temperature</b>	<b>48.9</b>				Degrees F			12/09/21 11:48	1
<b>Ground Water Elevation</b>	<b>497.25</b>				ft			12/09/21 11:48	1
<b>Specific Conductance</b>	<b>1395</b>				umhos/cm			12/09/21 11:48	1
<b>Well bottom elevation</b>	<b>447.38</b>				ft			12/09/21 11:48	1
<b>Field Turbidity</b>	<b>2.48</b>				NTU			12/09/21 11:48	1

# Client Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Joliet #9 (Quarry) CCR 4Q21

Job ID: 500-209450-1

**Client Sample ID: T03S**

**Lab Sample ID: 500-209450-5**

Date Collected: 12/09/21 13:42

Matrix: Water

Date Received: 12/09/21 14:48

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		12/29/21 10:14	12/30/21 14:49	1
<b>Arsenic</b>	<b>0.0011</b>		0.0010		mg/L		12/29/21 10:14	12/29/21 19:30	1
<b>Barium</b>	<b>0.085</b>		0.0025		mg/L		12/29/21 10:14	12/30/21 14:49	1
Beryllium	<0.0010		0.0010		mg/L		12/29/21 10:14	12/30/21 14:49	1
<b>Boron</b>	<b>2.4</b>		0.50		mg/L		12/29/21 10:14	12/30/21 12:54	10
Cadmium	<0.00050		0.00050		mg/L		12/29/21 10:14	12/30/21 14:49	1
<b>Calcium</b>	<b>130</b>		0.20		mg/L		12/29/21 10:14	12/30/21 14:49	1
Chromium	<0.0050		0.0050		mg/L		12/29/21 10:14	12/30/21 14:49	1
Cobalt	<0.0010		0.0010		mg/L		12/29/21 10:14	12/30/21 14:49	1
Lead	<0.00050		0.00050		mg/L		12/29/21 10:14	12/30/21 14:49	1
<b>Lithium</b>	<b>0.026</b>		0.0020		mg/L		12/29/21 10:14	12/30/21 14:49	1
<b>Molybdenum</b>	<b>0.22</b>		0.0050		mg/L		12/29/21 10:14	12/30/21 14:49	1
Selenium	<0.0025		0.0025		mg/L		12/29/21 10:14	12/30/21 14:49	1
Thallium	<0.0020		0.0020		mg/L		12/29/21 10:14	12/30/21 14:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/14/21 14:20	12/15/21 08:58	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>870</b>		10		mg/L			12/14/21 04:53	1
<b>Chloride</b>	<b>110</b>		10		mg/L			12/13/21 16:39	5
<b>Fluoride</b>	<b>0.23</b>		0.10		mg/L			12/20/21 18:19	1
<b>Sulfate</b>	<b>280</b>	<b>F1</b>	50		mg/L			12/13/21 18:33	10

**Method: Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
<b>Depth to water from land surface</b>	<b>136.32</b>				ft			12/09/21 13:42	1
<b>Depth to Water (ft from MP)</b>	<b>139.40</b>				ft			12/09/21 13:42	1
<b>Elevation of well (ft from MP)</b>	<b>629.74</b>				ft			12/09/21 13:42	1
<b>Field pH</b>	<b>7.48</b>				SU			12/09/21 13:42	1
<b>Field Temperature</b>	<b>53.2</b>				Degrees F			12/09/21 13:42	1
<b>Ground Water Elevation</b>	<b>490.34</b>				ft			12/09/21 13:42	1
<b>Specific Conductance</b>	<b>1159</b>				umhos/cm			12/09/21 13:42	1
<b>Well bottom elevation</b>	<b>456.70</b>				ft			12/09/21 13:42	1
<b>Field Turbidity</b>	<b>0.56</b>				NTU			12/09/21 13:42	1

# Client Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Joliet #9 (Quarry) CCR 4Q21

Job ID: 500-209450-1

**Client Sample ID: T05S**

**Lab Sample ID: 500-209450-6**

Date Collected: 12/10/21 09:55

Matrix: Water

Date Received: 12/10/21 14:07

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		12/29/21 10:14	12/30/21 14:53	1
<b>Arsenic</b>	<b>0.12</b>		0.0010		mg/L		12/29/21 10:14	12/29/21 19:33	1
<b>Barium</b>	<b>0.0098</b>		0.0025		mg/L		12/29/21 10:14	12/30/21 14:53	1
Beryllium	<0.0010		0.0010		mg/L		12/29/21 10:14	12/30/21 14:53	1
<b>Boron</b>	<b>14</b>		5.0		mg/L		12/29/21 10:14	12/30/21 12:57	100
Cadmium	<0.00050		0.00050		mg/L		12/29/21 10:14	12/30/21 14:53	1
<b>Calcium</b>	<b>2.7</b>		0.20		mg/L		12/29/21 10:14	12/30/21 14:53	1
Chromium	<0.0050		0.0050		mg/L		12/29/21 10:14	12/30/21 14:53	1
Cobalt	<0.0010		0.0010		mg/L		12/29/21 10:14	12/30/21 14:53	1
Lead	<0.00050		0.00050		mg/L		12/29/21 10:14	12/30/21 14:53	1
<b>Lithium</b>	<b>0.019</b>		0.0020		mg/L		12/29/21 10:14	12/30/21 14:53	1
<b>Molybdenum</b>	<b>0.96</b>		0.0050		mg/L		12/29/21 10:14	12/30/21 14:53	1
<b>Selenium</b>	<b>0.0041</b>		0.0025		mg/L		12/29/21 10:14	12/30/21 14:53	1
Thallium	<0.0020		0.0020		mg/L		12/29/21 10:14	12/30/21 14:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/14/21 14:20	12/15/21 09:00	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>1500</b>		10		mg/L			12/14/21 04:55	1
<b>Chloride</b>	<b>140</b>		10		mg/L			12/13/21 17:03	5
<b>Fluoride</b>	<b>1.8</b>		0.10		mg/L			12/20/21 18:33	1
<b>Sulfate</b>	<b>630</b>		100		mg/L			12/13/21 18:44	20

**Method: Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
<b>Depth to water from land surface</b>	<b>123.63</b>				ft			12/10/21 09:55	1
<b>Depth to Water (ft from MP)</b>	<b>126.03</b>				ft			12/10/21 09:55	1
<b>Elevation of well (ft from MP)</b>	<b>623.46</b>				ft			12/10/21 09:55	1
<b>Field pH</b>	<b>9.41</b>				SU			12/10/21 09:55	1
<b>Field Temperature</b>	<b>52.5</b>				Degrees F			12/10/21 09:55	1
<b>Ground Water Elevation</b>	<b>497.43</b>				ft			12/10/21 09:55	1
<b>Specific Conductance</b>	<b>2070</b>				umhos/cm			12/10/21 09:55	1
<b>Well bottom elevation</b>	<b>448.35</b>				ft			12/10/21 09:55	1
<b>Field Turbidity</b>	<b>3.71</b>				NTU			12/10/21 09:55	1



# Client Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Joliet #9 (Quarry) CCR 4Q21

Job ID: 500-209450-1

**Client Sample ID: G20S**

**Lab Sample ID: 500-209450-7**

Date Collected: 12/10/21 11:25

Matrix: Water

Date Received: 12/10/21 14:07

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		12/29/21 10:14	12/30/21 14:56	1
<b>Arsenic</b>	<b>0.0019</b>		0.0010		mg/L		12/29/21 10:14	12/29/21 19:37	1
<b>Barium</b>	<b>0.045</b>		0.0025		mg/L		12/29/21 10:14	12/30/21 14:56	1
Beryllium	<0.0010		0.0010		mg/L		12/29/21 10:14	12/30/21 14:56	1
<b>Boron</b>	<b>1.4</b>		0.25		mg/L		12/29/21 10:14	12/30/21 13:01	5
Cadmium	<0.00050		0.00050		mg/L		12/29/21 10:14	12/30/21 14:56	1
<b>Calcium</b>	<b>60</b>		0.20		mg/L		12/29/21 10:14	12/30/21 14:56	1
Chromium	<0.0050		0.0050		mg/L		12/29/21 10:14	12/30/21 14:56	1
Cobalt	<0.0010		0.0010		mg/L		12/29/21 10:14	12/30/21 14:56	1
Lead	<0.00050		0.00050		mg/L		12/29/21 10:14	12/30/21 14:56	1
<b>Lithium</b>	<b>0.041</b>		0.0020		mg/L		12/29/21 10:14	12/30/21 14:56	1
<b>Molybdenum</b>	<b>0.025</b>		0.0050		mg/L		12/29/21 10:14	12/30/21 14:56	1
Selenium	<0.0025		0.0025		mg/L		12/29/21 10:14	12/30/21 14:56	1
Thallium	<0.0020		0.0020		mg/L		12/29/21 10:14	12/30/21 14:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/14/21 14:20	12/15/21 09:02	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>360</b>		10		mg/L			12/14/21 04:58	1
<b>Chloride</b>	<b>14</b>		2.0		mg/L			12/13/21 16:40	1
<b>Fluoride</b>	<b>0.77</b>		0.10		mg/L			12/20/21 18:36	1
<b>Sulfate</b>	<b>69</b>		15		mg/L			12/13/21 18:35	3

### Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
<b>Depth to water from land surface</b>	<b>126.58</b>				ft			12/10/21 11:25	1
<b>Depth to Water (ft from MP)</b>	<b>129.36</b>				ft			12/10/21 11:25	1
<b>Elevation of well (ft from MP)</b>	<b>580.94</b>				ft			12/10/21 11:25	1
<b>Field pH</b>	<b>8.33</b>				SU			12/10/21 11:25	1
<b>Field Temperature</b>	<b>56.5</b>				Degrees F			12/10/21 11:25	1
<b>Ground Water Elevation</b>	<b>451.58</b>				ft			12/10/21 11:25	1
<b>Specific Conductance</b>	<b>589</b>				umhos/cm			12/10/21 11:25	1
<b>Well bottom elevation</b>	<b>442.28</b>				ft			12/10/21 11:25	1
<b>Field Turbidity</b>	<b>1.28</b>				NTU			12/10/21 11:25	1

# Client Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Joliet #9 (Quarry) CCR 4Q21

Job ID: 500-209450-1

**Client Sample ID: T01S**

**Lab Sample ID: 500-209450-8**

Date Collected: 12/13/21 10:42

Matrix: Water

Date Received: 12/13/21 15:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		12/29/21 10:14	12/30/21 15:00	1
<b>Arsenic</b>	<b>0.023</b>		0.0010		mg/L		12/29/21 10:14	12/29/21 19:40	1
<b>Barium</b>	<b>0.10</b>		0.0025		mg/L		12/29/21 10:14	12/30/21 15:00	1
Beryllium	<0.0010		0.0010		mg/L		12/29/21 10:14	12/30/21 15:00	1
<b>Boron</b>	<b>4.8</b>		0.50		mg/L		12/29/21 10:14	12/30/21 13:04	10
Cadmium	<0.00050		0.00050		mg/L		12/29/21 10:14	12/30/21 15:00	1
<b>Calcium</b>	<b>62</b>		0.20		mg/L		12/29/21 10:14	12/30/21 15:00	1
<b>Chromium</b>	<b>0.019</b>		0.0050		mg/L		12/29/21 10:14	12/30/21 15:00	1
<b>Cobalt</b>	<b>0.0078</b>		0.0010		mg/L		12/29/21 10:14	12/30/21 15:00	1
<b>Lead</b>	<b>0.0078</b>		0.00050		mg/L		12/29/21 10:14	12/30/21 15:00	1
<b>Lithium</b>	<b>0.021</b>		0.0020		mg/L		12/29/21 10:14	12/30/21 15:00	1
<b>Molybdenum</b>	<b>0.35</b>		0.0050		mg/L		12/29/21 10:14	12/30/21 15:00	1
Selenium	<0.0025		0.0025		mg/L		12/29/21 10:14	12/30/21 15:00	1
Thallium	<0.0020		0.0020		mg/L		12/29/21 10:14	12/30/21 15:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/14/21 14:20	12/15/21 09:29	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>910</b>		10		mg/L			12/14/21 05:00	1
<b>Chloride</b>	<b>97</b>		6.0		mg/L			12/28/21 15:52	3
<b>Fluoride</b>	<b>1.1</b>		0.10		mg/L			12/20/21 18:39	1
<b>Sulfate</b>	<b>410</b>		50		mg/L			12/28/21 16:19	10

**Method: Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
<b>Depth to water from land surface</b>	<b>122.67</b>				ft			12/13/21 10:42	1
<b>Depth to Water (ft from MP)</b>	<b>125.15</b>				ft			12/13/21 10:42	1
<b>Elevation of well (ft from MP)</b>	<b>621.71</b>				ft			12/13/21 10:42	1
<b>Field pH</b>	<b>7.67</b>				SU			12/13/21 10:42	1
<b>Field Temperature</b>	<b>49.1</b>				Degrees F			12/13/21 10:42	1
<b>Ground Water Elevation</b>	<b>496.56</b>				ft			12/13/21 10:42	1
<b>Specific Conductance</b>	<b>1234</b>				umhos/cm			12/13/21 10:42	1
<b>Well bottom elevation</b>	<b>451.46</b>				ft			12/13/21 10:42	1
<b>Field Turbidity</b>	<b>138</b>				NTU			12/13/21 10:42	1

# Client Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Joliet #9 (Quarry) CCR 4Q21

Job ID: 500-209450-1

**Client Sample ID: G33S**

**Lab Sample ID: 500-209450-9**

Date Collected: 12/13/21 13:06

Matrix: Water

Date Received: 12/13/21 15:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		12/29/21 10:14	12/30/21 15:03	1
<b>Arsenic</b>	<b>0.0015</b>		0.0010		mg/L		12/29/21 10:14	12/29/21 19:43	1
<b>Barium</b>	<b>0.075</b>		0.0025		mg/L		12/29/21 10:14	12/30/21 15:03	1
Beryllium	<0.0010		0.0010		mg/L		12/29/21 10:14	12/30/21 15:03	1
<b>Boron</b>	<b>0.71</b>		0.10		mg/L		12/29/21 10:14	12/30/21 13:08	2
Cadmium	<0.00050		0.00050		mg/L		12/29/21 10:14	12/30/21 15:03	1
<b>Calcium</b>	<b>52</b>		0.20		mg/L		12/29/21 10:14	12/30/21 15:03	1
Chromium	<0.0050		0.0050		mg/L		12/29/21 10:14	12/30/21 15:03	1
Cobalt	<0.0010		0.0010		mg/L		12/29/21 10:14	12/30/21 15:03	1
<b>Lead</b>	<b>0.0014</b>		0.00050		mg/L		12/29/21 10:14	12/30/21 15:03	1
<b>Lithium</b>	<b>0.031</b>		0.0020		mg/L		12/29/21 10:14	12/30/21 15:03	1
Molybdenum	<0.0050		0.0050		mg/L		12/29/21 10:14	12/30/21 15:03	1
Selenium	<0.0025		0.0025		mg/L		12/29/21 10:14	12/30/21 15:03	1
Thallium	<0.0020		0.0020		mg/L		12/29/21 10:14	12/30/21 15:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/14/21 14:20	12/15/21 09:50	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>380</b>		10		mg/L			12/14/21 05:03	1
<b>Chloride</b>	<b>13</b>		2.0		mg/L			12/28/21 15:53	1
<b>Fluoride</b>	<b>0.56</b>		0.10		mg/L			12/20/21 18:41	1
<b>Sulfate</b>	<b>66</b>		15		mg/L			12/28/21 16:19	3

**Method: Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
<b>Depth to water from land surface</b>	<b>31.25</b>				ft			12/13/21 13:06	1
<b>Depth to Water (ft from MP)</b>	<b>32.98</b>				ft			12/13/21 13:06	1
<b>Elevation of well (ft from MP)</b>	<b>535.65</b>				ft			12/13/21 13:06	1
<b>Field pH</b>	<b>7.52</b>				SU			12/13/21 13:06	1
<b>Field Temperature</b>	<b>56.7</b>				Degrees F			12/13/21 13:06	1
<b>Ground Water Elevation</b>	<b>502.67</b>				ft			12/13/21 13:06	1
<b>Specific Conductance</b>	<b>628</b>				umhos/cm			12/13/21 13:06	1
<b>Well bottom elevation</b>	<b>452.72</b>				ft			12/13/21 13:06	1
<b>Field Turbidity</b>	<b>9.78</b>				NTU			12/13/21 13:06	1

# Client Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Joliet #9 (Quarry) CCR 4Q21

Job ID: 500-209450-1

**Client Sample ID: G31S**

**Lab Sample ID: 500-209450-10**

Date Collected: 12/13/21 14:14

Matrix: Water

Date Received: 12/13/21 15:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		12/29/21 10:14	12/30/21 15:07	1
<b>Arsenic</b>	<b>0.0036</b>		0.0010		mg/L		12/29/21 10:14	12/29/21 19:47	1
<b>Barium</b>	<b>0.050</b>		0.0025		mg/L		12/29/21 10:14	12/30/21 15:07	1
Beryllium	<0.0010		0.0010		mg/L		12/29/21 10:14	12/30/21 15:07	1
<b>Boron</b>	<b>4.9</b>		0.50		mg/L		12/29/21 10:14	12/30/21 13:11	10
Cadmium	<0.00050		0.00050		mg/L		12/29/21 10:14	12/30/21 15:07	1
<b>Calcium</b>	<b>150</b>		0.20		mg/L		12/29/21 10:14	12/30/21 15:07	1
Chromium	<0.0050		0.0050		mg/L		12/29/21 10:14	12/30/21 15:07	1
Cobalt	<0.0010		0.0010		mg/L		12/29/21 10:14	12/30/21 15:07	1
Lead	<0.00050		0.00050		mg/L		12/29/21 10:14	12/30/21 15:07	1
<b>Lithium</b>	<b>0.094</b>		0.0020		mg/L		12/29/21 10:14	12/30/21 15:07	1
<b>Molybdenum</b>	<b>0.75</b>		0.0050		mg/L		12/29/21 10:14	12/30/21 15:07	1
Selenium	<0.0025		0.0025		mg/L		12/29/21 10:14	12/30/21 15:07	1
Thallium	<0.0020		0.0020		mg/L		12/29/21 10:14	12/30/21 15:07	1

## Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/14/21 14:20	12/15/21 09:52	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>1100</b>		10		mg/L			12/14/21 05:06	1
<b>Chloride</b>	<b>160</b>		10		mg/L			12/28/21 15:53	5
<b>Fluoride</b>	<b>0.24</b>		0.10		mg/L			12/20/21 18:45	1
<b>Sulfate</b>	<b>450</b>		50		mg/L			12/28/21 16:20	10

## Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
<b>Depth to water from land surface</b>	<b>26.00</b>				ft			12/13/21 14:14	1
<b>Depth to Water (ft from MP)</b>	<b>28.58</b>				ft			12/13/21 14:14	1
<b>Elevation of well (ft from MP)</b>	<b>535.77</b>				ft			12/13/21 14:14	1
<b>Field pH</b>	<b>7.29</b>				SU			12/13/21 14:14	1
<b>Field Temperature</b>	<b>56.7</b>				Degrees F			12/13/21 14:14	1
<b>Ground Water Elevation</b>	<b>507.19</b>				ft			12/13/21 14:14	1
<b>Specific Conductance</b>	<b>1490</b>				umhos/cm			12/13/21 14:14	1
<b>Well bottom elevation</b>	<b>453.36</b>				ft			12/13/21 14:14	1
<b>Field Turbidity</b>	<b>1.21</b>				NTU			12/13/21 14:14	1

# Client Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Joliet #9 (Quarry) CCR 4Q21

Job ID: 500-209450-1

**Client Sample ID: R08S**

**Lab Sample ID: 500-209450-11**

Date Collected: 12/14/21 13:05

Matrix: Water

Date Received: 12/14/21 14:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		12/29/21 10:14	12/30/21 15:10	1
Arsenic	<0.0010		0.0010		mg/L		12/29/21 10:14	12/29/21 19:50	1
<b>Barium</b>	<b>0.042</b>		0.0025		mg/L		12/29/21 10:14	12/30/21 15:10	1
Beryllium	<0.0010		0.0010		mg/L		12/29/21 10:14	12/30/21 15:10	1
<b>Boron</b>	<b>7.8</b>		1.0		mg/L		12/29/21 10:14	12/30/21 13:14	20
Cadmium	<0.00050		0.00050		mg/L		12/29/21 10:14	12/30/21 15:10	1
<b>Calcium</b>	<b>150</b>		0.20		mg/L		12/29/21 10:14	12/30/21 15:10	1
Chromium	<0.0050		0.0050		mg/L		12/29/21 10:14	12/30/21 15:10	1
Cobalt	<0.0010		0.0010		mg/L		12/29/21 10:14	12/30/21 15:10	1
Lead	<0.00050		0.00050		mg/L		12/29/21 10:14	12/30/21 15:10	1
<b>Lithium</b>	<b>0.14</b>		0.0020		mg/L		12/29/21 10:14	12/30/21 15:10	1
<b>Molybdenum</b>	<b>0.39</b>		0.0050		mg/L		12/29/21 10:14	12/30/21 15:10	1
<b>Selenium</b>	<b>0.012</b>		0.0025		mg/L		12/29/21 10:14	12/30/21 15:10	1
Thallium	<0.0020		0.0020		mg/L		12/29/21 10:14	12/30/21 15:10	1

## Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/15/21 10:20	12/16/21 08:59	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>830</b>		10		mg/L			12/21/21 17:13	1
<b>Chloride</b>	<b>77</b>		6.0		mg/L			12/28/21 15:54	3
<b>Fluoride</b>	<b>0.15</b>		0.10		mg/L			12/20/21 18:48	1
<b>Sulfate</b>	<b>410</b>		50		mg/L			12/28/21 16:20	10

## Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
<b>Depth to water from land surface</b>	<b>66.90</b>				ft			12/14/21 13:05	1
<b>Depth to Water (ft from MP)</b>	<b>69.45</b>				ft			12/14/21 13:05	1
<b>Elevation of well (ft from MP)</b>	<b>578.51</b>				ft			12/14/21 13:05	1
<b>Field pH</b>	<b>8.37</b>				SU			12/14/21 13:05	1
<b>Field Temperature</b>	<b>54.7</b>				Degrees F			12/14/21 13:05	1
<b>Ground Water Elevation</b>	<b>509.06</b>				ft			12/14/21 13:05	1
<b>Specific Conductance</b>	<b>968</b>				umhos/cm			12/14/21 13:05	1
<b>Well bottom elevation</b>	<b>453.08</b>				ft			12/14/21 13:05	1
<b>Field Turbidity</b>	<b>0.57</b>				NTU			12/14/21 13:05	1

# Client Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Joliet #9 (Quarry) CCR 4Q21

Job ID: 500-209450-1

**Client Sample ID: G30S**

**Lab Sample ID: 500-209450-12**

Date Collected: 12/15/21 09:03

Matrix: Water

Date Received: 12/15/21 14:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		12/29/21 10:14	12/30/21 15:20	1
<b>Arsenic</b>	<b>0.0028</b>		0.0010		mg/L		12/29/21 10:14	12/29/21 19:54	1
<b>Barium</b>	<b>0.045</b>		0.0025		mg/L		12/29/21 10:14	12/30/21 15:20	1
Beryllium	<0.0010		0.0010		mg/L		12/29/21 10:14	12/30/21 15:20	1
<b>Boron</b>	<b>5.1</b>		0.50		mg/L		12/29/21 10:14	12/30/21 13:25	10
Cadmium	<0.00050		0.00050		mg/L		12/29/21 10:14	12/30/21 15:20	1
<b>Calcium</b>	<b>63</b>		0.20		mg/L		12/29/21 10:14	12/30/21 15:20	1
Chromium	<0.0050		0.0050		mg/L		12/29/21 10:14	12/30/21 15:20	1
Cobalt	<0.0010		0.0010		mg/L		12/29/21 10:14	12/30/21 15:20	1
Lead	<0.00050		0.00050		mg/L		12/29/21 10:14	12/30/21 15:20	1
<b>Lithium</b>	<b>0.022</b>		0.0020		mg/L		12/29/21 10:14	12/30/21 15:20	1
<b>Molybdenum</b>	<b>0.010</b>		0.0050		mg/L		12/29/21 10:14	12/30/21 15:20	1
Selenium	<0.0025		0.0025		mg/L		12/29/21 10:14	12/30/21 15:20	1
Thallium	<0.0020		0.0020		mg/L		12/29/21 10:14	12/30/21 15:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/16/21 10:45	12/17/21 08:46	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>1200</b>		10		mg/L			12/22/21 15:31	1
<b>Chloride</b>	<b>200</b>		10		mg/L			12/28/21 15:54	5
<b>Fluoride</b>	<b>1.0</b>		0.10		mg/L			12/20/21 18:51	1
<b>Sulfate</b>	<b>450</b>		50		mg/L			12/28/21 16:21	10

**Method: Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
<b>Depth to water from land surface</b>	<b>-0.10</b>				ft			12/15/21 09:03	1
<b>Depth to Water (ft from MP)</b>	<b>2.21</b>				ft			12/15/21 09:03	1
<b>Elevation of well (ft from MP)</b>	<b>524.69</b>				ft			12/15/21 09:03	1
<b>Field pH</b>	<b>7.95</b>				SU			12/15/21 09:03	1
<b>Field Temperature</b>	<b>52.3</b>				Degrees F			12/15/21 09:03	1
<b>Ground Water Elevation</b>	<b>522.48</b>				ft			12/15/21 09:03	1
<b>Specific Conductance</b>	<b>1590</b>				umhos/cm			12/15/21 09:03	1
<b>Well bottom elevation</b>	<b>462.58</b>				ft			12/15/21 09:03	1
<b>Field Turbidity</b>	<b>0.09</b>				NTU			12/15/21 09:03	1

# Client Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Joliet #9 (Quarry) CCR 4Q21

Job ID: 500-209450-1

**Client Sample ID: R32S**

**Lab Sample ID: 500-209450-13**

Date Collected: 12/15/21 10:44

Matrix: Water

Date Received: 12/15/21 14:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		12/29/21 10:14	12/30/21 15:24	1
<b>Arsenic</b>	<b>0.0016</b>		0.0010		mg/L		12/29/21 10:14	12/29/21 19:57	1
<b>Barium</b>	<b>0.037</b>		0.0025		mg/L		12/29/21 10:14	12/30/21 15:24	1
Beryllium	<0.0010		0.0010		mg/L		12/29/21 10:14	12/30/21 15:24	1
<b>Boron</b>	<b>4.9</b>		0.50		mg/L		12/29/21 10:14	12/30/21 13:28	10
Cadmium	<0.00050		0.00050		mg/L		12/29/21 10:14	12/30/21 15:24	1
<b>Calcium</b>	<b>150</b>		0.20		mg/L		12/29/21 10:14	12/30/21 15:24	1
Chromium	<0.0050		0.0050		mg/L		12/29/21 10:14	12/30/21 15:24	1
Cobalt	<0.0010		0.0010		mg/L		12/29/21 10:14	12/30/21 15:24	1
Lead	<0.00050		0.00050		mg/L		12/29/21 10:14	12/30/21 15:24	1
<b>Lithium</b>	<b>0.097</b>		0.0020		mg/L		12/29/21 10:14	12/30/21 15:24	1
<b>Molybdenum</b>	<b>0.75</b>		0.0050		mg/L		12/29/21 10:14	12/30/21 15:24	1
Selenium	<0.0025		0.0025		mg/L		12/29/21 10:14	12/30/21 15:24	1
Thallium	<0.0020		0.0020		mg/L		12/29/21 10:14	12/30/21 15:24	1

## Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/16/21 10:45	12/17/21 08:48	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>930</b>		10		mg/L			12/22/21 15:37	1
<b>Chloride</b>	<b>59</b>		6.0		mg/L			12/28/21 15:54	3
<b>Fluoride</b>	<b>0.32</b>		0.10		mg/L			12/20/21 18:54	1
<b>Sulfate</b>	<b>490</b>		100		mg/L			12/28/21 16:21	20

## Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
<b>Depth to water from land surface</b>	<b>19.71</b>				ft			12/15/21 10:44	1
<b>Depth to Water (ft from MP)</b>	<b>21.74</b>				ft			12/15/21 10:44	1
<b>Elevation of well (ft from MP)</b>	<b>536.91</b>				ft			12/15/21 10:44	1
<b>Field pH</b>	<b>7.42</b>				SU			12/15/21 10:44	1
<b>Field Temperature</b>	<b>53.6</b>				Degrees F			12/15/21 10:44	1
<b>Ground Water Elevation</b>	<b>515.17</b>				ft			12/15/21 10:44	1
<b>Specific Conductance</b>	<b>975</b>				umhos/cm			12/15/21 10:44	1
<b>Well bottom elevation</b>	<b>457.84</b>				ft			12/15/21 10:44	1
<b>Field Turbidity</b>	<b>0.84</b>				NTU			12/15/21 10:44	1

# Client Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Joliet #9 (Quarry) CCR 4Q21

Job ID: 500-209450-1

**Client Sample ID: DUP**

**Lab Sample ID: 500-209450-14**

Date Collected: 12/15/21 10:44

Matrix: Water

Date Received: 12/15/21 14:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		12/29/21 10:14	12/30/21 15:27	1
<b>Arsenic</b>	<b>0.0027</b>		0.0010		mg/L		12/29/21 10:14	12/29/21 20:00	1
<b>Barium</b>	<b>0.040</b>		0.0025		mg/L		12/29/21 10:14	12/30/21 15:27	1
Beryllium	<0.0010		0.0010		mg/L		12/29/21 10:14	12/30/21 15:27	1
<b>Boron</b>	<b>6.2</b>		1.0		mg/L		12/29/21 10:14	12/30/21 13:32	20
Cadmium	<0.00050		0.00050		mg/L		12/29/21 10:14	12/30/21 15:27	1
<b>Calcium</b>	<b>170</b>		0.20		mg/L		12/29/21 10:14	12/30/21 15:27	1
Chromium	<0.0050		0.0050		mg/L		12/29/21 10:14	12/30/21 15:27	1
Cobalt	<0.0010		0.0010		mg/L		12/29/21 10:14	12/30/21 15:27	1
Lead	<0.00050		0.00050		mg/L		12/29/21 10:14	12/30/21 15:27	1
<b>Lithium</b>	<b>0.12</b>		0.0020		mg/L		12/29/21 10:14	12/30/21 15:27	1
<b>Molybdenum</b>	<b>0.99</b>		0.0050		mg/L		12/29/21 10:14	12/30/21 15:27	1
Selenium	<0.0025		0.0025		mg/L		12/29/21 10:14	12/30/21 15:27	1
Thallium	<0.0020		0.0020		mg/L		12/29/21 10:14	12/30/21 15:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/16/21 10:45	12/17/21 08:51	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>1200</b>		10		mg/L			12/22/21 15:39	1
<b>Chloride</b>	<b>63</b>		6.0		mg/L			12/28/21 15:55	3
<b>Fluoride</b>	<b>0.32</b>		0.10		mg/L			12/20/21 18:57	1
<b>Sulfate</b>	<b>530</b>		100		mg/L			12/28/21 16:22	20

### Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
<b>Depth to water from land surface</b>	<b>19.71</b>				ft			12/15/21 10:44	1
<b>Depth to Water (ft from MP)</b>	<b>21.74</b>				ft			12/15/21 10:44	1
<b>Elevation of well (ft from MP)</b>	<b>536.91</b>				ft			12/15/21 10:44	1
<b>Field pH</b>	<b>7.42</b>				SU			12/15/21 10:44	1
<b>Field Temperature</b>	<b>53.6</b>				Degrees F			12/15/21 10:44	1
<b>Ground Water Elevation</b>	<b>515.17</b>				ft			12/15/21 10:44	1
<b>Specific Conductance</b>	<b>975</b>				umhos/cm			12/15/21 10:44	1
<b>Well bottom elevation</b>	<b>457.84</b>				ft			12/15/21 10:44	1
<b>Field Turbidity</b>	<b>0.84</b>				NTU			12/15/21 10:44	1



# Client Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Joliet #9 (Quarry) CCR 4Q21

Job ID: 500-209450-1

**Client Sample ID: G46S**

**Lab Sample ID: 500-209450-15**

Date Collected: 12/15/21 12:19

Matrix: Water

Date Received: 12/15/21 14:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		12/29/21 10:14	12/30/21 15:31	1
<b>Arsenic</b>	<b>0.18</b>		0.0010		mg/L		12/29/21 10:14	12/29/21 20:11	1
<b>Barium</b>	<b>0.067</b>		0.0025		mg/L		12/29/21 10:14	12/30/21 15:31	1
Beryllium	<0.0010		0.0010		mg/L		12/29/21 10:14	12/30/21 15:31	1
<b>Boron</b>	<b>11</b>		5.0		mg/L		12/29/21 10:14	12/30/21 13:35	100
Cadmium	<0.00050		0.00050		mg/L		12/29/21 10:14	12/30/21 15:31	1
<b>Calcium</b>	<b>140</b>		0.20		mg/L		12/29/21 10:14	12/30/21 15:31	1
Chromium	<0.0050		0.0050		mg/L		12/29/21 10:14	12/30/21 15:31	1
Cobalt	<0.0010		0.0010		mg/L		12/29/21 10:14	12/30/21 15:31	1
Lead	<0.00050		0.00050		mg/L		12/29/21 10:14	12/30/21 15:31	1
<b>Lithium</b>	<b>0.16</b>		0.0020		mg/L		12/29/21 10:14	12/30/21 15:31	1
<b>Molybdenum</b>	<b>1.4</b>		0.0050		mg/L		12/29/21 10:14	12/30/21 15:31	1
Selenium	<0.0025		0.0025		mg/L		12/29/21 10:14	12/30/21 15:31	1
Thallium	<0.0020		0.0020		mg/L		12/29/21 10:14	12/30/21 15:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/16/21 10:45	12/17/21 08:53	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>990</b>		10		mg/L			12/22/21 15:43	1
<b>Chloride</b>	<b>66</b>		6.0		mg/L			12/28/21 15:55	3
<b>Fluoride</b>	<b>0.27</b>		0.10		mg/L			12/20/21 19:00	1
<b>Sulfate</b>	<b>500</b>		100		mg/L			12/28/21 16:23	20

**Method: Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
<b>Depth to water from land surface</b>	<b>102.58</b>				ft			12/15/21 12:19	1
<b>Depth to Water (ft from MP)</b>	<b>105.28</b>				ft			12/15/21 12:19	1
<b>Elevation of well (ft from MP)</b>	<b>601.34</b>				ft			12/15/21 12:19	1
<b>Field pH</b>	<b>7.53</b>				SU			12/15/21 12:19	1
<b>Field Temperature</b>	<b>56.8</b>				Degrees F			12/15/21 12:19	1
<b>Ground Water Elevation</b>	<b>496.06</b>				ft			12/15/21 12:19	1
<b>Specific Conductance</b>	<b>1254</b>				umhos/cm			12/15/21 12:19	1
<b>Well bottom elevation</b>	<b>453.62</b>				ft			12/15/21 12:19	1
<b>Field Turbidity</b>	<b>73.1</b>				NTU			12/15/21 12:19	1

# Client Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Joliet #9 (Quarry) CCR 4Q21

Job ID: 500-209450-1

**Client Sample ID: T04S**

**Lab Sample ID: 500-209450-16**

Date Collected: 12/15/21 13:20

Matrix: Water

Date Received: 12/15/21 14:15

**Method: Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	0				ft			12/15/21 13:20	1
Depth to Water (ft from MP)	0				ft			12/15/21 13:20	1
Elevation of well (ft from MP)	631.35				ft			12/15/21 13:20	1
Field pH	0				SU			12/15/21 13:20	1
Field Temperature	0				Degrees F			12/15/21 13:20	1
Ground Water Elevation	0				ft			12/15/21 13:20	1
Specific Conductance	0				umhos/cm			12/15/21 13:20	1
Well bottom elevation	458.07				ft			12/15/21 13:20	1
Field Turbidity	0				NTU			12/15/21 13:20	1



# Client Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Joliet #9 (Quarry) CCR 4Q21

Job ID: 500-209450-1

**Client Sample ID: G44S**

**Lab Sample ID: 500-209450-17**

Date Collected: 12/16/21 09:07

Matrix: GW

Date Received: 12/16/21 14:26

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		12/29/21 10:14	12/30/21 15:34	1
Arsenic	<0.0010		0.0010		mg/L		12/29/21 10:14	12/29/21 20:14	1
<b>Barium</b>	<b>0.066</b>		0.0025		mg/L		12/29/21 10:14	12/30/21 15:34	1
Beryllium	<0.0010		0.0010		mg/L		12/29/21 10:14	12/30/21 15:34	1
<b>Boron</b>	<b>1.9</b>		0.25		mg/L		12/29/21 10:14	12/30/21 13:39	5
Cadmium	<0.00050		0.00050		mg/L		12/29/21 10:14	12/30/21 15:34	1
<b>Calcium</b>	<b>140</b>		0.20		mg/L		12/29/21 10:14	12/30/21 15:34	1
Chromium	<0.0050		0.0050		mg/L		12/29/21 10:14	12/30/21 15:34	1
Cobalt	<0.0010		0.0010		mg/L		12/29/21 10:14	12/30/21 15:34	1
Lead	<0.00050		0.00050		mg/L		12/29/21 10:14	12/30/21 15:34	1
<b>Lithium</b>	<b>0.027</b>		0.0020		mg/L		12/29/21 10:14	12/30/21 15:34	1
<b>Molybdenum</b>	<b>0.29</b>		0.0050		mg/L		12/29/21 10:14	12/30/21 15:34	1
Selenium	<0.0025		0.0025		mg/L		12/29/21 10:14	12/30/21 15:34	1
Thallium	<0.0020		0.0020		mg/L		12/29/21 10:14	12/30/21 15:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/17/21 10:05	12/20/21 08:39	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>690</b>		10		mg/L			12/22/21 16:50	1
<b>Chloride</b>	<b>62</b>		6.0		mg/L			12/28/21 15:56	3
<b>Fluoride</b>	<b>0.20</b>		0.10		mg/L			12/20/21 19:14	1
<b>Sulfate</b>	<b>170</b>		50		mg/L			12/28/21 16:23	10

**Method: Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
<b>Depth to water from land surface</b>	<b>80.53</b>				ft			12/16/21 09:07	1
<b>Depth to Water (ft from MP)</b>	<b>82.71</b>				ft			12/16/21 09:07	1
<b>Elevation of well (ft from MP)</b>	<b>586.49</b>				ft			12/16/21 09:07	1
<b>Field pH</b>	<b>7.21</b>				SU			12/16/21 09:07	1
<b>Field Temperature</b>	<b>52.2</b>				Degrees F			12/16/21 09:07	1
<b>Ground Water Elevation</b>	<b>503.78</b>				ft			12/16/21 09:07	1
<b>Specific Conductance</b>	<b>987</b>				umhos/cm			12/16/21 09:07	1
<b>Well bottom elevation</b>	<b>455.11</b>				ft			12/16/21 09:07	1
<b>Field Turbidity</b>	<b>1.29</b>				NTU			12/16/21 09:07	1

# Client Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Joliet #9 (Quarry) CCR 4Q21

Job ID: 500-209450-1

**Client Sample ID: G45S**

**Lab Sample ID: 500-209450-18**

Date Collected: 12/16/21 10:01

Matrix: GW

Date Received: 12/16/21 14:26

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		12/29/21 10:14	12/30/21 13:42	1
<b>Arsenic</b>	<b>0.0092</b>		0.0010		mg/L		12/29/21 10:14	12/29/21 20:17	1
<b>Barium</b>	<b>0.037</b>		0.0025		mg/L		12/29/21 10:14	12/30/21 13:42	1
Beryllium	<0.0010		0.0010		mg/L		12/29/21 10:14	12/30/21 13:42	1
<b>Boron</b>	<b>0.34</b>		0.050		mg/L		12/29/21 10:14	12/30/21 13:42	1
Cadmium	<0.00050		0.00050		mg/L		12/29/21 10:14	12/30/21 13:42	1
<b>Calcium</b>	<b>84</b>		0.20		mg/L		12/29/21 10:14	12/30/21 13:42	1
Chromium	<0.0050		0.0050		mg/L		12/29/21 10:14	12/30/21 13:42	1
Cobalt	<0.0010		0.0010		mg/L		12/29/21 10:14	12/30/21 13:42	1
Lead	<0.00050		0.00050		mg/L		12/29/21 10:14	12/30/21 13:42	1
<b>Lithium</b>	<b>0.028</b>		0.0020		mg/L		12/29/21 10:14	12/30/21 13:42	1
<b>Molybdenum</b>	<b>0.0073</b>		0.0050		mg/L		12/29/21 10:14	12/30/21 13:42	1
Selenium	<0.0025		0.0025		mg/L		12/29/21 10:14	12/30/21 13:42	1
Thallium	<0.0020		0.0020		mg/L		12/29/21 10:14	12/30/21 13:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/17/21 10:05	12/20/21 08:41	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>510</b>		10		mg/L			12/22/21 16:57	1
<b>Chloride</b>	<b>87</b>		6.0		mg/L			12/28/21 15:56	3
<b>Fluoride</b>	<b>0.36</b>		0.10		mg/L			12/20/21 19:17	1
<b>Sulfate</b>	<b>130</b>		25		mg/L			12/28/21 16:23	5

**Method: Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
<b>Depth to water from land surface</b>	<b>63.18</b>				ft			12/16/21 10:01	1
<b>Depth to Water (ft from MP)</b>	<b>66.15</b>				ft			12/16/21 10:01	1
<b>Elevation of well (ft from MP)</b>	<b>603.94</b>				ft			12/16/21 10:01	1
<b>Field pH</b>	<b>7.35</b>				SU			12/16/21 10:01	1
<b>Field Temperature</b>	<b>53.6</b>				Degrees F			12/16/21 10:01	1
<b>Ground Water Elevation</b>	<b>537.79</b>				ft			12/16/21 10:01	1
<b>Specific Conductance</b>	<b>808</b>				umhos/cm			12/16/21 10:01	1
<b>Well bottom elevation</b>	<b>471.05</b>				ft			12/16/21 10:01	1
<b>Field Turbidity</b>	<b>0.89</b>				NTU			12/16/21 10:01	1

# Client Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Joliet #9 (Quarry) CCR 4Q21

Job ID: 500-209450-1

**Client Sample ID: G48S**

**Lab Sample ID: 500-209450-19**

Date Collected: 12/16/21 11:13

Matrix: GW

Date Received: 12/16/21 14:26

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		12/29/21 10:14	12/30/21 15:38	1
<b>Arsenic</b>	<b>0.0076</b>		0.0010		mg/L		12/29/21 10:14	12/29/21 20:21	1
<b>Barium</b>	<b>0.023</b>		0.0025		mg/L		12/29/21 10:14	12/30/21 15:38	1
Beryllium	<0.0010		0.0010		mg/L		12/29/21 10:14	12/30/21 15:38	1
<b>Boron</b>	<b>6.0</b>		1.0		mg/L		12/29/21 10:14	12/30/21 13:46	20
Cadmium	<0.00050		0.00050		mg/L		12/29/21 10:14	12/30/21 15:38	1
<b>Calcium</b>	<b>46</b>		0.20		mg/L		12/29/21 10:14	12/30/21 15:38	1
Chromium	<0.0050		0.0050		mg/L		12/29/21 10:14	12/30/21 15:38	1
Cobalt	<0.0010		0.0010		mg/L		12/29/21 10:14	12/30/21 15:38	1
Lead	<0.00050		0.00050		mg/L		12/29/21 10:14	12/30/21 15:38	1
<b>Lithium</b>	<b>0.024</b>		0.0020		mg/L		12/29/21 10:14	12/30/21 15:38	1
<b>Molybdenum</b>	<b>0.52</b>		0.0050		mg/L		12/29/21 10:14	12/30/21 15:38	1
Selenium	<0.0025		0.0025		mg/L		12/29/21 10:14	12/30/21 15:38	1
Thallium	<0.0020		0.0020		mg/L		12/29/21 10:14	12/30/21 15:38	1

## Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/17/21 10:05	12/20/21 08:44	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>880</b>		10		mg/L			12/22/21 17:00	1
<b>Chloride</b>	<b>99</b>		6.0		mg/L			12/28/21 15:56	3
<b>Fluoride</b>	<b>0.91</b>		0.10		mg/L			12/28/21 10:38	1
<b>Sulfate</b>	<b>430</b>		100		mg/L			12/28/21 16:24	20

## Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
<b>Depth to water from land surface</b>	<b>102.64</b>				ft			12/16/21 11:13	1
<b>Depth to Water (ft from MP)</b>	<b>105.09</b>				ft			12/16/21 11:13	1
<b>Elevation of well (ft from MP)</b>	<b>620.74</b>				ft			12/16/21 11:13	1
<b>Field pH</b>	<b>7.02</b>				SU			12/16/21 11:13	1
<b>Field Temperature</b>	<b>47.8</b>				Degrees F			12/16/21 11:13	1
<b>Ground Water Elevation</b>	<b>515.65</b>				ft			12/16/21 11:13	1
<b>Specific Conductance</b>	<b>1318</b>				umhos/cm			12/16/21 11:13	1
<b>Well bottom elevation</b>	<b>468.32</b>				ft			12/16/21 11:13	1
<b>Field Turbidity</b>	<b>0.62</b>				NTU			12/16/21 11:13	1

# Client Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Joliet #9 (Quarry) CCR 4Q21

Job ID: 500-209450-1

**Client Sample ID: G47S**

**Lab Sample ID: 500-209450-20**

Date Collected: 12/16/21 13:10

Matrix: GW

Date Received: 12/16/21 14:26

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		12/29/21 10:14	12/30/21 15:41	1
<b>Arsenic</b>	<b>0.039</b>		0.0010		mg/L		12/29/21 10:14	12/29/21 20:24	1
<b>Barium</b>	<b>0.014</b>		0.0025		mg/L		12/29/21 10:14	12/30/21 15:41	1
Beryllium	<0.0010		0.0010		mg/L		12/29/21 10:14	12/30/21 15:41	1
<b>Boron</b>	<b>6.7</b>		1.0		mg/L		12/29/21 10:14	12/30/21 13:49	20
Cadmium	<0.00050		0.00050		mg/L		12/29/21 10:14	12/30/21 15:41	1
<b>Calcium</b>	<b>11</b>		0.20		mg/L		12/29/21 10:14	12/30/21 15:41	1
Chromium	<0.0050		0.0050		mg/L		12/29/21 10:14	12/30/21 15:41	1
Cobalt	<0.0010		0.0010		mg/L		12/29/21 10:14	12/30/21 15:41	1
Lead	<0.00050		0.00050		mg/L		12/29/21 10:14	12/30/21 15:41	1
<b>Lithium</b>	<b>0.046</b>		0.0020		mg/L		12/29/21 10:14	12/30/21 15:41	1
<b>Molybdenum</b>	<b>0.54</b>		0.0050		mg/L		12/29/21 10:14	12/30/21 15:41	1
<b>Selenium</b>	<b>0.0031</b>		0.0025		mg/L		12/29/21 10:14	12/30/21 15:41	1
Thallium	<0.0020		0.0020		mg/L		12/29/21 10:14	12/30/21 15:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/17/21 10:05	12/20/21 08:46	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>900</b>		10		mg/L			12/22/21 17:02	1
<b>Chloride</b>	<b>98</b>		6.0		mg/L			12/28/21 15:57	3
<b>Fluoride</b>	<b>0.65</b>		0.10		mg/L			12/28/21 10:41	1
<b>Sulfate</b>	<b>440</b>		50		mg/L			12/28/21 16:40	10

**Method: Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
<b>Depth to water from land surface</b>	<b>93.48</b>				ft			12/16/21 13:10	1
<b>Depth to Water (ft from MP)</b>	<b>95.98</b>				ft			12/16/21 13:10	1
<b>Elevation of well (ft from MP)</b>	<b>612.04</b>				ft			12/16/21 13:10	1
<b>Field pH</b>	<b>8.63</b>				SU			12/16/21 13:10	1
<b>Field Temperature</b>	<b>52.0</b>				Degrees F			12/16/21 13:10	1
<b>Ground Water Elevation</b>	<b>516.06</b>				ft			12/16/21 13:10	1
<b>Specific Conductance</b>	<b>1334</b>				umhos/cm			12/16/21 13:10	1
<b>Well bottom elevation</b>	<b>459.84</b>				ft			12/16/21 13:10	1
<b>Field Turbidity</b>	<b>0.59</b>				NTU			12/16/21 13:10	1

# Definitions/Glossary

Client: KPRG and Associates, Inc.  
Project/Site: Joliet #9 (Quarry) CCR 4Q21

Job ID: 500-209450-1

## Qualifiers

### Metals

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

### General Chemistry

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
F3	Duplicate RPD exceeds the control 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: Joliet #9 (Quarry) CCR 4Q21

Job ID: 500-209450-1

## Metals

### Prep Batch: 633682

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-209450-1	T09S	Total/NA	Water	7470A	
500-209450-2	T06S	Total/NA	Water	7470A	
500-209450-3	T02S	Total/NA	Water	7470A	
500-209450-4	T08S	Total/NA	Water	7470A	
500-209450-5	T03S	Total/NA	Water	7470A	
500-209450-6	T05S	Total/NA	Water	7470A	
500-209450-7	G20S	Total/NA	Water	7470A	
500-209450-8	T01S	Total/NA	Water	7470A	
500-209450-9	G33S	Total/NA	Water	7470A	
500-209450-10	G31S	Total/NA	Water	7470A	
MB 500-633682/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-633682/13-A	Lab Control Sample	Total/NA	Water	7470A	
500-209450-8 MS	T01S	Total/NA	Water	7470A	
500-209450-8 MSD	T01S	Total/NA	Water	7470A	
500-209450-8 DU	T01S	Total/NA	Water	7470A	

### Prep Batch: 633818

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-209450-11	R08S	Total/NA	Water	7470A	
MB 500-633818/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-633818/13-A	Lab Control Sample	Total/NA	Water	7470A	

### Analysis Batch: 633847

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-209450-1	T09S	Total/NA	Water	7470A	633682
500-209450-2	T06S	Total/NA	Water	7470A	633682
500-209450-3	T02S	Total/NA	Water	7470A	633682
500-209450-4	T08S	Total/NA	Water	7470A	633682
500-209450-5	T03S	Total/NA	Water	7470A	633682
500-209450-6	T05S	Total/NA	Water	7470A	633682
500-209450-7	G20S	Total/NA	Water	7470A	633682
500-209450-8	T01S	Total/NA	Water	7470A	633682
500-209450-9	G33S	Total/NA	Water	7470A	633682
500-209450-10	G31S	Total/NA	Water	7470A	633682
MB 500-633682/12-A	Method Blank	Total/NA	Water	7470A	633682
LCS 500-633682/13-A	Lab Control Sample	Total/NA	Water	7470A	633682
500-209450-8 MS	T01S	Total/NA	Water	7470A	633682
500-209450-8 MSD	T01S	Total/NA	Water	7470A	633682
500-209450-8 DU	T01S	Total/NA	Water	7470A	633682

### Prep Batch: 634059

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-209450-12	G30S	Total/NA	Water	7470A	
500-209450-13	R32S	Total/NA	Water	7470A	
500-209450-14	DUP	Total/NA	Water	7470A	
500-209450-15	G46S	Total/NA	Water	7470A	
MB 500-634059/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-634059/13-A	Lab Control Sample	Total/NA	Water	7470A	



# QC Association Summary

Client: KPRG and Associates, Inc.  
Project/Site: Joliet #9 (Quarry) CCR 4Q21

Job ID: 500-209450-1

## Metals

### Analysis Batch: 634083

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-209450-11	R08S	Total/NA	Water	7470A	633818
MB 500-633818/12-A	Method Blank	Total/NA	Water	7470A	633818
LCS 500-633818/13-A	Lab Control Sample	Total/NA	Water	7470A	633818

### Prep Batch: 634255

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-209450-17	G44S	Total/NA	GW	7470A	
500-209450-18	G45S	Total/NA	GW	7470A	
500-209450-19	G48S	Total/NA	GW	7470A	
500-209450-20	G47S	Total/NA	GW	7470A	
MB 500-634255/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-634255/13-A	Lab Control Sample	Total/NA	Water	7470A	

### Analysis Batch: 634283

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-209450-12	G30S	Total/NA	Water	7470A	634059
500-209450-13	R32S	Total/NA	Water	7470A	634059
500-209450-14	DUP	Total/NA	Water	7470A	634059
500-209450-15	G46S	Total/NA	Water	7470A	634059
MB 500-634059/12-A	Method Blank	Total/NA	Water	7470A	634059
LCS 500-634059/13-A	Lab Control Sample	Total/NA	Water	7470A	634059

### Analysis Batch: 634589

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-209450-17	G44S	Total/NA	GW	7470A	634255
500-209450-18	G45S	Total/NA	GW	7470A	634255
500-209450-19	G48S	Total/NA	GW	7470A	634255
500-209450-20	G47S	Total/NA	GW	7470A	634255
MB 500-634255/12-A	Method Blank	Total/NA	Water	7470A	634255
LCS 500-634255/13-A	Lab Control Sample	Total/NA	Water	7470A	634255

### Prep Batch: 635936

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-209450-1	T09S	Total Recoverable	Water	3005A	
500-209450-2	T06S	Total Recoverable	Water	3005A	
500-209450-3	T02S	Total Recoverable	Water	3005A	
500-209450-4	T08S	Total Recoverable	Water	3005A	
500-209450-5	T03S	Total Recoverable	Water	3005A	
500-209450-6	T05S	Total Recoverable	Water	3005A	
500-209450-7	G20S	Total Recoverable	Water	3005A	
500-209450-8	T01S	Total Recoverable	Water	3005A	
500-209450-9	G33S	Total Recoverable	Water	3005A	
500-209450-10	G31S	Total Recoverable	Water	3005A	
500-209450-11	R08S	Total Recoverable	Water	3005A	
500-209450-12	G30S	Total Recoverable	Water	3005A	
500-209450-13	R32S	Total Recoverable	Water	3005A	
500-209450-14	DUP	Total Recoverable	Water	3005A	
500-209450-15	G46S	Total Recoverable	Water	3005A	
500-209450-17	G44S	Total Recoverable	GW	3005A	
500-209450-18	G45S	Total Recoverable	GW	3005A	
500-209450-19	G48S	Total Recoverable	GW	3005A	

Eurofins North Central, Chicago

# QC Association Summary

Client: KPRG and Associates, Inc.  
 Project/Site: Joliet #9 (Quarry) CCR 4Q21

Job ID: 500-209450-1

## Metals (Continued)

### Prep Batch: 635936 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-209450-20	G47S	Total Recoverable	GW	3005A	
MB 500-635936/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-635936/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
500-209450-1 MS	T09S	Total Recoverable	Water	3005A	
500-209450-1 MSD	T09S	Total Recoverable	Water	3005A	
500-209450-1 DU	T09S	Total Recoverable	Water	3005A	

