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

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

Table 1. Groundwater Analytical 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
G4SS 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	< 0.0005	< 0.005	< 0.001	< 0.0005	0.028	< 0.0002	0.0073	1.74	< 0.0025	< 0.002
	3/16/2022	< 0.5	130	86	0.36	7.35	130	700	< 0.003	0.0018	0.035	< 0.001	< 0.001	< 0.01	< 0.001	< 0.0005	0.075	< 0.0002	0.0092	2.92	< 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	1.101	< 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	0.0011	< 0.0005	0.017	< 0.0002	0.037	1.18	< 0.0025	< 0.002
	8/25/2016	1.1	110	99	0.20	7.32	180	880	< 0.003	< 0.001	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	0.0012	< 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	0.0013	< 0.0005	< 0.05	< 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	B 0.088	^< 0.001	< 0.0005	< 0.005	0.0015	0.0023	0.019	< 0.0002	0.13	1.21	< 0.0025	< 0.002
	7/7/2017	1.1	100	F1 71	< 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	0.0013	< 0.0005	0.018	< 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	0.0013	< 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	F1 170	0.27	7.01	280	960	NA	0.0013	0.11	NA	NA	NA	0.00015	< 0.0005	0.031	NA	0.14	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	0.029	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	F1 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	< 0.002
	3/14/2022	3.6	31	110	0.22	7.37	280	1000	< 0.003	0.016	0.041	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.032	< 0.0002	0.93	1.44	< 0.0025	< 0.002
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	F1 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	7.60	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
	5/25/2017	12	250	90	0.17	7.56	340	830	< 0.006	0.0028	0.092	^< 0.002	< 0.001	< 0.01	< 0.002	< 0.001	0.250	< 0.0002	0.64	0.821	0.021	< 0.004
	7/6/2017	6.3	140	87	0.17	7.62	350	830	< 0.003	0.002	0.052	< 0.001	< 0.0005	< 0.005	< 0.001	^< 0.0005	0.140	< 0.0002	0.35	1.15	0.0054	^< 0.002
	9/25/2017	7.3	140	81	0.15	7.57	390	840	< 0.003	0.002	0.048	< 0.001	< 0.0005	< 0.005	< 0.001	0.00067	0.130	< 0.0002	0.38	1.27	0.0079	< 0.002
	11/21/2017	7.3	130	89	0.15	8.05	380	800	< 0.003	0.0017	0.046	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.140	< 0.0002	0.34	1.09	0.015	< 0.002
	3/8/2018	7.4	150	83	0.14	8.62	420	850	< 0.003	0.0016	0.05	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.150	< 0.0002	0.37	1.55	0.012	< 0.002
	5/18/2018	7.7	140	82	0.14	8.25	320	920	NA	0.0013	0.046	NA	NA	NA	< 0.001	< 0.0005	0.150	NA	0.35	1.22	0.017	NA
	12/13/2018	7.7	140	79	0.15	8.11	240	800	NA	0.0012	0.046	NA	NA	NA	< 0.001	< 0.0005	0.150	NA	0.370	1.450	0.0170	NA
	6/19/2019	8.5	140	83	0.14	8.10	360	820	NA	0.0013	0.044	NA	NA	NA	< 0.001	< 0.0005	0.160	NA	0.370	1.5	0.0150	NA
	11/11/2019	6.4	140	84	0.15	7.91	360	730	NA	< 0.010	0.044	NA	NA	NA	< 0.001	< 0.0005	0.15	NA	0.340	1.31	0.0130	NA
	6/26/2020	7.9	140	83	0.15	8.32	370	750	NA	0.0011	0.043	NA	NA	NA	< 0.001	< 0.0005	0.14	NA	0.36	1.68	0.017	NA
	12/14/2020	8.0	130	88	0.18	8.15	400	700	NA	0.0015	0.040	NA	NA	NA	< 0.001	< 0.0005	0.14	NA	0.38	1.53	0.0081	NA
	6/23/2021	7.6	140	79	0.16	8.07	430	810	< 0.003	0.0011	0.042	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.15	H < 0.0002	0.37	1.46	0.011	< 0.002
	9/27/2021	0.41	150	80	0.15	8.27	430	740	< 0.003	0.0015	0.042	^+< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.0079	< 0.0002	0.40	1.23	0.013	< 0.002
	12/14/2021	7.80	150	77	0.15	8.37	410	830	< 0.003	< 0.001	0.042	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.14	< 0.0002	0.39	1.81	0.012	< 0.002
	3/11/2022	7.7	130	75	0.16	8.21	420	840	< 0.003	0.0014	0.039	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.13	< 0.0002	0.37	2.33	0.0027	< 0.002
G20S down-gradient	11/19/2015	1.2	59	12	0.82	7.73	110	410	< 0.003	< 0.001	0.049	^< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.036	< 0.0002	0.0068	2.078	< 0.0025	< 0.002
	5/11/2016	1.2	53	12	0.81	7.52	77	410	< 0.003	< 0.001	0.049	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.037	0.00027	0.011	2.52	< 0.0025	< 0.002
	6/29/2016	1.2	54	12	0.82	7.38	69	460	< 0.003	< 0.001	0.051	< 0.001	< 0.0005	< 0.005	0.0011	< 0.0005	0.04	< 0.0002	0.014	2.79	< 0.0025	< 0.002
	8/23/2016	1.3	56	13	0.81	7.41	67	420	< 0.003	< 0.001	0.047	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.039	< 0.0002	0.017	3.67	< 0.0025	< 0.002
	11/17/2016	1.3	59	11	0.74	7.44	55	420	< 0.003	< 0.001	0.056	< 0.001	< 0.0005	< 0.005	0.0018	< 0.0005	0.042	< 0.0002	0.019	1.98	< 0.0025	< 0.002
	2/13/2017	1.2	54	13	0.69	7.30	93	400	< 0.003	< 0.001	0.046	< 0.001	< 0.0005	< 0.005	< 0.0010	< 0.0005	0.04	< 0.0002	0.018	2.44	< 0.0025	< 0.002
	5/24/2017	1.3	55	12	0.81	7.45	66	430	< 0.003	< 0.001	0.046	^< 0.001	< 0.0005	< 0.005	< 0.0010	< 0.0005	0.038	< 0.0002	0.017	2.15	< 0.0025	< 0.002
	7/5/2017	1.3	61	12	0.76	7.37	70	400	< 0.003	< 0.001	0.054	< 0.001	< 0.0005	< 0.005	0.0021	^< 0.0005	0.04	< 0.0002	0.019	1.83	< 0.0025	^< 0.002
	9/25/2017	1.3	60	12	0.78	7.30	76	440	< 0.003	< 0.001	0.051	< 0.001	< 0.0005	< 0.005	0.0015	< 0.0005	0.036	< 0.0002	0.022	2.19	< 0.0025	< 0.002
	11/20/2017	1.3	59	13	0.78	7.06	85	390	< 0.003	< 0.001	0.051	< 0.001	< 0.0005	< 0.005	0.0022	< 0.0005	0.041	< 0.0002	0.021	2.50	< 0.0025	< 0.002
	3/6/2018	1.4	63	12	0.76	7.32	88	460	< 0.003	0.049	^< 0.001	< 0.0005	< 0.005	< 0.005	< 0.0010	< 0.0005	0.042	< 0.0002	0.021	2.83	< 0.0025	< 0.002
	5/16/2018	1.2	61	12	0.75	7.06	87	410	NA	< 0.001	0.049	NA	NA	NA	0.0024	^< 0.0005	0.04	NA	0.019	2.12	< 0.0025	NA
	12/7/2018	1.2	58	12	0.76	7.41	65	480	NA	< 0.001	0.048	NA	NA	NA	0.0010	0.0048	0.042	NA	0.0230	2.26	< 0.0025	NA
	6/18/2019	1.3	62	13	0.75	7.18	65	440	NA	< 0.001	0.051	NA	NA	NA	0.0018	< 0.0005	0.041	NA	0.017	2.11	< 0.0025	NA
	11/5/2019	1.2	58	13	0.74	7.88	71	410	NA	< 0.010	0.050	NA	NA	NA	0.0023	< 0.0005	0.044	NA	0.021	1.74	< 0.0100	NA
	6/24/2020	1.3	58	13	0.79	7.81	63	360	NA	< 0.010	0.045	NA	NA	NA	< 0.001	< 0.0005	0.038	NA	0.019	2.07	< 0.0025	NA
	12/11/2020	1.4	61	14	0.89	7.41	69	390	NA	< 0.001	0.043	NA	NA	NA	< 0.001	^+< 0.0005	0.042	NA	0.022	2.16	< 0.0025	NA
	6/23/2021	1.3	60	14	0.77	7.46	70	390	< 0.003	< 0.001	0.047	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.047	H < 0.0002	0.022	2.06	< 0.0025	< 0.002
	9/23/2021	1.3	57	14	0.76	7.79	69	320	< 0.003	< 0.001	0.050	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.042	< 0.0002	0.024	1.97	< 0.0025	< 0.002
	12/10/2021	1.4	60	14	0.77	8.33	69	360	< 0.003	0.002	0.045	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.041	< 0.0002	0.025	2.26	< 0.0025	< 0.002
	3/15/2022	1.4	110	15	0.75	7.49	74	500	< 0.003	0.001	0.083	< 0.001	< 0.0005	< 0.005	0.001	< 0.0005	0.025	< 0.0002	0.28	2.34	< 0.0025	< 0.002
G30S down-gradient	11/20/2015	5.80	63	190	1.3	7.46	580	1,000	< 0.003	0.014	0.041	^< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.022	< 0.0002	0.33	1.484	< 0.0025	< 0.002
	5/10/2016	5.4	53	190	1.30	7.68	390	1,100	< 0.003	0.017	0.039	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.021	< 0.0002	0.3	1.41	< 0.0025	< 0.002
	6/30/2016	5.2	60	F1 180	1.30	7.73	410	990	< 0.003	0.013	0.04	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.023	< 0.0002	0.3	1.17	< 0.0025	< 0.002
	8/25/2016	5.7	59	F1 180	1.30	7.70	390	1,100	< 0.003	0.015	0.039	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.02	< 0.0002	0.31	1.87	< 0.0025	< 0.002
	11/18/2016	6.4	57	170	1.2	8.04	320	1,100	< 0.003	0.016	0.043	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.023	< 0.0002	0.33	2.36	< 0.0025	< 0.002
	2/14/2017	5.4	62	190	1.2	7.70	450	1,000	< 0.003	0.011	0.042	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.021	< 0.0002	0.24	1.84	< 0.0025	< 0.002
	5/25/2017	11	110	180	1.4	7.67	430	1,100	< 0.006	0.019	0.078	^< 0.002	< 0.001	< 0.01	< 0.002	< 0.001	0.04	< 0.0002	0.45	1.76	< 0.005	< 0.004
	7/7/2017	6.6	54	190	1.3	7.48	410	1,100	< 0.003	0.011	0.039	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.021	< 0.0002	0.26	1.59	< 0.0025	< 0.002
	9/26/2017	6.7	62	190	1.3	8.07	460	1,100	< 0.003	0.011	0.041	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.021	< 0.0002	0.2	1.41	< 0.0025	< 0.002
	11/20/2017	6.1	52	210	1.3	7.77	440	1,100	< 0.003	0.01	0.04	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.019	< 0.0002	0.19	1.73	< 0.0025	< 0.002
	3/7/2018	5.1	56	200	1.3	7.97	470	1,100	< 0.003	0.011	0.043	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.019	< 0.0002	0.14	1.94	< 0.0025	< 0.002
	5/17/2018	5.7	55	210	1.2	7.77	540	1,100	NA	0.011	0.043	NA	NA	NA	< 0.001	< 0.0005	0.021	NA	0.13	1.57	F1 < 0.0025	NA
	12/15/2018	5.8	57	200	1.2	7.99	200	1,100	NA	0.0069	0.041	NA	NA	NA	< 0.001	< 0.0005	0.022	NA	0.065	2.04	< 0.0025	NA
	6/26/2019	5.4	57	220	1.1	7.98	350	1,100	NA	0.0074	0.041	NA	NA	NA	< 0.001	< 0.0005	0.018	NA	0.065	1.18	F1 < 0.0025	NA
	11/6/2019	4.5	58	210	1.1	7.99	350	1,100	NA	0.01	0.041	NA	NA	NA	< 0.001	< 0.0005	0.019	NA	0.013	1.620	0.01	NA
	6/25/2020	4.9	57	220	1.1	8.33	410	1,100	NA	0.0053	0.042	NA	NA	NA	< 0.001	< 0.0005	0.019	NA	0.02	2.19	< 0.0025	NA
	12/7/2020	5.3	57	220	1.2	7.83	450	1,100	NA	0.0044	0.043	NA	NA	NA	< 0.001	< 0.0005	0.024	NA	0.018	2.16	< 0.0025	NA
	6/30/2021	B 5.9	61	200	1.1	7.88	470	1,100	< 3.0	< 0.017	0.048	^1+ < 1.0	< 0.5	< 5.0	< 0.001	< 0.0005	0.024	< 0.0002	0.017	2.57	< 0.0025	< 2.0
	9/24/2021	0.26	60	210	0.99	8.16	460	1,100	< 0.003	0.0038	0.047	^+ < 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.024	< 0.0002	0.012	2.23	< 0.0025	< 0.002
	12/15/2021	5.1	63	200	1	7.95	450	1,200	< 0.003	0.0028	0.045	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.022	< 0.0002	0.01	2.45	< 0.0025	< 0.002
	3/15/2022	4.9	57	200	1.0	7.91	480	1,300	< 0.003	< 0.001	0.047	< 0.001	< 0.0005	< 0.005	0.0012	< 0.0005	0.039	< 0.0002	0.017	1.34	< 0.0025	< 0.002

Notes: All units are in mg/l except pH is in standard units and radium is in pCi/L.
B - Compound was found in the blank and sample.
H - Sample was prepped or analyzed beyond the specified holding time
NA - Not analyzed. No confirmation resample required.

^ - Instrument related QC is outside acceptance limits.
* - LCS or LCSD is outside acceptance limits.
^1+ or ^+ - Initial or Continuing Calibration Verification limits is outside acceptable limits, high biased.
F1 - MS and/or MSD Recovery outside of limits.

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	^ < 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	< 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	< 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	^ < 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	< 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	F1 4.0	120	99	0.34	7.39	340	830	< 0.003	0.002	0.039	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.064	< 0.0002	0.57	1.76	F1 < 0.0025	< 0.002
	5/25/2017	8.3	240	88	0.42	7.54	320	850	< 0.006	0.0042	0.075	^ < 0.002	< 0.001	< 0.01	< 0.002	< 0.001	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	0.04	< 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	< 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	< 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	< 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	NA	< 0.001	< 0.0005	0.1	NA	0.64	2.22	< 0.0025	NA
	12/13/2018	3.5	120	F1 72	0.26	7.43	280	880	NA	0.0019	0.043	NA	NA	NA	< 0.001	0.0017	0.080	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	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	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	NA	< 0.001	< 0.0005	0.11	NA	0.64	3.92	< 0.0025	NA
	12/16/2020	6.1	150	F1 66	0.34	7.43	430	840	NA	0.0025	0.038	NA	NA	NA	< 0.001	^+ < 0.0005	0.11	NA	0.75	3.22	F1 < 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	< 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	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.097	< 0.0002	0.75	2.68	< 0.0025	< 0.002
	3/16/2022	4	9.6	50	0.31	7.56	430	1100	< 0.003	0.037	0.012	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.043	< 0.0002	0.51	2.61	< 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	^ < 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	< 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	< 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	^ < 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	< 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	< 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	^ < 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	< 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	< 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	< 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	< 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	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	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	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	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	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	NA	< 0.001	< 0.0005	0.03	NA	0.28	1.18	< 0.0025	NA
	6/302021	B 1.9	120	65	0.21	7.00	170	730	< 3.0	< 0.001	0.058	^1+ < 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	^+ < 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	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.027	< 0.0002	0.29	1.12	< 0.0025	< 0.002
	3/15/2022	2.1	58	63	0.21	7.24	180	860	< 0.003	0.0025	0.045	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.022	< 0.0002	0.0093	0.98	< 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	^ < 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	< 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	< 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	^ < 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.12	< 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	< 0.001	< 0.0005	< 0.005	< 0.0010	< 0.0005	0.13	< 0.0002	1.8	< 0.601	< 0.0025	< 0.002
	2/16/2017	6.1	100	150	0.41	7.54	410	1,000	< 0.003	0.0024	0.053	< 0.001	< 0.0005	< 0.005	< 0.0010	< 0.0005	0.091	< 0.0002	1.4	1.07	< 0.0025	< 0.002
	5/22/2017	6.8	100	130	0.44	7.37	350	970	< 0.003	0.0033	B 0.046	^ < 0.001	< 0.0005	< 0.005	< 0.0010	< 0.0005	0.11	< 0.0002	1.4	0.683	< 0.0025	< 0.002
	7/6/2017	4.9	100	150	0.41	7.33	290	880	< 0.003	0.0034	0.044	< 0.001	< 0.0005	< 0.005	0.0010	^ < 0.0005	0.076	< 0.0002	0.92	0.709	< 0.0025	^ < 0.002
	9/27/2017	4.9	88	160	0.40	7.28	270	890	< 0.003	0.0043	0.031	< 0.001	< 0.0005	< 0.005	< 0.0010	< 0.0005	0.091	< 0.0002	0.63	0.754	< 0.0025	< 0.002
	11/21/2017	5.3	78	170	0.43	7.73	270	800	< 0.003	0.0055	0.032	< 0.001	< 0.0005	< 0.005	< 0.0010	< 0.0005	0.11	< 0.0002	0.68	0.776	< 0.0025	< 0.002
	3/8/2018	5.9	110	140	0.41	7.75	350	940	< 0.003	0.0039	0.049	< 0.001	< 0.0005	< 0.005	< 0.0010	0.00053	0.093	< 0.0002	0.82	1.29	< 0.0025	< 0.002
	5/18/2018	5.9	110	120	0.40	7.66	260	1,100	NA	0.0028	0.048	NA	NA	NA	< 0.0010	< 0.0005	0.073	NA	0.84	1.07	< 0.0025	NA
	12/11/2018	7.60	120	110	0.38	7.66	270	1,100	NA	0.0023	0.055	NA	NA	NA	< 0.001	< 0.0005	0.096	NA	1.20	1.22	< 0.0025	NA
	6/19/2019	13	89	69	0.33	7.64	440	1,000	NA	0.014	0.040	NA	NA	NA	< 0.001	< 0.0005	0.22	NA	1.80	1.37	< 0.0025	NA
	11/13/2019	10	120	68	0.37	7.68	470	1,000	NA	< 0.050	0.041	NA	NA	NA	< 0.001	< 0.0050	0.11	NA	1.60	1.3	< 0.0100	NA
	6/29/2020	13	96	74	0.34	8.06	510	980	NA	0.075	0.05	NA	NA	NA	< 0.001	< 0.0050	0.23	NA	1.7	2.780	< 0.0025	NA
	12/15/2020	10	120	73	0.35	7.74	540	1,000	NA	0.27	0.075	NA	NA	NA	< 0.001	< 0.00085	0.21	NA	1.5	2.16	< 0.0025	NA
	6/30/2021	B 15	120	67	0.30	7.40	590	1,000	< 3.0	0.044	0.05	^1+ < 1.0	< 0.5	< 5.0	< 0.001	< 0.0005	0.21	< 0.0002	1.6	2.17	< 0.0025	< 2.0
	9/27/2021	0.24	130	66	0.25	7.80	560	1,000	< 0.003	0.046	0.043	^+ < 0.001	< 0.0005	< 0.005	< 0.0010	< 0.0005	0.0042	< 0.0002	1.6	1.54	< 0.0025	< 0.002
	12/15/2021	11	140	66	0.27	7.53	500	990	< 0.003	0.18	0.067	< 0.001	< 0.0005	< 0.005	< 0.0010	< 0.0005	0.16	< 0.0002	1.4	2.61	< 0.0025	< 0.002
	3/11/2022	12	130	54	0.34	7.38	600	1,200	< 0.003	0.17	0.069	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.13	< 0.0002	1.6	3.65	< 0.0025	< 0.002
G47S down-gradient	11/23/2015	4.6	11	160	0.45	9.22	480	700	< 0.003	0.018	0.018	^ < 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.036	< 0.0002	0.32	0.898	0.003	< 0.002
	5/6/2016	5.0	7.8	140	0.72	9.86	410	910	< 0.003	0.034	0.017	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.033	< 0.0002	0.41	0.736	0.0033	< 0.002
	7/1/2016	6.4	8.4	150	0.68	9.32	340	860	< 0.003	0.022	0.019	< 0.001	^ < 0.0005	< 0.005	< 0.001	< 0.0005	0.038	< 0.0002	0.53	1.01	< 0.0025	< 0.002
	8/24/2016	9.3	9.2	140	0.67	9.19	300	830	< 0.003	0.017	0.023	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.028	< 0.0002	0.41	1.06	< 0.0025	< 0.002
	11/16/2016	15	1.3	F1 150	1.8	10.08	620	1,700	< 0.003	0.14	0.0091	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.015	< 0.0002	1.4	< 1.38	0.0038	< 0.002
	2/15/2017	7.6	4.4	160	1.1	9.26	540	1,200	< 0.003	0.059	0.016	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.05	< 0.0002	0.57	0.716	0.0035	< 0.002
	5/23/2017	18	0.93	160	2.2	10.03	720	1,800	< 0.003	0.18	0.0081	^ < 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.013	< 0.0002	1.3	< 0.361	0.0025	< 0.002
	7/10/2017	18	1.2	150	2.1	10.06	780	1,800	< 0.003	0.17	0.0085	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.013	< 0.0002	1.2	0.733	< 0.0025	< 0.002
	9/27/2017	18	1.1	150	2.0	10.15	750	1,900	< 0.003	0.21	0.0085	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.014	< 0.0002	1.3	0.836	0.0027	< 0.002
	11/22/2017	21	1.1	150	2.1	10.56	710	1,800	< 0.003	0.23	0.009	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.012	< 0.0002	1.5	0.692	0.0044	< 0.002
	3/8/2018	18	1.1	170	2.1	10.67	780	1,900	< 0.003	0.25	0.009	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.014	< 0.0002	1.4	0.790	0.0042	< 0.002
	5/18/2018	3.7	1.1	160	1.7	7.79	570	1,800	NA	0.23	0.0087	NA	NA	NA	< 0.001	< 0.0005	0.015	NA	1.5	1.01	0.0039	NA
	12/11/2018	13	2.8	140	1.1	10.14	440	1,300	NA	0.140	0.0110	NA	NA	NA	< 0.001	< 0.0005	0.023	NA	1.10	0.597	0.0031	NA
	6/28/2019	13	2.9	130	1.3	9.95	450	1,400	NA	0.13	0.0120	NA	NA	NA	< 0.001	< 0.0005	0.028	NA	1.00	0.566	< 0.0025	NA
	11/7/2019	4.3	15	140	0.55	8.39	410	1,100	NA	0.029	0.0170	NA	NA	NA	< 0.001	< 0.0050	0.053	NA	0.38	1.02	< 0.0100	NA
	6/30/2020	5.2	16	120	0.59	9.04	F1 440	1,000	NA	0.037	0.015	NA	NA	NA	< 0.001	< 0.0050	0.052	NA	0.46	1.240	0.004	NA
	12/7/2020	7.6	11	120	1.1	9.13	500	1,100	NA	0.066	0.012	NA	NA	NA	< 0.001	< 0.0005	0.047	NA	0.62	< 0.466	< 0.003	NA
	6/24/2021	B 6.1	12	110	0.66	8.68	470	1,000	< 0.003	0.04	0.013	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.05	H < 0.0002	0.48	0.871	0.0027	< 0.002
	9/22/2021	6.5	11	100	0.62	8.83	440	910	< 0.003	0.041	0.014	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.053	< 0.0002	0.52	0.764	0.0030	< 0.002
	12/16/2021	6.7	11	98	0.65	8.63	440	900	< 0.003	0.039	0.014	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.046	< 0.0002	0.54	1.16	0.0031	< 0.002
	3/16/2022	6.9	40	96	0.66	8.94	450	1,200	< 0.003	0.00074	0.021	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.021	< 0.0002	0.48	2.12	< 0.0025	< 0.002
G48S down-gradient	11/20/2015	11.00	6.9	120	1.5	9.08	760	1,100	< 0.003	0.03	0.015	^ < 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.015	< 0.0002	1.4	0.8512	< 0.0025	< 0.002
	5/5/2016	9.30	5.9	120	1.5	9.53	560	1,200	< 0.003	0.046	0.014	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.016	< 0.0002	1.2	0.800	< 0.0025	< 0.002
	7/1/2016	9.50	4.2	120	1.4	9.60	480	1,100	< 0.003	0.038	0.011	< 0.001	^ < 0.0005	< 0.005	< 0.001	< 0.0005	0.013	< 0.0002	1.2	1.01	< 0.0025	< 0.002
	8/24/2016	10.00	5.5	120	1.4	9.31	420	1,100	< 0.003	0.032	0.014	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.012	< 0.0002	1.1	1.16	< 0.0025	< 0.002
	11/16/2016	9.80	10	110	1.4	9.61	340	1,100	< 0.003	0.03	0.018	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.016	< 0.0002	1.1	1.65	< 0.0025	< 0.002
	2/15/2017	8.40	8.3	120	1.2	9.63	490	1,100	< 0.003	0.038	0.015	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.014	< 0.0002	0.79	0.824	< 0.0025	< 0.002
	5/23/2017	9.20	8.1	120	1.3	9.49	470	1,100	< 0.003	0.03	0.014	^ < 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.016	< 0.0002	0.95	0.661	< 0.0025	< 0.002
	7/10/2017	7.80	11	110	1.2	8.77	460	1,000	< 0.003	0.022	0.017	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.016	< 0.0002	0.84	1.39	< 0.0025	< 0.002
	9/27/2017	7.60	18	100	1.1	8.94	480	1,100	< 0.003	0.024	0.019	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.019	< 0.0002	0.72	1.32	< 0.0025	< 0.002
	11/22/2017	8.60	12	120	1.2	9.42	450	1,000	< 0.003	0.027	0.015	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.016	< 0.0002	0.77	1.27	< 0.0025	< 0.002
	3/8/2018	5.30	62	100	0.85	8.13	450	1,000	< 0.003	0.017	0.031	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.023	< 0.0002	0.51	2.30	< 0.0025	< 0.002
	5/18/2018	5.90	53	100	0.92	7.79	370	1,100	NA	0.022	0.023	NA	NA	NA	< 0.001	< 0.0005	0.023	NA	0.49	0.962	< 0.0025	NA
	12/11/2018	7.30	23	110	1.1	8.42	310	1,000	NA	0.023	0.016	NA	NA	NA	< 0.001	0.0049	0.019	NA	0.79	0.921	< 0.0025	NA
	6/25/2019	7.10	28	110	1.0	8.07	390	1,000	NA	0.022	0.018	NA	NA	NA	< 0.001	< 0.0005	0.022	NA	0.73	1.33	< 0.0025	NA
	11/7/2019	5.80	18	100	0.89	7.83	380	1,000	NA	0.012	0.027	NA	NA	NA	< 0.001	< 0.005	0.019	NA	0.59	1.24	< 0.01	NA
	6/26/2020	7.10	16	110	1.0	9.20	400	940	NA	0.022	0.017	NA	NA	NA	< 0.001	< 0.005	0.021	NA	0.54	0.971	< 0.0025	NA
	12/7/2020	6.00	29	110	1.1	8.4	410	890	NA	0.016	0.02	NA	NA	NA	< 0.001	< 0.0005	0.026	NA	0.41	2.00	< 0.0025	NA
	6/24/2021	B 4.30	96	96	0.71	7.27	480	1,100	< 0.003	0.0026	0.035	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.032	H < 0.0002	0.26	3.89	< 0.0025	< 0.002
	9/22/2021	5.40	45	100	0.74	7.68	440	1,000	< 0.003	0.0061	0.027	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.030	< 0.0002	0.46	2.15	< 0.0025	< 0.002
	12/16/2021	6.00	46	99	0.91	7.02	430	880	< 0.003	0.0076	0.023	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.024	< 0.0002	0.52	1.87	< 0.0025	< 0.002
	3/16/2022	5.80	130	99	0.96	7.87	430	1,100	< 0.003	< 0.001	0.064	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.024	< 0.0002	0.27	2.56	< 0.0025	< 0.002

Notes: All units are in mg/l except pH is in standard units and radium is in pCi/L

B - Compound was found in the blank and sample.

H - Sample was prepped or analyzed beyond the specified holding time

NA - Not analyzed. No confirmation resample required.

^ - Instrument related QC is outside acceptance limits.

* - LCS or LCSD is outside acceptance limits.

^1+ or ^+ - Initial or Continuing Calibration Verification limits is outside acceptable limits, high biased.

F1 - MS and/or MSD Recovery outside of limits.

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
	3/16/2022	0.98
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
	3/14/2022	0.65
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
	3/11/2022	0.52
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
	3/15/2022	0.46
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
	3/15/2022	0.45

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
	3/16/2022	1.31
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
	3/15/2022	1.09
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
	3/11/2022	99.3
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
	3/16/2022	0.26
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
	3/16/2022	0.31

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ANALYTICAL REPORT

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

Laboratory Job ID: 500-213350-1
Client Project/Site: Joliet #9 (Quarry) CCR 1Q22
Revision: 1

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

Attn: Richard Gnat

Diana Mockler

Authorized for release by:
4/4/2022 1:26:49 PM

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

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Case Narrative

Client: KPRG and Associates, Inc.
Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-1

Job ID: 500-213350-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative
500-213350-1

Comments
No additional comments.

Revision
The report being provided is a revision of the original report sent on 3/25/2022. The report (revision 1) is being revised due to: Client requesting the -1 and -3 subjobs get merged into 1 job.

Receipt
The samples were received on 3/8/2022 2:50 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 6 coolers at receipt time were 1.1º C, 1.4º C, 2.1º C, 2.3º C, 2.8º C and 3.1º C.

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

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

Job ID: 500-213350-3

Laboratory: Eurofins Chicago

Narrative

Job Narrative
500-213350-3

Comments
No additional comments.

Receipt
The samples were received on 3/8/2022 2:50 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 6 coolers at receipt time were 1.1º C, 1.4º C, 2.1º C, 2.3º C, 2.8º C and 3.1º C.

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

Method Summary

Client: KPRG and Associates, Inc.
Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-1

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 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 1Q22

Job ID: 500-213350-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-213350-1	T09S	Water	03/08/22 09:53	03/08/22 14:50
500-213350-2	T09S DUP	Water	03/08/22 09:53	03/08/22 14:50
500-213350-3	T06S	Water	03/08/22 12:55	03/08/22 14:50
500-213350-4	T05S	Water	03/10/22 10:07	03/10/22 14:50
500-213350-5	T02S	Water	03/10/22 12:49	03/10/22 14:50
500-213350-6	G31S	Water	03/11/22 09:44	03/11/22 15:27
500-213350-7	G46S	Water	03/11/22 10:56	03/11/22 15:27
500-213350-8	R08S	Water	03/11/22 12:35	03/11/22 15:27
500-213350-9	G33S	Water	03/11/22 13:32	03/11/22 15:27
500-213350-10	T01S	Water	03/14/22 09:52	03/14/22 14:56
500-213350-11	T08S	Water	03/14/22 11:49	03/14/22 14:56
500-213350-12	T03S	Water	03/14/22 13:45	03/14/22 14:56
500-213350-13	G20S	Water	03/15/22 09:30	03/15/22 14:52
500-213350-14	G30S	GW	03/15/22 11:43	03/15/22 14:52
500-213350-15	G44S	Water	03/15/22 13:49	03/15/22 14:52
500-213350-16	G48S	Water	03/16/22 09:28	03/16/22 14:55
500-213350-17	G47S	Water	03/16/22 10:55	03/16/22 14:55
500-213350-18	R32S	Water	03/16/22 12:44	03/16/22 14:55
500-213350-19	G45S	Water	03/16/22 13:31	03/16/22 14:55
500-213350-20	T04S	Water	03/16/22 14:10	03/16/22 14:55

Client: KPRG and Associates, Inc.
Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-1

Client Sample ID: T09S

Date Collected: 03/08/22 09:53
Date Received: 03/08/22 14:50

Lab Sample ID: 500-213350-1

Matrix: Water

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		03/18/22 07:53	03/18/22 16:23	1
Arsenic	**0.0030**		0.0010		mg/L		03/18/22 07:53	03/18/22 16:23	1
Barium	**0.064**		0.0025		mg/L		03/18/22 07:53	03/18/22 16:23	1
Beryllium	<0.0010		0.0010		mg/L		03/18/22 07:53	03/18/22 16:23	1
Boron	**13**		2.5		mg/L		03/18/22 07:53	03/21/22 12:59	50
Cadmium	<0.00050		0.00050		mg/L		03/18/22 07:53	03/18/22 16:23	1
Calcium	**130**		0.20		mg/L		03/18/22 07:53	03/18/22 16:23	1
Chromium	<0.0050		0.0050		mg/L		03/18/22 07:53	03/18/22 16:23	1
Cobalt	**0.0012**		0.0010		mg/L		03/18/22 07:53	03/18/22 16:23	1
Lead	**0.00058**		0.00050		mg/L		03/18/22 07:53	03/18/22 16:23	1
Lithium	**0.13**		0.0020		mg/L		03/18/22 07:53	03/18/22 16:23	1
Molybdenum	**1.5**		0.0050		mg/L		03/18/22 07:53	03/18/22 16:23	1
Selenium	<0.0025		0.0025		mg/L		03/18/22 07:53	03/18/22 16:23	1
Thallium	<0.0020		0.0020		mg/L		03/18/22 07:53	03/18/22 16:23	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/16/22 10:10	03/17/22 09:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**1200**		10		mg/L			03/11/22 03:19	1
Chloride	**60**		4.0		mg/L			03/22/22 11:31	2
Fluoride	**0.39**		0.10		mg/L			03/14/22 12:03	1
Sulfate	**590**		100		mg/L			03/22/22 13:12	20

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	**95.81**				ft			03/08/22 09:53	1
Depth to Water (ft from MP)	**98.21**				ft			03/08/22 09:53	1
Elevation of well (ft from MP)	**603.69**				ft			03/08/22 09:53	1
Field pH	**7.32**				SU			03/08/22 09:53	1
Field Temperature	**45.5**				Degrees F			03/08/22 09:53	1
Ground Water Elevation	**505.48**				ft			03/08/22 09:53	1
Specific Conductance	**1313**				umhos/cm			03/08/22 09:53	1
Well bottom elevation	**444.80**				ft			03/08/22 09:53	1
Field Turbidity	**14.70**				NTU			03/08/22 09:53	1

Client: KPRG and Associates, Inc.
Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-1

Client Sample ID: T09S DUP

Date Collected: 03/08/22 09:53
Date Received: 03/08/22 14:50

Lab Sample ID: 500-213350-2

Matrix: Water

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		03/18/22 07:53	03/18/22 16:41	1
Arsenic	**0.0032**		0.0010		mg/L		03/18/22 07:53	03/18/22 16:41	1
Barium	**0.061**		0.0025		mg/L		03/18/22 07:53	03/18/22 16:41	1
Beryllium	<0.0010		0.0010		mg/L		03/18/22 07:53	03/18/22 16:41	1
Boron	**11**		2.5		mg/L		03/18/22 07:53	03/21/22 13:24	50
Cadmium	<0.00050		0.00050		mg/L		03/18/22 07:53	03/18/22 16:41	1
Calcium	**130**		0.20		mg/L		03/18/22 07:53	03/18/22 16:41	1
Chromium	<0.0050		0.0050		mg/L		03/18/22 07:53	03/18/22 16:41	1
Cobalt	**0.0010**		0.0010		mg/L		03/18/22 07:53	03/18/22 16:41	1
Lead	**0.00052**		0.00050		mg/L		03/18/22 07:53	03/18/22 16:41	1
Lithium	**0.13**		0.0020		mg/L		03/18/22 07:53	03/18/22 16:41	1
Molybdenum	**1.6**		0.0050		mg/L		03/18/22 07:53	03/18/22 16:41	1
Selenium	<0.0025		0.0025		mg/L		03/18/22 07:53	03/18/22 16:41	1
Thallium	<0.0020		0.0020		mg/L		03/18/22 07:53	03/18/22 16:41	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/16/22 10:10	03/17/22 09:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**1200**		10		mg/L			03/11/22 03:22	1
Chloride	**60**		4.0		mg/L			03/22/22 11:32	2
Fluoride	**0.40**		0.10		mg/L			03/14/22 12:07	1
Sulfate	**590**		100		mg/L			03/22/22 13:13	20

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	**95.81**				ft			03/08/22 09:53	1
Depth to Water (ft from MP)	**98.21**				ft			03/08/22 09:53	1
Elevation of well (ft from MP)	**603.69**				ft			03/08/22 09:53	1
Field pH	**7.32**				SU			03/08/22 09:53	1
Field Temperature	**45.5**				Degrees F			03/08/22 09:53	1
Ground Water Elevation	**505.48**				ft			03/08/22 09:53	1
Specific Conductance	**1313**				umhos/cm			03/08/22 09:53	1
Well bottom elevation	**444.80**				ft			03/08/22 09:53	1
Field Turbidity	**14.70**				NTU			03/08/22 09:53	1

Client: KPRG and Associates, Inc.
Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-1

Client Sample ID: T06S

Date Collected: 03/08/22 12:55
Date Received: 03/08/22 14:50

Lab Sample ID: 500-213350-3

Matrix: Water

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		03/18/22 07:53	03/18/22 16:44	1
Arsenic	<0.0010		0.0010		mg/L		03/18/22 07:53	03/18/22 16:44	1
Barium	**0.032**		0.0025		mg/L		03/18/22 07:53	03/18/22 16:44	1
Beryllium	<0.0010		0.0010		mg/L		03/18/22 07:53	03/18/22 16:44	1
Boron	**0.92**		0.25		mg/L		03/18/22 07:53	03/21/22 13:27	5
Cadmium	<0.00050		0.00050		mg/L		03/18/22 07:53	03/18/22 16:44	1
Calcium	**85**		0.20		mg/L		03/18/22 07:53	03/18/22 16:44	1
Chromium	<0.0050		0.0050		mg/L		03/18/22 07:53	03/18/22 16:44	1
Cobalt	<0.0010		0.0010		mg/L		03/18/22 07:53	03/18/22 16:44	1
Lead	<0.00050		0.00050		mg/L		03/18/22 07:53	03/18/22 16:44	1
Lithium	**0.025**		0.0020		mg/L		03/18/22 07:53	03/18/22 16:44	1
Molybdenum	**0.017**		0.0050		mg/L		03/18/22 07:53	03/18/22 16:44	1
Selenium	<0.0025		0.0025		mg/L		03/18/22 07:53	03/18/22 16:44	1
Thallium	<0.0020		0.0020		mg/L		03/18/22 07:53	03/18/22 16:44	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/16/22 10:10	03/17/22 09:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**540**		10		mg/L			03/11/22 03:24	1
Chloride	**15**		2.0		mg/L			03/22/22 11:32	1
Fluoride	**0.43**		0.10		mg/L			03/14/22 12:11	1
Sulfate	**99**		25		mg/L			03/22/22 13:13	5

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	**111.50**				ft			03/08/22 12:55	1
Depth to Water (ft from MP)	**113.80**				ft			03/08/22 12:55	1
Elevation of well (ft from MP)	**620.99**				ft			03/08/22 12:55	1
Field pH	**7.21**				SU			03/08/22 12:55	1
Field Temperature	**53.8**				Degrees F			03/08/22 12:55	1
Ground Water Elevation	**507.19**				ft			03/08/22 12:55	1
Specific Conductance	**688**				umhos/cm			03/08/22 12:55	1
Well bottom elevation	**447.94**				ft			03/08/22 12:55	1
Field Turbidity	**1.28**				NTU			03/08/22 12:55	1

Client: KPRG and Associates, Inc.
Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-1

Client Sample ID: T05S

Date Collected: 03/10/22 10:07
Date Received: 03/10/22 14:50

Lab Sample ID: 500-213350-4

Matrix: Water

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		03/18/22 07:53	03/18/22 16:48	1
Arsenic	0.13		0.0010		mg/L		03/18/22 07:53	03/18/22 16:48	1
Barium	0.010		0.0025		mg/L		03/18/22 07:53	03/18/22 16:48	1
Beryllium	<0.0010		0.0010		mg/L		03/18/22 07:53	03/18/22 16:48	1
Boron	12		2.5		mg/L		03/18/22 07:53	03/21/22 13:31	50
Cadmium	<0.00050		0.00050		mg/L		03/18/22 07:53	03/18/22 16:48	1
Calcium	3.3		0.20		mg/L		03/18/22 07:53	03/18/22 16:48	1
Chromium	<0.0050		0.0050		mg/L		03/18/22 07:53	03/18/22 16:48	1
Cobalt	<0.0010		0.0010		mg/L		03/18/22 07:53	03/18/22 16:48	1
Lead	<0.00050		0.00050		mg/L		03/18/22 07:53	03/18/22 16:48	1
Lithium	0.018		0.0020		mg/L		03/18/22 07:53	03/18/22 16:48	1
Molybdenum	0.92		0.0050		mg/L		03/18/22 07:53	03/18/22 16:48	1
Selenium	0.0029		0.0025		mg/L		03/18/22 07:53	03/18/22 16:48	1
Thallium	<0.0020		0.0020		mg/L		03/18/22 07:53	03/18/22 16:48	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/16/22 10:10	03/17/22 09:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1600		10		mg/L			03/11/22 03:27	1
Chloride	130		10		mg/L			03/22/22 11:48	5
Fluoride	1.7		0.10		mg/L			03/14/22 12:24	1
Sulfate	610		130		mg/L			03/22/22 14:08	25

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	121.91				ft			03/10/22 10:07	1
Depth to Water (ft from MP)	124.31				ft			03/10/22 10:07	1
Elevation of well (ft from MP)	623.46				ft			03/10/22 10:07	1
Field pH	9.17				SU			03/10/22 10:07	1
Field Temperature	47.1				Degrees F			03/10/22 10:07	1
Ground Water Elevation	499.15				ft			03/10/22 10:07	1
Specific Conductance	2000				umhos/cm			03/10/22 10:07	1
Well bottom elevation	448.35				ft			03/10/22 10:07	1
Field Turbidity	2.68				NTU			03/10/22 10:07	1

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-1

Client Sample ID: T02S

Date Collected: 03/10/22 12:49
Date Received: 03/10/22 14:50

Lab Sample ID: 500-213350-5

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0092		0.0030		mg/L		03/18/22 07:53	03/18/22 16:58	1
Arsenic	0.0092		0.0010		mg/L		03/18/22 07:53	03/18/22 16:58	1
Barium	0.065		0.0025		mg/L		03/18/22 07:53	03/18/22 16:58	1
Beryllium	<0.0010		0.0010		mg/L		03/18/22 07:53	03/18/22 16:58	1
Boron	5.2		1.0		mg/L		03/18/22 07:53	03/21/22 13:34	20
Cadmium	<0.00050		0.00050		mg/L		03/18/22 07:53	03/18/22 16:58	1
Calcium	61		0.20		mg/L		03/18/22 07:53	03/18/22 16:58	1
Chromium	<0.0050		0.0050		mg/L		03/18/22 07:53	03/18/22 16:58	1
Cobalt	0.0026		0.0010		mg/L		03/18/22 07:53	03/18/22 16:58	1
Lead	0.0016		0.00050		mg/L		03/18/22 07:53	03/18/22 16:58	1
Lithium	0.029		0.0020		mg/L		03/18/22 07:53	03/18/22 16:58	1
Molybdenum	0.50		0.0050		mg/L		03/18/22 07:53	03/18/22 16:58	1
Selenium	<0.0025		0.0025		mg/L		03/18/22 07:53	03/18/22 16:58	1
Thallium	<0.0020		0.0020		mg/L		03/18/22 07:53	03/18/22 16:58	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/16/22 10:10	03/17/22 10:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	970		10		mg/L			03/11/22 03:30	1
Chloride	95		6.0		mg/L			03/22/22 11:32	3
Fluoride	0.46		0.10		mg/L			03/14/22 12:33	1
Sulfate	380		50		mg/L			03/22/22 13:14	10

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	132.23				ft			03/10/22 12:49	1
Depth to Water (ft from MP)	134.56				ft			03/10/22 12:49	1
Elevation of well (ft from MP)	626.12				ft			03/10/22 12:49	1
Field pH	8.08				SU			03/10/22 12:49	1
Field Temperature	46.6				Degrees F			03/10/22 12:49	1
Ground Water Elevation	491.56				ft			03/10/22 12:49	1
Specific Conductance	1163				umhos/cm			03/10/22 12:49	1
Well bottom elevation	453.40				ft			03/10/22 12:49	1
Field Turbidity	74.00				NTU			03/10/22 12:49	1

Client: KPRG and Associates, Inc.
Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-1

Client Sample ID: G31S

Date Collected: 03/11/22 09:44
Date Received: 03/11/22 15:27

Lab Sample ID: 500-213350-6

Matrix: Water

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		03/18/22 07:53	03/18/22 17:02	1
Arsenic	**0.0043**		0.0010		mg/L		03/18/22 07:53	03/18/22 17:02	1
Barium	**0.047**		0.0025		mg/L		03/18/22 07:53	03/18/22 17:02	1
Beryllium	<0.0010		0.0010		mg/L		03/18/22 07:53	03/18/22 17:02	1
Boron	**5.1**		1.0		mg/L		03/18/22 07:53	03/21/22 13:38	20
Cadmium	<0.00050		0.00050		mg/L		03/18/22 07:53	03/18/22 17:02	1
Calcium	**150**		0.20		mg/L		03/18/22 07:53	03/18/22 17:02	1
Chromium	<0.0050		0.0050		mg/L		03/18/22 07:53	03/18/22 17:02	1
Cobalt	<0.0010		0.0010		mg/L		03/18/22 07:53	03/18/22 17:02	1
Lead	<0.00050		0.00050		mg/L		03/18/22 07:53	03/18/22 17:02	1
Lithium	**0.094**		0.0020		mg/L		03/18/22 07:53	03/18/22 17:02	1
Molybdenum	**0.83**		0.0050		mg/L		03/18/22 07:53	03/18/22 17:02	1
Selenium	<0.0025		0.0025		mg/L		03/18/22 07:53	03/18/22 17:02	1
Thallium	<0.0020		0.0020		mg/L		03/18/22 07:53	03/18/22 17:02	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/16/22 10:10	03/17/22 10:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**1000**		10		mg/L			03/14/22 06:09	1
Chloride	**140**		10		mg/L			03/22/22 11:33	5
Fluoride	**0.26**		0.10		mg/L			03/14/22 12:48	1
Sulfate	**490**		50		mg/L			03/22/22 13:14	10

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	**23.37**				ft			03/11/22 09:44	1
Depth to Water (ft from MP)	**25.95**				ft			03/11/22 09:44	1
Elevation of well (ft from MP)	**535.77**				ft			03/11/22 09:44	1
Field pH	**7.06**				SU			03/11/22 09:44	1
Field Temperature	**54.0**				Degrees F			03/11/22 09:44	1
Ground Water Elevation	**509.82**				ft			03/11/22 09:44	1
Specific Conductance	**1406**				umhos/cm			03/11/22 09:44	1
Well bottom elevation	**453.36**				ft			03/11/22 09:44	1
Field Turbidity	**0.73**				NTU			03/11/22 09:44	1

Client: KPRG and Associates, Inc.
Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-1

Client Sample ID: G46S

Date Collected: 03/11/22 10:56
Date Received: 03/11/22 15:27

Lab Sample ID: 500-213350-7

Matrix: Water

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		03/18/22 07:53	03/18/22 17:05	1
Arsenic	**0.17**		0.0010		mg/L		03/18/22 07:53	03/18/22 17:05	1
Barium	**0.069**		0.0025		mg/L		03/18/22 07:53	03/18/22 17:05	1
Beryllium	<0.0010		0.0010		mg/L		03/18/22 07:53	03/18/22 17:05	1
Boron	**12**		2.5		mg/L		03/18/22 07:53	03/21/22 13:41	50
Cadmium	<0.00050		0.00050		mg/L		03/18/22 07:53	03/18/22 17:05	1
Calcium	**130**		0.20		mg/L		03/18/22 07:53	03/18/22 17:05	1
Chromium	<0.0050		0.0050		mg/L		03/18/22 07:53	03/18/22 17:05	1
Cobalt	<0.0010		0.0010		mg/L		03/18/22 07:53	03/18/22 17:05	1
Lead	<0.00050		0.00050		mg/L		03/18/22 07:53	03/18/22 17:05	1
Lithium	**0.13**		0.0020		mg/L		03/18/22 07:53	03/18/22 17:05	1
Molybdenum	**1.6**		0.0050		mg/L		03/18/22 07:53	03/18/22 17:05	1
Selenium	<0.0025		0.0025		mg/L		03/18/22 07:53	03/18/22 17:05	1
Thallium	<0.0020		0.0020		mg/L		03/18/22 07:53	03/18/22 17:05	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/16/22 10:10	03/17/22 10:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**1200**		10		mg/L			03/14/22 06:14	1
Chloride	**54**		4.0		mg/L			03/22/22 11:33	2
Fluoride	**0.34**		0.10		mg/L			03/14/22 12:52	1
Sulfate	**600**		100		mg/L			03/22/22 13:14	20

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	**93.01**				ft			03/11/22 10:56	1
Depth to Water (ft from MP)	**95.71**				ft			03/11/22 10:56	1
Elevation of well (ft from MP)	**601.34**				ft			03/11/22 10:56	1
Field pH	**7.38**				SU			03/11/22 10:56	1
Field Temperature	**53.2**				Degrees F			03/11/22 10:56	1
Ground Water Elevation	**505.63**				ft			03/11/22 10:56	1
Specific Conductance	**1325**				umhos/cm			03/11/22 10:56	1
Well bottom elevation	**453.62**				ft			03/11/22 10:56	1
Field Turbidity	**99.30**				NTU			03/11/22 10:56	1

Client: KPRG and Associates, Inc.
Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-1

Client Sample ID: R08S
Date Collected: 03/11/22 12:35
Date Received: 03/11/22 15:27

Lab Sample ID: 500-213350-8
Matrix: Water

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		03/18/22 07:53	03/18/22 17:09	1
Arsenic	**0.0014**		0.0010		mg/L		03/18/22 07:53	03/18/22 17:09	1
Barium	**0.039**		0.0025		mg/L		03/18/22 07:53	03/18/22 17:09	1
Beryllium	<0.0010		0.0010		mg/L		03/18/22 07:53	03/18/22 17:09	1
Boron	**7.7**		1.0		mg/L		03/18/22 07:53	03/21/22 13:45	20
Cadmium	<0.00050		0.00050		mg/L		03/18/22 07:53	03/18/22 17:09	1
Calcium	**130**		0.20		mg/L		03/18/22 07:53	03/18/22 17:09	1
Chromium	<0.0050		0.0050		mg/L		03/18/22 07:53	03/18/22 17:09	1
Cobalt	<0.0010		0.0010		mg/L		03/18/22 07:53	03/18/22 17:09	1
Lead	<0.00050		0.00050		mg/L		03/18/22 07:53	03/18/22 17:09	1
Lithium	**0.13**		0.0020		mg/L		03/18/22 07:53	03/18/22 17:09	1
Molybdenum	**0.37**		0.0050		mg/L		03/18/22 07:53	03/18/22 17:09	1
Selenium	**0.0027**		0.0025		mg/L		03/18/22 07:53	03/18/22 17:09	1
Thallium	<0.0020		0.0020		mg/L		03/18/22 07:53	03/18/22 17:09	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/16/22 10:10	03/17/22 10:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**840**		10		mg/L			03/14/22 06:17	1
Chloride	**75**		4.0		mg/L			03/22/22 11:33	2
Fluoride	**0.16**		0.10		mg/L			03/14/22 12:56	1
Sulfate	**420**		50		mg/L			03/22/22 13:15	10

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	**63.54**				ft			03/11/22 12:35	1
Depth to Water (ft from MP)	**66.09**				ft			03/11/22 12:35	1
Elevation of well (ft from MP)	**578.51**				ft			03/11/22 12:35	1
Field pH	**8.21**				SU			03/11/22 12:35	1
Field Temperature	**53.1**				Degrees F			03/11/22 12:35	1
Ground Water Elevation	**512.42**				ft			03/11/22 12:35	1
Specific Conductance	**955**				umhos/cm			03/11/22 12:35	1
Well bottom elevation	**453.08**				ft			03/11/22 12:35	1
Field Turbidity	**0.52**				NTU			03/11/22 12:35	1