### Analysis Batch: 636088

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-209450-1	T09S	Total Recoverable	Water	6020A	635936
500-209450-2	T06S	Total Recoverable	Water	6020A	635936
500-209450-3	T02S	Total Recoverable	Water	6020A	635936
500-209450-4	T08S	Total Recoverable	Water	6020A	635936
500-209450-5	T03S	Total Recoverable	Water	6020A	635936
500-209450-6	T05S	Total Recoverable	Water	6020A	635936
500-209450-7	G20S	Total Recoverable	Water	6020A	635936
500-209450-8	T01S	Total Recoverable	Water	6020A	635936
500-209450-9	G33S	Total Recoverable	Water	6020A	635936
500-209450-10	G31S	Total Recoverable	Water	6020A	635936
500-209450-11	R08S	Total Recoverable	Water	6020A	635936
500-209450-12	G30S	Total Recoverable	Water	6020A	635936
500-209450-13	R32S	Total Recoverable	Water	6020A	635936
500-209450-14	DUP	Total Recoverable	Water	6020A	635936
500-209450-15	G46S	Total Recoverable	Water	6020A	635936
500-209450-17	G44S	Total Recoverable	GW	6020A	635936
500-209450-18	G45S	Total Recoverable	GW	6020A	635936
500-209450-19	G48S	Total Recoverable	GW	6020A	635936
500-209450-20	G47S	Total Recoverable	GW	6020A	635936
MB 500-635936/1-A	Method Blank	Total Recoverable	Water	6020A	635936
LCS 500-635936/2-A	Lab Control Sample	Total Recoverable	Water	6020A	635936
500-209450-1 MS	T09S	Total Recoverable	Water	6020A	635936
500-209450-1 MSD	T09S	Total Recoverable	Water	6020A	635936
500-209450-1 DU	T09S	Total Recoverable	Water	6020A	635936

### Analysis Batch: 636170

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-209450-1	T09S	Total Recoverable	Water	6020A	635936
500-209450-1	T09S	Total Recoverable	Water	6020A	635936
500-209450-2	T06S	Total Recoverable	Water	6020A	635936
500-209450-2	T06S	Total Recoverable	Water	6020A	635936
500-209450-3	T02S	Total Recoverable	Water	6020A	635936
500-209450-3	T02S	Total Recoverable	Water	6020A	635936
500-209450-4	T08S	Total Recoverable	Water	6020A	635936
500-209450-4	T08S	Total Recoverable	Water	6020A	635936
500-209450-5	T03S	Total Recoverable	Water	6020A	635936
500-209450-5	T03S	Total Recoverable	Water	6020A	635936
500-209450-6	T05S	Total Recoverable	Water	6020A	635936
500-209450-6	T05S	Total Recoverable	Water	6020A	635936
500-209450-7	G20S	Total Recoverable	Water	6020A	635936
500-209450-7	G20S	Total Recoverable	Water	6020A	635936
500-209450-8	T01S	Total Recoverable	Water	6020A	635936

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# QC Association Summary

Client: KPRG and Associates, Inc.  
Project/Site: Joliet #9 (Quarry) CCR 4Q21

Job ID: 500-209450-1

## Metals (Continued)

### Analysis Batch: 636170 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-209450-8	T01S	Total Recoverable	Water	6020A	635936
500-209450-9	G33S	Total Recoverable	Water	6020A	635936
500-209450-9	G33S	Total Recoverable	Water	6020A	635936
500-209450-10	G31S	Total Recoverable	Water	6020A	635936
500-209450-10	G31S	Total Recoverable	Water	6020A	635936
500-209450-11	R08S	Total Recoverable	Water	6020A	635936
500-209450-11	R08S	Total Recoverable	Water	6020A	635936
500-209450-12	G30S	Total Recoverable	Water	6020A	635936
500-209450-12	G30S	Total Recoverable	Water	6020A	635936
500-209450-13	R32S	Total Recoverable	Water	6020A	635936
500-209450-13	R32S	Total Recoverable	Water	6020A	635936
500-209450-14	DUP	Total Recoverable	Water	6020A	635936
500-209450-14	DUP	Total Recoverable	Water	6020A	635936
500-209450-15	G46S	Total Recoverable	Water	6020A	635936
500-209450-15	G46S	Total Recoverable	Water	6020A	635936
500-209450-17	G44S	Total Recoverable	GW	6020A	635936
500-209450-17	G44S	Total Recoverable	GW	6020A	635936
500-209450-18	G45S	Total Recoverable	GW	6020A	635936
500-209450-19	G48S	Total Recoverable	GW	6020A	635936
500-209450-19	G48S	Total Recoverable	GW	6020A	635936
500-209450-20	G47S	Total Recoverable	GW	6020A	635936
500-209450-20	G47S	Total Recoverable	GW	6020A	635936
MB 500-635936/1-A	Method Blank	Total Recoverable	Water	6020A	635936
LCS 500-635936/2-A	Lab Control Sample	Total Recoverable	Water	6020A	635936
500-209450-1 MS	T09S	Total Recoverable	Water	6020A	635936
500-209450-1 MS	T09S	Total Recoverable	Water	6020A	635936
500-209450-1 MSD	T09S	Total Recoverable	Water	6020A	635936
500-209450-1 MSD	T09S	Total Recoverable	Water	6020A	635936
500-209450-1 DU	T09S	Total Recoverable	Water	6020A	635936
500-209450-1 DU	T09S	Total Recoverable	Water	6020A	635936

## General Chemistry

### Analysis Batch: 632819

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-209450-1	T09S	Total/NA	Water	SM 2540C	
500-209450-2	T06S	Total/NA	Water	SM 2540C	
MB 500-632819/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-632819/2	Lab Control Sample	Total/NA	Water	SM 2540C	

### Analysis Batch: 633483

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-209450-1	T09S	Total/NA	Water	SM 4500 CI- E	
500-209450-2	T06S	Total/NA	Water	SM 4500 CI- E	
500-209450-3	T02S	Total/NA	Water	SM 4500 CI- E	
500-209450-4	T08S	Total/NA	Water	SM 4500 CI- E	
500-209450-5	T03S	Total/NA	Water	SM 4500 CI- E	
500-209450-6	T05S	Total/NA	Water	SM 4500 CI- E	
500-209450-7	G20S	Total/NA	Water	SM 4500 CI- E	
MB 500-633483/63	Method Blank	Total/NA	Water	SM 4500 CI- E	
LCS 500-633483/64	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	

Eurofins North Central, Chicago

# QC Association Summary

Client: KPRG and Associates, Inc.  
 Project/Site: Joliet #9 (Quarry) CCR 4Q21

Job ID: 500-209450-1

## General Chemistry (Continued)

### Analysis Batch: 633483 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-209450-5 MS	T03S	Total/NA	Water	SM 4500 Cl- E	
500-209450-5 MSD	T03S	Total/NA	Water	SM 4500 Cl- E	

### Analysis Batch: 633484

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-209450-1	T09S	Total/NA	Water	SM 4500 SO4 E	
500-209450-2	T06S	Total/NA	Water	SM 4500 SO4 E	
500-209450-3	T02S	Total/NA	Water	SM 4500 SO4 E	
500-209450-4	T08S	Total/NA	Water	SM 4500 SO4 E	
500-209450-5	T03S	Total/NA	Water	SM 4500 SO4 E	
500-209450-6	T05S	Total/NA	Water	SM 4500 SO4 E	
500-209450-7	G20S	Total/NA	Water	SM 4500 SO4 E	
MB 500-633484/41	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-633484/42	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
500-209450-5 MS	T03S	Total/NA	Water	SM 4500 SO4 E	
500-209450-5 MSD	T03S	Total/NA	Water	SM 4500 SO4 E	

### Analysis Batch: 633495

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-209450-3	T02S	Total/NA	Water	SM 2540C	
500-209450-4	T08S	Total/NA	Water	SM 2540C	
500-209450-5	T03S	Total/NA	Water	SM 2540C	
500-209450-6	T05S	Total/NA	Water	SM 2540C	
500-209450-7	G20S	Total/NA	Water	SM 2540C	
500-209450-8	T01S	Total/NA	Water	SM 2540C	
500-209450-9	G33S	Total/NA	Water	SM 2540C	
500-209450-10	G31S	Total/NA	Water	SM 2540C	
MB 500-633495/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-633495/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-209450-3 MS	T02S	Total/NA	Water	SM 2540C	
500-209450-3 DU	T02S	Total/NA	Water	SM 2540C	
500-209450-4 DU	T08S	Total/NA	Water	SM 2540C	

### Analysis Batch: 634708

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-209450-1	T09S	Total/NA	Water	SM 4500 F C	
500-209450-2	T06S	Total/NA	Water	SM 4500 F C	
500-209450-3	T02S	Total/NA	Water	SM 4500 F C	
500-209450-4	T08S	Total/NA	Water	SM 4500 F C	
500-209450-5	T03S	Total/NA	Water	SM 4500 F C	
500-209450-6	T05S	Total/NA	Water	SM 4500 F C	
500-209450-7	G20S	Total/NA	Water	SM 4500 F C	
500-209450-8	T01S	Total/NA	Water	SM 4500 F C	
500-209450-9	G33S	Total/NA	Water	SM 4500 F C	
500-209450-10	G31S	Total/NA	Water	SM 4500 F C	
500-209450-11	R08S	Total/NA	Water	SM 4500 F C	
500-209450-12	G30S	Total/NA	Water	SM 4500 F C	
500-209450-13	R32S	Total/NA	Water	SM 4500 F C	
500-209450-14	DUP	Total/NA	Water	SM 4500 F C	
500-209450-15	G46S	Total/NA	Water	SM 4500 F C	
500-209450-17	G44S	Total/NA	GW	SM 4500 F C	

Eurofins North Central, Chicago

# QC Association Summary

Client: KPRG and Associates, Inc.  
Project/Site: Joliet #9 (Quarry) CCR 4Q21

Job ID: 500-209450-1

## General Chemistry (Continued)

### Analysis Batch: 634708 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-209450-18	G45S	Total/NA	GW	SM 4500 F C	
MB 500-634708/3	Method Blank	Total/NA	Water	SM 4500 F C	
MB 500-634708/31	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-634708/32	Lab Control Sample	Total/NA	Water	SM 4500 F C	
LCS 500-634708/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
500-209450-4 MS	T08S	Total/NA	Water	SM 4500 F C	
500-209450-4 MSD	T08S	Total/NA	Water	SM 4500 F C	

### Analysis Batch: 634880

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-209450-11	R08S	Total/NA	Water	SM 2540C	
MB 500-634880/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-634880/2	Lab Control Sample	Total/NA	Water	SM 2540C	

### Analysis Batch: 635089

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-209450-12	G30S	Total/NA	Water	SM 2540C	
500-209450-13	R32S	Total/NA	Water	SM 2540C	
500-209450-14	DUP	Total/NA	Water	SM 2540C	
500-209450-15	G46S	Total/NA	Water	SM 2540C	
MB 500-635089/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-635089/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-209450-12 MS	G30S	Total/NA	Water	SM 2540C	
500-209450-12 DU	G30S	Total/NA	Water	SM 2540C	
500-209450-14 DU	DUP	Total/NA	Water	SM 2540C	

### Analysis Batch: 635119

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-209450-17	G44S	Total/NA	GW	SM 2540C	
500-209450-18	G45S	Total/NA	GW	SM 2540C	
500-209450-19	G48S	Total/NA	GW	SM 2540C	
500-209450-20	G47S	Total/NA	GW	SM 2540C	
MB 500-635119/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-635119/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-209450-17 MS	G44S	Total/NA	GW	SM 2540C	
500-209450-17 DU	G44S	Total/NA	GW	SM 2540C	
500-209450-20 DU	G47S	Total/NA	GW	SM 2540C	

### Analysis Batch: 635765

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-209450-19	G48S	Total/NA	GW	SM 4500 F C	
500-209450-20	G47S	Total/NA	GW	SM 4500 F C	
MB 500-635765/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-635765/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
500-209450-19 MS	G48S	Total/NA	GW	SM 4500 F C	
500-209450-19 MSD	G48S	Total/NA	GW	SM 4500 F C	

### Analysis Batch: 635832

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-209450-8	T01S	Total/NA	Water	SM 4500 CI- E	
500-209450-9	G33S	Total/NA	Water	SM 4500 CI- E	

Eurofins North Central, Chicago

# QC Association Summary

Client: KPRG and Associates, Inc.  
Project/Site: Joliet #9 (Quarry) CCR 4Q21

Job ID: 500-209450-1

## General Chemistry (Continued)

### Analysis Batch: 635832 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-209450-10	G31S	Total/NA	Water	SM 4500 CI- E	
500-209450-11	R08S	Total/NA	Water	SM 4500 CI- E	
500-209450-12	G30S	Total/NA	Water	SM 4500 CI- E	
500-209450-13	R32S	Total/NA	Water	SM 4500 CI- E	
500-209450-14	DUP	Total/NA	Water	SM 4500 CI- E	
500-209450-15	G46S	Total/NA	Water	SM 4500 CI- E	
500-209450-17	G44S	Total/NA	GW	SM 4500 CI- E	
500-209450-18	G45S	Total/NA	GW	SM 4500 CI- E	
500-209450-19	G48S	Total/NA	GW	SM 4500 CI- E	
500-209450-20	G47S	Total/NA	GW	SM 4500 CI- E	
MB 500-635832/82	Method Blank	Total/NA	Water	SM 4500 CI- E	
LCS 500-635832/83	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	
500-209450-10 MS	G31S	Total/NA	Water	SM 4500 CI- E	
500-209450-10 MSD	G31S	Total/NA	Water	SM 4500 CI- E	

### Analysis Batch: 635833

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-209450-8	T01S	Total/NA	Water	SM 4500 SO4 E	
500-209450-9	G33S	Total/NA	Water	SM 4500 SO4 E	
500-209450-10	G31S	Total/NA	Water	SM 4500 SO4 E	
500-209450-11	R08S	Total/NA	Water	SM 4500 SO4 E	
500-209450-12	G30S	Total/NA	Water	SM 4500 SO4 E	
500-209450-13	R32S	Total/NA	Water	SM 4500 SO4 E	
500-209450-14	DUP	Total/NA	Water	SM 4500 SO4 E	
500-209450-15	G46S	Total/NA	Water	SM 4500 SO4 E	
500-209450-17	G44S	Total/NA	GW	SM 4500 SO4 E	
500-209450-18	G45S	Total/NA	GW	SM 4500 SO4 E	
500-209450-19	G48S	Total/NA	GW	SM 4500 SO4 E	
500-209450-20	G47S	Total/NA	GW	SM 4500 SO4 E	
MB 500-635833/15	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-635833/16	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
500-209450-10 MS	G31S	Total/NA	Water	SM 4500 SO4 E	
500-209450-10 MSD	G31S	Total/NA	Water	SM 4500 SO4 E	

## Field Service / Mobile Lab

### Analysis Batch: 632892

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-209450-1	T09S	Total/NA	Water	Field Sampling	
500-209450-2	T06S	Total/NA	Water	Field Sampling	
500-209450-3	T02S	Total/NA	Water	Field Sampling	
500-209450-4	T08S	Total/NA	Water	Field Sampling	
500-209450-5	T03S	Total/NA	Water	Field Sampling	
500-209450-6	T05S	Total/NA	Water	Field Sampling	
500-209450-7	G20S	Total/NA	Water	Field Sampling	
500-209450-8	T01S	Total/NA	Water	Field Sampling	
500-209450-9	G33S	Total/NA	Water	Field Sampling	
500-209450-10	G31S	Total/NA	Water	Field Sampling	
500-209450-11	R08S	Total/NA	Water	Field Sampling	
500-209450-12	G30S	Total/NA	Water	Field Sampling	
500-209450-13	R32S	Total/NA	Water	Field Sampling	

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# QC Association Summary

Client: KPRG and Associates, Inc.  
Project/Site: Joliet #9 (Quarry) CCR 4Q21

Job ID: 500-209450-1

## Field Service / Mobile Lab (Continued)

### Analysis Batch: 632892 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-209450-14	DUP	Total/NA	Water	Field Sampling	
500-209450-15	G46S	Total/NA	Water	Field Sampling	
500-209450-16	T04S	Total/NA	Water	Field Sampling	
500-209450-17	G44S	Total/NA	GW	Field Sampling	
500-209450-18	G45S	Total/NA	GW	Field Sampling	
500-209450-19	G48S	Total/NA	GW	Field Sampling	
500-209450-20	G47S	Total/NA	GW	Field Sampling	

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



# QC Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Joliet #9 (Quarry) CCR 4Q21

Job ID: 500-209450-1

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

**Lab Sample ID: MB 500-635936/1-A**  
**Matrix: Water**  
**Analysis Batch: 636088**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 635936**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0010		0.0010		mg/L		12/29/21 10:14	12/29/21 18:49	1

**Lab Sample ID: MB 500-635936/1-A**  
**Matrix: Water**  
**Analysis Batch: 636170**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 635936**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		12/29/21 10:14	12/30/21 12:12	1
Barium	<0.0025		0.0025		mg/L		12/29/21 10:14	12/30/21 12:12	1
Beryllium	<0.0010		0.0010		mg/L		12/29/21 10:14	12/30/21 12:12	1
Boron	<0.050		0.050		mg/L		12/29/21 10:14	12/30/21 12:12	1
Cadmium	<0.00050		0.00050		mg/L		12/29/21 10:14	12/30/21 12:12	1
Calcium	<0.20		0.20		mg/L		12/29/21 10:14	12/30/21 12:12	1
Chromium	<0.0050		0.0050		mg/L		12/29/21 10:14	12/30/21 12:12	1
Cobalt	<0.0010		0.0010		mg/L		12/29/21 10:14	12/30/21 12:12	1
Lead	<0.00050		0.00050		mg/L		12/29/21 10:14	12/30/21 12:12	1
Lithium	<0.0020		0.0020		mg/L		12/29/21 10:14	12/30/21 12:12	1
Molybdenum	<0.0050		0.0050		mg/L		12/29/21 10:14	12/30/21 12:12	1
Selenium	<0.0025		0.0025		mg/L		12/29/21 10:14	12/30/21 12:12	1
Thallium	<0.0020		0.0020		mg/L		12/29/21 10:14	12/30/21 12:12	1

**Lab Sample ID: LCS 500-635936/2-A**  
**Matrix: Water**  
**Analysis Batch: 636088**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 635936**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.100	0.0998		mg/L		100	80 - 120

**Lab Sample ID: LCS 500-635936/2-A**  
**Matrix: Water**  
**Analysis Batch: 636170**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 635936**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.500	0.521		mg/L		104	80 - 120
Barium	0.500	0.534		mg/L		107	80 - 120
Beryllium	0.0500	0.0531		mg/L		106	80 - 120
Boron	1.00	1.05		mg/L		105	80 - 120
Cadmium	0.0500	0.0516		mg/L		103	80 - 120
Calcium	10.0	10.4		mg/L		104	80 - 120
Chromium	0.200	0.217		mg/L		108	80 - 120
Cobalt	0.500	0.532		mg/L		106	80 - 120
Lead	0.100	0.106		mg/L		106	80 - 120
Lithium	0.100	0.106		mg/L		106	80 - 120
Molybdenum	1.00	1.01		mg/L		101	80 - 120
Selenium	0.100	0.105		mg/L		105	80 - 120
Thallium	0.100	0.108		mg/L		108	80 - 120



# QC Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Joliet #9 (Quarry) CCR 4Q21

Job ID: 500-209450-1

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

**Lab Sample ID: 500-209450-1 MS**  
**Matrix: Water**  
**Analysis Batch: 636088**

**Client Sample ID: T09S**  
**Prep Type: Total Recoverable**  
**Prep Batch: 635936**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits	%Rec. Limits
Arsenic	0.0035		0.100	0.107		mg/L		103	75 - 125	

**Lab Sample ID: 500-209450-1 MS**  
**Matrix: Water**  
**Analysis Batch: 636170**

**Client Sample ID: T09S**  
**Prep Type: Total Recoverable**  
**Prep Batch: 635936**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits	%Rec. Limits
Boron	9.0		1.00	10.9	4	mg/L		186	75 - 125	

**Lab Sample ID: 500-209450-1 MS**  
**Matrix: Water**  
**Analysis Batch: 636170**

**Client Sample ID: T09S**  
**Prep Type: Total Recoverable**  
**Prep Batch: 635936**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits	%Rec. Limits
Antimony	<0.0030		0.500	0.534		mg/L		107	75 - 125	
Barium	0.067		0.500	0.582		mg/L		103	75 - 125	
Beryllium	<0.0010		0.0500	0.0489		mg/L		98	75 - 125	
Cadmium	<0.00050		0.0500	0.0505		mg/L		101	75 - 125	
Calcium	130		10.0	139	4	mg/L		45	75 - 125	
Chromium	<0.0050		0.200	0.203		mg/L		101	75 - 125	
Cobalt	0.0011		0.500	0.497		mg/L		99	75 - 125	
Lead	0.00084		0.100	0.106		mg/L		105	75 - 125	
Lithium	0.10		0.100	0.203		mg/L		99	75 - 125	
Molybdenum	1.3		1.00	2.29		mg/L		99	75 - 125	
Selenium	<0.0025		0.100	0.108		mg/L		108	75 - 125	
Thallium	<0.0020		0.100	0.107		mg/L		107	75 - 125	

**Lab Sample ID: 500-209450-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 636088**

**Client Sample ID: T09S**  
**Prep Type: Total Recoverable**  
**Prep Batch: 635936**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Arsenic	0.0035		0.100	0.110		mg/L		107	75 - 125	3	20

**Lab Sample ID: 500-209450-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 636170**

**Client Sample ID: T09S**  
**Prep Type: Total Recoverable**  
**Prep Batch: 635936**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Boron	9.0		1.00	9.97	4	mg/L		93	75 - 125	9	20

**Lab Sample ID: 500-209450-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 636170**

**Client Sample ID: T09S**  
**Prep Type: Total Recoverable**  
**Prep Batch: 635936**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Antimony	<0.0030		0.500	0.529		mg/L		106	75 - 125	1	20
Barium	0.067		0.500	0.586		mg/L		104	75 - 125	1	20
Beryllium	<0.0010		0.0500	0.0474		mg/L		95	75 - 125	3	20
Cadmium	<0.00050		0.0500	0.0503		mg/L		101	75 - 125	1	20

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# QC Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Joliet #9 (Quarry) CCR 4Q21

Job ID: 500-209450-1

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

**Lab Sample ID: 500-209450-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 636170**

**Client Sample ID: T09S**  
**Prep Type: Total Recoverable**  
**Prep Batch: 635936**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	130		10.0	142	4	mg/L		73	75 - 125	2	20
Chromium	<0.0050		0.200	0.206		mg/L		103	75 - 125	1	20
Cobalt	0.0011		0.500	0.508		mg/L		101	75 - 125	2	20
Lead	0.00084		0.100	0.108		mg/L		107	75 - 125	2	20
Lithium	0.10		0.100	0.208		mg/L		104	75 - 125	3	20
Molybdenum	1.3		1.00	2.28		mg/L		97	75 - 125	1	20
Selenium	<0.0025		0.100	0.105		mg/L		105	75 - 125	2	20
Thallium	<0.0020		0.100	0.108		mg/L		108	75 - 125	1	20

**Lab Sample ID: 500-209450-1 DU**  
**Matrix: Water**  
**Analysis Batch: 636088**

**Client Sample ID: T09S**  
**Prep Type: Total Recoverable**  
**Prep Batch: 635936**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Arsenic	0.0035		0.00342		mg/L		3	20

**Lab Sample ID: 500-209450-1 DU**  
**Matrix: Water**  
**Analysis Batch: 636170**

**Client Sample ID: T09S**  
**Prep Type: Total Recoverable**  
**Prep Batch: 635936**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Boron	9.0		8.89		mg/L		2	20

**Lab Sample ID: 500-209450-1 DU**  
**Matrix: Water**  
**Analysis Batch: 636170**

**Client Sample ID: T09S**  
**Prep Type: Total Recoverable**  
**Prep Batch: 635936**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	<0.0030		<0.0030		mg/L		NC	20
Barium	0.067		0.0685		mg/L		2	20
Beryllium	<0.0010		<0.0010		mg/L		NC	20
Cadmium	<0.00050		<0.00050		mg/L		NC	20
Calcium	130		134		mg/L		0.2	20
Chromium	<0.0050		<0.0050		mg/L		NC	20
Cobalt	0.0011		0.00101		mg/L		9	20
Lead	0.00084		0.000783		mg/L		7	20
Lithium	0.10		0.107		mg/L		3	20
Molybdenum	1.3		1.29		mg/L		2	20
Selenium	<0.0025		<0.0025		mg/L		NC	20
Thallium	<0.0020		<0.0020		mg/L		NC	20

## Method: 7470A - Mercury (CVAA)

**Lab Sample ID: MB 500-633682/12-A**  
**Matrix: Water**  
**Analysis Batch: 633847**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 633682**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/14/21 14:20	12/15/21 08:45	1

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# QC Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Joliet #9 (Quarry) CCR 4Q21

Job ID: 500-209450-1

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

**Lab Sample ID: LCS 500-633682/13-A**  
**Matrix: Water**  
**Analysis Batch: 633847**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 633682**  
 %Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00200	0.00210		mg/L		105	80 - 120

**Lab Sample ID: 500-209450-8 MS**  
**Matrix: Water**  
**Analysis Batch: 633847**

**Client Sample ID: T01S**  
**Prep Type: Total/NA**  
**Prep Batch: 633682**  
 %Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	<0.00020		0.00100	0.00101		mg/L		101	75 - 125

**Lab Sample ID: 500-209450-8 MSD**  
**Matrix: Water**  
**Analysis Batch: 633847**

**Client Sample ID: T01S**  
**Prep Type: Total/NA**  
**Prep Batch: 633682**  
 %Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	<0.00020		0.00100	0.000965		mg/L		97	75 - 125	4	20

**Lab Sample ID: 500-209450-8 DU**  
**Matrix: Water**  
**Analysis Batch: 633847**

**Client Sample ID: T01S**  
**Prep Type: Total/NA**  
**Prep Batch: 633682**  
 %Rec.

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

**Lab Sample ID: MB 500-633818/12-A**  
**Matrix: Water**  
**Analysis Batch: 634083**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 633818**  
 %Rec.

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/15/21 10:20	12/16/21 08:44	1

**Lab Sample ID: LCS 500-633818/13-A**  
**Matrix: Water**  
**Analysis Batch: 634083**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 633818**  
 %Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00200	0.00204		mg/L		102	80 - 120

**Lab Sample ID: MB 500-634059/12-A**  
**Matrix: Water**  
**Analysis Batch: 634283**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 634059**  
 %Rec.

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/16/21 10:45	12/17/21 08:38	1

**Lab Sample ID: LCS 500-634059/13-A**  
**Matrix: Water**  
**Analysis Batch: 634283**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 634059**  
 %Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00200	0.00201		mg/L		101	80 - 120

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# QC Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Joliet #9 (Quarry) CCR 4Q21

Job ID: 500-209450-1

## Method: 7470A - Mercury (CVAA)

**Lab Sample ID: MB 500-634255/12-A**  
**Matrix: Water**  
**Analysis Batch: 634589**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 634255**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/17/21 10:05	12/20/21 08:31	1

**Lab Sample ID: LCS 500-634255/13-A**  
**Matrix: Water**  
**Analysis Batch: 634589**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 634255**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00200	0.00197		mg/L		98	80 - 120

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

**Lab Sample ID: MB 500-632819/1**  
**Matrix: Water**  
**Analysis Batch: 632819**

**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			12/09/21 06:39	1

**Lab Sample ID: LCS 500-632819/2**  
**Matrix: Water**  
**Analysis Batch: 632819**

**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	272		mg/L		109	80 - 120

**Lab Sample ID: MB 500-633495/1**  
**Matrix: Water**  
**Analysis Batch: 633495**

**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			12/14/21 04:35	1

**Lab Sample ID: LCS 500-633495/2**  
**Matrix: Water**  
**Analysis Batch: 633495**

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

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

**Lab Sample ID: 500-209450-3 MS**  
**Matrix: Water**  
**Analysis Batch: 633495**

**Client Sample ID: T02S**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	890	F1	250	1230	F1	mg/L		136	75 - 125

# QC Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Joliet #9 (Quarry) CCR 4Q21

Job ID: 500-209450-1

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

**Lab Sample ID: 500-209450-3 DU**  
**Matrix: Water**  
**Analysis Batch: 633495**

**Client Sample ID: T02S**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	890	F1	878		mg/L		1	5

**Lab Sample ID: 500-209450-4 DU**  
**Matrix: Water**  
**Analysis Batch: 633495**

**Client Sample ID: T08S**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	1100		1020		mg/L		4	5

**Lab Sample ID: MB 500-634880/1**  
**Matrix: Water**  
**Analysis Batch: 634880**

**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			12/21/21 17:10	1

**Lab Sample ID: LCS 500-634880/2**  
**Matrix: Water**  
**Analysis Batch: 634880**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	250	236		mg/L		94	80 - 120

**Lab Sample ID: MB 500-635089/1**  
**Matrix: Water**  
**Analysis Batch: 635089**

**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			12/22/21 15:25	1

**Lab Sample ID: LCS 500-635089/2**  
**Matrix: Water**  
**Analysis Batch: 635089**

**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	200		mg/L		80	80 - 120

**Lab Sample ID: 500-209450-12 MS**  
**Matrix: Water**  
**Analysis Batch: 635089**

**Client Sample ID: G30S**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	1200		250	1460	4	mg/L		121	75 - 125

**Lab Sample ID: 500-209450-12 DU**  
**Matrix: Water**  
**Analysis Batch: 635089**

**Client Sample ID: G30S**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	1200		1200		mg/L		4	5

Eurofins North Central, Chicago

# QC Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Joliet #9 (Quarry) CCR 4Q21

Job ID: 500-209450-1

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

**Lab Sample ID: 500-209450-14 DU**  
**Matrix: Water**  
**Analysis Batch: 635089**

**Client Sample ID: DUP**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	1200		974	F3	mg/L		18	5

**Lab Sample ID: MB 500-635119/1**  
**Matrix: Water**  
**Analysis Batch: 635119**

**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			12/22/21 16:45	1

**Lab Sample ID: LCS 500-635119/2**  
**Matrix: Water**  
**Analysis Batch: 635119**

**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	280		mg/L		112	80 - 120

**Lab Sample ID: 500-209450-17 MS**  
**Matrix: GW**  
**Analysis Batch: 635119**

**Client Sample ID: G44S**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	690		250	946		mg/L		102	75 - 125

**Lab Sample ID: 500-209450-17 DU**  
**Matrix: GW**  
**Analysis Batch: 635119**

**Client Sample ID: G44S**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	690		674		mg/L		3	5

**Lab Sample ID: 500-209450-20 DU**  
**Matrix: GW**  
**Analysis Batch: 635119**

**Client Sample ID: G47S**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	900		934		mg/L		4	5

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

**Lab Sample ID: MB 500-633483/63**  
**Matrix: Water**  
**Analysis Batch: 633483**

**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			12/13/21 16:30	1

# QC Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Joliet #9 (Quarry) CCR 4Q21

Job ID: 500-209450-1

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

**Lab Sample ID: LCS 500-633483/64**  
**Matrix: Water**  
**Analysis Batch: 633483**

**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	20.8		mg/L		104	85 - 115

**Lab Sample ID: 500-209450-5 MS**  
**Matrix: Water**  
**Analysis Batch: 633483**

**Client Sample ID: T03S**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	110		20.0	123	4	mg/L		82	75 - 125

**Lab Sample ID: 500-209450-5 MSD**  
**Matrix: Water**  
**Analysis Batch: 633483**

**Client Sample ID: T03S**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	110		20.0	121	4	mg/L		74	75 - 125	1	20

**Lab Sample ID: MB 500-635832/82**  
**Matrix: Water**  
**Analysis Batch: 635832**

**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			12/28/21 15:52	1

**Lab Sample ID: LCS 500-635832/83**  
**Matrix: Water**  
**Analysis Batch: 635832**

**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	20.3		mg/L		101	85 - 115

**Lab Sample ID: 500-209450-10 MS**  
**Matrix: Water**  
**Analysis Batch: 635832**

**Client Sample ID: G31S**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	160		20.0	174	4	mg/L		67	75 - 125

**Lab Sample ID: 500-209450-10 MSD**  
**Matrix: Water**  
**Analysis Batch: 635832**

**Client Sample ID: G31S**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	160		20.0	174	4	mg/L		65	75 - 125	0	20

# QC Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Joliet #9 (Quarry) CCR 4Q21

Job ID: 500-209450-1

## Method: SM 4500 F C - Fluoride

**Lab Sample ID: MB 500-634708/3**  
**Matrix: Water**  
**Analysis Batch: 634708**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10		mg/L			12/20/21 16:19	1

**Lab Sample ID: MB 500-634708/31**  
**Matrix: Water**  
**Analysis Batch: 634708**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10		mg/L			12/20/21 18:01	1

**Lab Sample ID: LCS 500-634708/32**  
**Matrix: Water**  
**Analysis Batch: 634708**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	10.0	11.1		mg/L		111	90 - 119

**Lab Sample ID: LCS 500-634708/4**  
**Matrix: Water**  
**Analysis Batch: 634708**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	10.0	10.9		mg/L		109	90 - 119

**Lab Sample ID: 500-209450-4 MS**  
**Matrix: Water**  
**Analysis Batch: 634708**

**Client Sample ID: T08S**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	<0.10		5.00	6.10		mg/L		122	75 - 125

**Lab Sample ID: 500-209450-4 MSD**  
**Matrix: Water**  
**Analysis Batch: 634708**

**Client Sample ID: T08S**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	<0.10		5.00	6.10		mg/L		122	75 - 125	0	20

**Lab Sample ID: MB 500-635765/3**  
**Matrix: Water**  
**Analysis Batch: 635765**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10		mg/L			12/28/21 10:21	1

**Lab Sample ID: LCS 500-635765/4**  
**Matrix: Water**  
**Analysis Batch: 635765**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	10.0	10.8		mg/L		108	90 - 119

Eurofins North Central, Chicago



# QC Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Joliet #9 (Quarry) CCR 4Q21

Job ID: 500-209450-1

## Method: SM 4500 F C - Fluoride

Lab Sample ID: 500-209450-19 MS  
 Matrix: GW  
 Analysis Batch: 635765

Client Sample ID: G48S  
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	0.91		5.00	6.29		mg/L		108	75 - 125

Lab Sample ID: 500-209450-19 MSD  
 Matrix: GW  
 Analysis Batch: 635765

Client Sample ID: G48S  
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	0.91		5.00	6.32		mg/L		108	75 - 125	0	20

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

Lab Sample ID: MB 500-633484/41  
 Matrix: Water  
 Analysis Batch: 633484

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			12/13/21 18:38	1

Lab Sample ID: LCS 500-633484/42  
 Matrix: Water  
 Analysis Batch: 633484

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	20.0	20.6		mg/L		103	88 - 123

Lab Sample ID: 500-209450-5 MS  
 Matrix: Water  
 Analysis Batch: 633484

Client Sample ID: T03S  
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	280	F1	20.0	294	4	mg/L		63	75 - 125

Lab Sample ID: 500-209450-5 MSD  
 Matrix: Water  
 Analysis Batch: 633484

Client Sample ID: T03S  
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	280	F1	20.0	299	4	mg/L		84	75 - 125	1	20

Lab Sample ID: MB 500-635833/15  
 Matrix: Water  
 Analysis Batch: 635833

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			12/28/21 16:18	1

# QC Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Joliet #9 (Quarry) CCR 4Q21

Job ID: 500-209450-1

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

**Lab Sample ID: LCS 500-635833/16**  
**Matrix: Water**  
**Analysis Batch: 635833**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	20.0	20.5		mg/L		103	88 - 123

**Lab Sample ID: 500-209450-10 MS**  
**Matrix: Water**  
**Analysis Batch: 635833**

**Client Sample ID: G31S**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	450		20.0	448	4	mg/L		8	75 - 125

**Lab Sample ID: 500-209450-10 MSD**  
**Matrix: Water**  
**Analysis Batch: 635833**

**Client Sample ID: G31S**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	450		20.0	446	4	mg/L		-4	75 - 125	1	20



# Chain of Custody Record

555249




Environment Testing  
TestAmerica

TAL-8210

Address \_\_\_\_\_

Regulatory Program:  DW  NPDES  RCRA  Other

Client Contact		Project Manager: <u>Diana Mockler</u>			Site Contact:			Date:		COC No	
Company Name: <u>Midwest Generation EME LLC</u>		Tel/Email:			Lab Contact:			Carrier:		_____ of _____ COCs	
Address		Analysis Turnaround Time			Filtered Sample (Y/N) Perform MS /MSD (Y/N) <u>Radium 226</u> <u>Radium 228</u> <u>Combined 226/228</u> <u>Metals 14 elements + Pb</u> <u>TDS, FI, Cl, SO4</u>			 500-209450 COC		Sampler For Lab Use Only Walk-in Client <input type="checkbox"/> Lab Sampling <input type="checkbox"/> Job / SDG No <u>500-209450</u>	
City/State/Zip: <u>Joliet, IL</u>		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____									
Phone:		<input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day									
Fax:											
Project Name: <u>Joliet #9 (Quarry) CCR</u>											
Site: <u>4021 03</u>											
P O #											
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Sample Specific Notes				
3 4 5	T025	12/09/21	0939		W	5					
	T085	12/09/21	1148		W	5					
	T035	12/09/21	1342		W	5					
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other											
Possible Hazard Identification Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample							Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)				
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown							<input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months				
Special Instructions/QC Requirements & Comments:											
Custody Seals Intact. <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No			Cooler Temp (°C) Obs'd <u>3.2</u> Corr'd _____			Therm ID No _____			
Relinquished by: <u>[Signature]</u>		Company: <u>TM</u>		Date/Time: <u>12/09/21 1148</u>		Received by: <u>[Signature]</u>		Company: _____		Date/Time: _____	
Relinquished by:		Company:		Date/Time:		Received by:		Company:		Date/Time:	
Relinquished by:		Company:		Date/Time:		Received in Laboratory by: <u>[Signature]</u>		Company: <u>ETA</u>		Date/Time: <u>12/9/21 1448</u>	









# Chain of Custody Record

555252



Environment Testing  
TestAmerica

TAL-8210

Address \_\_\_\_\_

Regulatory Program:  DW  NPDES  RCRA  Other

<b>Client Contact</b>		<b>Project Manager:</b> <i>Diana Mockler</i>		<b>Site Contact:</b>		<b>Date</b>		<b>COC No</b>					
Company Name <i>Midwest Generation ENE</i>		Tel/Email		<b>Lab Contact:</b>		Carrier		_____ of _____ COCs					
Address		<b>Analysis Turnaround Time</b>		Filtered Sample (Y/N) Perform MS / MSD (Y/N) <i>Radium 226</i> <i>Radium 228</i> <i>Combined 226/228</i> <i>Metals 14 elements + Hg</i> <i>TDS, F, Cl, SO4</i>		 500-209450 COC		Sampler					
City/State/Zip <i>Joliet, IL</i>		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____						<b>For Lab Use Only</b> Walk-in Client <input type="checkbox"/> Lab Sampling <input type="checkbox"/> Job / SDG No <i>500-209450</i>		Sample Specific Notes			
Phone		<input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day								Sample Identification		Sample Date	
Fax		Sample Type (C=Comp, G=Grab)								Matrix		# of Cont.	
Project Name <i>Joliet #9 (Quarry) CCR</i>													
Site <i>4021 - 65</i>													
P O #													

11

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

**Preservation Used:** 1= Ice, 2= HCl, 3= H2SO4, 4=HNO3, 5=NaOH, 6= Other \_\_\_\_\_

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

Non-Hazard   
  Flammable   
  Skin Irritant   
  Poison B   
  Unknown

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

Return to Client   
  Disposal by Lab   
  Archive for \_\_\_\_\_ Months

**Special Instructions/QC Requirements & Comments:**

Custody Seals Intact  Yes  No    Custody Seal No \_\_\_\_\_    Cooler Temp (°C) Obs'd: *3.8*    Corr'd \_\_\_\_\_    Therm ID No \_\_\_\_\_

Relinquished by: <i>[Signature]</i>	Company: <i>TRC</i>	Date/Time: <i>12/14/21 1400</i>	Received by: _____
Relinquished by:	Company:	Date/Time:	Received by:
Relinquished by:	Company:	Date/Time:	Received by: <i>[Signature]</i>

Company: *EPA*    Date/Time: *12/14/21 1400*

# Chain of Custody Record

541843



Environment Testing  
TestAmerica

Address \_\_\_\_\_

Regulatory Program:  DW  NPDES  RCRA  Other

TAL-8210

Client Contact		Project Manager			Site Contact			Date:	
Company Name <i>Midwest Generation EPC LLC</i>		Tel/Email:			Lab Contact			Carrier	
Address _____		Analysis Turnaround Time			500-209450 COC  Filtered Sample (Y/N) Perform MS / MSD (Y/N) <i>Radium 226</i> <i>Radium 228</i> <i>Combined 226/228</i> <i>Metals 14 elements + Hg</i> <i>TDS, Pb, Cd, SO4</i>			COC No _____	
City/State/Zip <i>Joliet, IL</i>		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____						_____ of _____ COCs	
Phone _____		<input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day						Sampler _____	
Fax _____								For Lab Use Only	
Project Name <i>Joliet #9 (Resig) CCR</i>								Walk-in Client _____	
Site <i>4021-GW</i>								Lab Sampling _____	
P O # _____								Job / SDG No _____	
								<i>900-209450</i>	
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Sample Specific Notes		
12	<i>G30S</i>	<i>12/15/21</i>	<i>0903</i>		<i>W</i>	<i>5</i>			
13	<i>R32S</i>	<i>12/15/21</i>	<i>1044</i>		<i>W</i>	<i>5</i>			
14	<i>DUP</i>	<i>12/15/21</i>	<i>1044</i>		<i>W</i>	<i>5</i>	<i>of R32S</i>		
15	<i>G46S</i>	<i>12/15/21</i>	<i>1219</i>		<i>W</i>	<i>5</i>			
16	<i>T04S</i>	<i>12/15/21</i>	<i>1320</i>				<i>No samples due to property development/Excavation</i>		
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____					Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)				
Possible Hazard Identification. Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample					<input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months				
<input type="checkbox"/> Non Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown									
Special Instructions/QC Requirements & Comments									
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No					Custody Seal No _____		Cooler Temp (°C) Obs'd _____ Corr'd _____		Therm ID No _____
Relinquished by <i>[Signature]</i>		Company <i>[Signature]</i>		Date/Time <i>12/15/21 1415</i>		Received by _____		Company _____	Date/Time _____
Relinquished by _____		Company _____		Date/Time _____		Received by _____		Company _____	Date/Time _____
Relinquished by _____		Company _____		Date/Time _____		Received in Laboratory by <i>Stephanie Hemondely</i>		Company <i>ETA-GTI</i>	Date/Time <i>12/15/21 1415</i>





**Chain of Custody Record**



<b>Client Information (Sub Contract Lab)</b>		Sampler: Mockler, Diana J		Lab PM: Mockler, Diana J		Carrier Tracking No(s): 500-155261.1	
Client Contact: Shipping/Receiving		Phone:		E-Mail: Diana.Mockler@Eurofinset.com		State of Origin: Illinois	
Company: TestAmerica Laboratories, Inc.		Address: 13715 Rider Trail North.		Job #: 500-209450-1		COC No: 500-155261.1	
City: Earth City		State, Zip: MO, 63045		Project #: 50011504		Page: Page 1 of 1	
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		Email:		SSOW#:		Job #: 500-209450-1	
Project Name: Joliet #9 (Quarry) CCR 4Q21		Site: NRG Midwest Generation LSQ Joliet #9 CCR		Due Date Requested: 12/30/2021		Preservation Codes:	
TAT Requested (days):		Matrix (W=water, S=solid, O=soil, A=air)		Field Filtered Sample (Yes or No)		M - Hexane	
PO #:		Sample Type (C=Comp, G=grab)		Perform MS/MSD (Yes or No)		N - None	
WO #:		Sample Time		903.0/Precsep_21 Standard Target List		O - AsNaO2	
Project #:		Sample Date		904.0/Precsep_0 Standard Target List		P - Na2O4S	
SSOW#:		Preservation Code:		Raz26Ra228_GPPC		Q - Na2SO3	
Sample Identification - Client ID (Lab ID)		Sample Time		903.0/Precsep_21 Standard Target List		R - Na2SO3	
T02S (500-209450-3)	12/9/21	09:39 Central	Water	X	X	S - H2SO4	
T08S (500-209450-4)	12/9/21	11:48 Central	Water	X	X	T - TSP Dodecahydrate	
T03S (500-209450-5)	12/9/21	13:42 Central	Water	X	X	U - Acetone	
						V - MCAA	
						W - pH 4-5	
						L - EDA	
						Other:	
						Special Instructions/Note:	
						Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume.	
						Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume.	
						Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume.	
						Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume.	
<p>Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte &amp; accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.</p>							
<p><b>Possible Hazard Identification</b></p> <p>Unconfirmed</p> <p>Deliverable Requested: I, II, III, IV, Other (specify) _____ Primary Deliverable Rank: 2</p> <p>Empty Kit Relinquished by: _____ Date: _____ Time: _____</p> <p>Special Instructions/QC Requirements: _____</p> <p>Return To Client <input type="checkbox"/> Archive For _____ Months</p>							
Relinquished by: <i>Supriya Tennamondy</i>		Date/Time: 12/9/21 10:30		Received by: <i>FED EX</i>		Date/Time: _____	
Relinquished by: <i>Supriya Tennamondy</i>		Date/Time: 12/9/21 10:30		Received by: <i>Autumn R. Johns</i>		Date/Time: DEC 10 2021 09:40	
Relinquished by: _____		Date/Time: _____		Received by: _____		Date/Time: _____	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.: _____		Cooler Temperature(s) °C and Other Remarks: _____		Company: <i>CH STL</i>	



**Chain of Custody Record**



<b>Client Information (Sub Contract Lab)</b>		Lab PM: Mockler, Diana J		Carrier Tracking No(s): 500-155261.1							
Shipping/Receiving		E-Mail: Diana.Mockler@Eurofinset.com		Page: Page 1 of 1							
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #: 500-209450-2							
Address: 13715 Rider Trail North,		Due Date Requested: 1/13/2022		Preservation Codes:							
City: Earth City		TAT Requested (days):		A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 F - MeOH G - Anchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:							
State, Zip: MO, 63045		PO #:		R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acalone V - MCAA W - pH 4-5 Z - other (specify)							
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		WO #:									
Email:		Project #:									
Joliet #9 (Quarry) CCR 4Q21		50011504									
Site: NRG Midwest Generation LSQ Joliet #9 CCR		SSOW#:									
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Newer, Swab, On-site, etc.)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PreSep_21 Standard Target List	904.0/PreSep_0 Standard Target List	Ra226Ra228_GFPc	Total Number of Containers	Special Instructions/Note:
T09S (500-209450-1)	12/8/21	11:28 Central		Water	X	X	X	X		3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume.
T06S (500-209450-2)	12/8/21	13:06 Central		Water	X	X	X	X		3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume.
<p><b>Possible Hazard Identification</b></p> <p>Unconfirmed</p> <p>Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2</p> <p>Empty Kit Relinquished by: Date: Time: Method of Shipment:</p> <p>Relinquished by: <i>Stephanie Hernandez</i> Date/Time: 12/19/21 1630 Company: <i>EIA-ETH</i></p> <p>Relinquished by: <b>FED EX</b> Date/Time: Date/Time: Company: <i>EIA-STL</i></p> <p>Relinquished by: Date/Time: Company:</p> <p>Custody Seals Intact: Custody Seal No.:  <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Cooler Temperature(s) °C and Other Remarks:</p>											

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

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

Special Instructions/QC Requirements:







# Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-209450-1

**Login Number: 209450**

**List Source: Eurofins North Central, Chicago**

**List Number: 1**

**Creator: Buckley, Paula M**

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.1,3.2,1.0,3.9,3.8,3.0,3.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

# Lab Chronicle

Client: KPRG and Associates, Inc.  
 Project/Site: Joliet #9 (Quarry) CCR 4Q21

Job ID: 500-209450-1

## Client Sample ID: T09S

Lab Sample ID: 500-209450-1

Date Collected: 12/08/21 11:28

Matrix: Water

Date Received: 12/08/21 14:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			635936	12/29/21 10:14	BDE	TAL CHI
Total Recoverable	Analysis	6020A		20	636170	12/30/21 12:19	FXG	TAL CHI
Total Recoverable	Prep	3005A			635936	12/29/21 10:14	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	636170	12/30/21 14:15	FXG	TAL CHI
Total Recoverable	Prep	3005A			635936	12/29/21 10:14	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	636088	12/29/21 18:56	FXG	TAL CHI
Total/NA	Prep	7470A			633682	12/14/21 14:20	MJG	TAL CHI
Total/NA	Analysis	7470A		1	633847	12/15/21 08:49	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	632819	12/09/21 07:35	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		3	633483	12/13/21 16:35	RES	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	634708	12/20/21 17:47	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	633484	12/13/21 18:32	RES	TAL CHI
Total/NA	Analysis	Field Sampling		1	632892	12/08/21 11:28	JVB	TAL CHI

## Client Sample ID: T06S

Lab Sample ID: 500-209450-2

Date Collected: 12/08/21 13:06

Matrix: Water

Date Received: 12/08/21 14:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			635936	12/29/21 10:14	BDE	TAL CHI
Total Recoverable	Analysis	6020A		2	636170	12/30/21 12:43	FXG	TAL CHI
Total Recoverable	Prep	3005A			635936	12/29/21 10:14	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	636170	12/30/21 14:39	FXG	TAL CHI
Total Recoverable	Prep	3005A			635936	12/29/21 10:14	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	636088	12/29/21 19:13	FXG	TAL CHI
Total/NA	Prep	7470A			633682	12/14/21 14:20	MJG	TAL CHI
Total/NA	Analysis	7470A		1	633847	12/15/21 08:51	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	632819	12/09/21 07:38	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		1	633483	12/13/21 16:34	RES	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	634708	12/20/21 17:51	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		3	633484	12/13/21 18:32	RES	TAL CHI
Total/NA	Analysis	Field Sampling		1	632892	12/08/21 13:06	JVB	TAL CHI

## Client Sample ID: T02S

Lab Sample ID: 500-209450-3

Date Collected: 12/09/21 09:39

Matrix: Water

Date Received: 12/09/21 14:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			635936	12/29/21 10:14	BDE	TAL CHI
Total Recoverable	Analysis	6020A		10	636170	12/30/21 12:47	FXG	TAL CHI
Total Recoverable	Prep	3005A			635936	12/29/21 10:14	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	636170	12/30/21 14:43	FXG	TAL CHI
Total Recoverable	Prep	3005A			635936	12/29/21 10:14	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	636088	12/29/21 19:16	FXG	TAL CHI

Eurofins North Central, Chicago

# Lab Chronicle

Client: KPRG and Associates, Inc.  
 Project/Site: Joliet #9 (Quarry) CCR 4Q21

Job ID: 500-209450-1

## Client Sample ID: T02S

## Lab Sample ID: 500-209450-3

Date Collected: 12/09/21 09:39

Matrix: Water

Date Received: 12/09/21 14:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			633682	12/14/21 14:20	MJG	TAL CHI
Total/NA	Analysis	7470A		1	633847	12/15/21 08:54	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	633495	12/14/21 04:40	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		3	633483	12/13/21 16:38	RES	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	634708	12/20/21 17:54	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	633484	12/13/21 18:33	RES	TAL CHI
Total/NA	Analysis	Field Sampling		1	632892	12/09/21 09:39	JVB	TAL CHI

## Client Sample ID: T08S

## Lab Sample ID: 500-209450-4

Date Collected: 12/09/21 11:48

Matrix: Water

Date Received: 12/09/21 14:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			635936	12/29/21 10:14	BDE	TAL CHI
Total Recoverable	Analysis	6020A		20	636170	12/30/21 12:50	FXG	TAL CHI
Total Recoverable	Prep	3005A			635936	12/29/21 10:14	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	636170	12/30/21 14:46	FXG	TAL CHI
Total Recoverable	Prep	3005A			635936	12/29/21 10:14	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	636088	12/29/21 19:20	FXG	TAL CHI
Total/NA	Prep	7470A			633682	12/14/21 14:20	MJG	TAL CHI
Total/NA	Analysis	7470A		1	633847	12/15/21 08:56	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	633495	12/14/21 04:47	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		3	633483	12/13/21 16:37	RES	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	634708	12/20/21 18:11	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	633484	12/13/21 18:33	RES	TAL CHI
Total/NA	Analysis	Field Sampling		1	632892	12/09/21 11:48	JVB	TAL CHI

## Client Sample ID: T03S

## Lab Sample ID: 500-209450-5

Date Collected: 12/09/21 13:42

Matrix: Water

Date Received: 12/09/21 14:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			635936	12/29/21 10:14	BDE	TAL CHI
Total Recoverable	Analysis	6020A		10	636170	12/30/21 12:54	FXG	TAL CHI
Total Recoverable	Prep	3005A			635936	12/29/21 10:14	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	636170	12/30/21 14:49	FXG	TAL CHI
Total Recoverable	Prep	3005A			635936	12/29/21 10:14	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	636088	12/29/21 19:30	FXG	TAL CHI
Total/NA	Prep	7470A			633682	12/14/21 14:20	MJG	TAL CHI
Total/NA	Analysis	7470A		1	633847	12/15/21 08:58	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	633495	12/14/21 04:53	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	633483	12/13/21 16:39	RES	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	634708	12/20/21 18:19	EAT	TAL CHI

# Lab Chronicle

Client: KPRG and Associates, Inc.  
Project/Site: Joliet #9 (Quarry) CCR 4Q21

Job ID: 500-209450-1

## Client Sample ID: T03S

Lab Sample ID: 500-209450-5

Date Collected: 12/09/21 13:42

Matrix: Water

Date Received: 12/09/21 14:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 SO4 E		10	633484	12/13/21 18:33	RES	TAL CHI
Total/NA	Analysis	Field Sampling		1	632892	12/09/21 13:42	JVB	TAL CHI

## Client Sample ID: T05S

Lab Sample ID: 500-209450-6

Date Collected: 12/10/21 09:55

Matrix: Water

Date Received: 12/10/21 14:07

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			635936	12/29/21 10:14	BDE	TAL CHI
Total Recoverable	Analysis	6020A		100	636170	12/30/21 12:57	FXG	TAL CHI
Total Recoverable	Prep	3005A			635936	12/29/21 10:14	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	636170	12/30/21 14:53	FXG	TAL CHI
Total Recoverable	Prep	3005A			635936	12/29/21 10:14	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	636088	12/29/21 19:33	FXG	TAL CHI
Total/NA	Prep	7470A			633682	12/14/21 14:20	MJG	TAL CHI
Total/NA	Analysis	7470A		1	633847	12/15/21 09:00	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	633495	12/14/21 04:55	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	633483	12/13/21 17:03	RES	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	634708	12/20/21 18:33	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	633484	12/13/21 18:44	RES	TAL CHI
Total/NA	Analysis	Field Sampling		1	632892	12/10/21 09:55	JVB	TAL CHI