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-1

Client Sample ID: G33S

Date Collected: 03/11/22 13:32
Date Received: 03/11/22 15:27

Lab Sample ID: 500-213350-9

Matrix: Water

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		03/18/22 07:53	03/18/22 17:12	1
Arsenic	**0.0024**		0.0010		mg/L		03/18/22 07:53	03/18/22 17:12	1
Barium	**0.11**		0.0025		mg/L		03/18/22 07:53	03/18/22 17:12	1
Beryllium	<0.0010		0.0010		mg/L		03/18/22 07:53	03/18/22 17:12	1
Boron	**1.1**		0.25		mg/L		03/18/22 07:53	03/21/22 13:48	5
Cadmium	<0.00050		0.00050		mg/L		03/18/22 07:53	03/18/22 17:12	1
Calcium	**55**		0.20		mg/L		03/18/22 07:53	03/18/22 17:12	1
Chromium	<0.0050		0.0050		mg/L		03/18/22 07:53	03/18/22 17:12	1
Cobalt	<0.0010		0.0010		mg/L		03/18/22 07:53	03/18/22 17:12	1
Lead	**0.0030**		0.00050		mg/L		03/18/22 07:53	03/18/22 17:12	1
Lithium	**0.039**		0.0020		mg/L		03/18/22 07:53	03/18/22 17:12	1
Molybdenum	<0.0050		0.0050		mg/L		03/18/22 07:53	03/18/22 17:12	1
Selenium	<0.0025		0.0025		mg/L		03/18/22 07:53	03/18/22 17:12	1
Thallium	<0.0020		0.0020		mg/L		03/18/22 07:53	03/18/22 17:12	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/16/22 10:10	03/17/22 10:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**470**		10		mg/L			03/14/22 06:20	1
Chloride	**14**		2.0		mg/L			03/22/22 11:34	1
Fluoride	**0.71**		0.10		mg/L			03/14/22 12:59	1
Sulfate	**79**		10		mg/L			03/22/22 13:57	2

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	**28.06**				ft			03/11/22 13:32	1
Depth to Water (ft from MP)	**29.79**				ft			03/11/22 13:32	1
Elevation of well (ft from MP)	**535.65**				ft			03/11/22 13:32	1
Field pH	**7.44**				SU			03/11/22 13:32	1
Field Temperature	**49.5**				Degrees F			03/11/22 13:32	1
Ground Water Elevation	**505.86**				ft			03/11/22 13:32	1
Specific Conductance	**642**				umhos/cm			03/11/22 13:32	1
Well bottom elevation	**452.72**				ft			03/11/22 13:32	1
Field Turbidity	**22.60**				NTU			03/11/22 13:32	1

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-1

Client Sample ID: T01S

Date Collected: 03/14/22 09:52
Date Received: 03/14/22 14:56

Lab Sample ID: 500-213350-10

Matrix: Water

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		03/18/22 07:53	03/18/22 17:16	1
Arsenic	**0.026**		0.0010		mg/L		03/18/22 07:53	03/18/22 17:16	1
Barium	**0.13**		0.0025		mg/L		03/18/22 07:53	03/18/22 17:16	1
Beryllium	<0.0010		0.0010		mg/L		03/18/22 07:53	03/18/22 17:16	1
Boron	**4.5**		0.50		mg/L		03/18/22 07:53	03/21/22 13:52	10
Cadmium	**0.00050**		0.00050		mg/L		03/18/22 07:53	03/18/22 17:16	1
Calcium	**62**		0.20		mg/L		03/18/22 07:53	03/18/22 17:16	1
Chromium	**0.027**		0.0050		mg/L		03/18/22 07:53	03/18/22 17:16	1
Cobalt	**0.012**		0.0010		mg/L		03/18/22 07:53	03/18/22 17:16	1
Lead	**0.014**		0.00050		mg/L		03/18/22 07:53	03/18/22 17:16	1
Lithium	**0.026**		0.0020		mg/L		03/18/22 07:53	03/18/22 17:16	1
Molybdenum	**0.31**		0.0050		mg/L		03/18/22 07:53	03/18/22 17:16	1
Selenium	<0.0025		0.0025		mg/L		03/18/22 07:53	03/18/22 17:16	1
Thallium	<0.0020		0.0020		mg/L		03/18/22 07:53	03/18/22 17:16	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/16/22 10:10	03/17/22 10:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**1000**		10		mg/L			03/16/22 03:04	1
Chloride	**97**		6.0		mg/L			03/22/22 11:34	3
Fluoride	**1.2**		0.10		mg/L			03/21/22 09:17	1
Sulfate	**420**		50		mg/L			03/22/22 13:15	10

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	**121.22**				ft			03/14/22 09:52	1
Depth to Water (ft from MP)	**123.70**				ft			03/14/22 09:52	1
Elevation of well (ft from MP)	**621.71**				ft			03/14/22 09:52	1
Field pH	**7.53**				SU			03/14/22 09:52	1
Field Temperature	**50.7**				Degrees F			03/14/22 09:52	1
Ground Water Elevation	**498.01**				ft			03/14/22 09:52	1
Specific Conductance	**1245**				umhos/cm			03/14/22 09:52	1
Well bottom elevation	**451.46**				ft			03/14/22 09:52	1
Field Turbidity	**9.95**				NTU			03/14/22 09:52	1

Client: KPRG and Associates, Inc.
Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-1

Client Sample ID: T08S

Date Collected: 03/14/22 11:49
Date Received: 03/14/22 14:56

Lab Sample ID: 500-213350-11

Matrix: Water

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		03/18/22 07:53	03/21/22 15:22	1
Arsenic	**0.016**		0.0010		mg/L		03/18/22 07:53	03/21/22 15:22	1
Barium	**0.042**		0.0025		mg/L		03/18/22 07:53	03/21/22 15:22	1
Beryllium	<0.0010		0.0010		mg/L		03/18/22 07:53	03/21/22 15:22	1
Boron	**9.4**		0.25		mg/L		03/18/22 07:53	03/21/22 14:20	5
Cadmium	<0.00050		0.00050		mg/L		03/18/22 07:53	03/21/22 15:22	1
Calcium	**32**		0.20		mg/L		03/18/22 07:53	03/21/22 15:22	1
Chromium	<0.0050		0.0050		mg/L		03/18/22 07:53	03/21/22 15:22	1
Cobalt	<0.0010		0.0010		mg/L		03/18/22 07:53	03/21/22 15:22	1
Lead	<0.00050		0.00050		mg/L		03/18/22 07:53	03/21/22 15:22	1
Lithium	**0.034**		0.0020		mg/L		03/18/22 07:53	03/21/22 15:22	1
Molybdenum	**0.96**		0.0050		mg/L		03/18/22 07:53	03/21/22 15:22	1
Selenium	<0.0025		0.0025		mg/L		03/18/22 07:53	03/21/22 15:22	1
Thallium	<0.0020		0.0020		mg/L		03/18/22 07:53	03/21/22 15:22	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/16/22 10:10	03/17/22 10:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**1100**		10		mg/L			03/16/22 03:06	1
Chloride	**89**		6.0		mg/L			03/22/22 11:34	3
Fluoride	**0.78**		0.10		mg/L			03/21/22 09:26	1
Sulfate	**550**		100		mg/L			03/22/22 13:15	20

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	**127.18**				ft			03/14/22 11:49	1
Depth to Water (ft from MP)	**129.56**				ft			03/14/22 11:49	1
Elevation of well (ft from MP)	**627.50**				ft			03/14/22 11:49	1
Field pH	**8.67**				SU			03/14/22 11:49	1
Field Temperature	**57.2**				Degrees F			03/14/22 11:49	1
Ground Water Elevation	**497.94**				ft			03/14/22 11:49	1
Specific Conductance	**1387**				umhos/cm			03/14/22 11:49	1
Well bottom elevation	**447.38**				ft			03/14/22 11:49	1
Field Turbidity	**1.84**				NTU			03/14/22 11:49	1

Client: KPRG and Associates, Inc.
Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-1

Client Sample ID: T03S

Date Collected: 03/14/22 13:45
Date Received: 03/14/22 14:56

Lab Sample ID: 500-213350-12

Matrix: Water

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		03/18/22 07:53	03/18/22 17:23	1
Arsenic	**0.016**		0.0010		mg/L		03/18/22 07:53	03/18/22 17:23	1
Barium	**0.041**		0.0025		mg/L		03/18/22 07:53	03/18/22 17:23	1
Beryllium	<0.0010		0.0010		mg/L		03/18/22 07:53	03/18/22 17:23	1
Boron	**3.6**		2.5		mg/L		03/18/22 07:53	03/21/22 14:23	50
Cadmium	<0.00050		0.00050		mg/L		03/18/22 07:53	03/18/22 17:23	1
Calcium	**31**		0.20		mg/L		03/18/22 07:53	03/18/22 17:23	1
Chromium	<0.0050		0.0050		mg/L		03/18/22 07:53	03/18/22 17:23	1
Cobalt	<0.0010		0.0010		mg/L		03/18/22 07:53	03/18/22 17:23	1
Lead	<0.00050		0.00050		mg/L		03/18/22 07:53	03/18/22 17:23	1
Lithium	**0.032**		0.0020		mg/L		03/18/22 07:53	03/18/22 17:23	1
Molybdenum	**0.93**		0.0050		mg/L		03/18/22 07:53	03/18/22 17:23	1
Selenium	<0.0025		0.0025		mg/L		03/18/22 07:53	03/18/22 17:23	1
Thallium	<0.0020		0.0020		mg/L		03/18/22 07:53	03/18/22 17:23	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/16/22 10:10	03/17/22 10:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**1000**		10		mg/L			03/16/22 03:09	1
Chloride	**110**		10		mg/L			03/22/22 11:35	5
Fluoride	**0.22**		0.10		mg/L			03/21/22 09:29	1
Sulfate	**280**		50		mg/L			03/22/22 13:17	10

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	**135.71**				ft			03/14/22 13:45	1
Depth to Water (ft from MP)	**138.79**				ft			03/14/22 13:45	1
Elevation of well (ft from MP)	**629.74**				ft			03/14/22 13:45	1
Field pH	**7.37**				SU			03/14/22 13:45	1
Field Temperature	**54.0**				Degrees F			03/14/22 13:45	1
Ground Water Elevation	**490.95**				ft			03/14/22 13:45	1
Specific Conductance	**1192**				umhos/cm			03/14/22 13:45	1
Well bottom elevation	**456.70**				ft			03/14/22 13:45	1
Field Turbidity	**0.65**				NTU			03/14/22 13:45	1

Client: KPRG and Associates, Inc.
Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-1

Client Sample ID: G20S

Date Collected: 03/15/22 09:30
Date Received: 03/15/22 14:52

Lab Sample ID: 500-213350-13

Matrix: Water

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		03/18/22 07:53	03/18/22 17:26	1
Arsenic	**0.0010**		0.0010		mg/L		03/18/22 07:53	03/18/22 17:26	1
Barium	**0.083**		0.0025		mg/L		03/18/22 07:53	03/18/22 17:26	1
Beryllium	<0.0010		0.0010		mg/L		03/18/22 07:53	03/18/22 17:26	1
Boron	**1.4**		0.50		mg/L		03/18/22 07:53	03/21/22 14:27	10
Cadmium	<0.00050		0.00050		mg/L		03/18/22 07:53	03/18/22 17:26	1
Calcium	**110**		0.20		mg/L		03/18/22 07:53	03/18/22 17:26	1
Chromium	<0.0050		0.0050		mg/L		03/18/22 07:53	03/18/22 17:26	1
Cobalt	**0.0010**		0.0010		mg/L		03/18/22 07:53	03/18/22 17:26	1
Lead	<0.00050		0.00050		mg/L		03/18/22 07:53	03/18/22 17:26	1
Lithium	**0.025**		0.0020		mg/L		03/18/22 07:53	03/18/22 17:26	1
Molybdenum	**0.28**		0.0050		mg/L		03/18/22 07:53	03/18/22 17:26	1
Selenium	<0.0025		0.0025		mg/L		03/18/22 07:53	03/18/22 17:26	1
Thallium	<0.0020		0.0020		mg/L		03/18/22 07:53	03/18/22 17:26	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/16/22 10:10	03/17/22 10:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**500**		10		mg/L			03/16/22 03:12	1
Chloride	**15**		2.0		mg/L			03/22/22 11:35	1
Fluoride	**0.75**		0.10		mg/L			03/21/22 09:33	1
Sulfate	**74**		10		mg/L			03/22/22 13:57	2

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	**52.92**				ft			03/15/22 09:30	1
Depth to Water (ft from MP)	**55.70**				ft			03/15/22 09:30	1
Elevation of well (ft from MP)	**580.94**				ft			03/15/22 09:30	1
Field pH	**7.49**				SU			03/15/22 09:30	1
Field Temperature	**45.7**				Degrees F			03/15/22 09:30	1
Ground Water Elevation	**525.24**				ft			03/15/22 09:30	1
Specific Conductance	**609**				umhos/cm			03/15/22 09:30	1
Well bottom elevation	**442.28**				ft			03/15/22 09:30	1
Field Turbidity	**0.46**				NTU			03/15/22 09:30	1

Client: KPRG and Associates, Inc.
Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-1

Client Sample ID: G30S

Date Collected: 03/15/22 11:43
Date Received: 03/15/22 14:52

Lab Sample ID: 500-213350-14

Matrix: GW

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		03/18/22 07:53	03/18/22 17:30	1
Arsenic	<0.0010		0.0010		mg/L		03/18/22 07:53	03/18/22 17:30	1
Barium	**0.047**		0.0025		mg/L		03/18/22 07:53	03/18/22 17:30	1
Beryllium	<0.0010		0.0010		mg/L		03/18/22 07:53	03/18/22 17:30	1
Boron	**4.9**		0.25		mg/L		03/18/22 07:53	03/21/22 14:30	5
Cadmium	<0.00050		0.00050		mg/L		03/18/22 07:53	03/18/22 17:30	1
Calcium	**57**		0.20		mg/L		03/18/22 07:53	03/18/22 17:30	1
Chromium	<0.0050		0.0050		mg/L		03/18/22 07:53	03/18/22 17:30	1
Cobalt	**0.0012**		0.0010		mg/L		03/18/22 07:53	03/18/22 17:30	1
Lead	<0.00050		0.00050		mg/L		03/18/22 07:53	03/18/22 17:30	1
Lithium	**0.039**		0.0020		mg/L		03/18/22 07:53	03/18/22 17:30	1
Molybdenum	**0.017**		0.0050		mg/L		03/18/22 07:53	03/18/22 17:30	1
Selenium	<0.0025		0.0025		mg/L		03/18/22 07:53	03/18/22 17:30	1
Thallium	<0.0020		0.0020		mg/L		03/18/22 07:53	03/18/22 17:30	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/16/22 10:10	03/17/22 10:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**1300**		10		mg/L			03/16/22 03:14	1
Chloride	**200**		10		mg/L			03/22/22 11:35	5
Fluoride	**1.0**		0.10		mg/L			03/21/22 09:37	1
Sulfate	**480**		50		mg/L			03/22/22 13:17	10

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	**-0.29**				ft			03/15/22 11:43	1
Depth to Water (ft from MP)	**2.02**				ft			03/15/22 11:43	1
Elevation of well (ft from MP)	**524.69**				ft			03/15/22 11:43	1
Field pH	**7.91**				SU			03/15/22 11:43	1
Field Temperature	**48.7**				Degrees F			03/15/22 11:43	1
Ground Water Elevation	**522.67**				ft			03/15/22 11:43	1
Specific Conductance	**1610**				umhos/cm			03/15/22 11:43	1
Well bottom elevation	**462.58**				ft			03/15/22 11:43	1
Field Turbidity	**0.45**				NTU			03/15/22 11:43	1

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-1

Client Sample ID: G44S

Date Collected: 03/15/22 13:49
Date Received: 03/15/22 14:52

Lab Sample ID: 500-213350-15

Matrix: Water

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		03/18/22 07:53	03/18/22 17:40	1
Arsenic	**0.0025**		0.0010		mg/L		03/18/22 07:53	03/18/22 17:40	1
Barium	**0.045**		0.0025		mg/L		03/18/22 07:53	03/18/22 17:40	1
Beryllium	<0.0010		0.0010		mg/L		03/18/22 07:53	03/18/22 17:40	1
Boron	**2.1**		1.0		mg/L		03/18/22 07:53	03/21/22 14:33	20
Cadmium	<0.00050		0.00050		mg/L		03/18/22 07:53	03/18/22 17:40	1
Calcium	**58**		0.20		mg/L		03/18/22 07:53	03/18/22 17:40	1
Chromium	<0.0050		0.0050		mg/L		03/18/22 07:53	03/18/22 17:40	1
Cobalt	<0.0010		0.0010		mg/L		03/18/22 07:53	03/18/22 17:40	1
Lead	<0.00050		0.00050		mg/L		03/18/22 07:53	03/18/22 17:40	1
Lithium	**0.022**		0.0020		mg/L		03/18/22 07:53	03/18/22 17:40	1
Molybdenum	**0.0093**		0.0050		mg/L		03/18/22 07:53	03/18/22 17:40	1
Selenium	<0.0025		0.0025		mg/L		03/18/22 07:53	03/18/22 17:40	1
Thallium	<0.0020		0.0020		mg/L		03/18/22 07:53	03/18/22 17:40	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/16/22 10:10	03/17/22 10:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**860**		10		mg/L			03/16/22 03:17	1
Chloride	**63**		4.0		mg/L			03/22/22 11:35	2
Fluoride	**0.21**		0.10		mg/L			03/21/22 09:41	1
Sulfate	**180**		25		mg/L			03/22/22 13:17	5

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	**77.46**				ft			03/15/22 13:49	1
Depth to Water (ft from MP)	**79.64**				ft			03/15/22 13:49	1
Elevation of well (ft from MP)	**586.49**				ft			03/15/22 13:49	1
Field pH	**7.24**				SU			03/15/22 13:49	1
Field Temperature	**54.5**				Degrees F			03/15/22 13:49	1
Ground Water Elevation	**506.85**				ft			03/15/22 13:49	1
Specific Conductance	**994**				umhos/cm			03/15/22 13:49	1
Well bottom elevation	**455.11**				ft			03/15/22 13:49	1
Field Turbidity	**1.09**				NTU			03/15/22 13:49	1

Client: KPRG and Associates, Inc.
Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-1

Client Sample ID: G48S

Date Collected: 03/16/22 09:28
Date Received: 03/16/22 14:55

Lab Sample ID: 500-213350-16

Matrix: Water

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		03/18/22 07:53	03/18/22 17:44	1
Arsenic	<0.0010		0.0010		mg/L		03/18/22 07:53	03/18/22 17:44	1
Barium	**0.064**		0.0025		mg/L		03/18/22 07:53	03/18/22 17:44	1
Beryllium	<0.0010		0.0010		mg/L		03/18/22 07:53	03/18/22 17:44	1
Boron	**5.8**		0.25		mg/L		03/18/22 07:53	03/21/22 14:37	5
Cadmium	<0.00050		0.00050		mg/L		03/18/22 07:53	03/18/22 17:44	1
Calcium	**130**		0.20		mg/L		03/18/22 07:53	03/18/22 17:44	1
Chromium	<0.0050		0.0050		mg/L		03/18/22 07:53	03/18/22 17:44	1
Cobalt	<0.0010		0.0010		mg/L		03/18/22 07:53	03/18/22 17:44	1
Lead	<0.00050		0.00050		mg/L		03/18/22 07:53	03/18/22 17:44	1
Lithium	**0.024**		0.0020		mg/L		03/18/22 07:53	03/18/22 17:44	1
Molybdenum	**0.27**		0.0050		mg/L		03/18/22 07:53	03/18/22 17:44	1
Selenium	<0.0025		0.0025		mg/L		03/18/22 07:53	03/18/22 17:44	1
Thallium	<0.0020		0.0020		mg/L		03/18/22 07:53	03/18/22 17:44	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/17/22 10:35	03/18/22 08:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**1100**		10		mg/L			03/17/22 03:33	1
Chloride	**99**		6.0		mg/L			03/22/22 11:36	3
Fluoride	**0.96**		0.10		mg/L			03/21/22 09:55	1
Sulfate	**430**		50		mg/L			03/22/22 13:17	10

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	**101.82**				ft			03/16/22 09:28	1
Depth to Water (ft from MP)	**104.27**				ft			03/16/22 09:28	1
Elevation of well (ft from MP)	**620.74**				ft			03/16/22 09:28	1
Field pH	**7.87**				SU			03/16/22 09:28	1
Field Temperature	**52.5**				Degrees F			03/16/22 09:28	1
Ground Water Elevation	**516.47**				ft			03/16/22 09:28	1
Specific Conductance	**1353**				umhos/cm			03/16/22 09:28	1
Well bottom elevation	**468.32**				ft			03/16/22 09:28	1
Field Turbidity	**0.31**				NTU			03/16/22 09:28	1

Client: KPRG and Associates, Inc.
Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-1

Client Sample ID: G47S

Date Collected: 03/16/22 10:55
Date Received: 03/16/22 14:55

Lab Sample ID: 500-213350-17

Matrix: Water

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		03/18/22 07:53	03/18/22 17:47	1
Arsenic	**0.0074**		0.0010		mg/L		03/18/22 07:53	03/18/22 17:47	1
Barium	**0.021**		0.0025		mg/L		03/18/22 07:53	03/18/22 17:47	1
Beryllium	<0.0010		0.0010		mg/L		03/18/22 07:53	03/18/22 17:47	1
Boron	**6.9**		1.0		mg/L		03/18/22 07:53	03/21/22 14:40	20
Cadmium	<0.00050		0.00050		mg/L		03/18/22 07:53	03/18/22 17:47	1
Calcium	**40**		0.20		mg/L		03/18/22 07:53	03/18/22 17:47	1
Chromium	<0.0050		0.0050		mg/L		03/18/22 07:53	03/18/22 17:47	1
Cobalt	<0.0010		0.0010		mg/L		03/18/22 07:53	03/18/22 17:47	1
Lead	<0.00050		0.00050		mg/L		03/18/22 07:53	03/18/22 17:47	1
Lithium	**0.021**		0.0020		mg/L		03/18/22 07:53	03/18/22 17:47	1
Molybdenum	**0.48**		0.0050		mg/L		03/18/22 07:53	03/18/22 17:47	1
Selenium	<0.0025		0.0025		mg/L		03/18/22 07:53	03/18/22 17:47	1
Thallium	<0.0020		0.0020		mg/L		03/18/22 07:53	03/18/22 17:47	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/17/22 10:35	03/18/22 08:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**1200**		10		mg/L			03/17/22 03:40	1
Chloride	**96**		6.0		mg/L			03/22/22 11:36	3
Fluoride	**0.66**		0.10		mg/L			03/21/22 09:58	1
Sulfate	**450**		50		mg/L			03/22/22 13:18	10

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	**91.76**				ft			03/16/22 10:55	1
Depth to Water (ft from MP)	**94.26**				ft			03/16/22 10:55	1
Elevation of well (ft from MP)	**612.04**				ft			03/16/22 10:55	1
Field pH	**8.94**				SU			03/16/22 10:55	1
Field Temperature	**55.4**				Degrees F			03/16/22 10:55	1
Ground Water Elevation	**517.78**				ft			03/16/22 10:55	1
Specific Conductance	**1348**				umhos/cm			03/16/22 10:55	1
Well bottom elevation	**459.84**				ft			03/16/22 10:55	1
Field Turbidity	**0.26**				NTU			03/16/22 10:55	1

Client: KPRG and Associates, Inc.
Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-1

Client Sample ID: R32S

Date Collected: 03/16/22 12:44
Date Received: 03/16/22 14:55

Lab Sample ID: 500-213350-18

Matrix: Water

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		03/18/22 07:53	03/18/22 17:51	1
Arsenic	**0.037**		0.0010		mg/L		03/18/22 07:53	03/18/22 17:51	1
Barium	**0.012**		0.0025		mg/L		03/18/22 07:53	03/18/22 17:51	1
Beryllium	<0.0010		0.0010		mg/L		03/18/22 07:53	03/18/22 17:51	1
Boron	**4.0**		1.0		mg/L		03/18/22 07:53	03/21/22 14:44	20
Cadmium	<0.00050		0.00050		mg/L		03/18/22 07:53	03/18/22 17:51	1
Calcium	**9.6**		0.20		mg/L		03/18/22 07:53	03/18/22 17:51	1
Chromium	<0.0050		0.0050		mg/L		03/18/22 07:53	03/18/22 17:51	1
Cobalt	<0.0010		0.0010		mg/L		03/18/22 07:53	03/18/22 17:51	1
Lead	<0.00050		0.00050		mg/L		03/18/22 07:53	03/18/22 17:51	1
Lithium	**0.043**		0.0020		mg/L		03/18/22 07:53	03/18/22 17:51	1
Molybdenum	**0.51**		0.0050		mg/L		03/18/22 07:53	03/18/22 17:51	1
Selenium	<0.0025		0.0025		mg/L		03/18/22 07:53	03/18/22 17:51	1
Thallium	<0.0020		0.0020		mg/L		03/18/22 07:53	03/18/22 17:51	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/17/22 10:35	03/18/22 08:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**1100**		10		mg/L			03/17/22 03:46	1
Chloride	**50**		4.0		mg/L			03/22/22 11:37	2
Fluoride	**0.31**		0.10		mg/L			03/21/22 10:01	1
Sulfate	**430**		50		mg/L			03/22/22 13:18	10

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	**17.65**				ft			03/16/22 12:44	1
Depth to Water (ft from MP)	**19.68**				ft			03/16/22 12:44	1
Elevation of well (ft from MP)	**536.91**				ft			03/16/22 12:44	1
Field pH	**7.56**				SU			03/16/22 12:44	1
Field Temperature	**53.2**				Degrees F			03/16/22 12:44	1
Ground Water Elevation	**517.23**				ft			03/16/22 12:44	1
Specific Conductance	**785**				umhos/cm			03/16/22 12:44	1
Well bottom elevation	**457.84**				ft			03/16/22 12:44	1
Field Turbidity	**1.31**				NTU			03/16/22 12:44	1

Client: KPRG and Associates, Inc.
Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-1

Client Sample ID: G45S

Date Collected: 03/16/22 13:31
Date Received: 03/16/22 14:55

Lab Sample ID: 500-213350-19

Matrix: Water

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		03/18/22 07:53	03/18/22 17:54	1
Arsenic	**0.0018**		0.0010		mg/L		03/18/22 07:53	03/18/22 17:54	1
Barium	**0.035**		0.0025		mg/L		03/18/22 07:53	03/18/22 17:54	1
Beryllium	<0.0010		0.0010		mg/L		03/18/22 07:53	03/18/22 17:54	1
Boron	<0.50		0.50		mg/L		03/18/22 07:53	03/21/22 14:47	10
Cadmium	<0.00050		0.00050		mg/L		03/18/22 07:53	03/18/22 17:54	1
Calcium	**130**		0.20		mg/L		03/18/22 07:53	03/18/22 17:54	1
Chromium	<0.0050		0.0050		mg/L		03/18/22 07:53	03/18/22 17:54	1
Cobalt	<0.0010		0.0010		mg/L		03/18/22 07:53	03/18/22 17:54	1
Lead	<0.00050		0.00050		mg/L		03/18/22 07:53	03/18/22 17:54	1
Lithium	**0.075**		0.0020		mg/L		03/18/22 07:53	03/18/22 17:54	1
Molybdenum	**0.56**		0.0050		mg/L		03/18/22 07:53	03/18/22 17:54	1
Molybdenum	**0.0092**		0.0050		mg/L		03/31/22 16:51	04/01/22 15:34	1
Selenium	<0.0025		0.0025		mg/L		03/18/22 07:53	03/18/22 17:54	1
Thallium	<0.0020		0.0020		mg/L		03/18/22 07:53	03/18/22 17:54	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/17/22 10:35	03/18/22 08:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**700**		10		mg/L			03/17/22 03:48	1
Chloride	**86**		6.0		mg/L			03/22/22 11:37	3
Fluoride	**0.36**		0.10		mg/L			03/21/22 10:05	1
Sulfate	**130**		25		mg/L			03/22/22 13:18	5

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	**62.53**				ft			03/16/22 13:31	1
Depth to Water (ft from MP)	**65.50**				ft			03/16/22 13:31	1
Elevation of well (ft from MP)	**603.94**				ft			03/16/22 13:31	1
Field pH	**7.35**				SU			03/16/22 13:31	1
Field Temperature	**57.9**				Degrees F			03/16/22 13:31	1
Ground Water Elevation	**538.44**				ft			03/16/22 13:31	1
Specific Conductance	**789**				umhos/cm			03/16/22 13:31	1
Well bottom elevation	**471.05**				ft			03/16/22 13:31	1
Field Turbidity	**0.98**				NTU			03/16/22 13:31	1

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-1

Client Sample ID: T04S

Date Collected: 03/16/22 14:10
Date Received: 03/16/22 14:55

Lab Sample ID: 500-213350-20

Matrix: Water

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	0				ft			03/16/22 14:10	1
Depth to Water (ft from MP)	0				ft			03/16/22 14:10	1
Elevation of well (ft from MP)	631.35				ft			03/16/22 14:10	1
Field pH	0				SU			03/16/22 14:10	1
Field Temperature	0				Degrees F			03/16/22 14:10	1
Ground Water Elevation	0				ft			03/16/22 14:10	1
Specific Conductance	0				umhos/cm			03/16/22 14:10	1
Well bottom elevation	458.07				ft			03/16/22 14:10	1
Field Turbidity	0				NTU			03/16/22 14:10	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.

Glossary

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

Metals

Prep Batch: 647262

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-213350-1	T09S	Total/NA	Water	7470A	
500-213350-2	T09S DUP	Total/NA	Water	7470A	
500-213350-3	T06S	Total/NA	Water	7470A	
500-213350-4	T05S	Total/NA	Water	7470A	
500-213350-5	T02S	Total/NA	Water	7470A	
500-213350-6	G31S	Total/NA	Water	7470A	
500-213350-7	G46S	Total/NA	Water	7470A	
500-213350-8	R08S	Total/NA	Water	7470A	
500-213350-9	G33S	Total/NA	Water	7470A	
500-213350-10	T01S	Total/NA	Water	7470A	
500-213350-11	T08S	Total/NA	Water	7470A	
500-213350-12	T03S	Total/NA	Water	7470A	
500-213350-13	G20S	Total/NA	Water	7470A	
500-213350-14	G30S	Total/NA	GW	7470A	
500-213350-15	G44S	Total/NA	Water	7470A	
MB 500-647262/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-647262/13-A	Lab Control Sample	Total/NA	Water	7470A	
500-213350-10 MS	T01S	Total/NA	Water	7470A	
500-213350-10 MSD	T01S	Total/NA	Water	7470A	
500-213350-10 DU	T01S	Total/NA	Water	7470A	

Prep Batch: 647536

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-213350-16	G48S	Total/NA	Water	7470A	
500-213350-17	G47S	Total/NA	Water	7470A	
500-213350-18	R32S	Total/NA	Water	7470A	
500-213350-19	G45S	Total/NA	Water	7470A	
MB 500-647536/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-647536/13-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 647539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-213350-1	T09S	Total/NA	Water	7470A	647262
500-213350-2	T09S DUP	Total/NA	Water	7470A	647262
500-213350-3	T06S	Total/NA	Water	7470A	647262
500-213350-4	T05S	Total/NA	Water	7470A	647262
500-213350-5	T02S	Total/NA	Water	7470A	647262
500-213350-6	G31S	Total/NA	Water	7470A	647262
500-213350-7	G46S	Total/NA	Water	7470A	647262
500-213350-8	R08S	Total/NA	Water	7470A	647262
500-213350-9	G33S	Total/NA	Water	7470A	647262
500-213350-10	T01S	Total/NA	Water	7470A	647262
500-213350-11	T08S	Total/NA	Water	7470A	647262
500-213350-12	T03S	Total/NA	Water	7470A	647262
500-213350-13	G20S	Total/NA	Water	7470A	647262
500-213350-14	G30S	Total/NA	GW	7470A	647262
500-213350-15	G44S	Total/NA	Water	7470A	647262
MB 500-647262/12-A	Method Blank	Total/NA	Water	7470A	647262
LCS 500-647262/13-A	Lab Control Sample	Total/NA	Water	7470A	647262
500-213350-10 MS	T01S	Total/NA	Water	7470A	647262
500-213350-10 MSD	T01S	Total/NA	Water	7470A	647262

Metals (Continued)

Analysis Batch: 647539 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-213350-10 DU	T01S	Total/NA	Water	7470A	647262

Prep Batch: 647664

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-213350-1	T09S	Total Recoverable	Water	3005A	
500-213350-2	T09S DUP	Total Recoverable	Water	3005A	
500-213350-3	T06S	Total Recoverable	Water	3005A	
500-213350-4	T05S	Total Recoverable	Water	3005A	
500-213350-5	T02S	Total Recoverable	Water	3005A	
500-213350-6	G31S	Total Recoverable	Water	3005A	
500-213350-7	G46S	Total Recoverable	Water	3005A	
500-213350-8	R08S	Total Recoverable	Water	3005A	
500-213350-9	G33S	Total Recoverable	Water	3005A	
500-213350-10	T01S	Total Recoverable	Water	3005A	
500-213350-11	T08S	Total Recoverable	Water	3005A	
500-213350-12	T03S	Total Recoverable	Water	3005A	
500-213350-13	G20S	Total Recoverable	Water	3005A	
500-213350-14	G30S	Total Recoverable	GW	3005A	
500-213350-15	G44S	Total Recoverable	Water	3005A	
500-213350-16	G48S	Total Recoverable	Water	3005A	
500-213350-17	G47S	Total Recoverable	Water	3005A	
500-213350-18	R32S	Total Recoverable	Water	3005A	
500-213350-19	G45S	Total Recoverable	Water	3005A	
MB 500-647664/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-647664/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
500-213350-1 MS	T09S	Total Recoverable	Water	3005A	
500-213350-1 MSD	T09S	Total Recoverable	Water	3005A	
500-213350-1 DU	T09S	Total Recoverable	Water	3005A	

Analysis Batch: 647747

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-213350-16	G48S	Total/NA	Water	7470A	647536
500-213350-17	G47S	Total/NA	Water	7470A	647536
500-213350-18	R32S	Total/NA	Water	7470A	647536
500-213350-19	G45S	Total/NA	Water	7470A	647536
MB 500-647536/12-A	Method Blank	Total/NA	Water	7470A	647536
LCS 500-647536/13-A	Lab Control Sample	Total/NA	Water	7470A	647536

Analysis Batch: 647950

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-213350-1	T09S	Total Recoverable	Water	6020A	647664
500-213350-2	T09S DUP	Total Recoverable	Water	6020A	647664
500-213350-3	T06S	Total Recoverable	Water	6020A	647664
500-213350-4	T05S	Total Recoverable	Water	6020A	647664
500-213350-5	T02S	Total Recoverable	Water	6020A	647664
500-213350-6	G31S	Total Recoverable	Water	6020A	647664
500-213350-7	G46S	Total Recoverable	Water	6020A	647664
500-213350-8	R08S	Total Recoverable	Water	6020A	647664
500-213350-9	G33S	Total Recoverable	Water	6020A	647664
500-213350-10	T01S	Total Recoverable	Water	6020A	647664
500-213350-12	T03S	Total Recoverable	Water	6020A	647664

Metals (Continued)

Analysis Batch: 647950 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-213350-13	G20S	Total Recoverable	Water	6020A	647664
500-213350-14	G30S	Total Recoverable	GW	6020A	647664
500-213350-15	G44S	Total Recoverable	Water	6020A	647664
500-213350-16	G48S	Total Recoverable	Water	6020A	647664
500-213350-17	G47S	Total Recoverable	Water	6020A	647664
500-213350-18	R32S	Total Recoverable	Water	6020A	647664
500-213350-19	G45S	Total Recoverable	Water	6020A	647664
MB 500-647664/1-A	Method Blank	Total Recoverable	Water	6020A	647664
LCS 500-647664/2-A	Lab Control Sample	Total Recoverable	Water	6020A	647664
500-213350-1 MS	T09S	Total Recoverable	Water	6020A	647664
500-213350-1 MSD	T09S	Total Recoverable	Water	6020A	647664
500-213350-1 DU	T09S	Total Recoverable	Water	6020A	647664

Analysis Batch: 648012

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-213350-1	T09S	Total Recoverable	Water	6020A	647664
500-213350-2	T09S DUP	Total Recoverable	Water	6020A	647664
500-213350-3	T06S	Total Recoverable	Water	6020A	647664
500-213350-4	T05S	Total Recoverable	Water	6020A	647664
500-213350-5	T02S	Total Recoverable	Water	6020A	647664
500-213350-6	G31S	Total Recoverable	Water	6020A	647664
500-213350-7	G46S	Total Recoverable	Water	6020A	647664
500-213350-8	R08S	Total Recoverable	Water	6020A	647664
500-213350-9	G33S	Total Recoverable	Water	6020A	647664
500-213350-10	T01S	Total Recoverable	Water	6020A	647664
500-213350-11	T08S	Total Recoverable	Water	6020A	647664
500-213350-11	T08S	Total Recoverable	Water	6020A	647664
500-213350-12	T03S	Total Recoverable	Water	6020A	647664
500-213350-13	G20S	Total Recoverable	Water	6020A	647664
500-213350-14	G30S	Total Recoverable	GW	6020A	647664
500-213350-15	G44S	Total Recoverable	Water	6020A	647664
500-213350-16	G48S	Total Recoverable	Water	6020A	647664
500-213350-17	G47S	Total Recoverable	Water	6020A	647664
500-213350-18	R32S	Total Recoverable	Water	6020A	647664
500-213350-19	G45S	Total Recoverable	Water	6020A	647664
MB 500-647664/1-A	Method Blank	Total Recoverable	Water	6020A	647664
LCS 500-647664/2-A	Lab Control Sample	Total Recoverable	Water	6020A	647664
500-213350-1 MS	T09S	Total Recoverable	Water	6020A	647664
500-213350-1 MSD	T09S	Total Recoverable	Water	6020A	647664
500-213350-1 DU	T09S	Total Recoverable	Water	6020A	647664

Prep Batch: 649736

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-213350-19	G45S	Total Recoverable	Water	3005A	
MB 500-649736/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-649736/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 650072

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-213350-19	G45S	Total Recoverable	Water	6020A	649736
MB 500-649736/1-A	Method Blank	Total Recoverable	Water	6020A	649736

Metals (Continued)

Analysis Batch: 650072 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-649736/2-A	Lab Control Sample	Total Recoverable	Water	6020A	649736

General Chemistry

Analysis Batch: 646556

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-213350-1	T09S	Total/NA	Water	SM 2540C	
500-213350-2	T09S DUP	Total/NA	Water	SM 2540C	
500-213350-3	T06S	Total/NA	Water	SM 2540C	
500-213350-4	T05S	Total/NA	Water	SM 2540C	
500-213350-5	T02S	Total/NA	Water	SM 2540C	
MB 500-646556/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-646556/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 646780

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-213350-6	G31S	Total/NA	Water	SM 2540C	
500-213350-7	G46S	Total/NA	Water	SM 2540C	
500-213350-8	R08S	Total/NA	Water	SM 2540C	
500-213350-9	G33S	Total/NA	Water	SM 2540C	
MB 500-646780/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-646780/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-213350-6 DU	G31S	Total/NA	Water	SM 2540C	

Analysis Batch: 646928

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-213350-1	T09S	Total/NA	Water	SM 4500 F C	
500-213350-2	T09S DUP	Total/NA	Water	SM 4500 F C	
500-213350-3	T06S	Total/NA	Water	SM 4500 F C	
500-213350-4	T05S	Total/NA	Water	SM 4500 F C	
500-213350-5	T02S	Total/NA	Water	SM 4500 F C	
500-213350-6	G31S	Total/NA	Water	SM 4500 F C	
500-213350-7	G46S	Total/NA	Water	SM 4500 F C	
500-213350-8	R08S	Total/NA	Water	SM 4500 F C	
500-213350-9	G33S	Total/NA	Water	SM 4500 F C	
MB 500-646928/3	Method Blank	Total/NA	Water	SM 4500 F C	
MB 500-646928/31	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-646928/32	Lab Control Sample	Total/NA	Water	SM 4500 F C	
LCS 500-646928/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
500-213350-4 MS	T05S	Total/NA	Water	SM 4500 F C	
500-213350-4 MSD	T05S	Total/NA	Water	SM 4500 F C	

Analysis Batch: 647142

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-213350-10	T01S	Total/NA	Water	SM 2540C	
500-213350-11	T08S	Total/NA	Water	SM 2540C	
500-213350-12	T03S	Total/NA	Water	SM 2540C	
500-213350-13	G20S	Total/NA	Water	SM 2540C	
500-213350-14	G30S	Total/NA	GW	SM 2540C	
500-213350-15	G44S	Total/NA	Water	SM 2540C	
MB 500-647142/1	Method Blank	Total/NA	Water	SM 2540C	

General Chemistry (Continued)

Analysis Batch: 647142 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-647142/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 647391

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-213350-16	G48S	Total/NA	Water	SM 2540C	
500-213350-17	G47S	Total/NA	Water	SM 2540C	
500-213350-18	R32S	Total/NA	Water	SM 2540C	
500-213350-19	G45S	Total/NA	Water	SM 2540C	
MB 500-647391/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-647391/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-213350-16 MS	G48S	Total/NA	Water	SM 2540C	
500-213350-16 DU	G48S	Total/NA	Water	SM 2540C	
500-213350-17 DU	G47S	Total/NA	Water	SM 2540C	

Analysis Batch: 647983

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-213350-10	T01S	Total/NA	Water	SM 4500 F C	
500-213350-11	T08S	Total/NA	Water	SM 4500 F C	
500-213350-12	T03S	Total/NA	Water	SM 4500 F C	
500-213350-13	G20S	Total/NA	Water	SM 4500 F C	
500-213350-14	G30S	Total/NA	GW	SM 4500 F C	
500-213350-15	G44S	Total/NA	Water	SM 4500 F C	
500-213350-16	G48S	Total/NA	Water	SM 4500 F C	
500-213350-17	G47S	Total/NA	Water	SM 4500 F C	
500-213350-18	R32S	Total/NA	Water	SM 4500 F C	
500-213350-19	G45S	Total/NA	Water	SM 4500 F C	
MB 500-647983/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-647983/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
500-213350-10 MS	T01S	Total/NA	Water	SM 4500 F C	
500-213350-10 MSD	T01S	Total/NA	Water	SM 4500 F C	

Analysis Batch: 648185

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-213350-1	T09S	Total/NA	Water	SM 4500 Cl- E	
500-213350-2	T09S DUP	Total/NA	Water	SM 4500 Cl- E	
500-213350-3	T06S	Total/NA	Water	SM 4500 Cl- E	
500-213350-4	T05S	Total/NA	Water	SM 4500 Cl- E	
500-213350-5	T02S	Total/NA	Water	SM 4500 Cl- E	
500-213350-6	G31S	Total/NA	Water	SM 4500 Cl- E	
500-213350-7	G46S	Total/NA	Water	SM 4500 Cl- E	
500-213350-8	R08S	Total/NA	Water	SM 4500 Cl- E	
500-213350-9	G33S	Total/NA	Water	SM 4500 Cl- E	
500-213350-10	T01S	Total/NA	Water	SM 4500 Cl- E	
500-213350-11	T08S	Total/NA	Water	SM 4500 Cl- E	
500-213350-12	T03S	Total/NA	Water	SM 4500 Cl- E	
500-213350-13	G20S	Total/NA	Water	SM 4500 Cl- E	
500-213350-14	G30S	Total/NA	GW	SM 4500 Cl- E	
500-213350-15	G44S	Total/NA	Water	SM 4500 Cl- E	
500-213350-16	G48S	Total/NA	Water	SM 4500 Cl- E	
500-213350-17	G47S	Total/NA	Water	SM 4500 Cl- E	
500-213350-18	R32S	Total/NA	Water	SM 4500 Cl- E	

General Chemistry (Continued)

Analysis Batch: 648185 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-213350-19	G45S	Total/NA	Water	SM 4500 Cl- E	
MB 500-648185/58	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 500-648185/59	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 648186

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-213350-1	T09S	Total/NA	Water	SM 4500 SO4 E	
500-213350-2	T09S DUP	Total/NA	Water	SM 4500 SO4 E	
500-213350-3	T06S	Total/NA	Water	SM 4500 SO4 E	
500-213350-4	T05S	Total/NA	Water	SM 4500 SO4 E	
500-213350-5	T02S	Total/NA	Water	SM 4500 SO4 E	
500-213350-6	G31S	Total/NA	Water	SM 4500 SO4 E	
500-213350-7	G46S	Total/NA	Water	SM 4500 SO4 E	
500-213350-8	R08S	Total/NA	Water	SM 4500 SO4 E	
500-213350-9	G33S	Total/NA	Water	SM 4500 SO4 E	
500-213350-10	T01S	Total/NA	Water	SM 4500 SO4 E	
500-213350-11	T08S	Total/NA	Water	SM 4500 SO4 E	
500-213350-12	T03S	Total/NA	Water	SM 4500 SO4 E	
500-213350-13	G20S	Total/NA	Water	SM 4500 SO4 E	
500-213350-14	G30S	Total/NA	GW	SM 4500 SO4 E	
500-213350-15	G44S	Total/NA	Water	SM 4500 SO4 E	
500-213350-16	G48S	Total/NA	Water	SM 4500 SO4 E	
500-213350-17	G47S	Total/NA	Water	SM 4500 SO4 E	
500-213350-18	R32S	Total/NA	Water	SM 4500 SO4 E	
500-213350-19	G45S	Total/NA	Water	SM 4500 SO4 E	
MB 500-648186/42	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-648186/43	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	

Field Service / Mobile Lab

Analysis Batch: 646667

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-213350-1	T09S	Total/NA	Water	Field Sampling	
500-213350-2	T09S DUP	Total/NA	Water	Field Sampling	
500-213350-3	T06S	Total/NA	Water	Field Sampling	
500-213350-4	T05S	Total/NA	Water	Field Sampling	
500-213350-5	T02S	Total/NA	Water	Field Sampling	
500-213350-6	G31S	Total/NA	Water	Field Sampling	
500-213350-7	G46S	Total/NA	Water	Field Sampling	
500-213350-8	R08S	Total/NA	Water	Field Sampling	
500-213350-9	G33S	Total/NA	Water	Field Sampling	
500-213350-10	T01S	Total/NA	Water	Field Sampling	
500-213350-11	T08S	Total/NA	Water	Field Sampling	
500-213350-12	T03S	Total/NA	Water	Field Sampling	
500-213350-13	G20S	Total/NA	Water	Field Sampling	
500-213350-14	G30S	Total/NA	GW	Field Sampling	
500-213350-15	G44S	Total/NA	Water	Field Sampling	
500-213350-16	G48S	Total/NA	Water	Field Sampling	
500-213350-17	G47S	Total/NA	Water	Field Sampling	
500-213350-18	R32S	Total/NA	Water	Field Sampling	
500-213350-19	G45S	Total/NA	Water	Field Sampling	

Field Service / Mobile Lab (Continued)

Analysis Batch: 646667 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-213350-20	T04S	Total/NA	Water	Field Sampling	

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 500-647664/1-A
Matrix: Water
Analysis Batch: 647950

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 647664

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		03/18/22 07:53	03/18/22 16:16	1
Arsenic	<0.0010		0.0010		mg/L		03/18/22 07:53	03/18/22 16:16	1
Barium	<0.0025		0.0025		mg/L		03/18/22 07:53	03/18/22 16:16	1
Beryllium	<0.0010		0.0010		mg/L		03/18/22 07:53	03/18/22 16:16	1
Cadmium	<0.00050		0.00050		mg/L		03/18/22 07:53	03/18/22 16:16	1
Calcium	<0.20		0.20		mg/L		03/18/22 07:53	03/18/22 16:16	1
Chromium	<0.0050		0.0050		mg/L		03/18/22 07:53	03/18/22 16:16	1
Cobalt	<0.0010		0.0010		mg/L		03/18/22 07:53	03/18/22 16:16	1
Lead	<0.00050		0.00050		mg/L		03/18/22 07:53	03/18/22 16:16	1
Lithium	<0.0020		0.0020		mg/L		03/18/22 07:53	03/18/22 16:16	1
Molybdenum	<0.0050		0.0050		mg/L		03/18/22 07:53	03/18/22 16:16	1
Selenium	<0.0025		0.0025		mg/L		03/18/22 07:53	03/18/22 16:16	1
Thallium	<0.0020		0.0020		mg/L		03/18/22 07:53	03/18/22 16:16	1

Lab Sample ID: MB 500-647664/1-A
Matrix: Water
Analysis Batch: 648012

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 647664

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.050		0.050		mg/L		03/18/22 07:53	03/21/22 14:51	1

Lab Sample ID: LCS 500-647664/2-A
Matrix: Water
Analysis Batch: 647950

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 647664

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.501		mg/L		100	80 - 120
Arsenic	0.100	0.0964		mg/L		96	80 - 120
Barium	0.500	0.502		mg/L		100	80 - 120
Beryllium	0.0500	0.0477		mg/L		95	80 - 120
Cadmium	0.0500	0.0492		mg/L		98	80 - 120
Calcium	10.0	9.69		mg/L		97	80 - 120
Chromium	0.200	0.206		mg/L		103	80 - 120
Cobalt	0.500	0.510		mg/L		102	80 - 120
Lead	0.100	0.103		mg/L		103	80 - 120
Lithium	0.100	0.0960		mg/L		96	80 - 120
Molybdenum	1.00	0.943		mg/L		94	80 - 120
Selenium	0.100	0.0976		mg/L		98	80 - 120
Thallium	0.100	0.102		mg/L		102	80 - 120

Lab Sample ID: LCS 500-647664/2-A
Matrix: Water
Analysis Batch: 648012

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 647664

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.00	1.04		mg/L		104	80 - 120

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

Lab Sample ID: 500-213350-1 MS
Matrix: Water
Analysis Batch: 647950

Client Sample ID: T09S
Prep Type: Total Recoverable
Prep Batch: 647664

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	<0.0030		0.500	0.521		mg/L		104	75 - 125
Arsenic	0.0030		0.100	0.105		mg/L		102	75 - 125
Barium	0.064		0.500	0.552		mg/L		98	75 - 125
Beryllium	<0.0010		0.0500	0.0440		mg/L		88	75 - 125
Cadmium	<0.00050		0.0500	0.0493		mg/L		98	75 - 125
Calcium	130		10.0	139	4	mg/L		86	75 - 125
Chromium	<0.0050		0.200	0.194		mg/L		97	75 - 125
Cobalt	0.0012		0.500	0.484		mg/L		97	75 - 125
Lead	0.00058		0.100	0.101		mg/L		101	75 - 125
Lithium	0.13		0.100	0.217		mg/L		91	75 - 125
Molybdenum	1.5		1.00	2.54		mg/L		99	75 - 125
Selenium	<0.0025		0.100	0.105		mg/L		105	75 - 125
Thallium	<0.0020		0.100	0.0994		mg/L		99	75 - 125

Lab Sample ID: 500-213350-1 MS
Matrix: Water
Analysis Batch: 648012

Client Sample ID: T09S
Prep Type: Total Recoverable
Prep Batch: 647664

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	13		1.00	12.8	4	mg/L		-19	75 - 125

Lab Sample ID: 500-213350-1 MSD
Matrix: Water
Analysis Batch: 647950

Client Sample ID: T09S
Prep Type: Total Recoverable
Prep Batch: 647664

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	<0.0030		0.500	0.525		mg/L		105	75 - 125	1	20
Arsenic	0.0030		0.100	0.105		mg/L		102	75 - 125	0	20
Barium	0.064		0.500	0.555		mg/L		98	75 - 125	1	20
Beryllium	<0.0010		0.0500	0.0452		mg/L		90	75 - 125	3	20
Cadmium	<0.00050		0.0500	0.0499		mg/L		99	75 - 125	1	20
Calcium	130		10.0	139	4	mg/L		86	75 - 125	0	20
Chromium	<0.0050		0.200	0.195		mg/L		98	75 - 125	0	20
Cobalt	0.0012		0.500	0.491		mg/L		98	75 - 125	2	20
Lead	0.00058		0.100	0.103		mg/L		103	75 - 125	2	20
Lithium	0.13		0.100	0.217		mg/L		91	75 - 125	0	20
Molybdenum	1.5		1.00	2.52		mg/L		98	75 - 125	1	20
Selenium	<0.0025		0.100	0.105		mg/L		105	75 - 125	0	20
Thallium	<0.0020		0.100	0.101		mg/L		101	75 - 125	2	20

Lab Sample ID: 500-213350-1 MSD
Matrix: Water
Analysis Batch: 648012

Client Sample ID: T09S
Prep Type: Total Recoverable
Prep Batch: 647664

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	13		1.00	12.8	4	mg/L		-18	75 - 125	0	20

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

Lab Sample ID: 500-213350-1 DU
Matrix: Water
Analysis Batch: 647950

Client Sample ID: T09S
Prep Type: Total Recoverable
Prep Batch: 647664

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	<0.0030		<0.0030		mg/L		NC	20
Arsenic	0.0030		0.00288		mg/L		2	20
Barium	0.064		0.0621		mg/L		2	20
Beryllium	<0.0010		<0.0010		mg/L		NC	20
Cadmium	<0.00050		<0.00050		mg/L		NC	20
Calcium	130		130		mg/L		0.4	20
Chromium	<0.0050		<0.0050		mg/L		NC	20
Cobalt	0.0012		<0.0010		mg/L		NC	20
Lead	0.00058		0.000520		mg/L		10	20
Lithium	0.13		0.126		mg/L		0.8	20
Molybdenum	1.5		1.54		mg/L		0.3	20
Selenium	<0.0025		<0.0025		mg/L		NC	20
Thallium	<0.0020		<0.0020		mg/L		NC	20

Lab Sample ID: 500-213350-1 DU
Matrix: Water
Analysis Batch: 648012

Client Sample ID: T09S
Prep Type: Total Recoverable
Prep Batch: 647664

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Boron	13		11.9		mg/L		8	20

Lab Sample ID: MB 500-649736/1-A
Matrix: Water
Analysis Batch: 650072

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 649736

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Molybdenum	<0.0050		0.0050		mg/L		03/31/22 16:51	04/01/22 15:27	1

Lab Sample ID: LCS 500-649736/2-A
Matrix: Water
Analysis Batch: 650072

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 649736

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Molybdenum	1.00	0.968		mg/L		97	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-647262/12-A
Matrix: Water
Analysis Batch: 647539

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 647262

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/16/22 10:10	03/17/22 09:42	1

Lab Sample ID: LCS 500-647262/13-A
Matrix: Water
Analysis Batch: 647539

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 647262

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

Method: 7470A - Mercury (CVAA)

Lab Sample ID: 500-213350-10 MS
Matrix: Water
Analysis Batch: 647539

Client Sample ID: T01S
Prep Type: Total/NA
Prep Batch: 647262

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury	<0.00020		0.00100	0.00106		mg/L		106	75 - 125		

Lab Sample ID: 500-213350-10 MSD
Matrix: Water
Analysis Batch: 647539

Client Sample ID: T01S
Prep Type: Total/NA
Prep Batch: 647262

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.00020		0.00100	0.00104		mg/L		104	75 - 125	2	20

Lab Sample ID: 500-213350-10 DU
Matrix: Water
Analysis Batch: 647539

Client Sample ID: T01S
Prep Type: Total/NA
Prep Batch: 647262

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

Lab Sample ID: MB 500-647536/12-A
Matrix: Water
Analysis Batch: 647747

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 647536

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/17/22 10:35	03/18/22 08:18	1

Lab Sample ID: LCS 500-647536/13-A
Matrix: Water
Analysis Batch: 647747

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 647536

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00200	0.00205		mg/L		102	80 - 120

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

Lab Sample ID: MB 500-646556/1
Matrix: Water
Analysis Batch: 646556

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			03/11/22 02:41	1

Lab Sample ID: LCS 500-646556/2
Matrix: Water
Analysis Batch: 646556

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	244		mg/L		98	80 - 120

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

Lab Sample ID: MB 500-646780/1
Matrix: Water
Analysis Batch: 646780

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			03/14/22 05:49	1

Lab Sample ID: LCS 500-646780/2
Matrix: Water
Analysis Batch: 646780

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	244		mg/L		98	80 - 120

Lab Sample ID: 500-213350-6 DU
Matrix: Water
Analysis Batch: 646780

Client Sample ID: G31S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	1000		1060		mg/L		4	5

Lab Sample ID: MB 500-647142/1
Matrix: Water
Analysis Batch: 647142

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			03/16/22 02:41	1

Lab Sample ID: LCS 500-647142/2
Matrix: Water
Analysis Batch: 647142

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	244		mg/L		98	80 - 120

Lab Sample ID: MB 500-647391/1
Matrix: Water
Analysis Batch: 647391

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			03/17/22 03:28	1

Lab Sample ID: LCS 500-647391/2
Matrix: Water
Analysis Batch: 647391

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	278		mg/L		111	80 - 120

Lab Sample ID: 500-213350-16 MS
Matrix: Water
Analysis Batch: 647391

Client Sample ID: G48S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	1100		250	1340	4	mg/L		94	75 - 125

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

Lab Sample ID: 500-213350-16 DU
Matrix: Water
Analysis Batch: 647391

Client Sample ID: G48S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	1100			1100		mg/L				0.7	5

Lab Sample ID: 500-213350-17 DU
Matrix: Water
Analysis Batch: 647391

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	1200			1130		mg/L				4	5

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 500-648185/58
Matrix: Water
Analysis Batch: 648185

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			03/22/22 11:30	1

Lab Sample ID: LCS 500-648185/59
Matrix: Water
Analysis Batch: 648185

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	20.4		mg/L		102	85 - 115		

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-646928/3
Matrix: Water
Analysis Batch: 646928

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			03/14/22 10:33	1

Lab Sample ID: MB 500-646928/31
Matrix: Water
Analysis Batch: 646928

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			03/14/22 12:18	1

Lab Sample ID: LCS 500-646928/32
Matrix: Water
Analysis Batch: 646928

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		

Method: SM 4500 F C - Fluoride (Continued)

Lab Sample ID: LCS 500-646928/4
Matrix: Water
Analysis Batch: 646928

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	10.6		mg/L		106	90 - 119

Lab Sample ID: 500-213350-4 MS
Matrix: Water
Analysis Batch: 646928

Client Sample ID: T05S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	1.7		5.00	7.05		mg/L		108	75 - 125

Lab Sample ID: 500-213350-4 MSD
Matrix: Water
Analysis Batch: 646928

Client Sample ID: T05S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	1.7		5.00	7.05		mg/L		108	75 - 125	0	20

Lab Sample ID: MB 500-647983/3
Matrix: Water
Analysis Batch: 647983

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			03/21/22 09:10	1

Lab Sample ID: LCS 500-647983/4
Matrix: Water
Analysis Batch: 647983

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	10.4		mg/L		104	90 - 119

Lab Sample ID: 500-213350-10 MS
Matrix: Water
Analysis Batch: 647983

Client Sample ID: T01S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	1.2		5.00	6.35		mg/L		103	75 - 125

Lab Sample ID: 500-213350-10 MSD
Matrix: Water
Analysis Batch: 647983

Client Sample ID: T01S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	1.2		5.00	6.35		mg/L		103	75 - 125	0	20

Client: KPRG and Associates, Inc.
Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-1

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 500-648186/42
Matrix: Water
Analysis Batch: 648186

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			03/22/22 13:09	1

Lab Sample ID: LCS 500-648186/43
Matrix: Water
Analysis Batch: 648186

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	18.1		mg/L		91	88 - 123

Chain of Custody Record

538322

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Address. _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TAL-8210

Client Contact	Project Manager: Diana Mockler	Site Contact	Date	COC No
Company Name: Midwest Generation EME LLC	Tel/Email	Lab Contact	Carrier	____ of ____ COCs
Address	Analysis Turnaround Time			Sampler
City/State/Zip: Joliet, IL.	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only.
Phone	TAT if different from Below ____			Walk-in Client
Fax	☐ 2 weeks			Lab Sampling
Project Name: Joliet #9 (Quarry) CCR	☐ 1 week			
Site: 1Q22 GW	☐ 2 days			Job / SDG No: 500-213350
P O #	☐ 1 day			

500-213350 COC

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Radium 226	Radium 228	Combined 226/228	Metals 14 elements + Hg	TDS, Fl, Cl, SO4	Sample Specific Notes
1 TQ9S	03/08/22	0953		W	5			✓	✓	✓	✓	✓	
2 TQ9S DUP	03/08/22	0953		W	5			✓	✓	✓	✓	✓	
3 TQ6S	03/08/22	1255		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

☐ 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 2.8 Corr'd ____ | Therm ID No ____

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
	ETA	03/08/22 1450			
Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company	Date/Time
			[signature]	EEA	3/8/22 1450

Chain of Custody Record

538323

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Address: _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TAL-8210

Client Contact	Project Manager: Diana MacKie	Site Contact:	Date:	COC No:
Company Name: Midwest Generation EME LLC	Tel/Email:	Lab Contact:	Carrier:	_____ of _____ COCs
Address:	Analysis Turnaround Time			Sampler:
City/State/Zip: Joliet, IL	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone:	TAT if different from Below _____			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: Joliet #9 (Quarry) CCR	☐ 1 week			
Site: 1022 GW	☐ 2 days			Job / SDG No.:
PO #	☐ 1 day			500-213350

500-213350 COC

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	Radium 226	Radium 228	Combined 226/228	Metals 14 elements + Hg	TDS, Fl, Cl, SO4	Sample Specific Notes:
TOSS	03/10/22	1007		W	5			✓	✓	✓	✓	✓	
TO2S	03/10/22	1249		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.

☐ 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: 1.6 Corr'd: 1.1		Therm ID No.: _____
Relinquished by:	Company: ETA	Date/Time: 03/10/22	Received by:	Company: ETA	Date/Time: 3/10/22 1450
Relinquished by:	Company: ETA 1450	Date/Time: 3/10/22	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: PEMA	Date/Time: 3/10/22 1450

Chain of Custody Record

538324

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Address: _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TAL-8210

Client Contact	Project Manager:	Site Contact:	Date:	COC No:
Company Name: Midwest Generation EME LLC	Tel/Email:	Lab Contact:	Carrier:	_____ of _____ COCs
Address:	Analysis Turnaround Time			Sampler:
City/State/Zip: Joliet, IL	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone:	TAT if different from Below _____			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: Joliet #9 (Quarry) CCR	☐ 1 week			Job / SDG No.: 500-213350
Site: 1Q22 GW	☐ 2 days			
P O #	☐ 1 day			

500-213350 COC

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	Radium 226	Radium 228	Combined 226/228	Metals 14 elements + Hg	TDS, Fl, Cl, SO4	Sample Specific Notes:
G315	03/11/22	0944		W	5			/	/	/	/	/	
G465	03/11/22	1056		W	5			/	/	/	/	/	
R085	03/11/22	1235		W	5			/	/	/	/	/	
G335	03/11/22	1392		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.

☐ 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: 2.1 Corr'd: _____ Therm ID No.: _____

	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	ETA	03/11/22 1527			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time: 3/11/22 1527

Chain of Custody Record

542109

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Address _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TAL-8210

Client Contact	Project Manager: Diana Meckler	Site Contact:	Date	COC No
Company Name: Midwest Generation EME LLC	Tel/Email	Lab Contact:	Carrier	_____ of _____ COCs
Address	Analysis Turnaround Time			Sampler
City/State/Zip: Joliet, IL.	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only
Phone	TAT if different from Below _____			Walk-in Client
Fax	☐ 2 weeks			Lab Sampling
Project Name: Joliet #9 Quarry CCR	☐ 1 week			
Site: 1Q22 GW	☐ 2 days			Job / SDG No: 500-213350
P O #	☐ 1 day			

213350 COC

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Radium 226	Radium 228	Radium 226+228 Combined	Metals 14 element+Hg	TDS, Fl, Cl, SO4	Sample Specific Notes
TO1S	03/14/22	0952		W	5			✓	✓	✓	✓	✓	
TO8S	03/14/22	1149		W	5			✓	✓	✓	✓	✓	
TO3S	03/14/22	1345		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.

☐ 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. 1.9 Corr'd 1.4 Therm ID No _____

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
[signature]	ETA	03/14/22 1456			
Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received by/Laboratory by: [signature]	Company: BETA	Date/Time: 3/14/22 1456

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

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: Nee L, John H.	Lab PM: Mockler Diana J	Carrie	COC No. 500-99504-43521 1
Client Contact: DeAndre Cooley	Phone	E-Mail: Diana Mockler@Eurofinset.com	State	Page: Page 1 of 2
Company: Midwest Generation EME LLC	PWSID			Job #: 500-213350
Address: 1800 Channahon Road	Due Date Requested			
City: Joliet	TAT Requested (days)			
State Zip: IL 60436	Compliance Project. Δ Yes Δ No			
Phone: 779-279-2321(Tel)	PO #: 4502085968			
Email: deandre cooley@nrg com	WO #:			
Project Name: Joliet #9 CCR	Project #: 50011504			
Site: Illinois	SSOW#:			

Analysis Reques

213350 COC

Preservation Codes

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

Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0 - Standard Target List	Ra226Ra228_GFPC - Local Method	904.0 - Standard Target List	6020A, 7470A	2540C, 4500_F_C, SM4500_Cl_E, SM4500_SO4_E	Total Number of containers	Special Instructions/Note
				Preservation Code:				D	D	D	D	N		
13	[redacted] G20S	03/15/22	0930		Water			✓	✓	✓	✓	✓		
14	[redacted] G30S	03/15/22	1143		Water			✓	✓	✓	✓	✓		
15	[redacted] G44S	03/15/22	1349		Water			✓	✓	✓	✓	✓		
	[redacted]				Water									
	[redacted]				Water									
	[redacted]				Water									
	[redacted]				Water									
	[redacted]				Water									
	[redacted]				Water									
	[redacted]				Water									
	[redacted]				Water									
	[redacted]				Water									

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

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

Deliverable Requested I II III IV Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by:	Date	Time	Method of Shipment:

	Date/Time	Company	Received by	Date/Time	Company
Relinquished by:	03/15/22e 1452	ETA	Stephanie Hernandez	3/15/22 1452	ETA
Relinquished by:	Date/Time.	Company	Received by:	Date/Time	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks
		2.3

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

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: Noe L, John H.	Lab PM: Mockler Diana J	Carrier Tracking No(s)	COC No: 500-99504-43521 2
Client Contact: DeAndre Cooley	Phone	E-Mail: Diana Mockler@Eurofinset.com	State of Origin	Page: Page ~~2 of 2~~
Company: Midwest Generation EME LLC	PWSID	Analysis Requested		Job #: 500-213350

Address: 1800 Channahon Road	Due Date Requested		
City: Joliet	TAT Requested (days):		
State, Zip: IL 60436	Compliance Project. Δ Yes Δ No		
Phone: 779-279-2321(Tel)	PO #: 4502085968		
Email: deandre cooley@nrg com	WO #:		
Project Name: Joliet #9 CCR	Project #: 50011504		
Site: Illinois	SSOW#:		

213350 COC

Preservation Codes

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

Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0 - Standard Target List	Ra226Ra228_GFPC - Local Method	904.0 Standard Target List	6020A, 7470A	2540C, 4500_F_C, SM4500_Cl_E, SM4500_SO4_E	Total Number of containers	Special Instructions/Note
				Preservation Code:				D	D	D	D	N		
16	[redacted] G48S	03/16/22	0928		Water			✓	✓	✓	✓	✓	5	
17	[redacted] G47S	03/16/22	1055		Water			✓	✓	✓	✓	✓	5	
18	[redacted] R32S	03/16/22	1244		Water			✓	✓	✓	✓	✓	5	
19	[redacted] G45S	03/16/22	1331		Water			✓	✓	✓	✓	✓		
20	[redacted] T04S	03/16/22	1410		Water								1	Unable to sample due to Property development/Excavation
	[redacted]				Water									
	[redacted]				Water									
	[redacted]				Water									
	[redacted]				Water									

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

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

Deliverable Requested I II III IV Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment:

	Date/Time	Company	Received by	Date/Time	Company
Relinquished by:	03/16/22 @ 1455	ETA		3/16/22 1455	ETA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact. Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks: 3.1

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

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Mockler, Diana J	Carrier Tracking No(s):	COC No: 500-158034.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Diana.Mockler@Eurofinset.com	State of Origin: Illinois	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #: 500-213350-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 3/29/2022			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: Joliet #9 (Quarry) CCR	Project #: 50011504			
Site: NRG Midwest Generation LSQ Joliet #9 CCR	SSOW#:			

Analysis Requested

Preservation Codes:

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

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PrecSep_21 Standard Target List	904.0/PrecSep_0 Standard Target List	Ra226Ra228_GFPC	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
T05S (500-213350-4)	3/10/22	10:07 Central		Water			X	X	X	3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;
T02S (500-213350-5)	3/10/22	12:49 Central		Water			X	X	X	3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC 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/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing North Central, LLC.

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

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

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Shari Scott	3/10/22 1530	BETA	FE		
2	FE				3-11-22 0909	ETASTL
3						

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

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

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Mockler, Diana J	Carrier Tracking No(s):	COC No: 500-158090.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Diana.Mockler@Eurofinset.com	State of Origin: Illinois	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #: 500-213350-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 3/29/2022			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: Joliet #9 (Quarry) CCR 1Q22	Project #: 50011504			
Site: NRG Midwest Generation LSQ Joliet #9 CCR	SSOW#:			

Analysis Requested

Preservation Codes:

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

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PrecSep_21 Standard Target List	904.0/PrecSep_0 Standard Target List	Ra226Ra228_GFPC	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
G31S (500-213350-6)	3/11/22	09:44 Central		Water			X	X	X	3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;
G46S (500-213350-7)	3/11/22	10:56 Central		Water			X	X	X	3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;
R08S (500-213350-8)	3/11/22	12:35 Central		Water			X	X	X	3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;
G33S (500-213350-9)	3/11/22	13:32 Central		Water			X	X	X	3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC 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/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing North Central, LLC.

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

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

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature] FED EX	3/11/22 1540	EETA	FED EX		
2	Relinquished by: FED EX	Date/Time:	Company	Received by: [signature]	Date/Time: MAR 14 2022 0830	Company EETA STL
3	Relinquished by:	Date/Time:	Company	Received by: Autumn R. Johnson	Date/Time:	Company

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

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-213350-1

Login Number: 213350
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.8,1.1,1.1,1.4,2.3,3.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Client Sample ID: T09S

Lab Sample ID: 500-213350-1

Date Collected: 03/08/22 09:53

Matrix: Water

Date Received: 03/08/22 14:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			647664	03/18/22 07:53	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	647950	03/18/22 16:23	FXG	TAL CHI
Total Recoverable	Prep	3005A			647664	03/18/22 07:53	BDE	TAL CHI
Total Recoverable	Analysis	6020A		50	648012	03/21/22 12:59	FXG	TAL CHI
Total/NA	Prep	7470A			647262	03/16/22 10:10	MJG	TAL CHI
Total/NA	Analysis	7470A		1	647539	03/17/22 09:48	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	646556	03/11/22 03:19	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		2	648185	03/22/22 11:31	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	646928	03/14/22 12:03	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	648186	03/22/22 13:12	LP	TAL CHI
Total/NA	Analysis	Field Sampling		1	646667	03/08/22 09:53	JVB	TAL CHI

Client Sample ID: T09S DUP

Lab Sample ID: 500-213350-2

Date Collected: 03/08/22 09:53

Matrix: Water

Date Received: 03/08/22 14:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			647664	03/18/22 07:53	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	647950	03/18/22 16:41	FXG	TAL CHI
Total Recoverable	Prep	3005A			647664	03/18/22 07:53	BDE	TAL CHI
Total Recoverable	Analysis	6020A		50	648012	03/21/22 13:24	FXG	TAL CHI
Total/NA	Prep	7470A			647262	03/16/22 10:10	MJG	TAL CHI
Total/NA	Analysis	7470A		1	647539	03/17/22 09:50	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	646556	03/11/22 03:22	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		2	648185	03/22/22 11:32	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	646928	03/14/22 12:07	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	648186	03/22/22 13:13	LP	TAL CHI
Total/NA	Analysis	Field Sampling		1	646667	03/08/22 09:53	JVB	TAL CHI

Client Sample ID: T06S

Lab Sample ID: 500-213350-3

Date Collected: 03/08/22 12:55

Matrix: Water

Date Received: 03/08/22 14:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			647664	03/18/22 07:53	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	647950	03/18/22 16:44	FXG	TAL CHI
Total Recoverable	Prep	3005A			647664	03/18/22 07:53	BDE	TAL CHI
Total Recoverable	Analysis	6020A		5	648012	03/21/22 13:27	FXG	TAL CHI
Total/NA	Prep	7470A			647262	03/16/22 10:10	MJG	TAL CHI
Total/NA	Analysis	7470A		1	647539	03/17/22 09:52	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	646556	03/11/22 03:24	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		1	648185	03/22/22 11:32	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	646928	03/14/22 12:11	EAT	TAL CHI

Client Sample ID: T06S
Lab Sample ID: 500-213350-3

Date Collected: 03/08/22 12:55
Matrix: Water
Date Received: 03/08/22 14:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 SO4 E		5	648186	03/22/22 13:13	LP	TAL CHI
Total/NA	Analysis	Field Sampling		1	646667	03/08/22 12:55	JVB	TAL CHI

Client Sample ID: T05S
Lab Sample ID: 500-213350-4

Date Collected: 03/10/22 10:07
Matrix: Water
Date Received: 03/10/22 14:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			647664	03/18/22 07:53	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	647950	03/18/22 16:48	FXG	TAL CHI
Total Recoverable	Prep	3005A			647664	03/18/22 07:53	BDE	TAL CHI
Total Recoverable	Analysis	6020A		50	648012	03/21/22 13:31	FXG	TAL CHI
Total/NA	Prep	7470A			647262	03/16/22 10:10	MJG	TAL CHI
Total/NA	Analysis	7470A		1	647539	03/17/22 09:59	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	646556	03/11/22 03:27	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		5	648185	03/22/22 11:48	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	646928	03/14/22 12:24	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		25	648186	03/22/22 14:08	LP	TAL CHI
Total/NA	Analysis	Field Sampling		1	646667	03/10/22 10:07	JVB	TAL CHI

Client Sample ID: T02S
Lab Sample ID: 500-213350-5

Date Collected: 03/10/22 12:49
Matrix: Water
Date Received: 03/10/22 14:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			647664	03/18/22 07:53	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	647950	03/18/22 16:58	FXG	TAL CHI
Total Recoverable	Prep	3005A			647664	03/18/22 07:53	BDE	TAL CHI
Total Recoverable	Analysis	6020A		20	648012	03/21/22 13:34	FXG	TAL CHI
Total/NA	Prep	7470A			647262	03/16/22 10:10	MJG	TAL CHI
Total/NA	Analysis	7470A		1	647539	03/17/22 10:01	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	646556	03/11/22 03:30	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		3	648185	03/22/22 11:32	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	646928	03/14/22 12:33	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	648186	03/22/22 13:14	LP	TAL CHI
Total/NA	Analysis	Field Sampling		1	646667	03/10/22 12:49	JVB	TAL CHI

Client Sample ID: G31S
Lab Sample ID: 500-213350-6

Date Collected: 03/11/22 09:44
Matrix: Water
Date Received: 03/11/22 15:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			647664	03/18/22 07:53	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	647950	03/18/22 17:02	FXG	TAL CHI

Client Sample ID: G31S

Lab Sample ID: 500-213350-6

Date Collected: 03/11/22 09:44

Matrix: Water

Date Received: 03/11/22 15:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			647664	03/18/22 07:53	BDE	TAL CHI
Total Recoverable	Analysis	6020A		20	648012	03/21/22 13:38	FXG	TAL CHI
Total/NA	Prep	7470A			647262	03/16/22 10:10	MJG	TAL CHI
Total/NA	Analysis	7470A		1	647539	03/17/22 10:03	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	646780	03/14/22 06:09	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		5	648185	03/22/22 11:33	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	646928	03/14/22 12:48	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	648186	03/22/22 13:14	LP	TAL CHI
Total/NA	Analysis	Field Sampling		1	646667	03/11/22 09:44	JVB	TAL CHI

Client Sample ID: G46S

Lab Sample ID: 500-213350-7

Date Collected: 03/11/22 10:56

Matrix: Water

Date Received: 03/11/22 15:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			647664	03/18/22 07:53	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	647950	03/18/22 17:05	FXG	TAL CHI
Total Recoverable	Prep	3005A			647664	03/18/22 07:53	BDE	TAL CHI
Total Recoverable	Analysis	6020A		50	648012	03/21/22 13:41	FXG	TAL CHI
Total/NA	Prep	7470A			647262	03/16/22 10:10	MJG	TAL CHI
Total/NA	Analysis	7470A		1	647539	03/17/22 10:05	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	646780	03/14/22 06:14	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		2	648185	03/22/22 11:33	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	646928	03/14/22 12:52	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	648186	03/22/22 13:14	LP	TAL CHI
Total/NA	Analysis	Field Sampling		1	646667	03/11/22 10:56	JVB	TAL CHI

Client Sample ID: R08S

Lab Sample ID: 500-213350-8

Date Collected: 03/11/22 12:35

Matrix: Water

Date Received: 03/11/22 15:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			647664	03/18/22 07:53	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	647950	03/18/22 17:09	FXG	TAL CHI
Total Recoverable	Prep	3005A			647664	03/18/22 07:53	BDE	TAL CHI
Total Recoverable	Analysis	6020A		20	648012	03/21/22 13:45	FXG	TAL CHI
Total/NA	Prep	7470A			647262	03/16/22 10:10	MJG	TAL CHI
Total/NA	Analysis	7470A		1	647539	03/17/22 10:07	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	646780	03/14/22 06:17	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		2	648185	03/22/22 11:33	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	646928	03/14/22 12:56	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	648186	03/22/22 13:15	LP	TAL CHI
Total/NA	Analysis	Field Sampling		1	646667	03/11/22 12:35	JVB	TAL CHI

Client Sample ID: G33S

Lab Sample ID: 500-213350-9

Date Collected: 03/11/22 13:32

Matrix: Water

Date Received: 03/11/22 15:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			647664	03/18/22 07:53	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	647950	03/18/22 17:12	FXG	TAL CHI
Total Recoverable	Prep	3005A			647664	03/18/22 07:53	BDE	TAL CHI
Total Recoverable	Analysis	6020A		5	648012	03/21/22 13:48	FXG	TAL CHI
Total/NA	Prep	7470A			647262	03/16/22 10:10	MJG	TAL CHI
Total/NA	Analysis	7470A		1	647539	03/17/22 10:10	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	646780	03/14/22 06:20	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		1	648185	03/22/22 11:34	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	646928	03/14/22 12:59	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		2	648186	03/22/22 13:57	LP	TAL CHI
Total/NA	Analysis	Field Sampling		1	646667	03/11/22 13:32	JVB	TAL CHI

Client Sample ID: T01S

Lab Sample ID: 500-213350-10

Date Collected: 03/14/22 09:52

Matrix: Water

Date Received: 03/14/22 14:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			647664	03/18/22 07:53	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	647950	03/18/22 17:16	FXG	TAL CHI
Total Recoverable	Prep	3005A			647664	03/18/22 07:53	BDE	TAL CHI
Total Recoverable	Analysis	6020A		10	648012	03/21/22 13:52	FXG	TAL CHI
Total/NA	Prep	7470A			647262	03/16/22 10:10	MJG	TAL CHI
Total/NA	Analysis	7470A		1	647539	03/17/22 10:12	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	647142	03/16/22 03:04	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		3	648185	03/22/22 11:34	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	647983	03/21/22 09:17	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	648186	03/22/22 13:15	LP	TAL CHI
Total/NA	Analysis	Field Sampling		1	646667	03/14/22 09:52	JVB	TAL CHI

Client Sample ID: T08S

Lab Sample ID: 500-213350-11

Date Collected: 03/14/22 11:49

Matrix: Water

Date Received: 03/14/22 14:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			647664	03/18/22 07:53	BDE	TAL CHI
Total Recoverable	Analysis	6020A		5	648012	03/21/22 14:20	FXG	TAL CHI
Total Recoverable	Prep	3005A			647664	03/18/22 07:53	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	648012	03/21/22 15:22	FXG	TAL CHI
Total/NA	Prep	7470A			647262	03/16/22 10:10	MJG	TAL CHI
Total/NA	Analysis	7470A		1	647539	03/17/22 10:24	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	647142	03/16/22 03:06	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		3	648185	03/22/22 11:34	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	647983	03/21/22 09:26	EAT	TAL CHI

Client Sample ID: T08S

Lab Sample ID: 500-213350-11

Date Collected: 03/14/22 11:49

Matrix: Water

Date Received: 03/14/22 14:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 SO4 E		20	648186	03/22/22 13:15	LP	TAL CHI
Total/NA	Analysis	Field Sampling		1	646667	03/14/22 11:49	JVB	TAL CHI

Client Sample ID: T03S

Lab Sample ID: 500-213350-12

Date Collected: 03/14/22 13:45

Matrix: Water

Date Received: 03/14/22 14:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			647664	03/18/22 07:53	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	647950	03/18/22 17:23	FXG	TAL CHI
Total Recoverable	Prep	3005A			647664	03/18/22 07:53	BDE	TAL CHI
Total Recoverable	Analysis	6020A		50	648012	03/21/22 14:23	FXG	TAL CHI
Total/NA	Prep	7470A			647262	03/16/22 10:10	MJG	TAL CHI
Total/NA	Analysis	7470A		1	647539	03/17/22 10:27	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	647142	03/16/22 03:09	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		5	648185	03/22/22 11:35	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	647983	03/21/22 09:29	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	648186	03/22/22 13:17	LP	TAL CHI
Total/NA	Analysis	Field Sampling		1	646667	03/14/22 13:45	JVB	TAL CHI

Client Sample ID: G20S

Lab Sample ID: 500-213350-13

Date Collected: 03/15/22 09:30

Matrix: Water

Date Received: 03/15/22 14:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			647664	03/18/22 07:53	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	647950	03/18/22 17:26	FXG	TAL CHI
Total Recoverable	Prep	3005A			647664	03/18/22 07:53	BDE	TAL CHI
Total Recoverable	Analysis	6020A		10	648012	03/21/22 14:27	FXG	TAL CHI
Total/NA	Prep	7470A			647262	03/16/22 10:10	MJG	TAL CHI
Total/NA	Analysis	7470A		1	647539	03/17/22 10:29	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	647142	03/16/22 03:12	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		1	648185	03/22/22 11:35	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	647983	03/21/22 09:33	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		2	648186	03/22/22 13:57	LP	TAL CHI
Total/NA	Analysis	Field Sampling		1	646667	03/15/22 09:30	JVB	TAL CHI

Client Sample ID: G30S

Lab Sample ID: 500-213350-14

Date Collected: 03/15/22 11:43

Matrix: GW

Date Received: 03/15/22 14:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			647664	03/18/22 07:53	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	647950	03/18/22 17:30	FXG	TAL CHI

Client Sample ID: G30S

Lab Sample ID: 500-213350-14

Date Collected: 03/15/22 11:43

Matrix: GW

Date Received: 03/15/22 14:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			647664	03/18/22 07:53	BDE	TAL CHI
Total Recoverable	Analysis	6020A		5	648012	03/21/22 14:30	FXG	TAL CHI
Total/NA	Prep	7470A			647262	03/16/22 10:10	MJG	TAL CHI
Total/NA	Analysis	7470A		1	647539	03/17/22 10:31	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	647142	03/16/22 03:14	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		5	648185	03/22/22 11:35	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	647983	03/21/22 09:37	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	648186	03/22/22 13:17	LP	TAL CHI
Total/NA	Analysis	Field Sampling		1	646667	03/15/22 11:43	JVB	TAL CHI

Client Sample ID: G44S

Lab Sample ID: 500-213350-15

Date Collected: 03/15/22 13:49

Matrix: Water

Date Received: 03/15/22 14:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			647664	03/18/22 07:53	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	647950	03/18/22 17:40	FXG	TAL CHI
Total Recoverable	Prep	3005A			647664	03/18/22 07:53	BDE	TAL CHI
Total Recoverable	Analysis	6020A		20	648012	03/21/22 14:33	FXG	TAL CHI
Total/NA	Prep	7470A			647262	03/16/22 10:10	MJG	TAL CHI
Total/NA	Analysis	7470A		1	647539	03/17/22 10:33	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	647142	03/16/22 03:17	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		2	648185	03/22/22 11:35	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	647983	03/21/22 09:41	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		5	648186	03/22/22 13:17	LP	TAL CHI
Total/NA	Analysis	Field Sampling		1	646667	03/15/22 13:49	JVB	TAL CHI

Client Sample ID: G48S

Lab Sample ID: 500-213350-16

Date Collected: 03/16/22 09:28

Matrix: Water

Date Received: 03/16/22 14:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			647664	03/18/22 07:53	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	647950	03/18/22 17:44	FXG	TAL CHI
Total Recoverable	Prep	3005A			647664	03/18/22 07:53	BDE	TAL CHI
Total Recoverable	Analysis	6020A		5	648012	03/21/22 14:37	FXG	TAL CHI
Total/NA	Prep	7470A			647536	03/17/22 10:35	MJG	TAL CHI
Total/NA	Analysis	7470A		1	647747	03/18/22 08:24	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	647391	03/17/22 03:33	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		3	648185	03/22/22 11:36	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	647983	03/21/22 09:55	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	648186	03/22/22 13:17	LP	TAL CHI
Total/NA	Analysis	Field Sampling		1	646667	03/16/22 09:28	JVB	TAL CHI

Client Sample ID: G47S

Lab Sample ID: 500-213350-17

Date Collected: 03/16/22 10:55

Matrix: Water

Date Received: 03/16/22 14:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			647664	03/18/22 07:53	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	647950	03/18/22 17:47	FXG	TAL CHI
Total Recoverable	Prep	3005A			647664	03/18/22 07:53	BDE	TAL CHI
Total Recoverable	Analysis	6020A		20	648012	03/21/22 14:40	FXG	TAL CHI
Total/NA	Prep	7470A			647536	03/17/22 10:35	MJG	TAL CHI
Total/NA	Analysis	7470A		1	647747	03/18/22 08:26	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	647391	03/17/22 03:40	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		3	648185	03/22/22 11:36	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	647983	03/21/22 09:58	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	648186	03/22/22 13:18	LP	TAL CHI
Total/NA	Analysis	Field Sampling		1	646667	03/16/22 10:55	JVB	TAL CHI

Client Sample ID: R32S

Lab Sample ID: 500-213350-18

Date Collected: 03/16/22 12:44

Matrix: Water

Date Received: 03/16/22 14:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			647664	03/18/22 07:53	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	647950	03/18/22 17:51	FXG	TAL CHI
Total Recoverable	Prep	3005A			647664	03/18/22 07:53	BDE	TAL CHI
Total Recoverable	Analysis	6020A		20	648012	03/21/22 14:44	FXG	TAL CHI
Total/NA	Prep	7470A			647536	03/17/22 10:35	MJG	TAL CHI
Total/NA	Analysis	7470A		1	647747	03/18/22 08:29	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	647391	03/17/22 03:46	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		2	648185	03/22/22 11:37	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	647983	03/21/22 10:01	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	648186	03/22/22 13:18	LP	TAL CHI
Total/NA	Analysis	Field Sampling		1	646667	03/16/22 12:44	JVB	TAL CHI

Client Sample ID: G45S

Lab Sample ID: 500-213350-19

Date Collected: 03/16/22 13:31

Matrix: Water

Date Received: 03/16/22 14:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			647664	03/18/22 07:53	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	647950	03/18/22 17:54	FXG	TAL CHI
Total Recoverable	Prep	3005A			647664	03/18/22 07:53	BDE	TAL CHI
Total Recoverable	Analysis	6020A		10	648012	03/21/22 14:47	FXG	TAL CHI
Total Recoverable	Prep	3005A			649736	03/31/22 16:51	LMB	TAL CHI
Total Recoverable	Analysis	6020A		1	650072	04/01/22 15:34	FXG	TAL CHI
Total/NA	Prep	7470A			647536	03/17/22 10:35	MJG	TAL CHI
Total/NA	Analysis	7470A		1	647747	03/18/22 08:31	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	647391	03/17/22 03:48	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		3	648185	03/22/22 11:37	LP	TAL CHI

Lab Chronicle

Client: KPRG and Associates, Inc.
Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-1

Client Sample ID: G45S

Lab Sample ID: 500-213350-19

Date Collected: 03/16/22 13:31
Date Received: 03/16/22 14:55

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 F C		1	647983	03/21/22 10:05	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		5	648186	03/22/22 13:18	LP	TAL CHI
Total/NA	Analysis	Field Sampling		1	646667	03/16/22 13:31	JVB	TAL CHI

Client Sample ID: T04S

Lab Sample ID: 500-213350-20

Date Collected: 03/16/22 14:10
Date Received: 03/16/22 14:55

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Field Sampling		1	646667	03/16/22 14:10	JVB	TAL CHI

Laboratory References:

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

eurofins | Environment Testing TestAmerica

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 #: 500-213350-1

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: 03/08/22 Start Purge: 0935 (2400 Hr. Clock) End Purge: 0953

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

MEASUREMENTS

Well Diameter 2.0 (inches)

Stick Up 2.40 (ft)

Ref. Measuring Pt. TIC

Well Elevation * 603.69 (ft./msl)

Water Level 98.21 (ft.)

Ground Water Elev. 505.48 (ft./msl)

Well Bottom Elevation * 444.80 (ft./msl)

	1st	2nd	Final	
pH	7.33	7.32	7.32	(std.)
SC	1311	1313	1313	(umhos/cm)
Temp.	7.53	7.51	7.51	(°C)

Well Stabilization / Recharge Grid

COMMENTS

Sample Appearance/Odor: Colorless, Clear, No Odor

Weather Conditions: 35°F, Partly Cloudy, SW winds 5-10 m/h

Turbidity: 14.70 NTU

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

Depth To Water from L.S. = 98.21 − 2.40 = 95.81 (ft.)

Levels were taken on 03/08/22 @ 0920.

* Total Depth: 158.59

(Updated: 10/19/2021)

Sampler Name (Print): Noe Lopez Signature:

FIELD FORM 1

eurofins | Environment Testing TestAmerica

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

Sample ID: T09S Dup
Facility: Midwest Generation-Joliet #9 CCR
Job #: 500-213350-2

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: _____ (2400 Hr. Clock) End Purge: _____

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

MEASUREMENTS

Well Diameter 2.0 (inches) 1st 2nd *Final*

Stick Up 2.40 (ft) pH _____ _____ _____ _____ (std.)

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

Well Elevation * 603.69 (ft./msl) Temp. _____ _____ _____ _____ (°C)

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

Ground Water Elev. _____ (ft./msl)

Well Bottom Elevation * 444.80 (ft./msl)

COMMENTS

Sample Appearance/Odor: Colorless, Clear, No Odor

Weather Conditions: 35°F, Partly Cloudy, SW wind 5-10 mph

Turbidity: 14.70 NTU

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

Depth To Water from L.S. =

Levels were taken on @ .

* Total Depth: 158.59

(Updated: 10/19/2021)

Sampler Name (Print): Noe Lopez Signature:

FIELD FORM 1

eurofins | Environment Testing TestAmerica

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 #: 500-213350-3

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: 03/08/22 Start Purge: 1235 (2400 Hr. Clock) End Purge: 1255

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

MEASUREMENTS

Well Diameter 2.0 (inches)

Stick Up 2.30 (ft)

Ref. Measuring Pt. TIC

Well Elevation * 620.99 (ft./msl)

Water Level 113.80 (ft.)

Ground Water Elev. 507.19 (ft./msl)

Well Bottom Elevation * 447.94 (ft./msl)

	1st	2nd	Final	
pH	7.22	7.21	7.21	(std.)
SC	689	688	688	(umhos/cm)
Temp.	12.07	12.13	12.13	(°C)

Well Stabilization / Recharge Grid

COMMENTS

Sample Appearance/Odor: Colorless, Clear, No Odor

Weather Conditions: 38°F, Mostly Cloudy, SW winds 5-10 mph

Turbidity: 1.28 NTu

Other: *Reference Measurement

Depth To Water from L.S. = 113.80 - 2.30 = 111.50 (ft.)

Levels were taken on 03/08/22 @ 1220

* Total Deth = 173.00

(Updated: 10/19/2021)

Sampler Name (Print): Noe Lopez Signature: _____

FIELD FORM 1

eurofins | Environment Testing TestAmerica

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 #: 500-213350-4

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: 03/10/22 Start Purge: 0945 (2400 Hr. Clock) End Purge: 1007

Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.71

MEASUREMENTS

Well Diameter 2.0 (inches)

Stick Up 2.40 (ft)

Ref. Measuring Pt. TIC

Well Elevation * 623.46 (ft./msl)

Water Level 124.31 (ft.)

Ground Water Elev. 499.15 (ft./msl)

Well Bottom Elevation * 448.35 (ft./msl)

	1st	2nd	Final	
pH	9.18	9.17	9.17	(std.)
SC	1,990	2,000	2,000	(umhos/cm)
Temp.	8.46	8.43	8.43	(°C)

Well Stabilization / Recharge Grid

COMMENTS

Sample Appearance/Odor: Colorless, Clear, Slight Odor

Weather Conditions: 31°F, Mostly Cloudy, NE winds 0-5 mph

Turbidity: 2.68 NTU

Other: *Reference Measurement

Depth To Water from L.S. = 124.31 - 2.40 = 121.91 (ft.)

Levels were taken on 03/10/22 @ 0930.

* Total Deth = 175.00

(Updated: 10/19/2021)

Sampler Name (Print): Noe Lopez Signature:

FIELD FORM 1

eurofins | 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 #: 500-213505-5

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: 03/10/22 Start Purge: 1235 (2400 Hr. Clock) End Purge: 1249

Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.45

MEASUREMENTS

Well Diameter 2.0 (inches)
Stick Up 2.33 (ft)
Ref. Measuring Pt. TIC
Well Elevation * 626.12 (ft./msl)
Water Level 134.56 (ft.)
Ground Water Elev. 491.56 (ft./msl)
Well Bottom Elevation * 453.40 (ft./msl)

	1st	2nd	Final	
pH	8.12	8.08	8.08	(std.)
SC	1161	1163	1163	(umhos/cm)
Temp.	7.71	8.11	8.11	(°C)

Well Stabilization / Recharge Grid

COMMENTS

Sample Appearance/Odor: Tan, Slight Turbidity, No Odor
Weather Conditions: 33°F, Cloudy, NE winds @ 0-5 mph
Turbidity: 74.00 NTU
Other: *Reference Measurement
Depth To Water from L.S. = 134.56 - 2.33 = 132.23 (ft)
Levels were taken on 03/10/22 @ 1220
* Total Depth = 172.75

(Updated: 10/19/2021)

Sampler Name (Print): Noe Lopez Signature: NL

FIELD FORM 1

eurofins | Environment Testing TestAmerica

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 #: 500-213350-6

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: 03/11/22 Start Purge: 0930 (2400 Hr. Clock) End Purge: 0944

Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.63

MEASUREMENTS

Well Diameter 2.0 (inches)

Stick Up 2.58 (ft)

Ref. Measuring Pt. TIC

Well Elevation *535.77 (ft./msl)

Water Level 25.95 (ft.)

Ground Water Elev. 509.82 (ft./msl)

Well Bottom Elevation *453.36 (ft./msl)

	1st	2nd	Final	
pH	7.04	7.06	7.06	(std.)
SC	1405	1406	1406	(umhos/cm)
Temp.	12.30	12.21	12.21	(°C)

Well Stabilization / Recharge Grid

COMMENTS

Sample Appearance/Odor: Colorless, Clear, No Odor

Weather Conditions: 24°F, Sunny, W winds e 5-10 mph

Turbidity: 0.73 NTU

Other: *Reference Measurement

Depth To Water from L.S. = 25.95 - 2.58 = 23.37 (ft.)

Levels were taken on 03/11/22 @ 0920.

(Updated: 10/19/2021)

Sampler Name (Print): Noe Lopez Signature:

FIELD FORM 1

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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 #: 500-213350-7

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: 03/11/22 Start Purge: 1040 (2400 Hr. Clock) End Purge: 1056

Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.62

MEASUREMENTS

Well Diameter 4.0 (inches)

Stick Up 2.70 (ft)

Ref. Measuring Pt. TIC

Well Elevation *601.34 (ft./msl)

Water Level 95.71 (ft.)

Ground Water Elev. 505.63 (ft./msl)

Well Bottom Elevation *453.62 (ft./msl)

	1st	2nd	Final	
pH	7.38	7.38	7.38	(std.)
SC	1320	1,325	1,325	(umhos/cm)
Temp.	11.83	11.84	11.84	(°C)

Well Stabilization / Recharge Grid

COMMENTS

Sample Appearance/Odor: Tan, Moderate Turbidity,

Weather Conditions: 27°F, Sunny, SW winds 5-10 mph

Turbidity: 99.30 NTU

Other: *Reference Measurement

Depth To Water from L.S. = 95.71 - 2.70 = 93.01 (ft.)

Levels were taken on 03/11/22 @ 1035.

(Updated: 10/19/2021)

Sampler Name (Print): Noe Lopez Signature:

FIELD FORM 1

eurofins | Environment Testing TestAmerica

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 #: 500-213350-8

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: 03/11/22 Start Purge: 1220 (2400 Hr. Clock) End Purge: 1235

Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.77

MEASUREMENTS

Well Diameter 2.0 (inches)
Stick Up 2.55 (ft)
Ref. Measuring Pt. TIC
Well Elevation *578.51 (ft./msl)
Water Level 66.09 (ft.)
Ground Water Elev. 512.42 (ft./msl)
Well Bottom Elevation *453.08 (ft./msl)

	1st	2nd	Final	
pH	8.20	8.21	8.21	(std.)
SC	956	955	955	(umhos/cm)
Temp.	11.69	11.68	11.68	(°C)

Well Stabilization / Recharge Grid

COMMENTS

Sample Appearance/Odor: Colorless, Clear, Slight Odor
Weather Conditions: 30°F, Sunny, SW winds 10-15 mph
Turbidity: 0.52 NTU
Other: *Reference Measurement (Well ID updated 11-25-15)
Depth To Water from L.S. = 66.09 - 2.55 = 63.54 (ft)
Levels were taken on 03/11/22 @ 1215

(Updated: 10/19/2021)

Sampler Name (Print): Noe Lopez Signature:

FIELD FORM 1

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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 #: 500-213350-9

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: 03/11/22 Start Purge: 1310 (2400 Hr. Clock) End Purge: 1332

Water Volume in Casing (gallons): N/A Volume Purged (gallons): 1.14

MEASUREMENTS

Well Diameter 2.0 (inches)
Stick Up 1.73 (ft)
Ref. Measuring Pt. TIC
Well Elevation *535.65 (ft./msl)
Water Level 29.79 (ft.)
Ground Water Elev. 505.86 (ft./msl)
Well Bottom Elevation *452.72 (ft./msl)

	1st	2nd	Final	
pH	7.45	7.44	7.44	(std.)
SC	642	642	642	(umhos/cm)
Temp.	9.74	9.71	9.71	(°C)

Well Stabilization / Recharge Grid

COMMENTS

Sample Appearance/Odor: Colorless, Clear, No Odor
Weather Conditions: 32°F, Sunny, SW winds @ 10-15 mph
Turbidity: 22.60 NTU
Other: *Reference Measurement
Depth To Water from L.S. = 29.79 - 1.73 = 28.06 (ft.)
Levels were taken on 03/11/22 @ 1305

(Updated: 10/19/2021)

Sampler Name (Print): Noe Lopez Signature:

FIELD FORM 1

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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 #: 500-213350-10

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: 03/14/22 Start Purge: 0930 (2400 Hr. Clock) End Purge: 0952

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

MEASUREMENTS

Well Diameter 2.0 (inches)
Stick Up 2.48 (ft)
Ref. Measuring Pt. TIC
Well Elevation * 621.71 (ft./msl)
Water Level 123.70 (ft.)
Ground Water Elev. 498.01 (ft./msl)
Well Bottom Elevation * 451.46 (ft./msl)

	1st	2nd	Final	
pH	7.54	7.53	7.53	(std.)
SC	1244	1245	1245	(umhos/cm)
Temp.	10.37	10.37	10.37	(°C)

Well Stabilization / Recharge Grid

COMMENTS

Sample Appearance/Odor: Tan, High Turbidity, Slight Odor
Weather Conditions: 47°F, Sunny, SW winds e 10-15 mph
Turbidity: 9.95 NTU
Other: *Reference Measurement
Depth To Water from L.S. = 123.70 - 2.48 = 121.22 (ft.)
Levels were taken on 03/14/22 @ 0915.
* Total Depth = 170.00

(Updated: 10/19/2021)

Sampler Name (Print): Noe Lopez Signature: _____

FIELD FORM 1

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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 #: 500-21335D-11

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: 03/14/22 Start Purge: 1130 (2400 Hr. Clock) End Purge: 1149

Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.49

MEASUREMENTS

Well Diameter 2.0 (inches)
Stick Up 2.38 (ft)
Ref. Measuring Pt. TIC
Well Elevation * 627.50 (ft./msl)
Water Level 129.56 (ft.)
Ground Water Elev. 497.94 (ft./msl)
Well Bottom Elevation * 447.38 (ft./msl)

	1st	2nd	Final	
pH	8.65	8.67	8.67	(std.)
SC	1,387	1387	1387	(umhos/cm)
Temp.	13.87	13.97	13.97	(°C)

Well Stabilization / Recharge Grid

COMMENTS

Sample Appearance/Odor: Colorless, Clear, Strong Odor
Weather Conditions: 56°F, Sunny, SW winds @ 10-15 mph
Turbidity: 1.84 NTU
Other: *Reference Measurement
Depth To Water from L.S. = 129.56 - 2.38 = 127.18 (ft)
Levels were taken on 03/14/22 @ 1115
* Total Deth = 180.00

(Updated: 10/19/2021)

Sampler Name (Print): Noe Lopez Signature:

FIELD FORM 1

eurofins | Environment Testing TestAmerica

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 #: 500-21335D-12

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: 03/14/22 Start Purge: 1325 (2400 Hr. Clock) End Purge: 1345

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

MEASUREMENTS

Well Diameter 2.0 (inches)

Stick Up 3.08 (ft)

Ref. Measuring Pt. TIC

Well Elevation * 629.74 (ft./msl)

Water Level 138.79 (ft.)

Ground Water Elev. 490.95 (ft./msl)

Well Bottom Elevation * 456.70 (ft./msl)

	1st	2nd	Final	
pH	7.39	7.37	7.37	(std.)
SC	1,195	1,192	1,192	(umhos/cm)
Temp.	12.17	12.19	12.19	(°C)

Well Stabilization / Recharge Grid

COMMENTS

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

Weather Conditions: 61°F, Sunny, SW winds @ 10-15 mph

Turbidity: 0.65 NTU

Other: *Reference Measurement

Depth To Water from L.S. = 138.79 − 3.08 = 135.71 (ft)

Levels were taken on 03/14/22 @ 1320.

* Total Depth = 172.95

(Updated: 10/19/2021)

Sampler Name (Print): Noe Lopez Signature:

FIELD FORM 1

eurofins | Environment Testing TestAmerica

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 #: 500-213350-13

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: 03/15/22 Start Purge: 0910 (2400 Hr. Clock) End Purge: 0930

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

MEASUREMENTS

Well Diameter 2.0 (inches)

Stick Up 2.78 (ft)

Ref. Measuring Pt. TIC

Well Elevation *580.94 (ft./msl)

Water Level 55.70 (ft.)

Ground Water Elev. 525.24 (ft./msl)

Well Bottom Elevation *442.28 (ft./msl)

	1st	2nd	Final	
pH	7.52	7.49	7.49	(std.)
SC	603	609	609	(umhos/cm)
Temp.	7.61	7.63	7.63	(°C)

Well Stabilization / Recharge Grid

COMMENTS

Sample Appearance/Odor: Colorless, Clear, Slight Odor

Weather Conditions: 41°F, Cloudy, E winds 0-5 mph

Turbidity: 0.46 NTU

Other: *Reference Measurement

Depth To Water from L.S. = 55.70 - 2.78 = 52.92 (ft.)

Levels were taken on 03/15/22 @ 0905

(Updated: 10/19/2021)

Sampler Name (Print): Noe Lopez Signature:

FIELD FORM 1

eurofins | Environment Testing TestAmerica

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 #: 500-213350-14

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: 03/15/22 Start Purge: 1125 (2400 Hr. Clock) End Purge: 1143

Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.23

MEASUREMENTS

Well Diameter 2.0 (inches)

Stick Up 2.31 (ft)

Ref. Measuring Pt. TIC

Well Elevation *524.69 (ft./msl)

Water Level 2.02 (ft.)

Ground Water Elev. 522.67 (ft./msl)

Well Bottom Elevation *462.58 (ft./msl)

	1st	2nd	Final	
pH	7.90	7.91	7.91	(std.)
SC	1610	1610	1610	(umhos/cm)
Temp.	9.29	9.30	9.30	(°C)

Well Stabilization / Recharge Grid

COMMENTS

Sample Appearance/Odor: Colorless, Clear, Moderate Odor

Weather Conditions: 47°F, Partly Cloudy, NE winds e 0-5 mph

Turbidity: 0.45 NTU

Other: *Reference Measurement

Depth To Water from L.S. = 2.02 - 2.31 = -0.29 ft

Levels were taken on 03/15/22 @ 1120

(Updated: 10/19/2021)

Sampler Name (Print): Noe Lopez Signature: _____

FIELD FORM 1

eurofins | Environment Testing TestAmerica

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 #: 500-213350-15

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: 03/15/22 Start Purge: 1325 (2400 Hr. Clock) End Purge: 1349

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

MEASUREMENTS

Well Diameter 2.0 (inches)

Stick Up 2.18 (ft)

Ref. Measuring Pt. TIC

Well Elevation *586.49 (ft./msl)

Water Level 79.64 (ft.)

Ground Water Elev. 506.85 (ft./msl)

Well Bottom Elevation *455.11 (ft./msl)

	1st	2nd	Final	
pH	7.28	7.24	7.24	(std.)
SC	994	994	994	(umhos/cm)
Temp.	12.48	12.52	12.52	(°C)

Well Stabilization / Recharge Grid

COMMENTS

Sample Appearance/Odor: Colorless, Clear, No Odor

Weather Conditions: 55°F, Sunny, NE winds 0-5 mph

Turbidity: 1.09 NTU

Other: *Reference Measurement

Depth To Water from L.S. = 79.64 - 2.18 = 77.46 ft

Levels were taken on 03/15/22 @ 1320.

(Updated: 10/19/2021)

Sampler Name (Print): Noe Lopez Signature: NL

FIELD FORM 1

eurofins | Environment Testing TestAmerica

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 #: 500-213350-1.6

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: 03/16/22 Start Purge: 0910 (2400 Hr. Clock) End Purge: 0928

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

MEASUREMENTS

Well Diameter 4.0 (inches)
Stick Up 2.45 (ft)
Ref. Measuring Pt. TIC
Well Elevation *620.74 (ft./msl)
Water Level 104.27 (ft.)
Ground Water Elev. 516.47 (ft./msl)
Well Bottom Elevation *468.32 (ft./msl)

	1st	2nd	Final	
pH	7.88	7.87	7.87	(std.)
SC	1356	1353	1353	(umhos/cm)
Temp.	11.37	11.38	11.38	(°C)

Well Stabilization / Recharge Grid

COMMENTS

Sample Appearance/Odor: Colorless, Clear, Moderate Odor
Weather Conditions: 49°F, Cloudy, SE winds @ 0-5 mph
Turbidity: 0.31 NTU
Other: *Reference Measurement
Depth To Water from L.S. = 104.27 - 2.45 = 101.82 (ft)
Levels were taken on 03/16/22 @ 0905

(Updated: 10/19/2021)

Sampler Name (Print): Noe Lopez Signature:

FIELD FORM 1

eurofins | Environment Testing TestAmerica

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 #: 500-213350-17

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: 03/16/22 Start Purge: 1035 (2400 Hr. Clock) End Purge: 1055

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

MEASUREMENTS

Well Diameter 4.0 (inches)
Stick Up 2.50 (ft)
Ref. Measuring Pt. TIC
Well Elevation *612.04 (ft./msl)
Water Level 94.26 (ft.)
Ground Water Elev. 517.78 (ft./msl)
Well Bottom Elevation *459.84 (ft./msl)

	1st	2nd	Final	
pH	8.93	8.94	8.94	(std.)
SC	1,356	1348	1348	(umhos/cm)
Temp.	12.97	13.00	13.00	(°C)

Well Stabilization / Recharge Grid

COMMENTS

Sample Appearance/Odor: Colorless, Clear, Slight Odor
Weather Conditions: 60°F, Cloudy, S winds e 5-10 mph
Turbidity: 0.26 NTU
Other: *Reference Measurement
Depth To Water from L.S. = 94.26 - 2.50 = 91.76 (ft.)
Levels were taken on 03/16/22 @ 1030

(Updated: 10/19/2021)

Sampler Name (Print): Noe Lopez Signature:

FIELD FORM 1

eurofins | Environment Testing TestAmerica

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 #: 500-213350-18

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: 03/16/22 Start Purge: 1225 (2400 Hr. Clock) End Purge: 1244

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

MEASUREMENTS

Well Diameter 2.0 (inches)
Stick Up 2.03 (ft)
Ref. Measuring Pt. TIC
Well Elevation *536.91 (ft./msl)
Water Level 19.68 (ft.)
Ground Water Elev. 517.23 (ft./msl)
Well Bottom Elevation *457.84 (ft./msl)

	1st	2nd	Final	
pH	7.58	7.56	7.56	(std.)
SC	786	785	785	(umhos/cm)
Temp.	11.77	11.75	11.75	(°C)

Well Stabilization / Recharge Grid

COMMENTS

Sample Appearance/Odor: Colorless, Clear, No Odor
Weather Conditions: 67°F, Cloudy, SW winds 10-15 mph
Turbidity: 1.31 NTU
Other: *Reference Measurement
Depth To Water from L.S. = 19.68 - 2.03 = 17.65 (ft.)
Levels were taken on 03/16/22 @ 1220.

(Updated: 10/19/2021)

Sampler Name (Print): Noe Lopez Signature:

FIELD FORM 1

eurofins | Environment Testing TestAmerica

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 #: 500-213350-19

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: 03/16/22 Start Purge: 1315 (2400 Hr. Clock) End Purge: 1331

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

MEASUREMENTS

Well Diameter 2.0 (inches)

Stick Up 2.97 (ft)

Ref. Measuring Pt. TIC

Well Elevation *603.94 (ft./msl)

Water Level 65.50 (ft.)

Ground Water Elev. 538.44 (ft./msl)

Well Bottom Elevation *471.05 (ft./msl)

	1st	2nd	Final	
pH	7.37	7.35	7.35	(std.)
SC	790	789	789	(umhos/cm)
Temp.	14.37	14.40	14.40	(°C)

Well Stabilization / Recharge Grid

COMMENTS

Sample Appearance/Odor: Colorless, Clear, Moderate Odor

Weather Conditions: 67°F, Cloudy, SW winds 15-20 mph

Turbidity: 0.98 NTU

Other: *Reference Measurement

Depth To Water from L.S. = 65.50 - 2.97 = 62.53 (ft.)

Levels were taken on 03/16/22 @ 1310

(Updated: 10/19/2021)

Sampler Name (Print): Noe Lopez Signature:

FIELD FORM 1

eurofins | Environment Testing TestAmerica

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 #: 500-213350-20

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: _____ (2400 Hr. Clock) End Purge: _____

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

MEASUREMENTS

Well Diameter 2.0 (inches) 1st 2nd *Final*

Stick Up _____ (ft) pH _____ _____ _____ _____ (std.)

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

Well Elevation * 631.35 (ft./msl) Temp. _____ _____ _____ _____ (°C)

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

Ground Water Elev. _____ (ft./msl)

Well Bottom Elevation * 458.07 (ft./msl)

COMMENTS

Sample Appearance/Odor: _____

Weather Conditions: _____

Turbidity: _____

Other: *Reference Measurement

Depth To Water from L.S. = _____

Levels were taken on @ ~~1410~~ N.L.

* Total Deth = 173.00

* Unable to access due to property development/excavation on 03/16/22 @ 1410

(Updated: 10/19/2021)

Sampler Name (Print): Noe Lopez Signature: _____

FIELD FORM 1

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 500-213350-2
Client Project/Site: Joliet #9 (Quarry) CCR 1Q22

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

Attn: Richard Gnat

Diana Mockler

Authorized for release by:
4/27/2022 5:31:17 PM

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

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.

Table of Contents

Job ID: 500-213350-2

Laboratory: Eurofins Chicago

Narrative

Job Narrative
500-213350-2

Comments
No additional comments.

Receipt
The samples were received on 3/8/2022 2:50 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 6 coolers at receipt time were 1.1º C, 1.4º C, 2.1º C, 2.3º C, 2.8º C and 3.1º C.

RAD
Methods 903.0, 9315: Radium 226 Batch 160-554557:

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.

T09S (500-213350-1), T09S DUP (500-213350-2), T06S (500-213350-3), (LCS 160-554557/1-A), (MB 160-554557/13-A) and (500-213350-C-2-A DU)

Methods 903.0, 9315: Radium-226 batch 555104
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.

T05S (500-213350-4), T02S (500-213350-5), (LCS 160-555104/1-A), (MB 160-555104/18-A) and (500-213350-E-4-B DU)

Methods 903.0, 9315: Radium-226 batch 555713
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.

T01S (500-213350-10), T08S (500-213350-11), T03S (500-213350-12), G20S (500-213350-13), G30S (500-213350-14), G44S (500-213350-15), (LCS 160-555713/1-A), (MB 160-555713/17-A) and (500-213350-D-12-A DU)

Methods 903.0, 9315: Radium 226 batch 555908
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.
G48S (500-213350-16), G47S (500-213350-17), R32S (500-213350-18), G45S (500-213350-19), (LCS 160-555908/1-A), (MB 160-555908/23-A) and (500-213350-C-16-A DU)

Method 903.0: Radium-226 batch 558553
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

G31S (500-213350-6), G46S (500-213350-7), R08S (500-213350-8), G33S (500-213350-9), (LCS 160-558553/1-A), (MB 160-558553/22-A) and (500-213350-D-7-A DU)

Methods 904.0, 9320: Radium 228 batch 555926
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

Job ID: 500-213350-2 (Continued)

Laboratory: Eurofins Chicago (Continued)

G48S (500-213350-16), G47S (500-213350-17), R32S (500-213350-18), G45S (500-213350-19), (LCS 160-555926/1-A), (MB 160-555926/23-A) and (500-213350-C-16-B DU)

Method 904.0: Radium 228 batch 555716
The detection goal was not met for the following sample(s). Sample was prepped at a reduced volume due to the presence of matrix interferences: T01S (500-213350-10). Analytical results are reported with the detection limit achieved.

Methods 904.0, 9320: Radium 228 batch 555716
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.

T01S (500-213350-10), T08S (500-213350-11), T03S (500-213350-12), G20S (500-213350-13), G30S (500-213350-14), G44S (500-213350-15), (LCS 160-555716/1-A), (MB 160-555716/17-A) and (500-213350-D-12-B DU)

Methods 904.0, 9320: Radium-228 batch 558078
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.

T09S (500-213350-1), T09S DUP (500-213350-2), T06S (500-213350-3), (LCS 160-558078/1-A), (MB 160-558078/13-A) and (500-213350-E-3-A DU)

Methods 904.0, 9320: Radium-228 batch 555108
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

T05S (500-213350-4), T02S (500-213350-5), (LCS 160-555108/1-A), (MB 160-555108/18-A) and (500-213350-E-4-C DU)

Method 904.0: Radium 228 Batch 160-558561:

The following sample(s) did not meet the requested limit (RL) due to the reduced sample volume attributed to the presence of matrix interference. During preparation the analyst visually noted matrix effects. The data have been reported with this narrative.

G33S (500-213350-9)

Method 904.0: Radium 228 Batch 160-558561:

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

G31S (500-213350-6), G46S (500-213350-7), R08S (500-213350-8), G33S (500-213350-9), (LCS 160-558561/1-A), (MB 160-558561/22-A) and (500-213350-D-7-B DU)

Method PrecSep_0: Radium-228 Prep Batch 160-555926

The following samples were prepared at a reduced aliquot due to Matrix: R32S (500-213350-18). 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 outside the upper control limit (110%) for the following samples in batch 160-555301: G31S (500-213350-6), G46S (500-213350-7), R08S (500-213350-8), G33S (500-213350-9) and (500-213350-C-6 DU). The batch appears to have been double traced during the initial precipitation. Samples are submitted for counting to verify LCS spike recovery.

Job ID: 500-213350-2 (Continued)

Laboratory: Eurofins Chicago (Continued)

Method PrecSep-21: Radium-226 Prep Batch 160-555908

The following samples were prepared at a reduced aliquot due to Matrix: R32S (500-213350-18). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead of a sample duplicate (DUP) to demonstrate batch precision.

Method PrecSep-21: Radium 226 Batch 160-555289:

The following samples need to be re-digested/re-extracted due to high and inconsistent tracer yields.

G31S (500-213350-6), G46S (500-213350-7), R08S (500-213350-8), G33S (500-213350-9) and (500-213350-C-6 DU)

Method PrecSep-21:

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

Method Summary

Client: KPRG and Associates, Inc.
Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-2

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 1Q22

Job ID: 500-213350-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-213350-1	T09S	Water	03/08/22 09:53	03/08/22 14:50
500-213350-2	T09S DUP	Water	03/08/22 09:53	03/08/22 14:50
500-213350-3	T06S	Water	03/08/22 12:55	03/08/22 14:50
500-213350-4	T05S	Water	03/10/22 10:07	03/10/22 14:50
500-213350-5	T02S	Water	03/10/22 12:49	03/10/22 14:50
500-213350-6	G31S	Water	03/11/22 09:44	03/11/22 15:27
500-213350-7	G46S	Water	03/11/22 10:56	03/11/22 15:27
500-213350-8	R08S	Water	03/11/22 12:35	03/11/22 15:27
500-213350-9	G33S	Water	03/11/22 13:32	03/11/22 15:27
500-213350-10	T01S	Water	03/14/22 09:52	03/14/22 14:56
500-213350-11	T08S	Water	03/14/22 11:49	03/14/22 14:56
500-213350-12	T03S	Water	03/14/22 13:45	03/14/22 14:56
500-213350-13	G20S	Water	03/15/22 09:30	03/15/22 14:52
500-213350-14	G30S	GW	03/15/22 11:43	03/15/22 14:52
500-213350-15	G44S	Water	03/15/22 13:49	03/15/22 14:52
500-213350-16	G48S	Water	03/16/22 09:28	03/16/22 14:55
500-213350-17	G47S	Water	03/16/22 10:55	03/16/22 14:55
500-213350-18	R32S	Water	03/16/22 12:44	03/16/22 14:55
500-213350-19	G45S	Water	03/16/22 13:31	03/16/22 14:55

Client Sample ID: T09S

Date Collected: 03/08/22 09:53
Date Received: 03/08/22 14:50

Lab Sample ID: 500-213350-1

Matrix: Water

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**		0.432	0.463	1.00	0.343	pCi/L	03/10/22 13:28	04/01/22 07:49	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*76.4*		*40 - 110*	*03/10/22 13:28*	*04/01/22 07:49*	*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	**0.896**		0.341	0.351	1.00	0.468	pCi/L	03/31/22 13:15	04/05/22 18:10	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.6*		*40 - 110*	*03/31/22 13:15*	*04/05/22 18:10*	*1*
Y Carrier	*79.3*		*40 - 110*	*03/31/22 13:15*	*04/05/22 18:10*	*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**		0.550	0.581	5.00	0.468	pCi/L		04/06/22 12:57	1

Client Sample ID: T09S DUP

Date Collected: 03/08/22 09:53
Date Received: 03/08/22 14:50

Lab Sample ID: 500-213350-2

Matrix: Water

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.78		0.367	0.401	1.00	0.252	pCi/L	03/10/22 13:28	04/01/22 07:49	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*83.0*		*40 - 110*	*03/10/22 13:28*	*04/01/22 07:49*	*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	0.737		0.246	0.255	1.00	0.326	pCi/L	03/31/22 13:15	04/05/22 18:10	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*94.8*		*40 - 110*	*03/31/22 13:15*	*04/05/22 18:10*	*1*
Y Carrier	*80.0*		*40 - 110*	*03/31/22 13:15*	*04/05/22 18:10*	*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	2.52		0.442	0.475	5.00	0.326	pCi/L		04/06/22 12:57	1

Client Sample ID: T06S

Date Collected: 03/08/22 12:55
Date Received: 03/08/22 14:50

Lab Sample ID: 500-213350-3

Matrix: Water

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.29		0.366	0.384	1.00	0.319	pCi/L	03/10/22 13:28	04/01/22 07:50	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*56.7*		*40 - 110*	*03/10/22 13:28*	*04/01/22 07:50*	*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	0.570		0.234	0.240	1.00	0.328	pCi/L	03/31/22 13:15	04/05/22 18:10	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*95.8*		*40 - 110*	*03/31/22 13:15*	*04/05/22 18:10*	*1*
Y Carrier	*79.6*		*40 - 110*	*03/31/22 13:15*	*04/05/22 18:10*	*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	1.86		0.434	0.453	5.00	0.328	pCi/L		04/06/22 12:57	1

Client: KPRG and Associates, Inc.
Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-2

Client Sample ID: T05S

Date Collected: 03/10/22 10:07
Date Received: 03/10/22 14:50

Lab Sample ID: 500-213350-4

Matrix: Water

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.411		0.141	0.145	1.00	0.135	pCi/L	03/14/22 10:20	04/05/22 08:03	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.7*		*40 - 110*	*03/14/22 10:20*	*04/05/22 08:03*	*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	0.466		0.297	0.300	1.00	0.457	pCi/L	03/14/22 10:59	03/31/22 13:32	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.7*		*40 - 110*	*03/14/22 10:59*	*03/31/22 13:32*	*1*
Y Carrier	*84.9*		*40 - 110*	*03/14/22 10:59*	*03/31/22 13:32*	*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	0.877		0.329	0.333	5.00	0.457	pCi/L		04/27/22 16:40	1

Client: KPRG and Associates, Inc.
Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-2

Client Sample ID: T02S

Date Collected: 03/10/22 12:49
Date Received: 03/10/22 14:50

Lab Sample ID: 500-213350-5

Matrix: Water

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.382		0.240	0.242	1.00	0.337	pCi/L	03/14/22 10:20	04/05/22 08:03	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.4*		*40 - 110*	*03/14/22 10:20*	*04/05/22 08:03*	*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	0.393	U	0.473	0.475	1.00	0.782	pCi/L	03/14/22 10:59	03/31/22 13:32	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.4*		*40 - 110*	*03/14/22 10:59*	*03/31/22 13:32*	*1*
Y Carrier	*84.1*		*40 - 110*	*03/14/22 10:59*	*03/31/22 13:32*	*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	0.775	U	0.530	0.533	5.00	0.782	pCi/L		04/27/22 16:40	1

Client Sample ID: G31S

Date Collected: 03/11/22 09:44
Date Received: 03/11/22 15:27

Lab Sample ID: 500-213350-6

Matrix: Water

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**2.20**		0.317	0.374	1.00	0.143	pCi/L	04/05/22 12:07	04/27/22 11:58	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*73.8*		*40 - 110*	*04/05/22 12:07*	*04/27/22 11:58*	*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	**1.56**		0.556	0.574	1.00	0.766	pCi/L	04/05/22 13:32	04/14/22 12:24	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*73.8*		*40 - 110*	*04/05/22 13:32*	*04/14/22 12:24*	*1*
Y Carrier	*80.0*		*40 - 110*	*04/05/22 13:32*	*04/14/22 12:24*	*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	**3.76**		0.640	0.685	5.00	0.766	pCi/L		04/27/22 16:36	1

Client Sample ID: G46S

Date Collected: 03/11/22 10:56
Date Received: 03/11/22 15:27

Lab Sample ID: 500-213350-7

Matrix: Water

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**1.30**		0.227	0.255	1.00	0.117	pCi/L	04/05/22 12:07	04/27/22 11:59	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.9*		*40 - 110*	*04/05/22 12:07*	*04/27/22 11:59*	*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	**2.35**		0.630	0.666	1.00	0.784	pCi/L	04/05/22 13:32	04/14/22 12:33	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.9*		*40 - 110*	*04/05/22 13:32*	*04/14/22 12:33*	*1*
Y Carrier	*59.1*		*40 - 110*	*04/05/22 13:32*	*04/14/22 12:33*	*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	**3.65**		0.670	0.713	5.00	0.784	pCi/L		04/27/22 16:36	1

Client Sample ID: R08S

Date Collected: 03/11/22 12:35
Date Received: 03/11/22 15:27

Lab Sample ID: 500-213350-8

Matrix: Water

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.787		0.188	0.201	1.00	0.157	pCi/L	04/05/22 12:07	04/27/22 13:05	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.4*		*40 - 110*	*04/05/22 12:07*	*04/27/22 13:05*	*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	1.55		0.481	0.502	1.00	0.629	pCi/L	04/05/22 13:32	04/14/22 12:34	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.4*		*40 - 110*	*04/05/22 13:32*	*04/14/22 12:34*	*1*
Y Carrier	*75.1*		*40 - 110*	*04/05/22 13:32*	*04/14/22 12:34*	*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	2.33		0.516	0.541	5.00	0.629	pCi/L		04/27/22 16:36	1

Client Sample ID: G33S

Date Collected: 03/11/22 13:32
Date Received: 03/11/22 15:27

Lab Sample ID: 500-213350-9

Matrix: Water

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.740		0.258	0.267	1.00	0.272	pCi/L	04/05/22 12:07	04/27/22 13:05	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*75.6*		*40 - 110*	*04/05/22 12:07*	*04/27/22 13:05*	*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	2.60	G	0.818	0.852	1.00	1.07	pCi/L	04/05/22 13:32	04/14/22 12:34	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*75.6*		*40 - 110*	*04/05/22 13:32*	*04/14/22 12:34*	*1*
Y Carrier	*77.4*		*40 - 110*	*04/05/22 13:32*	*04/14/22 12:34*	*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	3.34		0.858	0.893	5.00	1.07	pCi/L		04/27/22 16:36	1

Client: KPRG and Associates, Inc.
Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-2

Client Sample ID: T01S

Date Collected: 03/14/22 09:52
Date Received: 03/14/22 14:56

Lab Sample ID: 500-213350-10

Matrix: Water

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**3.45**		0.610	0.684	1.00	0.354	pCi/L	03/17/22 12:30	04/08/22 10:35	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*71.2*		*40 - 110*	*03/17/22 12:30*	*04/08/22 10:35*	*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	0.661	U G	0.705	0.707	1.00	1.15	pCi/L	03/17/22 12:47	04/04/22 13:21	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*71.2*		*40 - 110*	*03/17/22 12:47*	*04/04/22 13:21*	*1*
Y Carrier	*84.1*		*40 - 110*	*03/17/22 12:47*	*04/04/22 13:21*	*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	**4.11**		0.932	0.984	5.00	1.15	pCi/L		04/08/22 18:02	1

Client Sample ID: T08S

Date Collected: 03/14/22 11:49
Date Received: 03/14/22 14:56

Lab Sample ID: 500-213350-11

Matrix: Water

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.427**		0.205	0.208	1.00	0.264	pCi/L	03/17/22 12:30	04/08/22 10:35	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.9*		*40 - 110*	*03/17/22 12:30*	*04/08/22 10:35*	*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	-0.0401	U	0.277	0.278	1.00	0.515	pCi/L	03/17/22 12:47	04/04/22 13:21	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.9*		*40 - 110*	*03/17/22 12:47*	*04/04/22 13:21*	*1*
Y Carrier	*85.6*		*40 - 110*	*03/17/22 12:47*	*04/04/22 13:21*	*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	0.387	U	0.345	0.347	5.00	0.515	pCi/L		04/08/22 18:02	1

Client: KPRG and Associates, Inc.
Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-2

Client Sample ID: T03S

Date Collected: 03/14/22 13:45
Date Received: 03/14/22 14:56

Lab Sample ID: 500-213350-12

Matrix: Water

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.720		0.195	0.206	1.00	0.195	pCi/L	03/17/22 12:30	04/08/22 10:35	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.6*		*40 - 110*	*03/17/22 12:30*	*04/08/22 10:35*	*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	0.718		0.278	0.286	1.00	0.381	pCi/L	03/17/22 12:47	04/04/22 13:21	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.6*		*40 - 110*	*03/17/22 12:47*	*04/04/22 13:21*	*1*
Y Carrier	*85.2*		*40 - 110*	*03/17/22 12:47*	*04/04/22 13:21*	*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		0.340	0.352	5.00	0.381	pCi/L		04/08/22 18:02	1

Client Sample ID: G20S

Date Collected: 03/15/22 09:30
Date Received: 03/15/22 14:52

Lab Sample ID: 500-213350-13

Matrix: Water

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.39		0.242	0.273	1.00	0.139	pCi/L	03/17/22 12:30	04/08/22 10:36	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.4*		*40 - 110*	*03/17/22 12:30*	*04/08/22 10:36*	*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	0.955		0.289	0.302	1.00	0.358	pCi/L	03/17/22 12:47	04/04/22 13:21	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.4*		*40 - 110*	*03/17/22 12:47*	*04/04/22 13:21*	*1*
Y Carrier	*83.7*		*40 - 110*	*03/17/22 12:47*	*04/04/22 13:21*	*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	2.34		0.377	0.407	5.00	0.358	pCi/L		04/08/22 18:02	1

Client: KPRG and Associates, Inc.
Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-2

Client Sample ID: G30S

Date Collected: 03/15/22 11:43
Date Received: 03/15/22 14:52

Lab Sample ID: 500-213350-14

Matrix: GW

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.759		0.225	0.235	1.00	0.198	pCi/L	03/17/22 12:30	04/08/22 10:36	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.1*		*40 - 110*	*03/17/22 12:30*	*04/08/22 10:36*	*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	0.586		0.323	0.327	1.00	0.470	pCi/L	03/17/22 12:47	04/04/22 13:22	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.1*		*40 - 110*	*03/17/22 12:47*	*04/04/22 13:22*	*1*
Y Carrier	*82.6*		*40 - 110*	*03/17/22 12:47*	*04/04/22 13:22*	*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	1.34		0.394	0.403	5.00	0.470	pCi/L		04/08/22 18:02	1