## Client Sample ID: G20S

Lab Sample ID: 500-209450-7

Date Collected: 12/10/21 11:25

Matrix: Water

Date Received: 12/10/21 14:07

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			635936	12/29/21 10:14	BDE	TAL CHI
Total Recoverable	Analysis	6020A		5	636170	12/30/21 13:01	FXG	TAL CHI
Total Recoverable	Prep	3005A			635936	12/29/21 10:14	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	636170	12/30/21 14:56	FXG	TAL CHI
Total Recoverable	Prep	3005A			635936	12/29/21 10:14	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	636088	12/29/21 19:37	FXG	TAL CHI
Total/NA	Prep	7470A			633682	12/14/21 14:20	MJG	TAL CHI
Total/NA	Analysis	7470A		1	633847	12/15/21 09:02	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	633495	12/14/21 04:58	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		1	633483	12/13/21 16:40	RES	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	634708	12/20/21 18:36	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		3	633484	12/13/21 18:35	RES	TAL CHI
Total/NA	Analysis	Field Sampling		1	632892	12/10/21 11:25	JVB	TAL CHI



# Lab Chronicle

Client: KPRG and Associates, Inc.  
 Project/Site: Joliet #9 (Quarry) CCR 4Q21

Job ID: 500-209450-1

**Client Sample ID: T01S**

**Lab Sample ID: 500-209450-8**

**Date Collected: 12/13/21 10:42**

**Matrix: Water**

**Date Received: 12/13/21 15:10**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			635936	12/29/21 10:14	BDE	TAL CHI
Total Recoverable	Analysis	6020A		10	636170	12/30/21 13:04	FXG	TAL CHI
Total Recoverable	Prep	3005A			635936	12/29/21 10:14	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	636170	12/30/21 15:00	FXG	TAL CHI
Total Recoverable	Prep	3005A			635936	12/29/21 10:14	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	636088	12/29/21 19:40	FXG	TAL CHI
Total/NA	Prep	7470A			633682	12/14/21 14:20	MJG	TAL CHI
Total/NA	Analysis	7470A		1	633847	12/15/21 09:29	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	633495	12/14/21 05:00	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		3	635832	12/28/21 15:52	RES	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	634708	12/20/21 18:39	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	635833	12/28/21 16:19	RES	TAL CHI
Total/NA	Analysis	Field Sampling		1	632892	12/13/21 10:42	JVB	TAL CHI

**Client Sample ID: G33S**

**Lab Sample ID: 500-209450-9**

**Date Collected: 12/13/21 13:06**

**Matrix: Water**

**Date Received: 12/13/21 15:10**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			635936	12/29/21 10:14	BDE	TAL CHI
Total Recoverable	Analysis	6020A		2	636170	12/30/21 13:08	FXG	TAL CHI
Total Recoverable	Prep	3005A			635936	12/29/21 10:14	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	636170	12/30/21 15:03	FXG	TAL CHI
Total Recoverable	Prep	3005A			635936	12/29/21 10:14	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	636088	12/29/21 19:43	FXG	TAL CHI
Total/NA	Prep	7470A			633682	12/14/21 14:20	MJG	TAL CHI
Total/NA	Analysis	7470A		1	633847	12/15/21 09:50	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	633495	12/14/21 05:03	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		1	635832	12/28/21 15:53	RES	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	634708	12/20/21 18:41	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		3	635833	12/28/21 16:19	RES	TAL CHI
Total/NA	Analysis	Field Sampling		1	632892	12/13/21 13:06	JVB	TAL CHI

**Client Sample ID: G31S**

**Lab Sample ID: 500-209450-10**

**Date Collected: 12/13/21 14:14**

**Matrix: Water**

**Date Received: 12/13/21 15:10**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			635936	12/29/21 10:14	BDE	TAL CHI
Total Recoverable	Analysis	6020A		10	636170	12/30/21 13:11	FXG	TAL CHI
Total Recoverable	Prep	3005A			635936	12/29/21 10:14	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	636170	12/30/21 15:07	FXG	TAL CHI
Total Recoverable	Prep	3005A			635936	12/29/21 10:14	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	636088	12/29/21 19:47	FXG	TAL CHI

Eurofins North Central, Chicago

# Lab Chronicle

Client: KPRG and Associates, Inc.  
 Project/Site: Joliet #9 (Quarry) CCR 4Q21

Job ID: 500-209450-1

## Client Sample ID: G31S

## Lab Sample ID: 500-209450-10

Date Collected: 12/13/21 14:14

Matrix: Water

Date Received: 12/13/21 15:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			633682	12/14/21 14:20	MJG	TAL CHI
Total/NA	Analysis	7470A		1	633847	12/15/21 09:52	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	633495	12/14/21 05:06	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	635832	12/28/21 15:53	RES	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	634708	12/20/21 18:45	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	635833	12/28/21 16:20	RES	TAL CHI
Total/NA	Analysis	Field Sampling		1	632892	12/13/21 14:14	JVB	TAL CHI

## Client Sample ID: R08S

## Lab Sample ID: 500-209450-11

Date Collected: 12/14/21 13:05

Matrix: Water

Date Received: 12/14/21 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			635936	12/29/21 10:14	BDE	TAL CHI
Total Recoverable	Analysis	6020A		20	636170	12/30/21 13:14	FXG	TAL CHI
Total Recoverable	Prep	3005A			635936	12/29/21 10:14	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	636170	12/30/21 15:10	FXG	TAL CHI
Total Recoverable	Prep	3005A			635936	12/29/21 10:14	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	636088	12/29/21 19:50	FXG	TAL CHI
Total/NA	Prep	7470A			633818	12/15/21 10:20	MJG	TAL CHI
Total/NA	Analysis	7470A		1	634083	12/16/21 08:59	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	634880	12/21/21 17:13	SMO	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		3	635832	12/28/21 15:54	RES	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	634708	12/20/21 18:48	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	635833	12/28/21 16:20	RES	TAL CHI
Total/NA	Analysis	Field Sampling		1	632892	12/14/21 13:05	JVB	TAL CHI

## Client Sample ID: G30S

## Lab Sample ID: 500-209450-12

Date Collected: 12/15/21 09:03

Matrix: Water

Date Received: 12/15/21 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			635936	12/29/21 10:14	BDE	TAL CHI
Total Recoverable	Analysis	6020A		10	636170	12/30/21 13:25	FXG	TAL CHI
Total Recoverable	Prep	3005A			635936	12/29/21 10:14	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	636170	12/30/21 15:20	FXG	TAL CHI
Total Recoverable	Prep	3005A			635936	12/29/21 10:14	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	636088	12/29/21 19:54	FXG	TAL CHI
Total/NA	Prep	7470A			634059	12/16/21 10:45	MJG	TAL CHI
Total/NA	Analysis	7470A		1	634283	12/17/21 08:46	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	635089	12/22/21 15:31	SMO	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	635832	12/28/21 15:54	RES	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	634708	12/20/21 18:51	EAT	TAL CHI

# Lab Chronicle

Client: KPRG and Associates, Inc.  
Project/Site: Joliet #9 (Quarry) CCR 4Q21

Job ID: 500-209450-1

## Client Sample ID: G30S

Lab Sample ID: 500-209450-12

Date Collected: 12/15/21 09:03

Matrix: Water

Date Received: 12/15/21 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 SO4 E		10	635833	12/28/21 16:21	RES	TAL CHI
Total/NA	Analysis	Field Sampling		1	632892	12/15/21 09:03	JVB	TAL CHI

## Client Sample ID: R32S

Lab Sample ID: 500-209450-13

Date Collected: 12/15/21 10:44

Matrix: Water

Date Received: 12/15/21 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			635936	12/29/21 10:14	BDE	TAL CHI
Total Recoverable	Analysis	6020A		10	636170	12/30/21 13:28	FXG	TAL CHI
Total Recoverable	Prep	3005A			635936	12/29/21 10:14	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	636170	12/30/21 15:24	FXG	TAL CHI
Total Recoverable	Prep	3005A			635936	12/29/21 10:14	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	636088	12/29/21 19:57	FXG	TAL CHI
Total/NA	Prep	7470A			634059	12/16/21 10:45	MJG	TAL CHI
Total/NA	Analysis	7470A		1	634283	12/17/21 08:48	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	635089	12/22/21 15:37	SMO	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		3	635832	12/28/21 15:54	RES	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	634708	12/20/21 18:54	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	635833	12/28/21 16:21	RES	TAL CHI
Total/NA	Analysis	Field Sampling		1	632892	12/15/21 10:44	JVB	TAL CHI

## Client Sample ID: DUP

Lab Sample ID: 500-209450-14

Date Collected: 12/15/21 10:44

Matrix: Water

Date Received: 12/15/21 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			635936	12/29/21 10:14	BDE	TAL CHI
Total Recoverable	Analysis	6020A		20	636170	12/30/21 13:32	FXG	TAL CHI
Total Recoverable	Prep	3005A			635936	12/29/21 10:14	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	636170	12/30/21 15:27	FXG	TAL CHI
Total Recoverable	Prep	3005A			635936	12/29/21 10:14	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	636088	12/29/21 20:00	FXG	TAL CHI
Total/NA	Prep	7470A			634059	12/16/21 10:45	MJG	TAL CHI
Total/NA	Analysis	7470A		1	634283	12/17/21 08:51	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	635089	12/22/21 15:39	SMO	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		3	635832	12/28/21 15:55	RES	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	634708	12/20/21 18:57	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	635833	12/28/21 16:22	RES	TAL CHI
Total/NA	Analysis	Field Sampling		1	632892	12/15/21 10:44	JVB	TAL CHI

# Lab Chronicle

Client: KPRG and Associates, Inc.  
Project/Site: Joliet #9 (Quarry) CCR 4Q21

Job ID: 500-209450-1

## Client Sample ID: G46S

Lab Sample ID: 500-209450-15

Date Collected: 12/15/21 12:19

Matrix: Water

Date Received: 12/15/21 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			635936	12/29/21 10:14	BDE	TAL CHI
Total Recoverable	Analysis	6020A		100	636170	12/30/21 13:35	FXG	TAL CHI
Total Recoverable	Prep	3005A			635936	12/29/21 10:14	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	636170	12/30/21 15:31	FXG	TAL CHI
Total Recoverable	Prep	3005A			635936	12/29/21 10:14	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	636088	12/29/21 20:11	FXG	TAL CHI
Total/NA	Prep	7470A			634059	12/16/21 10:45	MJG	TAL CHI
Total/NA	Analysis	7470A		1	634283	12/17/21 08:53	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	635089	12/22/21 15:43	SMO	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		3	635832	12/28/21 15:55	RES	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	634708	12/20/21 19:00	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	635833	12/28/21 16:23	RES	TAL CHI
Total/NA	Analysis	Field Sampling		1	632892	12/15/21 12:19	JVB	TAL CHI

## Client Sample ID: T04S

Lab Sample ID: 500-209450-16

Date Collected: 12/15/21 13:20

Matrix: Water

Date Received: 12/15/21 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Field Sampling		1	632892	12/15/21 13:20	JVB	TAL CHI

## Client Sample ID: G44S

Lab Sample ID: 500-209450-17

Date Collected: 12/16/21 09:07

Matrix: GW

Date Received: 12/16/21 14:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			635936	12/29/21 10:14	BDE	TAL CHI
Total Recoverable	Analysis	6020A		5	636170	12/30/21 13:39	FXG	TAL CHI
Total Recoverable	Prep	3005A			635936	12/29/21 10:14	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	636170	12/30/21 15:34	FXG	TAL CHI
Total Recoverable	Prep	3005A			635936	12/29/21 10:14	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	636088	12/29/21 20:14	FXG	TAL CHI
Total/NA	Prep	7470A			634255	12/17/21 10:05	MJG	TAL CHI
Total/NA	Analysis	7470A		1	634589	12/20/21 08:39	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	635119	12/22/21 16:50	SMO	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		3	635832	12/28/21 15:56	RES	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	634708	12/20/21 19:14	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	635833	12/28/21 16:23	RES	TAL CHI
Total/NA	Analysis	Field Sampling		1	632892	12/16/21 09:07	JVB	TAL CHI

# Lab Chronicle

Client: KPRG and Associates, Inc.  
 Project/Site: Joliet #9 (Quarry) CCR 4Q21

Job ID: 500-209450-1

**Client Sample ID: G45S**

**Lab Sample ID: 500-209450-18**

**Date Collected: 12/16/21 10:01**

**Matrix: GW**

**Date Received: 12/16/21 14:26**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			635936	12/29/21 10:14	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	636170	12/30/21 13:42	FXG	TAL CHI
Total Recoverable	Prep	3005A			635936	12/29/21 10:14	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	636088	12/29/21 20:17	FXG	TAL CHI
Total/NA	Prep	7470A			634255	12/17/21 10:05	MJG	TAL CHI
Total/NA	Analysis	7470A		1	634589	12/20/21 08:41	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	635119	12/22/21 16:57	SMO	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		3	635832	12/28/21 15:56	RES	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	634708	12/20/21 19:17	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		5	635833	12/28/21 16:23	RES	TAL CHI
Total/NA	Analysis	Field Sampling		1	632892	12/16/21 10:01	JVB	TAL CHI

**Client Sample ID: G48S**

**Lab Sample ID: 500-209450-19**

**Date Collected: 12/16/21 11:13**

**Matrix: GW**

**Date Received: 12/16/21 14:26**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			635936	12/29/21 10:14	BDE	TAL CHI
Total Recoverable	Analysis	6020A		20	636170	12/30/21 13:46	FXG	TAL CHI
Total Recoverable	Prep	3005A			635936	12/29/21 10:14	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	636170	12/30/21 15:38	FXG	TAL CHI
Total Recoverable	Prep	3005A			635936	12/29/21 10:14	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	636088	12/29/21 20:21	FXG	TAL CHI
Total/NA	Prep	7470A			634255	12/17/21 10:05	MJG	TAL CHI
Total/NA	Analysis	7470A		1	634589	12/20/21 08:44	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	635119	12/22/21 17:00	SMO	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		3	635832	12/28/21 15:56	RES	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	635765	12/28/21 10:38	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	635833	12/28/21 16:24	RES	TAL CHI
Total/NA	Analysis	Field Sampling		1	632892	12/16/21 11:13	JVB	TAL CHI

**Client Sample ID: G47S**

**Lab Sample ID: 500-209450-20**

**Date Collected: 12/16/21 13:10**

**Matrix: GW**

**Date Received: 12/16/21 14:26**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			635936	12/29/21 10:14	BDE	TAL CHI
Total Recoverable	Analysis	6020A		20	636170	12/30/21 13:49	FXG	TAL CHI
Total Recoverable	Prep	3005A			635936	12/29/21 10:14	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	636170	12/30/21 15:41	FXG	TAL CHI
Total Recoverable	Prep	3005A			635936	12/29/21 10:14	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	636088	12/29/21 20:24	FXG	TAL CHI
Total/NA	Prep	7470A			634255	12/17/21 10:05	MJG	TAL CHI
Total/NA	Analysis	7470A		1	634589	12/20/21 08:46	MJG	TAL CHI

Eurofins North Central, Chicago

# Lab Chronicle

Client: KPRG and Associates, Inc.  
Project/Site: Joliet #9 (Quarry) CCR 4Q21

Job ID: 500-209450-1

**Client Sample ID: G47S**

**Lab Sample ID: 500-209450-20**

**Date Collected: 12/16/21 13:10**

**Matrix: GW**

**Date Received: 12/16/21 14:26**

<u>Prep Type</u>	<u>Batch Type</u>	<u>Batch Method</u>	<u>Run</u>	<u>Dilution Factor</u>	<u>Batch Number</u>	<u>Prepared or Analyzed</u>	<u>Analyst</u>	<u>Lab</u>
Total/NA	Analysis	SM 2540C		1	635119	12/22/21 17:02	SMO	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		3	635832	12/28/21 15:57	RES	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	635765	12/28/21 10:41	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	635833	12/28/21 16:40	RES	TAL CHI
Total/NA	Analysis	Field Sampling		1	632892	12/16/21 13:10	JVB	TAL CHI

**Laboratory References:**

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





**TestAmerica Chicago**

2417 Bond St  
University Park, IL 60484-3182  
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: T09S  
Facility: Midwest Generation-Joliet #9 CCR  
Job #: 500-209450-1

Type Sample: Ground Water Surface Water Leachate Other: \_\_\_\_\_  
(circle one)

Equipment Used: Purging \_\_\_\_\_ Bladder Pump \_\_\_\_\_ Dedicated (Y/N)   
Sampling \_\_\_\_\_ Bladder Pump \_\_\_\_\_ Dedicated (Y/N)

**PURGING INFORMATION**

Purge Date: 12/08/21 Start Purge: 1110 End Purge: 1128  
(2400 Hr. Clock)

Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.58

**MEASUREMENTS**

Well Diameter 2.0 (inches)      1st      2nd      Final

Stick Up 2.40 (ft)      pH 7.22 7.23 7.23 (std.)

Ref. Measuring Pt. TIC      SC 1292 1300 1300 (umhos/cm)

Well Elevation \* 603.69 (ft./msl)      Temp. 7.07 7.10 7.10 (°C)

Water Level 94.12 (ft.)      Well Stabilization / Recharge Grid

Ground Water Elev. 509.57 (ft./msl)

Well Bottom Elevation \* 444.80 (ft./msl)


**COMMENTS**

Sample Appearance/Odor: Colorless, Clear, No Odor

Weather Conditions: 32°F, Sunny, NW winds 5-10 mph

Turbidity: 13.0 NTU

Other: \*Reference Measurement (updated 02/19/14)

Depth To Water from L.S. = 94.12 - 2.40 = 91.72 (ft.)

Levels were taken on 12/08/21 @ 1050.

\* Total Depth: 158.59

(Updated: 10/19/2021)

Sampler Name (Print): Noe Lopez Signature: [Signature]







**TestAmerica Chicago**

2417 Bond St  
University Park, IL 60484-3182  
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: T06S  
Facility: Midwest Generation-Joliet #9 CCR  
Job #: 500-209450-2

Type Sample: Ground Water Surface Water Leachate Other: \_\_\_\_\_  
(circle one)  
Equipment Used: Purging \_\_\_\_\_ Bladder Pump \_\_\_\_\_ Dedicated (Y/N)   
Sampling \_\_\_\_\_ Bladder Pump \_\_\_\_\_ Dedicated (Y/N)

**PURGING INFORMATION**

Purge Date: 12/08/21 Start Purge: 1250 End Purge: 1306  
(2400 Hr. Clock)  
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.41

**MEASUREMENTS**

Well Diameter 2.0 (inches) 1st 2nd Final  
Stick Up 2.30 (ft) pH 7.45 7.44 7.44 (std.)  
Ref. Measuring Pt. TIC SC 695 694 694 (umhos/cm)  
Well Elevation \* 620.99 (ft./msl) Temp. 10.99 10.98 10.98 (°C)  
Water Level 113.37 (ft.) Well Stabilization / Recharge Grid  
Ground Water Elev. 507.62 (ft./msl)  
Well Bottom Elevation \* 447.94 (ft./msl)


**COMMENTS**

Sample Appearance/Odor: Colorless, Clear, No Odor  
Weather Conditions: 34°F, Sunny, NW winds @ 5-10 mph  
Turbidity: 1.96 NTU  
Other: \*Reference Measurement  
Depth To Water from L.S. = 113.37 - 2.30 = 111.07 (ft.)  
Levels were taken on 12/08/21 @ 1235  
\* Total Deth = 173.00

(Updated: 10/19/2021)

Sampler Name (Print): Noe Lopez Signature: [Signature]







Environment Testing  
TestAmerica

**TestAmerica Chicago**

2417 Bond St  
University Park, IL 60484-3182  
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: T02S  
Facility: Midwest Generation-Joliet #9 CCR  
Job #: 500-209450-3

Type Sample: Ground Water Surface Water Leachate Other: \_\_\_\_\_  
(circle one)  
Equipment Used: Purging \_\_\_\_\_ Bladder Pump \_\_\_\_\_ Dedicated (Y/N) (N)  
Sampling \_\_\_\_\_ Bladder Pump \_\_\_\_\_ Dedicated (Y/N) (N)

**PURGING INFORMATION**

Purge Date: 12/09/21 Start Purge: 0920 End Purge: 0939  
(2400 Hr. Clock)  
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.61

**MEASUREMENTS**

Well Diameter 2.0 (inches) 1st 2nd Final  
Stick Up 2.33 (ft) pH 7.77 7.77 7.77 (std.)  
Ref. Measuring Pt. TIC SC 1167 1169 1169 (umhos/cm)  
Well Elevation \* 626.12 (ft./msl) Temp. 8.08 8.04 8.04 (°C)  
Water Level 135.05 (ft.) Well Stabilization / Recharge Grid  
Ground Water Elev. 491.07 (ft./msl)  
Well Bottom Elevation \* 453.40 (ft./msl)

**COMMENTS**

Sample Appearance/Odor: Colorless, Clear, No Odor  
Weather Conditions: 38°F, Mostly Cloudy, SE winds @ 15-20 mph  
Turbidity: 8.77 NTU  
Other: \*Reference Measurement  
Depth To Water from L.S. = 135.05 - 2.33 = 132.72 ft  
Levels were taken on 12/09/21 @ 0905.  
\* Total Depth = 172.75

(Updated: 10/19/2021)

Sampler Name (Print): Noe Lopez Signature: [Signature]

FIELD FORM 1



**TestAmerica Chicago**

2417 Bond St  
University Park, IL 60484-3182  
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: T08S  
Facility: Midwest Generation-Joliet #9 CCR  
Job #: 500-209450-4

Type Sample: Ground Water Surface Water Leachate Other: \_\_\_\_\_  
(circle one)  
Equipment Used: Purging \_\_\_\_\_ Bladder Pump \_\_\_\_\_ Dedicated (Y/N)   
Sampling \_\_\_\_\_ Bladder Pump \_\_\_\_\_ Dedicated (Y/N)

**PURGING INFORMATION**

Purge Date: 12/09/21 Start Purge: 1130 End Purge: 1148  
(2400 Hr. Clock)  
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.46

**MEASUREMENTS**

Well Diameter 2.0 (inches) 1st 2nd Final  
Stick Up 2.38 (ft) pH 8.46 8.50 8.50 (std.)  
Ref. Measuring Pt. TIC SC 1396 1395 1395 (umhos/cm)  
Well Elevation \* 627.50 (ft./msl) Temp. 9.41 9.42 9.42 (°C)  
Water Level 130.25 (ft.) Well Stabilization / Recharge Grid  
Ground Water Elev. 497.25 (ft./msl) 


  
Well Bottom Elevation \* 447.38 (ft./msl)

**COMMENTS**

Sample Appearance/Odor: Colorless, slight Turbidity, No Odor  
Weather Conditions: 42°F, Cloudy, S winds e 10-15 mph  
Turbidity: 2.48 NTU  
Other: \*Reference Measurement  
Depth To Water from L.S. = 130.25 - 2.38 = 127.87 (ft)  
Levels were taken on 12/09/21 @ 1115  
\* Total Deth = 180.00

(Updated: 10/19/2021 )

Sampler Name (Print): Noe Lopez Signature: 





**TestAmerica Chicago**

2417 Bond St  
University Park, IL 60484-3182  
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: T03S  
Facility: Midwest Generation-Joliet #9 CCR  
Job #: 500-209450-5

Type Sample: Ground Water Surface Water Leachate Other: \_\_\_\_\_  
(circle one)  
Equipment Used: Purging \_\_\_\_\_ Bladder Pump \_\_\_\_\_ Dedicated  (N)  
Sampling \_\_\_\_\_ Bladder Pump \_\_\_\_\_ Dedicated  (N)

**PURGING INFORMATION**

Purge Date: 12/09/21 Start Purge: 1328 End Purge: 1342  
(2400 Hr. Clock)  
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.36

**MEASUREMENTS**

Well Diameter 2.0 (inches)      1st      2nd      Final  
Stick Up 3.08 (ft)      pH 7.50 7.48 7.48 (std.)  
Ref. Measuring Pt. TIC      SC 1156 1159 1159 (umhos/cm)  
Well Elevation \* 629.74 (ft./msl)      Temp. 11.82 11.80 11.80 (°C)  
Water Level 139.40 (ft.)      Well Stabilization / Recharge Grid  
Ground Water Elev. 490.34 (ft./msl)      


  
Well Bottom Elevation \* 456.70 (ft./msl)

**COMMENTS**

Sample Appearance/Odor: Colorless, Slight Turbidity, No Odor  
Weather Conditions: 46°F, Cloudy, S winds e 5-10 mph  
Turbidity: 0.56 NTU  
Other: \*Reference Measurement  
Depth To Water from L.S. = 139.40 - 3.08 = 136.32 (ft.)  
Levels were taken on 12/09/21 @ 1320  
\* Total Depth = 172.95

(Updated: 10/19/2021)

Sampler Name (Print): Noe Lopez Signature: [Signature]





**TestAmerica Chicago**

2417 Bond St  
University Park, IL 60484-3182  
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: T05S  
Facility: Midwest Generation-Joliet #9 CCR  
Job #: 500-209450-6

Type Sample: Ground Water Surface Water Leachate Other: \_\_\_\_\_  
(circle one)

Equipment Used: Purging \_\_\_\_\_ Bladder Pump \_\_\_\_\_ Dedicated (Y/N) (N)  
Sampling \_\_\_\_\_ Bladder Pump \_\_\_\_\_ Dedicated (Y/N) (N)

**PURGING INFORMATION**

Purge Date: 12/10/21 Start Purge: 0935 End Purge: 0955  
(2400 Hr. Clock)

Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.65

**MEASUREMENTS**

Well Diameter 2.0 (inches)      1st      2nd      Final

Stick Up 2.40 (ft)      pH 9.35 9.41 9.41 (std.)

Ref. Measuring Pt. TIC      SC 2070 2070 2070 (umhos/cm)

Well Elevation \* 623.46 (ft./msl)      Temp. 11.43 11.41 11.41 (°C)

Water Level 126.03 (ft.)      Well Stabilization / Recharge Grid

Ground Water Elev. 497.43 (ft./msl)

Well Bottom Elevation \* 448.35 (ft./msl)


**COMMENTS**

Sample Appearance/Odor: Colorless, Clear, Slight Odor

Weather Conditions: 44°F, Sunny, E winds @ 5-10 mph

Turbidity: 3.71 NTU

Other: \*Reference Measurement

Depth To Water from L.S. = 126.03 - 2.40 = 123.63 (ft.)

Levels were taken on 12/10/21 @ 0935.

\* Total Deth = 175.00

(Updated: 10/19/2021)

Sampler Name (Print): Noe Lopez Signature: [Signature]





**TestAmerica Chicago**

2417 Bond St  
University Park, IL 60484-3182  
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: G20S  
Facility: Midwest Generation-Joliet #9 CCR  
Job #: 500-209450.7

Type Sample: Ground Water Surface Water Leachate Other: \_\_\_\_\_  
(circle one)

Equipment Used: Purging \_\_\_\_\_ Bladder Pump \_\_\_\_\_ Dedicated  (Y/N)  
 Sampling \_\_\_\_\_ Bladder Pump \_\_\_\_\_ Dedicated  (Y/N)

**PURGING INFORMATION**

Purge Date: 12/10/21 Start Purge: 1105 End Purge: 1125  
(2400 Hr. Clock)

Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.13

**MEASUREMENTS**

Well Diameter 2.0 (inches)      1st      2nd      Final

Stick Up 2.78 (ft)      pH 8.35 8.33 8.33 (std.)

Ref. Measuring Pt. TIC      SC 592 589 589 (umhos/cm)

Well Elevation \*580.94 (ft./msl)      Temp. 13.52 13.55 13.55 (°C)

Water Level 129.36 (ft.)      Well Stabilization / Recharge Grid

Ground Water Elev. 451.58 (ft./msl)

Well Bottom Elevation \*442.28 (ft./msl)


**COMMENTS**

Sample Appearance/Odor: Colorless, clear, slight odor

Weather Conditions: 49°F, Fair, E winds @ 10-15 mph

Turbidity: 1.28 NTU

Other: \*Reference Measurement

Depth To Water from L.S. = 129.36 - 2.78 = 126.58 (ft.)

Levels were taken on 12/10/21 @ 1100

(Updated: 10/19/2021)

Sampler Name (Print): Noe Lopez Signature: [Signature]





**TestAmerica Chicago**

2417 Bond St  
University Park, IL 60484-3182  
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: T01S  
Facility: Midwest Generation-Joliet #9 CCR  
Job #: 500-209450-8

Type Sample: Ground Water Surface Water Leachate Other: \_\_\_\_\_  
 (circle one)

Equipment Used: Purging \_\_\_\_\_ Bladder Pump \_\_\_\_\_ Dedicated (Y/N) (Y)  
 Sampling \_\_\_\_\_ Bladder Pump \_\_\_\_\_ Dedicated (Y/N) (Y)

**PURGING INFORMATION**

Purge Date: 12/13/21 Start Purge: 1020 End Purge: 1042  
 (2400 Hr. Clock)

Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.28

**MEASUREMENTS**

Well Diameter 2.0 (inches)      1st      2nd      Final

Stick Up 2.48 (ft)      pH 7.66 7.67 7.67 (std.)

Ref. Measuring Pt. TIC      SC 1230 1234 1234 (umhos/cm)

Well Elevation \* 621.71 (ft./msl)      Temp. 9.51 9.52 9.52 (°C)

Water Level 125.15 (ft.)      Well Stabilization / Recharge Grid

Ground Water Elev. 496.56 (ft./msl)

Well Bottom Elevation \* 451.46 (ft./msl)


**COMMENTS**

Sample Appearance/Odor: Tan, High Turbidity, Slight Odor

Weather Conditions: 43°F, Sunny, SW winds e 5-10 mph

Turbidity: 138 NTU

Other: \*Reference Measurement

Depth To Water from L.S. = 125.15 - 2.48 = 122.67 (ft)

Levels were taken on 12/13/21 @ 1005.

\* Total Depth = 170.00

(Updated: 10/19/2021 )

Sampler Name (Print): Noe Lopez Signature: [Signature]







**TestAmerica Chicago**

2417 Bond St  
University Park, IL 60484-3182  
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: G33S  
Facility: Midwest Generation-Joliet #9 CCR  
Job #: 500-209450-9

Type Sample: Ground Water Surface Water Leachate Other: \_\_\_\_\_  
(circle one)

Equipment Used: Purging \_\_\_\_\_ Bladder Pump \_\_\_\_\_ Dedicated  (Y/N)  
Sampling \_\_\_\_\_ Bladder Pump \_\_\_\_\_ Dedicated  (Y/N)

**PURGING INFORMATION**

Purge Date: 12/13/21 Start Purge: 1250 End Purge: 1306  
(2400 Hr. Clock)

Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.41

**MEASUREMENTS**

Well Diameter 2.0 (inches)      1st      2nd      Final

Stick Up 1.73 (ft)      pH 7.53 7.52 7.52 (std.)

Ref. Measuring Pt. TIC      SC 629 628 628 (umhos/cm)

Well Elevation \*535.65 (ft./msl)      Temp. 13.69 13.70 13.70 (°C)

Water Level 32.98 (ft.)      Well Stabilization / Recharge Grid

Ground Water Elev. 502.67 (ft./msl)

Well Bottom Elevation \*452.72 (ft./msl)


**COMMENTS**

Sample Appearance/Odor: Gray, Slight Turbidity, No Odor

Weather Conditions: 49°F, Sunny, SW winds 5-10 mph

Turbidity: 9.78 NTU

Other: \*Reference Measurement

Depth To Water from L.S. = 32.98 - 1.73 = 31.25 (ft)

Levels were taken on 12/13/21 @ 1245

(Updated: 10/19/2021)

Sampler Name (Print): Noe Lopez Signature: [Signature]







**TestAmerica Chicago**

2417 Bond St  
University Park, IL 60484-3182  
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: G31S  
Facility: Midwest Generation-Joliet #9 CCR  
Job #: 500-209450-10

Type Sample: (circle one)	Ground Water	Surface Water	Leachate	Other: _____
Equipment Used:	Purging _____	Bladder Pump _____	Dedicated <input checked="" type="checkbox"/> (N)	
	Sampling _____	Bladder Pump _____	Dedicated <input checked="" type="checkbox"/> (N)	

**PURGING INFORMATION**

Purge Date: 12/13/21 Start Purge: 1355 End Purge: 1414  
(2400 Hr. Clock)

Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.86

**MEASUREMENTS**

Well Diameter	<u>2.0</u>	(inches)	1st	2nd	Final									
Stick Up	<u>2.58</u>	(ft)	pH <u>7.29</u>	<u>7.29</u>	<u>7.29</u>	(std.)								
Ref. Measuring Pt.	<u>TIC</u>		SC <u>1490</u>	<u>1490</u>	<u>1490</u>	(umhos/cm)								
Well Elevation	<u>*535.77</u>	(ft./msl)	Temp. <u>13.74</u>	<u>13.74</u>	<u>13.74</u>	(°C)								
Water Level	<u>28.58</u>	(ft.)	Well Stabilization / Recharge Grid											
Ground Water Elev.	<u>507.19</u>	(ft./msl)	<table border="1" style="width: 100%; height: 30px;"> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>											
Well Bottom Elevation	<u>*453.36</u>	(ft./msl)												

**COMMENTS**

Sample Appearance/Odor: Colorless, Clear, Slight Odor

Weather Conditions: 49°F, Sunny, SW winds 0-5 mph

Turbidity: 1.21 NTU

Other: \*Reference Measurement

Depth To Water from L.S. = 28.58 - 2.58 = 26.00 (FA)

Levels were taken on 12/13/21 @ 1350

(Updated: 10/19/2021)

Sampler Name (Print): Noe Lopez Signature: [Signature]





**TestAmerica Chicago**

2417 Bond St  
University Park, IL 60484-3182  
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: R08S  
Facility: Midwest Generation-Joliet #9 CCR  
Job #: 500-209450-11

Type Sample: Ground Water Surface Water Leachate Other: \_\_\_\_\_  
(circle one)  
Equipment Used: Purging \_\_\_\_\_ Bladder Pump \_\_\_\_\_ Dedicated  (Y/N)  
Sampling \_\_\_\_\_ Bladder Pump \_\_\_\_\_ Dedicated  (Y/N)

**PURGING INFORMATION**

Purge Date: 12/14/21 Start Purge: 1250 End Purge: 1305  
(2400 Hr. Clock)  
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.77

**MEASUREMENTS**

Well Diameter 2.0 (inches) 1st 2nd Final  
Stick Up 2.55 (ft) pH 8.35 8.37 8.37 (std.)  
Ref. Measuring Pt. TIC SC 962 968 968 (umhos/cm)  
Well Elevation \*578.51 (ft./msl) Temp. 12.63 12.62 12.62 (°C)  
Water Level 69.45 (ft.) Well Stabilization / Recharge Grid  
Ground Water Elev. 509.06 (ft./msl) 


  
Well Bottom Elevation \*453.08 (ft./msl)

**COMMENTS**

Sample Appearance/Odor: Colorless, Clear, No Odor  
Weather Conditions: 53°F, Partly Cloudy, SE winds @ 5-10 mph  
Turbidity: 0.57 NTU  
Other: \*Reference Measurement (Well ID updated 11-25-15)  
Depth To Water from L.S. = 69.45 - 2.55 = 66.90 (ft)  
Levels were taken on 12/14/21 @ 1245

(Updated: 10/19/2021)

Sampler Name (Print): Noe Lopez Signature: [Signature]





**TestAmerica Chicago**

2417 Bond St  
University Park, IL 60484-3182  
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: G30S  
Facility: Midwest Generation-Joliet #9 CCR  
Job #: 500-209450-12

Type Sample: Ground Water Surface Water Leachate Other: \_\_\_\_\_  
(circle one)  
Equipment Used: Purging \_\_\_\_\_ Bladder Pump \_\_\_\_\_ Dedicated  (Y/N)  
Sampling \_\_\_\_\_ Bladder Pump \_\_\_\_\_ Dedicated  (Y/N)

**PURGING INFORMATION**

Purge Date: 12/15/21 Start Purge: 0845 End Purge: 0903  
(2400 Hr. Clock)  
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0-23

**MEASUREMENTS**

Well Diameter 2.0 (inches)      1st      2nd      Final  
Stick Up 2.31 (ft)      pH 7.95 7.95 7.95 (std.)  
Ref. Measuring Pt. TIC      SC 1600 1590 1590 (umhos/cm)  
Well Elevation \*524.69 (ft./msl)      Temp. 11.25 11.28 11.28 (°C)  
Water Level 2.21 (ft.)      Well Stabilization / Recharge Grid  
Ground Water Elev. 522.48 (ft./msl)      


  
Well Bottom Elevation \*462.58 (ft./msl)

**COMMENTS**

Sample Appearance/Odor: Colorless, Clear, Moderate Odor  
Weather Conditions: 57°F, Cloudy, S winds 15-20 mph  
Turbidity: 0.09 NTU  
Other: \*Reference Measurement  
Depth To Water from L.S. = 2.21 - 2.31 = -0.10 (ft)  
Levels were taken on 12/15/21 @ 0835

(Updated: 10/19/2021)

Sampler Name (Print): Noe Lopez Signature: [Signature]





**TestAmerica Chicago**

2417 Bond St  
University Park, IL 60484-3182  
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: R32S  
Facility: Midwest Generation-Joliet #9 CCR  
Job #: 500-209450-13

Type Sample: Ground Water Surface Water Leachate Other: \_\_\_\_\_  
(circle one)

Equipment Used: Purging \_\_\_\_\_ Bladder Pump \_\_\_\_\_ Dedicated  (Y/N)  
Sampling \_\_\_\_\_ Bladder Pump \_\_\_\_\_ Dedicated  (Y/N)

**PURGING INFORMATION**

Purge Date: 12/15/21 Start Purge: 1025 End Purge: 1044  
(2400 Hr. Clock)

Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.98

**MEASUREMENTS**

Well Diameter 2.0 (inches)      1st      2nd      Final

Stick Up 2.03 (ft)      pH 7.44 7.42 7.42 (std.)

Ref. Measuring Pt. TIC      SC 967 975 975 (umhos/cm)

Well Elevation \*536.91 (ft./msl)      Temp. 11.99 12.04 12.04 (°C)

Water Level 21.74 (ft.)      Well Stabilization / Recharge Grid

Ground Water Elev. 515.17 (ft./msl)

Well Bottom Elevation \*457.84 (ft./msl)


**COMMENTS**

Sample Appearance/Odor: Colorless, Clear, No Odor

Weather Conditions: 62°F, Cloudy, S winds @ 15-20 mph

Turbidity: 0.84 NTU

Other: \*Reference Measurement

Depth To Water from L.S. = 21.74 - 2.03 = 19.71 (ft.)

Levels were taken on 12/15/21 @ 1015

(Updated: 10/19/2021 )

Sampler Name (Print): Noe Lopez Signature: [Signature]





**TestAmerica Chicago**

2417 Bond St  
University Park, IL 60484-3182  
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: R32S Dup  
Facility: Midwest Generation-Joliet #9 CCR  
Job #: 500-209450-14

Type Sample: Ground Water Surface Water Leachate Other: \_\_\_\_\_  
(circle one)

Equipment Used: Purging \_\_\_\_\_ Bladder Pump \_\_\_\_\_ Dedicated  (Y/N)  
 Sampling \_\_\_\_\_ Bladder Pump \_\_\_\_\_ Dedicated  (Y/N)

**PURGING INFORMATION**

Purge Date: \_\_\_\_\_ Start Purge: \_\_\_\_\_ End Purge: \_\_\_\_\_  
(2400 Hr. Clock)

Water Volume in Casing (gallons): N/A Volume Purged (gallons): \_\_\_\_\_

**MEASUREMENTS**

Well Diameter 2.0 (inches) 1st 2nd Final

Stick Up 2.03 (ft) pH \_\_\_\_\_ (std.)

Ref. Measuring Pt. TIC SC \_\_\_\_\_ (umhos/cm)

Well Elevation \*536.91 (ft./msl) Temp. \_\_\_\_\_ (°C)

Water Level \_\_\_\_\_ (ft.) Well Stabilization / Recharge Grid


Ground Water Elev. \_\_\_\_\_ (ft./msl)

Well Bottom Elevation \*457.84 (ft./msl)

**COMMENTS**

Sample Appearance/Odor: \_\_\_\_\_

Weather Conditions: \_\_\_\_\_

Turbidity: \_\_\_\_\_

Other: \*Reference Measurement

Depth To Water from L.S. = \_\_\_\_\_

*Sampler*  
~~Levels were~~ taken on 12/15/21 @ 1044.

\_\_\_\_\_  
 \_\_\_\_\_

(Updated: 10/19/2021 )

Sampler Name (Print): Noe Lopez Signature: [Signature]





**TestAmerica Chicago**

2417 Bond St  
University Park, IL 60484-3182  
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: G46S  
Facility: Midwest Generation-Joliet #9 CCR  
Job #: 500-209450-15

Type Sample: Ground Water Surface Water Leachate Other: \_\_\_\_\_  
(circle one)

Equipment Used: Purging \_\_\_\_\_ Bladder Pump \_\_\_\_\_ Dedicated  (Y/N)  
 Sampling \_\_\_\_\_ Bladder Pump \_\_\_\_\_ Dedicated  (Y/N)

**PURGING INFORMATION**

Purge Date: 12/15/21 Start Purge: 1205 End Purge: 1219  
(2400 Hr. Clock)

Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.54

**MEASUREMENTS**

Well Diameter 4.0 (inches)      1st      2nd      Final

Stick Up 2.70 (ft)      pH 7.53 7.53 7.53 (std.)

Ref. Measuring Pt. TIC      SC 1245 1254 1254 (umhos/cm)

Well Elevation \*601.34 (ft./msl)      Temp. 13.84 13.82 13.82 (°C)

Water Level 105.28 (ft.)      Well Stabilization / Recharge Grid

Ground Water Elev. 496.06 (ft./msl)

Well Bottom Elevation \*453.62 (ft./msl)


**COMMENTS**

Sample Appearance/Odor: Tan, <sup>Moderate</sup> Slight Turbidity, No Odor

Weather Conditions: 53°F, Cloudy, S winds 15-20 mph

Turbidity: 73.1 NTU

Other: \*Reference Measurement

Depth To Water from L.S. = 105.28 - 2.70 = 102.58 (ft.)

Levels were taken on 12/15/21 @ 1200

(Updated: 10/19/2021)

Sampler Name (Print): Noe Lopez Signature: [Signature]





**TestAmerica Chicago**

2417 Bond St  
University Park, IL 60484-3182  
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: T04S  
Facility: Midwest Generation-Joliet #9 CCR  
Job #: 500 209450 - 110

Type Sample: (circle one)	Ground Water	Surface Water	Leachate	Other: _____
Equipment Used:	Purging _____	Bladder Pump _____	Dedicated (Y/N)	
	Sampling _____	Bladder Pump _____	Dedicated (Y/N)	

**PURGING INFORMATION**

Purge Date: \_\_\_\_\_ Start Purge: \_\_\_\_\_ End Purge: \_\_\_\_\_  
(2400 Hr. Clock)

Water Volume in Casing (gallons): N/A Volume Purged (gallons): \_\_\_\_\_

**MEASUREMENTS**

Well Diameter <u>2.0</u> (inches)	1st	2nd	Final										
Stick Up _____ (ft)	pH _____ (std.)												
Ref. Measuring Pt. <u>TIC</u>	SC _____ (umhos/cm)												
Well Elevation <u>* 631.35</u> (ft./msl)	Temp. _____ (°C)												
Water Level _____ (ft.)	Well Stabilization / Recharge Grid												
Ground Water Elev. _____ (ft./msl)	<table border="1" style="width: 100%; height: 20px;"> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>												
Well Bottom Elevation <u>* 458.07</u> (ft./msl)													

**COMMENTS**

Sample Appearance/Odor: \_\_\_\_\_

Weather Conditions: \_\_\_\_\_

Turbidity: \_\_\_\_\_

Other: \*Reference Measurement

Depth To Water from L.S. = \_\_\_\_\_

Levels were taken on \_\_\_\_\_ @ \_\_\_\_\_

\* Total Deth = 173.00

\* Unable to purge or sample due to Property Development/Excavation  
on 12/15/21 @ 1320  
(Updated: 10/19/2021)

Sampler Name (Print): Noe Lopez Signature: [Signature]







**TestAmerica Chicago**

2417 Bond St  
University Park, IL 60484-3182  
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: G44S  
Facility: Midwest Generation-Joliet #9 CCR  
Job #: 500-209450-17

Type Sample: Ground Water Surface Water Leachate Other: \_\_\_\_\_  
 (circle one)

Equipment Used: Purging \_\_\_\_\_ Bladder Pump \_\_\_\_\_ Dedicated  (Y/N)  
 Sampling \_\_\_\_\_ Bladder Pump \_\_\_\_\_ Dedicated  (Y/N)

**PURGING INFORMATION**

Purge Date: 12/16/21 Start Purge: 0850 End Purge: 0907  
 (2400 Hr. Clock)

Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.55

**MEASUREMENTS**

Well Diameter 2.0 (inches)      1st      2nd      Final

Stick Up 2.18 (ft)      pH 7.24    7.21    7.21      (std.)

Ref. Measuring Pt. TIC      SC 980    987    987      (umhos/cm)

Well Elevation \*586.49 (ft./msl)      Temp. 11.27    11.19    11.19      (°C)

Water Level 82.71 (ft.)      Well Stabilization / Recharge Grid

Ground Water Elev. 503.78 (ft./msl)

Well Bottom Elevation \*455.11 (ft./msl)


**COMMENTS**

Sample Appearance/Odor: Colorless, Clear, No Odor

Weather Conditions: 39°F, Mostly Cloudy, W winds @ 15-20 mph

Turbidity: 1.29 NTU

Other: \*Reference Measurement

Depth To Water from L.S. = 82.71 - 2.18 = 80.53 (ft)

Levels were taken on 12/16/21 @ 0840.

(Updated: 10/19/2021)

Sampler Name (Print): Noe Lopez Signature: [Signature]





**TestAmerica Chicago**

2417 Bond St  
University Park, IL 60484-3182  
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: G45S  
Facility: Midwest Generation-Joliet #9 CCR  
Job #: 500-209450-18

Type Sample: Ground Water Surface Water Leachate Other: \_\_\_\_\_  
(circle one)

Equipment Used: Purging \_\_\_\_\_ Bladder Pump \_\_\_\_\_ Dedicated  (Y/N)  
Sampling \_\_\_\_\_ Bladder Pump \_\_\_\_\_ Dedicated  (Y/N)

**PURGING INFORMATION**

Purge Date: 12/16/21 Start Purge: 0945 End Purge: 1001  
(2400 Hr. Clock)

Water Volume in Casing (gallons): N/A Volume Purged (gallons): 1.03

**MEASUREMENTS**

Well Diameter 2.0 (inches)      1st      2nd      Final

Stick Up 2.97 (ft)      pH 7.35 7.35 7.35 (std.)

Ref. Measuring Pt. TIC      SC 813 808 808 (umhos/cm)

Well Elevation \*603.94 (ft./msl)      Temp. 11.89 12.00 12.00 (°C)

Water Level 66.15 (ft.)      Well Stabilization / Recharge Grid

Ground Water Elev. 537.79 (ft./msl)

Well Bottom Elevation \*471.05 (ft./msl)


**COMMENTS**

Sample Appearance/Odor: Colorless, Clear, Moderate Odor

Weather Conditions: 41°F, Cloudy, SW winds @ 15-20 mph

Turbidity: 0.89 NTU

Other: \*Reference Measurement

Depth To Water from L.S. = 66.15 - 2.97 = 63.18 (ft)

Levels were taken on 12/16/21 @ 0940

(Updated: 10/19/2021)

Sampler Name (Print): Noe Lopez Signature: [Signature]





**TestAmerica Chicago**

2417 Bond St  
University Park, IL 60484-3182  
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: G48S  
Facility: Midwest Generation-Joliet #9 CCR  
Job #: 500-209450-19

Type Sample: Ground Water Surface Water Leachate Other: \_\_\_\_\_  
(circle one)

Equipment Used: Purging \_\_\_\_\_ Bladder Pump \_\_\_\_\_ Dedicated  (Y/N)  
 Sampling \_\_\_\_\_ Bladder Pump \_\_\_\_\_ Dedicated  (Y/N)

**PURGING INFORMATION**

Purge Date: 12/16/21 Start Purge: 1055 End Purge: 1113  
(2400 Hr. Clock)

Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.93

**MEASUREMENTS**

Well Diameter 4.0 (inches)      1st      2nd      Final

Stick Up 2.45 (ft)      pH 6.99 7.02 7.02 (std.)

Ref. Measuring Pt. TIC      SC 1311 1318 1318 (umhos/cm)

Well Elevation \*620.74 (ft./msl)      Temp. 8.82 8.84 8.84 (°C)

Water Level 105.09 (ft.)      Well Stabilization / Recharge Grid

Ground Water Elev. 515.65 (ft./msl)

Well Bottom Elevation \*468.32 (ft./msl)


**COMMENTS**

Sample Appearance/Odor: Colorless, Clear, Moderate Odor

Weather Conditions: 40°F, Mostly Cloudy, SW winds @ 15-20 mph

Turbidity: 0.62 NTU

Other: \*Reference Measurement

Depth To Water from L.S. = 105.09 - 2.45 = 102.64 (ft.)

Levels were taken on 12/16/21 @ 1050

(Updated: 10/19/2021)

Sampler Name (Print): Noe Lopez Signature: [Signature]





**TestAmerica Chicago**

2417 Bond St  
University Park, IL 60484-3182  
Tel: 708 534 5200 Fax: 708 534 5211

Sample ID: G47S  
Facility: Midwest Generation-Joliet #9 CCR  
Job #: 500 209450-20

Type Sample: Ground Water Surface Water Leachate Other: \_\_\_\_\_  
(circle one)  
Equipment Used: Purging \_\_\_\_\_ Bladder Pump \_\_\_\_\_ Dedicated  (N)  
Sampling \_\_\_\_\_ Bladder Pump \_\_\_\_\_ Dedicated  (N)

**PURGING INFORMATION**

Purge Date: 12/16/21 Start Purge: 1250 End Purge: 1310  
(2400 Hr. Clock)  
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.65

**MEASUREMENTS**

Well Diameter 4.0 (inches) 1st 2nd Final  
Stick Up 2.50 (ft) pH 8.62 8.63 8.63 (std.)  
Ref. Measuring Pt. TIC SC 1342 1334 1334 (umhos/cm)  
Well Elevation \*612.04 (ft./msl) Temp. 11.05 11.06 11.06 (°C)  
Water Level 95.98 (ft.) Well Stabilization / Recharge Grid  
Ground Water Elev. 516.06 (ft./msl)  
Well Bottom Elevation \*459.84 (ft./msl)

**COMMENTS**

Sample Appearance/Odor: Colorless, Clear, Slight Odor  
Weather Conditions: 42°F, Sunny, W winds @ 15-20 mph  
Turbidity: 0.59 NTU  
Other: \*Reference Measurement  
Depth To Water from L.S. = 95.98 - 2.50 = 93.48 (ft)  
Levels were taken on 12/16/21 @ 1245

(Updated: 10/19/2021 )

Sampler Name (Print): Noe Lopez Signature: [Signature]



## ANALYTICAL REPORT

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

Laboratory Job ID: 500-209450-2  
Client Project/Site: Joliet #9 (Quarry) CCR 4Q21

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

Attn: Richard Gnat



Authorized for release by:  
2/1/2022 5:06:52 PM

Diana Mockler, Project Manager I  
(219)252-7570  
[Diana.Mockler@Eurofinset.com](mailto:Diana.Mockler@Eurofinset.com)

### LINKS

Review your project  
results through  
**TotalAccess**

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*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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# Case Narrative

Client: KPRG and Associates, Inc.  
Project/Site: Joliet #9 (Quarry) CCR 4Q21

Job ID: 500-209450-2

## Job ID: 500-209450-2

### Laboratory: Eurofins Chicago

#### Narrative

#### Job Narrative 500-209450-2

#### Comments

No additional comments.

#### Receipt

The samples were received on 12/8/2021 2:29 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 7 coolers at receipt time were 1.0° C, 2.1° C, 3.0° C, 3.2° C, 3.7° C, 3.8° C and 3.9° C.

#### RAD

Method 903.0: Radium 226 batch 543783

The Barium carrier recovery is outside the lower control limit (40%) for the following sample: T02S (500-209450-3). There was physical evidence of matrix interference apparent during the initial preparation of the sample. The QC samples associated with the batch have acceptable carrier recovery indicating the presence of matrix interference.

Method 903.0: Radium 226 batch 543783

The following sample(s) have Barium carrier recoveries above the 110% QC limit; The LCS (laboratory control sample) have acceptable spike recoveries demonstrating acceptable sample preparation and instrument performance. The sample(s) have been truncated to 100% to reduce any potential bias a high carrier recovery may have. The data have been reported with this narrative.

G31S (500-209450-10)

Method 903.0: Radium 226 batch 543783

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.

The GFPC long monthly backgrounds (ICB) were counted for 800 minutes, but due to current software limitations with the Protean instruments the long monthly backgrounds are calculated at 1000 minutes. This discrepancy has been manually updated, and data is correct, but the raw data printouts still show the incorrect time of 1000 minutes. The ICB raw data includes the correct count time of 800 minutes and counts.

T09S (500-209450-1), T06S (500-209450-2), T02S (500-209450-3), T08S (500-209450-4), T03S (500-209450-5), T05S (500-209450-6), G20S (500-209450-7), T01S (500-209450-8), G33S (500-209450-9), G31S (500-209450-10), R08S (500-209450-11), G30S (500-209450-12), R32S (500-209450-13), DUP (500-209450-14), G46S (500-209450-15), G44S (500-209450-17), G45S (500-209450-18), G48S (500-209450-19), G47S (500-209450-20), (LCS 160-543783/1-A), (MB 160-543783/22-A) and (500-209450-C-20-A DU)

Method 904.0: Ra-228 batch 160-543788:

The radium-228 method blank has activity above the RL of 1. The samples are not ND or >5X the MB activity, therefore samples need to be re-extracted.

T09S (500-209450-1), T06S (500-209450-2), T02S (500-209450-3), T08S (500-209450-4), T03S (500-209450-5), T05S (500-209450-6), G20S (500-209450-7), T01S (500-209450-8), G33S (500-209450-9), G31S (500-209450-10), R08S (500-209450-11), G30S (500-209450-12), R32S (500-209450-13), DUP (500-209450-14), G46S (500-209450-15), G44S (500-209450-17), G45S (500-209450-18), G48S (500-209450-19), G47S (500-209450-20) and (500-209450-C-20-B DU)

Method 904.0: Radium 228 batch 547981

The detection goal was not met for the following sample(s). Samples were prepped at a reduced volume due to the presence of matrix interferences: T02S (500-209450-3) and G33S (500-209450-9). Analytical results are reported with the detection limit achieved.