Client Sample ID: G44S

Date Collected: 03/15/22 13:49
Date Received: 03/15/22 14:52

Lab Sample ID: 500-213350-15

Matrix: Water

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.679**		0.170	0.181	1.00	0.110	pCi/L	03/17/22 12:30	04/08/22 10:36	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.9*		*40 - 110*	*03/17/22 12:30*	*04/08/22 10:36*	*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	0.301	U	0.273	0.275	1.00	0.440	pCi/L	03/17/22 12:47	04/04/22 13:22	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.9*		*40 - 110*	*03/17/22 12:47*	*04/04/22 13:22*	*1*
Y Carrier	*84.1*		*40 - 110*	*03/17/22 12:47*	*04/04/22 13:22*	*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	**0.980**		0.322	0.329	5.00	0.440	pCi/L		04/08/22 18:02	1

Client: KPRG and Associates, Inc.
Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-2

Client Sample ID: G48S

Date Collected: 03/16/22 09:28
Date Received: 03/16/22 14:55

Lab Sample ID: 500-213350-16

Matrix: Water

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.790		0.172	0.186	1.00	0.143	pCi/L	03/18/22 10:28	04/11/22 17:25	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*76.6*		*40 - 110*	*03/18/22 10:28*	*04/11/22 17:25*	*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	1.77		0.448	0.477	1.00	0.549	pCi/L	03/18/22 13:09	03/28/22 19:58	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*76.6*		*40 - 110*	*03/18/22 13:09*	*03/28/22 19:58*	*1*
Y Carrier	*77.8*		*40 - 110*	*03/18/22 13:09*	*03/28/22 19:58*	*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	2.56		0.480	0.512	5.00	0.549	pCi/L		04/12/22 17:16	1

Client Sample ID: G47S

Date Collected: 03/16/22 10:55
Date Received: 03/16/22 14:55

Lab Sample ID: 500-213350-17

Matrix: Water

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.933		0.220	0.236	1.00	0.167	pCi/L	03/18/22 10:28	04/12/22 11:28	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*81.8*		*40 - 110*	*03/18/22 10:28*	*04/12/22 11:28*	*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	1.18		0.364	0.380	1.00	0.473	pCi/L	03/18/22 13:09	03/28/22 19:58	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*81.8*		*40 - 110*	*03/18/22 13:09*	*03/28/22 19:58*	*1*
Y Carrier	*81.5*		*40 - 110*	*03/18/22 13:09*	*03/28/22 19:58*	*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	2.12		0.425	0.447	5.00	0.473	pCi/L		04/12/22 17:16	1

Client: KPRG and Associates, Inc.
Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-2

Client Sample ID: R32S

Date Collected: 03/16/22 12:44
Date Received: 03/16/22 14:55

Lab Sample ID: 500-213350-18

Matrix: Water

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.51		0.250	0.284	1.00	0.143	pCi/L	03/18/22 10:28	04/11/22 17:25	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*82.5*		*40 - 110*	*03/18/22 10:28*	*04/11/22 17:25*	*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	1.09		0.444	0.456	1.00	0.619	pCi/L	03/18/22 13:09	03/28/22 19:58	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*82.5*		*40 - 110*	*03/18/22 13:09*	*03/28/22 19:58*	*1*
Y Carrier	*79.6*		*40 - 110*	*03/18/22 13:09*	*03/28/22 19:58*	*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		0.510	0.537	5.00	0.619	pCi/L		04/12/22 17:16	1

Client Sample ID: G45S

Date Collected: 03/16/22 13:31
Date Received: 03/16/22 14:55

Lab Sample ID: 500-213350-19

Matrix: Water

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.23		0.199	0.227	1.00	0.131	pCi/L	03/18/22 10:28	04/11/22 17:25	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.2*		*40 - 110*	*03/18/22 10:28*	*04/11/22 17:25*	*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	1.69		0.379	0.410	1.00	0.428	pCi/L	03/18/22 13:09	03/28/22 19:58	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.2*		*40 - 110*	*03/18/22 13:09*	*03/28/22 19:58*	*1*
Y Carrier	*80.4*		*40 - 110*	*03/18/22 13:09*	*03/28/22 19:58*	*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	2.92		0.428	0.469	5.00	0.428	pCi/L		04/12/22 17:16	1

Definitions/Glossary

Client: KPRG and Associates, Inc. Job ID: 500-213350-2
Project/Site: Joliet #9 (Quarry) CCR 1Q22

Qualifiers

Rad

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

Glossary

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

Rad

Prep Batch: 554557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-213350-1	T09S	Total/NA	Water	PrecSep-21	
500-213350-2	T09S DUP	Total/NA	Water	PrecSep-21	
500-213350-3	T06S	Total/NA	Water	PrecSep-21	
MB 160-554557/13-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-554557/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-213350-2 DU	T09S DUP	Total/NA	Water	PrecSep-21	

Prep Batch: 555104

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-213350-4	T05S	Total/NA	Water	PrecSep-21	
500-213350-5	T02S	Total/NA	Water	PrecSep-21	
MB 160-555104/18-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-555104/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-213350-4 DU	T05S	Total/NA	Water	PrecSep-21	

Prep Batch: 555108

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-213350-4	T05S	Total/NA	Water	PrecSep_0	
500-213350-5	T02S	Total/NA	Water	PrecSep_0	
MB 160-555108/18-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-555108/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-213350-4 DU	T05S	Total/NA	Water	PrecSep_0	

Prep Batch: 555713

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-213350-10	T01S	Total/NA	Water	PrecSep-21	
500-213350-11	T08S	Total/NA	Water	PrecSep-21	
500-213350-12	T03S	Total/NA	Water	PrecSep-21	
500-213350-13	G20S	Total/NA	Water	PrecSep-21	
500-213350-14	G30S	Total/NA	GW	PrecSep-21	
500-213350-15	G44S	Total/NA	Water	PrecSep-21	
MB 160-555713/17-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-555713/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-213350-12 DU	T03S	Total/NA	Water	PrecSep-21	

Prep Batch: 555716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-213350-10	T01S	Total/NA	Water	PrecSep_0	
500-213350-11	T08S	Total/NA	Water	PrecSep_0	
500-213350-12	T03S	Total/NA	Water	PrecSep_0	
500-213350-13	G20S	Total/NA	Water	PrecSep_0	
500-213350-14	G30S	Total/NA	GW	PrecSep_0	
500-213350-15	G44S	Total/NA	Water	PrecSep_0	
MB 160-555716/17-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-555716/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-213350-12 DU	T03S	Total/NA	Water	PrecSep_0	

Prep Batch: 555908

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-213350-16	G48S	Total/NA	Water	PrecSep-21	
500-213350-17	G47S	Total/NA	Water	PrecSep-21	

Rad (Continued)

Prep Batch: 555908 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-213350-18	R32S	Total/NA	Water	PrecSep-21	
500-213350-19	G45S	Total/NA	Water	PrecSep-21	
MB 160-555908/23-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-555908/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-213350-16 DU	G48S	Total/NA	Water	PrecSep-21	

Prep Batch: 555926

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-213350-16	G48S	Total/NA	Water	PrecSep_0	
500-213350-17	G47S	Total/NA	Water	PrecSep_0	
500-213350-18	R32S	Total/NA	Water	PrecSep_0	
500-213350-19	G45S	Total/NA	Water	PrecSep_0	
MB 160-555926/23-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-555926/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-213350-16 DU	G48S	Total/NA	Water	PrecSep_0	

Prep Batch: 558078

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-213350-1	T09S	Total/NA	Water	PrecSep_0	
500-213350-2	T09S DUP	Total/NA	Water	PrecSep_0	
500-213350-3	T06S	Total/NA	Water	PrecSep_0	
MB 160-558078/13-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-558078/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-213350-3 DU	T06S	Total/NA	Water	PrecSep_0	

Prep Batch: 558553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-213350-6	G31S	Total/NA	Water	PrecSep-21	
500-213350-7	G46S	Total/NA	Water	PrecSep-21	
500-213350-8	R08S	Total/NA	Water	PrecSep-21	
500-213350-9	G33S	Total/NA	Water	PrecSep-21	
MB 160-558553/22-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-558553/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-213350-7 DU	G46S	Total/NA	Water	PrecSep-21	

Prep Batch: 558561

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-213350-6	G31S	Total/NA	Water	PrecSep_0	
500-213350-7	G46S	Total/NA	Water	PrecSep_0	
500-213350-8	R08S	Total/NA	Water	PrecSep_0	
500-213350-9	G33S	Total/NA	Water	PrecSep_0	
MB 160-558561/22-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-558561/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-213350-7 DU	G46S	Total/NA	Water	PrecSep_0	

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-554557/13-A
Matrix: Water
Analysis Batch: 558254

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 554557

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.03075	U	0.134	0.134	1.00	0.251	pCi/L	03/10/22 13:28	04/01/22 07:50	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*103*		*40 - 110*	*03/10/22 13:28*	*04/01/22 07:50*	*1*

Lab Sample ID: LCS 160-554557/1-A
Matrix: Water
Analysis Batch: 558254

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 554557

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			11.3	8.535		1.02	1.00	0.217	pCi/L	75	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*105*		*40 - 110*

Lab Sample ID: 500-213350-2 DU
Matrix: Water
Analysis Batch: 558254

Client Sample ID: T09S DUP
Prep Type: Total/NA
Prep Batch: 554557

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-226	1.78			2.052		0.430	1.00	0.266	pCi/L			0.33	1

Carrier	*DU %Yield*	*DU Qualifier*	*Limits*
Ba Carrier	*84.0*		*40 - 110*

Lab Sample ID: MB 160-555104/18-A
Matrix: Water
Analysis Batch: 558547

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 555104

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.04039	U	0.0736	0.0737	1.00	0.131	pCi/L	03/14/22 10:20	04/05/22 10:01	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.4*		*40 - 110*	*03/14/22 10:20*	*04/05/22 10:01*	*1*

Lab Sample ID: LCS 160-555104/1-A
Matrix: Water
Analysis Batch: 558547

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 555104

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			11.3	9.293		1.03	1.00	0.178	pCi/L	82	75 - 125		

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

Lab Sample ID: LCS 160-555104/1-A
Matrix: Water
Analysis Batch: 558547

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 555104

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	91.6		40 - 110

Lab Sample ID: 500-213350-4 DU
Matrix: Water
Analysis Batch: 558547

Client Sample ID: T05S
Prep Type: Total/NA
Prep Batch: 555104

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-226	0.411			0.4610		0.153	1.00	0.120	pCi/L			0.17	1

Carrier	DU %Yield	DU Qualifier	Limits
Ba Carrier	82.3		40 - 110

Lab Sample ID: MB 160-555713/17-A
Matrix: Water
Analysis Batch: 559296

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 555713

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0000	U	0.101	0.101	1.00	0.196	pCi/L	03/17/22 12:30	04/08/22 10:30	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	94.6		40 - 110	03/17/22 12:30	04/08/22 10:30	1

Lab Sample ID: LCS 160-555713/1-A
Matrix: Water
Analysis Batch: 559300

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 555713

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			11.3	9.805		1.08	1.00	0.136	pCi/L	86	75 - 125		

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	96.1		40 - 110

Lab Sample ID: 500-213350-12 DU
Matrix: Water
Analysis Batch: 559300

Client Sample ID: T03S
Prep Type: Total/NA
Prep Batch: 555713

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-226	0.720			0.7314		0.207	1.00	0.160	pCi/L			0.03	1

Carrier	DU %Yield	DU Qualifier	Limits
Ba Carrier	79.8		40 - 110

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

Lab Sample ID: MB 160-555908/23-A
Matrix: Water
Analysis Batch: 559799

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 555908

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.07167		0.0532	0.0536	1.00	0.0713	pCi/L	03/18/22 10:28	04/11/22 20:06	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*97.8*		*40 - 110*	*03/18/22 10:28*	*04/11/22 20:06*	*1*

Lab Sample ID: LCS 160-555908/1-A
Matrix: Water
Analysis Batch: 559799

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 555908

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			11.3	9.736		1.01	1.00	0.0740	pCi/L	86	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*93.6*		*40 - 110*

Lab Sample ID: 500-213350-16 DU
Matrix: Water
Analysis Batch: 559791

Client Sample ID: G48S
Prep Type: Total/NA
Prep Batch: 555908

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-226	0.790			0.9762		0.194	1.00	0.0991	pCi/L			0.49	1

Carrier	*DU %Yield*	*DU Qualifier*	*Limits*
Ba Carrier	*86.7*		*40 - 110*

Lab Sample ID: MB 160-558553/22-A
Matrix: Water
Analysis Batch: 562410

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 558553

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.01612	U	0.0404	0.0404	1.00	0.0949	pCi/L	04/05/22 12:09	04/27/22 13:05	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*95.6*		*40 - 110*	*04/05/22 12:09*	*04/27/22 13:05*	*1*

Lab Sample ID: LCS 160-558553/1-A
Matrix: Water
Analysis Batch: 562410

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 558553

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			11.3	10.25		1.06	1.00	0.110	pCi/L	90	75 - 125		

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

Lab Sample ID: LCS 160-558553/1-A
Matrix: Water
Analysis Batch: 562410

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 558553

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	98.8		40 - 110

Lab Sample ID: 500-213350-7 DU
Matrix: Water
Analysis Batch: 562246

Client Sample ID: G46S
Prep Type: Total/NA
Prep Batch: 558553

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-226	1.30			1.423		0.267	1.00	0.118	pCi/L			0.23	1

Carrier	DU %Yield	DU Qualifier	Limits
Ba Carrier	93.3		40 - 110

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-555108/18-A
Matrix: Water
Analysis Batch: 558239

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 555108

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.1688	U	0.230	0.231	1.00	0.441	pCi/L	03/14/22 10:59	03/31/22 13:40	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	91.4		40 - 110	03/14/22 10:59	03/31/22 13:40	1
Y Carrier	85.2		40 - 110	03/14/22 10:59	03/31/22 13:40	1

Lab Sample ID: LCS 160-555108/1-A
Matrix: Water
Analysis Batch: 558069

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 555108

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			0.875	0.8747		0.315	1.00	0.411	pCi/L	100	75 - 125		

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	91.6		40 - 110
Y Carrier	84.9		40 - 110

Lab Sample ID: 500-213350-4 DU
Matrix: Water
Analysis Batch: 558069

Client Sample ID: T05S
Prep Type: Total/NA
Prep Batch: 555108

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-228	0.466			0.08468	U	0.253	1.00	0.440	pCi/L			0.69	1

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

Lab Sample ID: 500-213350-4 DU
Matrix: Water
Analysis Batch: 558069

Client Sample ID: T05S
Prep Type: Total/NA
Prep Batch: 555108

Carrier	DU %Yield	DU Qualifier	Limits
Ba Carrier	82.3		40 - 110
Y Carrier	83.0		40 - 110

Lab Sample ID: MB 160-555716/17-A
Matrix: Water
Analysis Batch: 558472

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 555716

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.1882	U	0.243	0.244	1.00	0.404	pCi/L	03/17/22 12:47	04/04/22 13:24	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	94.6		40 - 110	03/17/22 12:47	04/04/22 13:24	1
Y Carrier	86.7		40 - 110	03/17/22 12:47	04/04/22 13:24	1

Lab Sample ID: LCS 160-555716/1-A
Matrix: Water
Analysis Batch: 558517

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 555716

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			0.874	0.9072		0.301	1.00	0.377	pCi/L	104	75 - 125		

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	96.1		40 - 110
Y Carrier	86.4		40 - 110

Lab Sample ID: 500-213350-12 DU
Matrix: Water
Analysis Batch: 558517

Client Sample ID: T03S
Prep Type: Total/NA
Prep Batch: 555716

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-228	0.718			0.3397	U	0.314	1.00	0.504	pCi/L			0.63	1

Carrier	DU %Yield	DU Qualifier	Limits
Ba Carrier	79.8		40 - 110
Y Carrier	83.7		40 - 110

Lab Sample ID: MB 160-555926/23-A
Matrix: Water
Analysis Batch: 557411

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 555926

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.2216	U	0.208	0.209	1.00	0.334	pCi/L	03/18/22 13:09	03/28/22 19:53	1

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

Lab Sample ID: MB 160-555926/23-A
Matrix: Water
Analysis Batch: 557411

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 555926

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	97.8		40 - 110	03/18/22 13:09	03/28/22 19:53	1
Y Carrier	82.2		40 - 110	03/18/22 13:09	03/28/22 19:53	1

Lab Sample ID: LCS 160-555926/1-A
Matrix: Water
Analysis Batch: 557411

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 555926

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			0.876	0.6669		0.266	1.00	0.343	pCi/L	76	75 - 125		

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	93.6		40 - 110
Y Carrier	78.9		40 - 110

Lab Sample ID: 500-213350-16 DU
Matrix: Water
Analysis Batch: 557411

Client Sample ID: G48S
Prep Type: Total/NA
Prep Batch: 555926

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-228	1.77			1.207		0.384	1.00	0.481	pCi/L			0.66	1

Carrier	DU %Yield	DU Qualifier	Limits
Ba Carrier	86.7		40 - 110
Y Carrier	80.7		40 - 110

Lab Sample ID: MB 160-558078/13-A
Matrix: Water
Analysis Batch: 558535

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 558078

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.3960		0.213	0.216	1.00	0.317	pCi/L	03/31/22 13:15	04/05/22 18:10	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	98.3		40 - 110	03/31/22 13:15	04/05/22 18:10	1
Y Carrier	81.5		40 - 110	03/31/22 13:15	04/05/22 18:10	1

Lab Sample ID: LCS 160-558078/1-A
Matrix: Water
Analysis Batch: 558534

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 558078

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			8.73	7.306		0.855	1.00	0.289	pCi/L	84	75 - 125		

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

Lab Sample ID: LCS 160-558078/1-A
Matrix: Water
Analysis Batch: 558534

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 558078

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	100		40 - 110
Y Carrier	80.0		40 - 110

Lab Sample ID: 500-213350-3 DU
Matrix: Water
Analysis Batch: 558535

Client Sample ID: T06S
Prep Type: Total/NA
Prep Batch: 558078

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-228	0.570			0.4167		0.229	1.00	0.340	pCi/L			0.33	1

Carrier	DU %Yield	DU Qualifier	Limits
Ba Carrier	98.5		40 - 110
Y Carrier	80.4		40 - 110

Lab Sample ID: MB 160-558561/22-A
Matrix: Water
Analysis Batch: 560269

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 558561

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.5523		0.270	0.275	1.00	0.395	pCi/L	04/05/22 13:32	04/14/22 12:34	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	95.6		40 - 110	04/05/22 13:32	04/14/22 12:34	1
Y Carrier	84.1		40 - 110	04/05/22 13:32	04/14/22 12:34	1

Lab Sample ID: LCS 160-558561/1-A
Matrix: Water
Analysis Batch: 560439

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 558561

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			8.71	9.456		1.11	1.00	0.372	pCi/L	109	75 - 125		

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	98.8		40 - 110
Y Carrier	79.6		40 - 110

Lab Sample ID: 500-213350-7 DU
Matrix: Water
Analysis Batch: 560269

Client Sample ID: G46S
Prep Type: Total/NA
Prep Batch: 558561

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-228	2.35			2.066		0.576	1.00	0.687	pCi/L			0.23	1

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

Lab Sample ID: 500-213350-7 DU
Matrix: Water
Analysis Batch: 560269

Client Sample ID: G46S
Prep Type: Total/NA
Prep Batch: 558561

Carrier	DU %Yield	DU Qualifier	Limits
Ba Carrier	93.3		40 - 110
Y Carrier	72.5		40 - 110

Chain of Custody Record

538322 eurofins

Environment Testing
TestAmer ca

Address. _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TAL-8210

Client Contact	Project Manager Diana Mockler	Site Contact	Date	COC No
Company Name Midwest Generation EME LLC	Tel/Email	Lab Contact	Carrier	_____ of _____ COCs
Address	Analysis Turnaround Time			Sampler
City/State/Zip Joliet, IL.	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only.
Phone	TAT if different from Below _____			Walk-in Client
Fax	☐ 2 weeks			Lab Sampling
Project Name Joliet #9 (Quarry) CCR	☐ 1 week			
Site 1Q22 GW	☐ 2 days			Job / SDG No 500-213350
P O #	☐ 1 day			

500-213350 COC

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	Radium 226	Radium 228	Combined 226/228	Metals 14 elements + Hg	TDS, Fl, Cl, SO4	Sample Specific Notes
1 TQ9S	03/08/22	0953		W	5			✓	✓	✓	✓	✓	
2 TQ9S DUP	03/08/22	0953		W	5			✓	✓	✓	✓	✓	
3 TQ6S	03/08/22	1255		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

☐ 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 2.8 Corr'd _____ | Therm ID No _____

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
[signature]	ETA	03/08/22 1450			
Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by [signature]	Company EEA	Date/Time 3/8/22 1450

Chain of Custody Record

538323

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Address: _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TAL-8210

Client Contact	Project Manager: Diana MacKie	Site Contact:	Date:	COC No:
Company Name: Midwest Generation EME LLC	Tel/Email:	Lab Contact:	Carrier:	_____ of _____ COCs
Address:	Analysis Turnaround Time			Sampler:
City/State/Zip: Joliet, IL	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone:	TAT if different from Below _____			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: Joliet #9 (Quarry) CCR	☐ 1 week			
Site: 1022 GW	☐ 2 days			Job / SDG No.:
PO #	☐ 1 day			500-213350

500-213350 COC

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	Radium 226	Radium 228	Combined 226/228	Metals 14 elements + Hg	TDS, Fl, Cl, SO4	Sample Specific Notes:
TOSS	03/10/22	1007		W	5			✓	✓	✓	✓	✓	
TO2S	03/10/22	1249		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.

☐ 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: 1.6 Corr'd: 1.1 | Therm ID No.: _____

	Company	Date/Time		Company	Date/Time
Relinquished by:	ETA	03/10/22	Received by:	ETA	3/10/22 1450
Relinquished by:	BTA 1450	3/10/22	Received by:		
Relinquished by:			Received in Laboratory by:	PETA	3/10/22 1450

Chain of Custody Record

538324

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Address: _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TAL-8210

Client Contact	Project Manager:	Site Contact:	Date:	COC No:
Company Name: Midwest Generation EME LLC	Tel/Email:	Lab Contact:	Carrier:	_____ of _____ COCs
Address:	Analysis Turnaround Time			Sampler:
City/State/Zip: Joliet, IL	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone:	TAT if different from Below _____			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: Joliet #9 (Quarry) CCR	☐ 1 week			Job / SDG No.:
Site: 1Q22 GW	☐ 2 days			500-213350
P O #	☐ 1 day			

500-213350 COC

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	Radium 226	Radium 228	Combined 226/228	Metals 14 elements + Hg	TDS, Fl, Cl, SO4	Sample Specific Notes:
G315	03/11/22	0944		W	5			/	/	/	/	/	
G465	03/11/22	1056		W	5			/	/	/	/	/	
R085	03/11/22	1235		W	5			/	/	/	/	/	
G335	03/11/22	1392		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.

☐ 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: 2.1 Corr'd: _____ Therm ID No.: _____

	Company	Date/Time	Received by	Company	Date/Time
Relinquished by:	ETA	03/11/22 1527			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time: 3/11/22 1527

Chain of Custody Record

542109

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Address _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TAL-8210

Client Contact	Project Manager: Diana Meckler	Site Contact:	Date	COC No
Company Name: Midwest Generation EME LLC	Tel/Email	Lab Contact:	Carrier	_____ of _____ COCs
Address	Analysis Turnaround Time			Sampler
City/State/Zip: Joliet, IL.	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only
Phone	TAT if different from Below _____			Walk-in Client
Fax	☐ 2 weeks			Lab Sampling
Project Name: Joliet #9 Quarry CCR	☐ 1 week			
Site: 1Q22 GW	☐ 2 days			Job / SDG No: 500-213350
P O #	☐ 1 day			

213350 COC

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Radium 226	Radium 228	Ra226_Ra228 Combined	Metals 14 element + Hg	TDS, Fl, Cl, SO4	Sample Specific Notes
10 TO1S	03/14/22	0952		W	5			✓	✓	✓	✓	✓	
TO8S	03/14/22	1149		W	5			✓	✓	✓	✓	✓	
12 TO3S	03/14/22	1345		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.

☐ 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. 1.9 Corr'd 1.4 Therm ID No _____

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
[signature]	ETA	03/14/22 1456			
Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received by/Laboratory by: [signature]	Company: BETA	Date/Time: 3/14/22 1456

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

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: Nee L, John H.	Lab PM: Mockler Diana J	Carrie	COC No. 500-99504-43521 1
Client Contact: DeAndre Cooley	Phone	E-Mail: Diana Mockler@Eurofinset.com	State	Page: Page 1 of 2
Company: Midwest Generation EME LLC	PWSID			Job #: 500-213350
Address: 1800 Channahon Road	Due Date Requested			
City: Joliet	TAT Requested (days)			
State Zip: IL 60436	Compliance Project. Δ Yes Δ No			
Phone: 779-279-2321(Tel)	PO #: 4502085968			
Email: deandre cooley@nrg com	WO #:			
Project Name: Joliet #9 CCR	Project #: 50011504			
Site: Illinois	SSOW#:			

Analysis Reques

213350 COC

Preservation Codes

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

Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0 - Standard Target List	Ra226Ra228_GFPC - Local Method	904.0 - Standard Target List	6020A, 7470A	2540C, 4500_F_C, SM4500_Cl_E, SM4500_SO4_E	Total Number of containers	Special Instructions/Note
				Preservation Code:				D	D	D	D	N		
13	[redacted] G20S	03/15/22	0930		Water			✓	✓	✓	✓	✓		
14	[redacted] G30S	03/15/22	1143		Water			✓	✓	✓	✓	✓		
15	[redacted] G44S	03/15/22	1349		Water			✓	✓	✓	✓	✓		
	[redacted]				Water									
	[redacted]				Water									
	[redacted]				Water									
	[redacted]				Water									
	[redacted]				Water									
	[redacted]				Water									
	[redacted]				Water									
	[redacted]				Water									

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

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

Deliverable Requested I II III IV Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by:	Date	Time	Method of Shipment:

	Date/Time	Company	Received by	Date/Time	Company
Relinquished by:	03/15/22e 1452	ETA	Stephanie Hernandez	3/15/22 1452	ETA
Relinquished by:