Method 904.0: Radium 228 batch 547981

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is



# Case Narrative

Client: KPRG and Associates, Inc.  
Project/Site: Joliet #9 (Quarry) CCR 4Q21

Job ID: 500-209450-2

## Job ID: 500-209450-2 (Continued)

### Laboratory: Eurofins Chicago (Continued)

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.

T09S (500-209450-1), T06S (500-209450-2), T02S (500-209450-3), T08S (500-209450-4), T03S (500-209450-5), T05S (500-209450-6), G20S (500-209450-7), T01S (500-209450-8), G33S (500-209450-9), G31S (500-209450-10), R08S (500-209450-11), G30S (500-209450-12), R32S (500-209450-13), DUP (500-209450-14), G46S (500-209450-15), G44S (500-209450-17), G45S (500-209450-18), G48S (500-209450-19), G47S (500-209450-20), (LCS 160-547981/1-A), (LCSD 160-547981/2-A) and (MB 160-547981/22-A)

Method PrecSep\_0:

Method PrecSep\_0: Radium-226 Prep Batch 160-543783

The barium carrier recovery is outside the <<CHOOSE ONE>> upper control limit (110%) : G31S (500-209450-10). There was physical evidence of matrix interference apparent during the initial preparation of the sample. The QC samples associated with the batch have acceptable carrier recovery indicating the presence of matrix interference.

Method PrecSep\_0: Radium Prep Batch 160-54378

The Barium carrier recovery is outside the lower control limit (40%) for the following sample: T02S (500-209450-3). There was physical evidence of matrix interference apparent during the initial preparation of the sample. The QC samples associated with the batch have acceptable carrier recovery indicating the presence of matrix interference.

Method PrecSep\_0: Radium-228 Prep Batch 160-547981

The following samples were prepared at a reduced aliquot due to Matrix: T09S (500-209450-1), T06S (500-209450-2), T02S (500-209450-3), T08S (500-209450-4), T03S (500-209450-5), T05S (500-209450-6), G20S (500-209450-7), T01S (500-209450-8), G33S (500-209450-9), G31S (500-209450-10), R08S (500-209450-11), G30S (500-209450-12), R32S (500-209450-13), DUP (500-209450-14), G46S (500-209450-15), G44S (500-209450-17), G45S (500-209450-18) and G48S (500-209450-19). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead of a sample duplicate (DUP) to demonstrate batch precision.

Method PrecSep\_0: The barium carrier recovery is within limits but lower. The pellets were notably smaller throughout the out of in-growth process, which is likely attributed to the matrix interference noted at precipitation.

Method PrecSep-21:

Method PrecSep-21: Radium-226 Prep Batch 160-543783

The barium carrier recovery is outside the <<CHOOSE ONE>> upper control limit (110%) for the following sample: G31S (500-209450-10). There was physical evidence of matrix interference apparent during the initial preparation of the sample. The QC samples associated with the batch have acceptable carrier recovery indicating the presence of matrix interference.

Method PrecSep-21: Radium-226 Prep Batch 160-543783

The barium carrier recovery is outside the lower control limit (40%) for the following sample: T02S (500-209450-3). There was physical evidence of matrix interference apparent during the initial preparation of the sample. The QC samples associated with the batch have acceptable carrier recovery indicating the presence of matrix interference.

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: Joliet #9 (Quarry) CCR 4Q21

Job ID: 500-209450-2

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

#### Protocol References:

EPA = US Environmental Protection Agency

None = None

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

#### Laboratory References:

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

# Sample Summary

Client: KPRG and Associates, Inc.  
 Project/Site: Joliet #9 (Quarry) CCR 4Q21

Job ID: 500-209450-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-209450-1	T09S	Water	12/08/21 11:28	12/08/21 14:29
500-209450-2	T06S	Water	12/08/21 13:06	12/08/21 14:29
500-209450-3	T02S	Water	12/09/21 09:39	12/09/21 14:48
500-209450-4	T08S	Water	12/09/21 11:48	12/09/21 14:48
500-209450-5	T03S	Water	12/09/21 13:42	12/09/21 14:48
500-209450-6	T05S	Water	12/10/21 09:55	12/10/21 14:07
500-209450-7	G20S	Water	12/10/21 11:25	12/10/21 14:07
500-209450-8	T01S	Water	12/13/21 10:42	12/13/21 15:10
500-209450-9	G33S	Water	12/13/21 13:06	12/13/21 15:10
500-209450-10	G31S	Water	12/13/21 14:14	12/13/21 15:10
500-209450-11	R08S	Water	12/14/21 13:05	12/14/21 14:00
500-209450-12	G30S	Water	12/15/21 09:03	12/15/21 14:15
500-209450-13	R32S	Water	12/15/21 10:44	12/15/21 14:15
500-209450-14	DUP	Water	12/15/21 10:44	12/15/21 14:15
500-209450-15	G46S	Water	12/15/21 12:19	12/15/21 14:15
500-209450-17	G44S	GW	12/16/21 09:07	12/16/21 14:26
500-209450-18	G45S	GW	12/16/21 10:01	12/16/21 14:26
500-209450-19	G48S	GW	12/16/21 11:13	12/16/21 14:26
500-209450-20	G47S	GW	12/16/21 13:10	12/16/21 14:26

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

# Client Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Joliet #9 (Quarry) CCR 4Q21

Job ID: 500-209450-2

**Client Sample ID: T09S**

**Lab Sample ID: 500-209450-1**

Date Collected: 12/08/21 11:28

Matrix: Water

Date Received: 12/08/21 14:29

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.85		0.470	0.499	1.00	0.413	pCi/L	12/28/21 11:06	01/19/22 20:34	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	71.7		40 - 110					12/28/21 11:06	01/19/22 20:34	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.882		0.344	0.354	1.00	0.474	pCi/L	01/25/22 08:29	01/31/22 20:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.0		40 - 110					01/25/22 08:29	01/31/22 20:30	1
Y Carrier	84.9		40 - 110					01/25/22 08:29	01/31/22 20:30	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	2.74		0.582	0.612	5.00	0.474	pCi/L		02/01/22 15:09	1

# Client Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Joliet #9 (Quarry) CCR 4Q21

Job ID: 500-209450-2

## Client Sample ID: T06S

## Lab Sample ID: 500-209450-2

Date Collected: 12/08/21 13:06

Matrix: Water

Date Received: 12/08/21 14:29

### Method: 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>1.18</b>		0.380	0.394	1.00	0.412	pCi/L	12/28/21 11:06	01/19/22 22:45	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.1		40 - 110					12/28/21 11:06	01/19/22 22:45	1

### Method: 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>0.888</b>		0.351	0.360	1.00	0.474	pCi/L	01/25/22 08:29	01/31/22 20:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.4		40 - 110					01/25/22 08:29	01/31/22 20:30	1
Y Carrier	86.7		40 - 110					01/25/22 08:29	01/31/22 20:30	1

### Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Combined Radium 226 + 228</b>	<b>2.07</b>		0.517	0.534	5.00	0.474	pCi/L		02/01/22 15:09	1

# Client Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Joliet #9 (Quarry) CCR 4Q21

Job ID: 500-209450-2

## Client Sample ID: T02S

## Lab Sample ID: 500-209450-3

Date Collected: 12/09/21 09:39

Matrix: Water

Date Received: 12/09/21 14:48

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.793	U	0.589	0.593	1.00	0.878	pCi/L	12/28/21 11:06	01/19/22 22:45	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	34.3	X	40 - 110					12/28/21 11:06	01/19/22 22:45	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	2.03	G	1.08	1.09	1.00	1.58	pCi/L	01/25/22 08:29	01/31/22 20:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	43.2		40 - 110					01/25/22 08:29	01/31/22 20:30	1
Y Carrier	81.1		40 - 110					01/25/22 08:29	01/31/22 20:30	1

### Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	2.82		1.23	1.24	5.00	1.58	pCi/L		02/01/22 15:09	1

# Client Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Joliet #9 (Quarry) CCR 4Q21

Job ID: 500-209450-2

**Client Sample ID: T08S**

**Lab Sample ID: 500-209450-4**

Date Collected: 12/09/21 11:48

Matrix: Water

Date Received: 12/09/21 14:48

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.388		0.237	0.240	1.00	0.309	pCi/L	12/28/21 11:06	01/19/22 22:45	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.3		40 - 110					12/28/21 11:06	01/19/22 22:45	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.872		0.433	0.440	1.00	0.642	pCi/L	01/25/22 08:29	01/31/22 20:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.9		40 - 110					01/25/22 08:29	01/31/22 20:30	1
Y Carrier	82.2		40 - 110					01/25/22 08:29	01/31/22 20:30	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.26		0.494	0.501	5.00	0.642	pCi/L		02/01/22 15:09	1



# Client Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Joliet #9 (Quarry) CCR 4Q21

Job ID: 500-209450-2

**Client Sample ID: T03S**

**Lab Sample ID: 500-209450-5**

Date Collected: 12/09/21 13:42

Matrix: Water

Date Received: 12/09/21 14:48

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.526		0.245	0.249	1.00	0.281	pCi/L	12/28/21 11:06	01/19/22 22:46	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.1		40 - 110					12/28/21 11:06	01/19/22 22:46	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.915		0.357	0.367	1.00	0.494	pCi/L	01/25/22 08:29	01/31/22 20:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.4		40 - 110					01/25/22 08:29	01/31/22 20:30	1
Y Carrier	86.4		40 - 110					01/25/22 08:29	01/31/22 20:30	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.44		0.433	0.443	5.00	0.494	pCi/L		02/01/22 15:09	1

# Client Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Joliet #9 (Quarry) CCR 4Q21

Job ID: 500-209450-2

**Client Sample ID: T05S**

**Lab Sample ID: 500-209450-6**

Date Collected: 12/10/21 09:55

Matrix: Water

Date Received: 12/10/21 14:07

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.391		0.240	0.242	1.00	0.331	pCi/L	12/28/21 11:06	01/19/22 22:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.4		40 - 110					12/28/21 11:06	01/19/22 22:37	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.975		0.511	0.519	1.00	0.749	pCi/L	01/25/22 08:29	01/31/22 20:32	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	58.8		40 - 110					01/25/22 08:29	01/31/22 20:32	1
Y Carrier	86.4		40 - 110					01/25/22 08:29	01/31/22 20:32	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.37		0.565	0.573	5.00	0.749	pCi/L		02/01/22 15:09	1

# Client Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Joliet #9 (Quarry) CCR 4Q21

Job ID: 500-209450-2

**Client Sample ID: G20S**

**Lab Sample ID: 500-209450-7**

Date Collected: 12/10/21 11:25

Matrix: Water

Date Received: 12/10/21 14:07

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.849		0.310	0.319	1.00	0.301	pCi/L	12/28/21 11:06	01/19/22 22:46	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.3		40 - 110					12/28/21 11:06	01/19/22 22:46	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.41		0.364	0.387	1.00	0.428	pCi/L	01/25/22 08:29	01/31/22 20:32	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.0		40 - 110					01/25/22 08:29	01/31/22 20:32	1
Y Carrier	89.0		40 - 110					01/25/22 08:29	01/31/22 20:32	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	2.26		0.478	0.502	5.00	0.428	pCi/L		02/01/22 15:09	1

# Client Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Joliet #9 (Quarry) CCR 4Q21

Job ID: 500-209450-2

**Client Sample ID: T01S**

**Lab Sample ID: 500-209450-8**

Date Collected: 12/13/21 10:42

Matrix: Water

Date Received: 12/13/21 15:10

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.10		0.535	0.545	1.00	0.663	pCi/L	12/28/21 11:06	01/19/22 22:46	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	63.1		40 - 110					12/28/21 11:06	01/19/22 22:46	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.11		0.355	0.369	1.00	0.455	pCi/L	01/25/22 08:29	01/31/22 20:32	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.0		40 - 110					01/25/22 08:29	01/31/22 20:32	1
Y Carrier	87.5		40 - 110					01/25/22 08:29	01/31/22 20:32	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	2.22		0.642	0.658	5.00	0.663	pCi/L		02/01/22 15:09	1

# Client Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Joliet #9 (Quarry) CCR 4Q21

Job ID: 500-209450-2

**Client Sample ID: G33S**

**Lab Sample ID: 500-209450-9**

Date Collected: 12/13/21 13:06

Matrix: Water

Date Received: 12/13/21 15:10

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.498	U	0.562	0.563	1.00	0.910	pCi/L	12/28/21 11:06	01/19/22 22:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	41.2		40 - 110					12/28/21 11:06	01/19/22 22:42	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.491	U G	0.625	0.626	1.00	1.04	pCi/L	01/25/22 08:29	01/31/22 20:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	71.7		40 - 110					01/25/22 08:29	01/31/22 20:35	1
Y Carrier	86.7		40 - 110					01/25/22 08:29	01/31/22 20:35	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.989	U	0.841	0.842	5.00	1.04	pCi/L		02/01/22 15:09	1

# Client Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Joliet #9 (Quarry) CCR 4Q21

Job ID: 500-209450-2

**Client Sample ID: G31S**

**Lab Sample ID: 500-209450-10**

Date Collected: 12/13/21 14:14

Matrix: Water

Date Received: 12/13/21 15:10

**Method: 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>0.740</b>		0.300	0.307	1.00	0.344	pCi/L	12/28/21 11:06	01/19/22 22:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	140	X	40 - 110					12/28/21 11:06	01/19/22 22:42	1

**Method: 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>1.28</b>		0.401	0.418	1.00	0.531	pCi/L	01/25/22 08:29	01/31/22 20:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.9		40 - 110					01/25/22 08:29	01/31/22 20:35	1
Y Carrier	88.6		40 - 110					01/25/22 08:29	01/31/22 20:35	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Combined Radium 226 + 228</b>	<b>2.02</b>		0.501	0.519	5.00	0.531	pCi/L		02/01/22 15:09	1

# Client Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Joliet #9 (Quarry) CCR 4Q21

Job ID: 500-209450-2

**Client Sample ID: R08S**

**Lab Sample ID: 500-209450-11**

Date Collected: 12/14/21 13:05

Matrix: Water

Date Received: 12/14/21 14:00

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.683		0.257	0.264	1.00	0.303	pCi/L	12/28/21 11:06	01/19/22 22:42	1
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>					<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Ba Carrier	97.7		40 - 110					12/28/21 11:06	01/19/22 22:42	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.13		0.380	0.394	1.00	0.498	pCi/L	01/25/22 08:29	01/31/22 20:35	1
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>					<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Ba Carrier	97.0		40 - 110					01/25/22 08:29	01/31/22 20:35	1
Y Carrier	80.0		40 - 110					01/25/22 08:29	01/31/22 20:35	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.81		0.459	0.474	5.00	0.498	pCi/L		02/01/22 15:09	1



# Client Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Joliet #9 (Quarry) CCR 4Q21

Job ID: 500-209450-2

**Client Sample ID: G30S**

**Lab Sample ID: 500-209450-12**

Date Collected: 12/15/21 09:03

Matrix: Water

Date Received: 12/15/21 14:15

**Method: 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>0.837</b>		0.330	0.338	1.00	0.360	pCi/L	12/28/21 11:06	01/19/22 22:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	74.2		40 - 110					12/28/21 11:06	01/19/22 22:43	1

**Method: 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>1.61</b>		0.646	0.662	1.00	0.905	pCi/L	01/25/22 08:29	01/31/22 20:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	54.5		40 - 110					01/25/22 08:29	01/31/22 20:36	1
Y Carrier	86.0		40 - 110					01/25/22 08:29	01/31/22 20:36	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Combined Radium 226 + 228</b>	<b>2.45</b>		0.725	0.743	5.00	0.905	pCi/L		02/01/22 15:09	1

# Client Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Joliet #9 (Quarry) CCR 4Q21

Job ID: 500-209450-2

**Client Sample ID: R32S**

**Lab Sample ID: 500-209450-13**

Date Collected: 12/15/21 10:44

Matrix: Water

Date Received: 12/15/21 14:15

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.41		0.447	0.465	1.00	0.457	pCi/L	12/28/21 11:06	01/19/22 22:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	64.9		40 - 110					12/28/21 11:06	01/19/22 22:43	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.27		0.391	0.408	1.00	0.503	pCi/L	01/25/22 08:29	01/31/22 20:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.4		40 - 110					01/25/22 08:29	01/31/22 20:36	1
Y Carrier	87.1		40 - 110					01/25/22 08:29	01/31/22 20:36	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	2.68		0.594	0.619	5.00	0.503	pCi/L		02/01/22 15:09	1

# Client Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Joliet #9 (Quarry) CCR 4Q21

Job ID: 500-209450-2

**Client Sample ID: DUP**

**Lab Sample ID: 500-209450-14**

Date Collected: 12/15/21 10:44

Matrix: Water

Date Received: 12/15/21 14:15

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.28		0.378	0.395	1.00	0.402	pCi/L	12/28/21 11:06	01/19/22 22:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.7		40 - 110					12/28/21 11:06	01/19/22 22:43	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.01		0.371	0.383	1.00	0.513	pCi/L	01/25/22 08:29	01/31/22 20:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.7		40 - 110					01/25/22 08:29	01/31/22 20:36	1
Y Carrier	87.1		40 - 110					01/25/22 08:29	01/31/22 20:36	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	2.29		0.530	0.550	5.00	0.513	pCi/L		02/01/22 15:09	1

# Client Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Joliet #9 (Quarry) CCR 4Q21

Job ID: 500-209450-2

**Client Sample ID: G46S**

**Lab Sample ID: 500-209450-15**

Date Collected: 12/15/21 12:19

Matrix: Water

Date Received: 12/15/21 14:15

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.25		0.383	0.399	1.00	0.389	pCi/L	12/28/21 11:06	01/19/22 22:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.7		40 - 110					12/28/21 11:06	01/19/22 22:43	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.36		0.400	0.419	1.00	0.508	pCi/L	01/25/22 08:29	01/31/22 20:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.7		40 - 110					01/25/22 08:29	01/31/22 20:36	1
Y Carrier	84.9		40 - 110					01/25/22 08:29	01/31/22 20:36	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	2.61		0.554	0.579	5.00	0.508	pCi/L		02/01/22 15:09	1

# Client Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Joliet #9 (Quarry) CCR 4Q21

Job ID: 500-209450-2

**Client Sample ID: G44S**

**Lab Sample ID: 500-209450-17**

Date Collected: 12/16/21 09:07

Matrix: GW

Date Received: 12/16/21 14:26

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.684		0.358	0.363	1.00	0.468	pCi/L	12/28/21 11:06	01/19/22 22:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	68.2		40 - 110					12/28/21 11:06	01/19/22 22:43	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.437	U	0.334	0.336	1.00	0.525	pCi/L	01/25/22 08:29	01/31/22 20:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.9		40 - 110					01/25/22 08:29	01/31/22 20:36	1
Y Carrier	84.5		40 - 110					01/25/22 08:29	01/31/22 20:36	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.12		0.490	0.495	5.00	0.525	pCi/L		02/01/22 15:09	1

# Client Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Joliet #9 (Quarry) CCR 4Q21

Job ID: 500-209450-2

**Client Sample ID: G45S**

**Lab Sample ID: 500-209450-18**

Date Collected: 12/16/21 10:01

Matrix: GW

Date Received: 12/16/21 14:26

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.03		0.347	0.359	1.00	0.378	pCi/L	12/28/21 11:06	01/19/22 22:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.5		40 - 110					12/28/21 11:06	01/19/22 22:43	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.713		0.356	0.362	1.00	0.524	pCi/L	01/25/22 08:29	01/31/22 20:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.0		40 - 110					01/25/22 08:29	01/31/22 20:36	1
Y Carrier	84.1		40 - 110					01/25/22 08:29	01/31/22 20:36	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.74		0.497	0.510	5.00	0.524	pCi/L		02/01/22 15:09	1

# Client Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Joliet #9 (Quarry) CCR 4Q21

Job ID: 500-209450-2

**Client Sample ID: G48S**

**Lab Sample ID: 500-209450-19**

Date Collected: 12/16/21 11:13

Matrix: GW

Date Received: 12/16/21 14:26

**Method: 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>0.821</b>		0.308	0.317	1.00	0.353	pCi/L	12/28/21 11:06	01/19/22 22:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.8		40 - 110					12/28/21 11:06	01/19/22 22:38	1

**Method: 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>1.05</b>		0.363	0.376	1.00	0.483	pCi/L	01/25/22 08:29	01/31/22 20:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.2		40 - 110					01/25/22 08:29	01/31/22 20:36	1
Y Carrier	86.0		40 - 110					01/25/22 08:29	01/31/22 20:36	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Combined Radium 226 + 228</b>	<b>1.87</b>		0.476	0.492	5.00	0.483	pCi/L		02/01/22 15:09	1



# Client Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Joliet #9 (Quarry) CCR 4Q21

Job ID: 500-209450-2

**Client Sample ID: G47S**

**Lab Sample ID: 500-209450-20**

Date Collected: 12/16/21 13:10

Matrix: GW

Date Received: 12/16/21 14:26

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.785		0.267	0.276	1.00	0.299	pCi/L	12/28/21 11:06	01/19/22 22:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.6		40 - 110					12/28/21 11:06	01/19/22 22:38	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.378	U	0.262	0.264	1.00	0.409	pCi/L	01/25/22 08:29	01/31/22 20:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.4		40 - 110					01/25/22 08:29	01/31/22 20:36	1
Y Carrier	86.7		40 - 110					01/25/22 08:29	01/31/22 20:36	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.16		0.374	0.382	5.00	0.409	pCi/L		02/01/22 15:09	1

# Definitions/Glossary

Client: KPRG and Associates, Inc.  
Project/Site: Joliet #9 (Quarry) CCR 4Q21

Job ID: 500-209450-2

## Qualifiers

### Rad

Qualifier	Qualifier Description
G	The Sample MDC is greater than the requested RL.
U	Result is less than the sample detection limit.
X	Carrier is outside acceptance limits.

## 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: Joliet #9 (Quarry) CCR 4Q21

Job ID: 500-209450-2

## Rad

### Prep Batch: 543783

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-209450-1	T09S	Total/NA	Water	PrecSep-21	
500-209450-2	T06S	Total/NA	Water	PrecSep-21	
500-209450-3	T02S	Total/NA	Water	PrecSep-21	
500-209450-4	T08S	Total/NA	Water	PrecSep-21	
500-209450-5	T03S	Total/NA	Water	PrecSep-21	
500-209450-6	T05S	Total/NA	Water	PrecSep-21	
500-209450-7	G20S	Total/NA	Water	PrecSep-21	
500-209450-8	T01S	Total/NA	Water	PrecSep-21	
500-209450-9	G33S	Total/NA	Water	PrecSep-21	
500-209450-10	G31S	Total/NA	Water	PrecSep-21	
500-209450-11	R08S	Total/NA	Water	PrecSep-21	
500-209450-12	G30S	Total/NA	Water	PrecSep-21	
500-209450-13	R32S	Total/NA	Water	PrecSep-21	
500-209450-14	DUP	Total/NA	Water	PrecSep-21	
500-209450-15	G46S	Total/NA	Water	PrecSep-21	
500-209450-17	G44S	Total/NA	GW	PrecSep-21	
500-209450-18	G45S	Total/NA	GW	PrecSep-21	
500-209450-19	G48S	Total/NA	GW	PrecSep-21	
500-209450-20	G47S	Total/NA	GW	PrecSep-21	
MB 160-543783/22-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-543783/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-209450-20 DU	G47S	Total/NA	GW	PrecSep-21	

### Prep Batch: 547981

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-209450-1	T09S	Total/NA	Water	PrecSep_0	
500-209450-2	T06S	Total/NA	Water	PrecSep_0	
500-209450-3	T02S	Total/NA	Water	PrecSep_0	
500-209450-4	T08S	Total/NA	Water	PrecSep_0	
500-209450-5	T03S	Total/NA	Water	PrecSep_0	
500-209450-6	T05S	Total/NA	Water	PrecSep_0	
500-209450-7	G20S	Total/NA	Water	PrecSep_0	
500-209450-8	T01S	Total/NA	Water	PrecSep_0	
500-209450-9	G33S	Total/NA	Water	PrecSep_0	
500-209450-10	G31S	Total/NA	Water	PrecSep_0	
500-209450-11	R08S	Total/NA	Water	PrecSep_0	
500-209450-12	G30S	Total/NA	Water	PrecSep_0	
500-209450-13	R32S	Total/NA	Water	PrecSep_0	
500-209450-14	DUP	Total/NA	Water	PrecSep_0	
500-209450-15	G46S	Total/NA	Water	PrecSep_0	
500-209450-17	G44S	Total/NA	GW	PrecSep_0	
500-209450-18	G45S	Total/NA	GW	PrecSep_0	
500-209450-19	G48S	Total/NA	GW	PrecSep_0	
500-209450-20	G47S	Total/NA	GW	PrecSep_0	
MB 160-547981/22-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-547981/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-547981/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

# QC Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Joliet #9 (Quarry) CCR 4Q21

Job ID: 500-209450-2

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

**Lab Sample ID: MB 160-543783/22-A**  
**Matrix: Water**  
**Analysis Batch: 547143**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 543783**

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.01366	U	0.168	0.168	1.00	0.326	pCi/L	12/28/21 11:06	01/19/22 22:39	1
Carrier	MB	MB	Limits			Prepared	Analyzed	Dil Fac		
	%Yield	Qualifier								
Ba Carrier	100		40 - 110			12/28/21 11:06	01/19/22 22:39	1		

**Lab Sample ID: LCS 160-543783/1-A**  
**Matrix: Water**  
**Analysis Batch: 547143**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 543783**

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	15.1	14.99		1.76	1.00	0.372	pCi/L	99	75 - 125
Carrier	LCS	LCS	Limits			Prepared	Analyzed	Dil Fac	
	%Yield	Qualifier							
Ba Carrier	86.6		40 - 110						

**Lab Sample ID: 500-209450-20 DU**  
**Matrix: GW**  
**Analysis Batch: 547143**

**Client Sample ID: G47S**  
**Prep Type: Total/NA**  
**Prep Batch: 543783**

Analyte	Sample	Sample	DU	DU	Total	RL	MDC	Unit	RER	RER Limit
	Result	Qual	Result	Qual	Uncert. (2σ+/-)					
Radium-226	0.785		0.7378		0.249	1.00	0.250	pCi/L	0.09	1
Carrier	DU	DU	Limits			Prepared	Analyzed	Dil Fac		
	%Yield	Qualifier								
Ba Carrier	95.5		40 - 110							

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

**Lab Sample ID: MB 160-547981/22-A**  
**Matrix: Water**  
**Analysis Batch: 548985**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 547981**

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.3432	U	0.246	0.248	1.00	0.377	pCi/L	01/25/22 08:29	01/31/22 20:36	1
Carrier	MB	MB	Limits			Prepared	Analyzed	Dil Fac		
	%Yield	Qualifier								
Ba Carrier	79.0		40 - 110			01/25/22 08:29	01/31/22 20:36	1		
Y Carrier	83.0		40 - 110			01/25/22 08:29	01/31/22 20:36	1		

# QC Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Joliet #9 (Quarry) CCR 4Q21

Job ID: 500-209450-2

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

**Lab Sample ID: LCS 160-547981/1-A**  
**Matrix: Water**  
**Analysis Batch: 548987**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 547981**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	8.91	10.35		1.21	1.00	0.382	pCi/L	116	75 - 125
<b>LCS LCS</b>									
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>						
Ba Carrier	88.9		40 - 110						
Y Carrier	80.7		40 - 110						

**Lab Sample ID: LCSD 160-547981/2-A**  
**Matrix: Water**  
**Analysis Batch: 548987**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 547981**

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-228	8.91	10.21		1.16	1.00	0.311	pCi/L	115	75 - 125	0.06	1
<b>LCSD LCSD</b>											
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>								
Ba Carrier	96.7		40 - 110								
Y Carrier	84.5		40 - 110								





# Chain of Custody Record

555249




Environment Testing  
TestAmerica

TAL-8210

Address \_\_\_\_\_

Regulatory Program:  DW  NPDES  RCRA  Other

<b>Client Contact</b>		<b>Project Manager:</b> <i>Diana Mockler</i>		<b>Site Contact:</b>		<b>Date:</b>		<b>COC No</b>		
Company Name: <i>Midwest Generation EME LLC</i>		Tel/Email:		Lab Contact:		Carrier:		_____ of _____ COCs		
Address		<b>Analysis Turnaround Time</b>		Filtered Sample (Y/N) Perform MS /MSD (Y/N) <i>Radium 226</i> <i>Radium 228</i> <i>Combined 226/228</i> <i>Metals 14 elements + Pb</i> <i>TDS, FI, Cl, SO4</i>		 500-209450 COC		Sampler <b>For Lab Use Only</b> Walk-in Client <input type="checkbox"/> Lab Sampling <input type="checkbox"/> Job / SDG No <i>500-209450</i>		
City/State/Zip: <i>Joliet, IL</i>		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS								
Phone:		TAT if different from Below _____								
Fax:		<input type="checkbox"/> 2 weeks								
Project Name: <i>Joliet #9 (Quarry) CCR</i>		<input type="checkbox"/> 1 week								
Site: <i>4021 03</i>		<input type="checkbox"/> 2 days						Sample Specific Notes		
P O #		<input type="checkbox"/> 1 day								
<b>Sample Identification</b>		<b>Sample Date</b>	<b>Sample Time</b>	<b>Sample Type (C=Comp, G=Grab)</b>	<b>Matrix</b>	<b># of Cont.</b>				
<i>3</i>	<i>TO2S</i>		<i>12/09/21</i>	<i>0939</i>	<i>W</i>	<i>5</i>				
<i>4</i>	<i>TO8S</i>		<i>12/09/21</i>	<i>1148</i>	<i>W</i>	<i>5</i>				
<i>5</i>	<i>TO3S</i>		<i>12/09/21</i>	<i>1342</i>	<i>W</i>	<i>5</i>				
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other _____										
<b>Possible Hazard Identification</b> Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown					<b>Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)</b> <input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months					
<b>Special Instructions/QC Requirements &amp; Comments:</b>										
Custody Seals Intact. <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No _____		Cooler Temp (°C) Obs'd <i>3.2</i> Corr'd _____		Therm ID No _____				
Relinquished by <i>[Signature]</i>		Company <i>TRM</i>		Date/Time <i>12/09/21 1148</i>		Received by _____		Company _____		
Relinquished by _____		Company _____		Date/Time _____		Received by _____		Company _____		
Relinquished by _____		Company _____		Date/Time _____		Received in Laboratory by <i>Shirley Scott</i>		Company <i>ETA</i>		
								<i>12/9/21 1148</i>		

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











# Chain of Custody Record

541843



Environment Testing  
TestAmerica

TAL-8210

Address \_\_\_\_\_

Regulatory Program:  DW  NPDES  RCRA  Other



500-209450 COC

Client Contact		Project Manager		Site Contact		Date:	
Company Name <i>Midwest Generation EPC LLC</i>		Tel/Email.		Lab Contact		Carrier	
Address _____		Analysis Turnaround Time		Filtered Sample (Y/N) Perform MS / MSD (Y/N) <i>Radium 226</i> <i>Radium 228</i> <i>Combined 226/228</i> <i>Metals 14 elements + Hg</i> <i>TDS, FI, CI, SO4</i>		500-209450 COC	
City/State/Zip <i>Joliet, IL</i>		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS					
Phone _____		TAT if different from Below _____					
Fax _____		<input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day					
Project Name <i>Joliet #9 (Resig) CCR</i>		Sample Date		Sample Time		Sample Type (C=Comp, G=Grab)	
Site <i>4021-GW</i>		Matrix		# of Cont.		Sample Specific Notes	
P O # _____							
12	<i>G30S</i>	<i>12/15/21</i>	<i>0903</i>	<i>W</i>	<i>5</i>	<i>/</i>	
13	<i>R32S</i>	<i>12/15/21</i>	<i>1044</i>	<i>W</i>	<i>5</i>	<i>/</i>	
14	<i>DUP</i>	<i>12/15/21</i>	<i>1044</i>	<i>W</i>	<i>5</i>	<i>/</i>	<i>of R32S</i>
15	<i>G46S</i>	<i>12/15/21</i>	<i>1219</i>	<i>W</i>	<i>5</i>	<i>/</i>	
16	<i>T04S</i>	<i>12/15/21</i>	<i>1320</i>				<i>No samples due to property development/Excavation</i>
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____		Possible Hazard Identification.		Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)			
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample		<input type="checkbox"/> Non Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown		<input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months			
Special Instructions/QC Requirements & Comments							
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temp (°C) Obs'd _____ Corr'd _____		Therm ID No _____	
Relinquished by <i>[Signature]</i>		Company <i>[Signature]</i>		Date/Time <i>12/15/21 1415</i>		Received by _____ Company _____ Date/Time _____	
Relinquished by _____		Company _____		Date/Time _____		Received by _____ Company _____ Date/Time _____	
Relinquished by _____		Company _____		Date/Time _____		Received in Laboratory by <i>Stephanie Hemondley</i> Company <i>ETA-GTI</i> Date/Time <i>12/15/21 1415</i>	





**Chain of Custody Record**



<b>Client Information (Sub Contract Lab)</b>		Lab PM: Mockler, Diana J		Carrier Tracking No(s): 500-155261.1							
Client Contact: Shipping/Receiving		E-Mail: Diana.Mockler@Eurofinset.com		Page: Page 1 of 1							
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #: 500-209450-1							
Address: 13715 Rider Trail North.		Due Date Requested: 12/30/2021		Preservation Codes:							
City: Earth City		TAT Requested (days):		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:							
State, Zip: MO, 63045		PO #:		M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)							
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		WO #:									
Email:		Project #: 50011504									
Project Name: Joliet #9 (Quarry) CCR 4Q21		SSOW#:									
Site: NRG Midwest Generation LSQ Joliet #9 CCR											
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=swastool, B=1-10, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PreSep_21 Standard Target List	904.0/PreSep_0 Standard Target List	R226Ra228_GPPC	Total Number of Containers	Special Instructions/Note:
T02S (500-209450-3)	12/9/21	09:39 Central	Water	Water	X	X	X	X	X	3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume.
T08S (500-209450-4)	12/9/21	11:48 Central	Water	Water	X	X	X	X	X	3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume.
T03S (500-209450-5)	12/9/21	13:42 Central	Water	Water	X	X	X	X	X	3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume.
<p>Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte &amp; accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.</p>											
<p><b>Possible Hazard Identification</b></p> <p>Unconfirmed</p> <p>Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2</p> <p>Empty Kit Relinquished by: _____ Date: _____ Time: _____</p> <p>Special Instructions/QC Requirements: _____</p> <p>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</p> <p><input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months</p>											
Relinquished by: <i>Supriya Tennamondy</i>		Date/Time: 12/9/21 10:30		Company: <i>ETA CH</i>		Received by: <i>FED EX</i>		Date/Time: _____		Company: _____	
Relinquished by: <i>FED EX</i>		Date/Time: _____		Company: _____		Received by: <i>Autumn R. Johns</i>		Date/Time: DEC 10 2021 09:40		Company: <i>CVT STL</i>	
Relinquished by: _____		Date/Time: _____		Company: _____		Received by: _____		Date/Time: _____		Company: _____	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.: _____		Cooler Temperature(s) °C and Other Remarks: _____							



**Chain of Custody Record**



<b>Client Information (Sub Contract Lab)</b>		Lab PM: Mockler, Diana J		Carrier Tracking No(s): 500-155261.1							
Shipping/Receiving		E-Mail: Diana.Mockler@Eurofinset.com		Page: Page 1 of 1							
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #: 500-209450-2							
Address: 13715 Rider Trail North,		Due Date Requested: 1/13/2022		Preservation Codes:							
City: Earth City		TAT Requested (days):		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 - Na2SO3 G - Anchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water K - EDTA W - pH 4-5 L - EDA Z - other (specify)							
State, Zip: MO, 63045		PO #:		Other:							
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		WO #:									
Email:		Project #:									
Joliet #9 (Quarry) CCR 4Q21		50011504									
Site: NRG Midwest Generation LSQ Joliet #9 CCR		SSOW#:									
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Newer, Swab, On-site, etc.)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PreSep_21 Standard Target List	904.0/PreSep_0 Standard Target List	Ra226Ra228_GFPc	Total Number of Containers	Special Instructions/Note:
T09S (500-209450-1)	12/8/21	11:28 Central		Water	X	X	X	X		3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume.
T06S (500-209450-2)	12/8/21	13:06 Central		Water	X	X	X	X		3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume.
<p><b>Possible Hazard Identification</b></p> <p>Unconfirmed</p> <p>Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2</p> <p>Empty Kit Relinquished by: Date: Time: Method of Shipment:</p> <p>Relinquished by: <i>Stephanie Hernandez</i> Date/Time: 12/14/21 16:30 Company: <i>EIA-ETH</i></p> <p>Relinquished by: <b>FED EX</b> Date/Time: Date/Time: Company:</p> <p>Relinquished by: Date/Time: Company:</p> <p>Custody Seals Intact: Custody Seal No.:  <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Received by: <b>FED EX</b> Date/Time: Date/Time: Company: <b>EIA STL</b></p> <p>Received by: <i>Autumn R. Johns</i> Date/Time: <b>DEC 10 2021 0940</b> Company: Company</p> <p>Received by: <b>Autumn R. Johns</b> Date/Time: Date/Time: Company:</p> <p>Cooler Temperature(s) °C and Other Remarks:</p>											

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

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

Special Instructions/QC Requirements:













**Chain of Custody Record**



<b>Client Information (Sub Contract Lab)</b>		Sampler: <b>Mockler, Diana J</b>		Lab PM: <b>Mockler, Diana J</b>		COC No: <b>500-155474.1</b>		Camera Tracking Not(s):							
Client Contact: <b>Shipping/Receiving</b>		Phone: <b>Diana.Mockler@Eurofinset.com</b>		E-Mail: <b>Diana.Mockler@Eurofinset.com</b>		Page: <b>Page 1 of 1</b>		State of Origin: <b>Illinois</b>							
Company: <b>TestAmerica Laboratories, Inc.</b>		Address: <b>13715 Rider Trail North,</b>		Accreditations Required (See note): <b>NELAP - Illinois</b>		Job #: <b>500-209450-1</b>		Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2OAS Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 L - EDTA Z - other (specify) Other:							
Due Date Requested: <b>12/29/2021</b>		TAT Requested (days):		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		90.0/PreSep_0 Standard Target List		90.0/PreSep_21 Standard Target List		Ra228R228_GFPc		Total Number of Containers	
City: <b>Earth City</b>		State, Zip: <b>MO, 63045</b>		PO #: <b>314-298-8566(Tel) 314-298-8757(Fax)</b>		WO #: <b>Project #: 50011504</b>		SSOW#: <b>NRG Midwest Generation LSQ Joliet #9 CCR</b>		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)	
Matrix (W=water, S=solid, O=organic, B=biological, A=air)		Preservation Code:		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=organic, B=biological, A=air)		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)	
G30S (500-209450-12)		Water		12/15/21		09:03 Central		Water		X		X		X	
R32S (500-209450-13)		Water		12/15/21		10:44 Central		Water		X		X		X	
DUP (500-209450-14)		Water		12/15/21		10:44 Central		Water		X		X		X	
G46S (500-209450-15)		Water		12/15/21		12:19 Central		Water		X		X		X	
Special Instructions/Note:		Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;		Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;		Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;		Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;		Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;		Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;		Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;	

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

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

Empty Kit Relinquished by: **Shirley Smith** Date: **12/15/21** Time: **1600**  
 Relinquished by: **Shirley Smith** Date/Time: **12/15/21 1600** Company: **EIA**  
 Relinquished by: **FED EX** Date/Time: **12/15/21 1600** Company: **EIA**  
 Relinquished by: **Autumn R. Johnson** Date/Time: **Autumn R. Johnson** Company: **EIA**  
 Custody Seals Intact:  Yes  No  No  
 Cooler Temperature(s) °C and Other Remarks:





# Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-209450-2

**Login Number: 209450**

**List Source: Eurofins Chicago**

**List Number: 1**

**Creator: Buckley, Paula M**

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	2.1,3.2,1.0,3.9,3.8,3.0,3.7
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: 500-209450-2

**Login Number: 209450**

**List Number: 2**

**Creator: Johnson, Autumn R**

**List Source: Eurofins St. Louis**

**List Creation: 12/10/21 01:40 PM**

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





# Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-209450-2

**Login Number: 209450**

**List Number: 3**

**Creator: Johnson, Autumn R**

**List Source: Eurofins St. Louis**

**List Creation: 12/11/21 10:50 AM**

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



# Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-209450-2

**Login Number: 209450**

**List Number: 4**

**Creator: Johnson, Autumn R**

**List Source: Eurofins St. Louis**

**List Creation: 12/15/21 12:15 PM**

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



## Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-209450-2

**Login Number: 209450**

**List Number: 5**

**Creator: Worthington, Sierra M**

**List Source: Eurofins St. Louis**

**List Creation: 12/17/21 07:27 AM**

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

# Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-209450-2

**Login Number: 209450**

**List Number: 6**

**Creator: Johnson, Autumn R**

**List Source: Eurofins St. Louis**

**List Creation: 12/20/21 11:39 AM**

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



# Lab Chronicle

Client: KPRG and Associates, Inc.  
 Project/Site: Joliet #9 (Quarry) CCR 4Q21

Job ID: 500-209450-2

## Client Sample ID: T09S

Lab Sample ID: 500-209450-1

Date Collected: 12/08/21 11:28

Matrix: Water

Date Received: 12/08/21 14:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			543783	12/28/21 11:06	LPS	TAL SL
Total/NA	Analysis	903.0		1	547143	01/19/22 20:34	FLC	TAL SL
Total/NA	Prep	PrecSep_0			547981	01/25/22 08:29	LPS	TAL SL
Total/NA	Analysis	904.0		1	548987	01/31/22 20:30	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	549037	02/01/22 15:09	SCB	TAL SL

## Client Sample ID: T06S

Lab Sample ID: 500-209450-2

Date Collected: 12/08/21 13:06

Matrix: Water

Date Received: 12/08/21 14:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			543783	12/28/21 11:06	LPS	TAL SL
Total/NA	Analysis	903.0		1	547121	01/19/22 22:45	ANW	TAL SL
Total/NA	Prep	PrecSep_0			547981	01/25/22 08:29	LPS	TAL SL
Total/NA	Analysis	904.0		1	548987	01/31/22 20:30	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	549037	02/01/22 15:09	SCB	TAL SL

## Client Sample ID: T02S

Lab Sample ID: 500-209450-3

Date Collected: 12/09/21 09:39

Matrix: Water

Date Received: 12/09/21 14:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			543783	12/28/21 11:06	LPS	TAL SL
Total/NA	Analysis	903.0		1	547121	01/19/22 22:45	ANW	TAL SL
Total/NA	Prep	PrecSep_0			547981	01/25/22 08:29	LPS	TAL SL
Total/NA	Analysis	904.0		1	548987	01/31/22 20:30	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	549037	02/01/22 15:09	SCB	TAL SL

## Client Sample ID: T08S

Lab Sample ID: 500-209450-4

Date Collected: 12/09/21 11:48

Matrix: Water

Date Received: 12/09/21 14:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			543783	12/28/21 11:06	LPS	TAL SL
Total/NA	Analysis	903.0		1	547121	01/19/22 22:45	ANW	TAL SL
Total/NA	Prep	PrecSep_0			547981	01/25/22 08:29	LPS	TAL SL
Total/NA	Analysis	904.0		1	548987	01/31/22 20:30	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	549037	02/01/22 15:09	SCB	TAL SL

# Lab Chronicle

Client: KPRG and Associates, Inc.  
Project/Site: Joliet #9 (Quarry) CCR 4Q21

Job ID: 500-209450-2

## Client Sample ID: T03S

Date Collected: 12/09/21 13:42

Date Received: 12/09/21 14:48

## Lab Sample ID: 500-209450-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			543783	12/28/21 11:06	LPS	TAL SL
Total/NA	Analysis	903.0		1	547121	01/19/22 22:46	ANW	TAL SL
Total/NA	Prep	PrecSep_0			547981	01/25/22 08:29	LPS	TAL SL
Total/NA	Analysis	904.0		1	548987	01/31/22 20:30	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	549037	02/01/22 15:09	SCB	TAL SL

## Client Sample ID: T05S

Date Collected: 12/10/21 09:55

Date Received: 12/10/21 14:07

## Lab Sample ID: 500-209450-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			543783	12/28/21 11:06	LPS	TAL SL
Total/NA	Analysis	903.0		1	547143	01/19/22 22:37	FLC	TAL SL
Total/NA	Prep	PrecSep_0			547981	01/25/22 08:29	LPS	TAL SL
Total/NA	Analysis	904.0		1	548987	01/31/22 20:32	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	549037	02/01/22 15:09	SCB	TAL SL

## Client Sample ID: G20S

Date Collected: 12/10/21 11:25

Date Received: 12/10/21 14:07

## Lab Sample ID: 500-209450-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			543783	12/28/21 11:06	LPS	TAL SL
Total/NA	Analysis	903.0		1	547121	01/19/22 22:46	ANW	TAL SL
Total/NA	Prep	PrecSep_0			547981	01/25/22 08:29	LPS	TAL SL
Total/NA	Analysis	904.0		1	548987	01/31/22 20:32	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	549037	02/01/22 15:09	SCB	TAL SL

## Client Sample ID: T01S

Date Collected: 12/13/21 10:42

Date Received: 12/13/21 15:10

## Lab Sample ID: 500-209450-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			543783	12/28/21 11:06	LPS	TAL SL
Total/NA	Analysis	903.0		1	547121	01/19/22 22:46	ANW	TAL SL
Total/NA	Prep	PrecSep_0			547981	01/25/22 08:29	LPS	TAL SL
Total/NA	Analysis	904.0		1	548987	01/31/22 20:32	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	549037	02/01/22 15:09	SCB	TAL SL

# Lab Chronicle

Client: KPRG and Associates, Inc.  
 Project/Site: Joliet #9 (Quarry) CCR 4Q21

Job ID: 500-209450-2

**Client Sample ID: G33S**

**Lab Sample ID: 500-209450-9**

Date Collected: 12/13/21 13:06

Matrix: Water

Date Received: 12/13/21 15:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			543783	12/28/21 11:06	LPS	TAL SL
Total/NA	Analysis	903.0		1	547142	01/19/22 22:42	FLC	TAL SL
Total/NA	Prep	PrecSep_0			547981	01/25/22 08:29	LPS	TAL SL
Total/NA	Analysis	904.0		1	548985	01/31/22 20:35	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	549037	02/01/22 15:09	SCB	TAL SL

**Client Sample ID: G31S**

**Lab Sample ID: 500-209450-10**

Date Collected: 12/13/21 14:14

Matrix: Water

Date Received: 12/13/21 15:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			543783	12/28/21 11:06	LPS	TAL SL
Total/NA	Analysis	903.0		1	547142	01/19/22 22:42	FLC	TAL SL
Total/NA	Prep	PrecSep_0			547981	01/25/22 08:29	LPS	TAL SL
Total/NA	Analysis	904.0		1	548985	01/31/22 20:35	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	549037	02/01/22 15:09	SCB	TAL SL

**Client Sample ID: R08S**

**Lab Sample ID: 500-209450-11**

Date Collected: 12/14/21 13:05

Matrix: Water

Date Received: 12/14/21 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			543783	12/28/21 11:06	LPS	TAL SL
Total/NA	Analysis	903.0		1	547142	01/19/22 22:42	FLC	TAL SL
Total/NA	Prep	PrecSep_0			547981	01/25/22 08:29	LPS	TAL SL
Total/NA	Analysis	904.0		1	548985	01/31/22 20:35	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	549037	02/01/22 15:09	SCB	TAL SL

**Client Sample ID: G30S**

**Lab Sample ID: 500-209450-12**

Date Collected: 12/15/21 09:03

Matrix: Water

Date Received: 12/15/21 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			543783	12/28/21 11:06	LPS	TAL SL
Total/NA	Analysis	903.0		1	547142	01/19/22 22:43	FLC	TAL SL
Total/NA	Prep	PrecSep_0			547981	01/25/22 08:29	LPS	TAL SL
Total/NA	Analysis	904.0		1	548985	01/31/22 20:36	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	549037	02/01/22 15:09	SCB	TAL SL



# Lab Chronicle

Client: KPRG and Associates, Inc.  
 Project/Site: Joliet #9 (Quarry) CCR 4Q21

Job ID: 500-209450-2

## Client Sample ID: R32S

Lab Sample ID: 500-209450-13

Date Collected: 12/15/21 10:44

Matrix: Water

Date Received: 12/15/21 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			543783	12/28/21 11:06	LPS	TAL SL
Total/NA	Analysis	903.0		1	547142	01/19/22 22:43	FLC	TAL SL
Total/NA	Prep	PrecSep_0			547981	01/25/22 08:29	LPS	TAL SL
Total/NA	Analysis	904.0		1	548985	01/31/22 20:36	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	549037	02/01/22 15:09	SCB	TAL SL

## Client Sample ID: DUP

Lab Sample ID: 500-209450-14

Date Collected: 12/15/21 10:44

Matrix: Water

Date Received: 12/15/21 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			543783	12/28/21 11:06	LPS	TAL SL
Total/NA	Analysis	903.0		1	547142	01/19/22 22:43	FLC	TAL SL
Total/NA	Prep	PrecSep_0			547981	01/25/22 08:29	LPS	TAL SL
Total/NA	Analysis	904.0		1	548985	01/31/22 20:36	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	549037	02/01/22 15:09	SCB	TAL SL

## Client Sample ID: G46S

Lab Sample ID: 500-209450-15

Date Collected: 12/15/21 12:19

Matrix: Water

Date Received: 12/15/21 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			543783	12/28/21 11:06	LPS	TAL SL
Total/NA	Analysis	903.0		1	547142	01/19/22 22:43	FLC	TAL SL
Total/NA	Prep	PrecSep_0			547981	01/25/22 08:29	LPS	TAL SL
Total/NA	Analysis	904.0		1	548985	01/31/22 20:36	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	549037	02/01/22 15:09	SCB	TAL SL

## Client Sample ID: G44S

Lab Sample ID: 500-209450-17

Date Collected: 12/16/21 09:07

Matrix: GW

Date Received: 12/16/21 14:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			543783	12/28/21 11:06	LPS	TAL SL
Total/NA	Analysis	903.0		1	547142	01/19/22 22:43	FLC	TAL SL
Total/NA	Prep	PrecSep_0			547981	01/25/22 08:29	LPS	TAL SL
Total/NA	Analysis	904.0		1	548985	01/31/22 20:36	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	549037	02/01/22 15:09	SCB	TAL SL

# Lab Chronicle

Client: KPRG and Associates, Inc.  
Project/Site: Joliet #9 (Quarry) CCR 4Q21

Job ID: 500-209450-2

## Client Sample ID: G45S

Lab Sample ID: 500-209450-18

Date Collected: 12/16/21 10:01

Matrix: GW

Date Received: 12/16/21 14:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			543783	12/28/21 11:06	LPS	TAL SL
Total/NA	Analysis	903.0		1	547142	01/19/22 22:43	FLC	TAL SL
Total/NA	Prep	PrecSep_0			547981	01/25/22 08:29	LPS	TAL SL
Total/NA	Analysis	904.0		1	548985	01/31/22 20:36	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	549037	02/01/22 15:09	SCB	TAL SL

## Client Sample ID: G48S

Lab Sample ID: 500-209450-19

Date Collected: 12/16/21 11:13

Matrix: GW

Date Received: 12/16/21 14:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			543783	12/28/21 11:06	LPS	TAL SL
Total/NA	Analysis	903.0		1	547143	01/19/22 22:38	FLC	TAL SL
Total/NA	Prep	PrecSep_0			547981	01/25/22 08:29	LPS	TAL SL
Total/NA	Analysis	904.0		1	548985	01/31/22 20:36	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	549037	02/01/22 15:09	SCB	TAL SL

## Client Sample ID: G47S

Lab Sample ID: 500-209450-20

Date Collected: 12/16/21 13:10

Matrix: GW

Date Received: 12/16/21 14:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			543783	12/28/21 11:06	LPS	TAL SL
Total/NA	Analysis	903.0		1	547143	01/19/22 22:38	FLC	TAL SL
Total/NA	Prep	PrecSep_0			547981	01/25/22 08:29	LPS	TAL SL
Total/NA	Analysis	904.0		1	548985	01/31/22 20:36	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	549037	02/01/22 15:09	SCB	TAL SL

### Laboratory References:

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

# Tracer/Carrier Summary

Client: KPRG and Associates, Inc.  
 Project/Site: Joliet #9 (Quarry) CCR 4Q21

Job ID: 500-209450-2

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

Matrix: GW

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (40-110)	
500-209450-17	G44S	68.2	
500-209450-18	G45S	96.5	
500-209450-19	G48S	83.8	
500-209450-20	G47S	83.6	
500-209450-20 DU	G47S	95.5	
<b>Tracer/Carrier Legend</b>			
Ba = Ba Carrier			

## 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)	
500-209450-1	T09S	71.7	
500-209450-2	T06S	83.1	
500-209450-3	T02S	34.3 X	
500-209450-4	T08S	77.3	
500-209450-5	T03S	88.1	
500-209450-6	T05S	92.4	
500-209450-7	G20S	78.3	
500-209450-8	T01S	63.1	
500-209450-9	G33S	41.2	
500-209450-10	G31S	140 X	
500-209450-11	R08S	97.7	
500-209450-12	G30S	74.2	
500-209450-13	R32S	64.9	
500-209450-14	DUP	93.7	
500-209450-15	G46S	90.7	
LCS 160-543783/1-A	Lab Control Sample	86.6	
MB 160-543783/22-A	Method Blank	100	
<b>Tracer/Carrier Legend</b>			
Ba = Ba Carrier			

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

Matrix: GW

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (40-110)	Y (40-110)
500-209450-17	G44S	91.9	84.5
500-209450-18	G45S	96.0	84.1
500-209450-19	G48S	97.2	86.0
500-209450-20	G47S	94.4	86.7
<b>Tracer/Carrier Legend</b>			
Ba = Ba Carrier			
Y = Y Carrier			

# Tracer/Carrier Summary

Client: KPRG and Associates, Inc.  
Project/Site: Joliet #9 (Quarry) CCR 4Q21

Job ID: 500-209450-2

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)
500-209450-1	T09S	98.0	84.9
500-209450-2	T06S	85.4	86.7
500-209450-3	T02S	43.2	81.1
500-209450-4	T08S	87.9	82.2
500-209450-5	T03S	94.4	86.4
500-209450-6	T05S	58.8	86.4
500-209450-7	G20S	96.0	89.0
500-209450-8	T01S	96.0	87.5
500-209450-9	G33S	71.7	86.7
500-209450-10	G31S	92.9	88.6
500-209450-11	R08S	97.0	80.0
500-209450-12	G30S	54.5	86.0
500-209450-13	R32S	93.4	87.1
500-209450-14	DUP	97.7	87.1
500-209450-15	G46S	93.7	84.9
LCS 160-547981/1-A	Lab Control Sample	88.9	80.7
LCSD 160-547981/2-A	Lab Control Sample Dup	96.7	84.5
MB 160-547981/22-A	Method Blank	79.0	83.0

### Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier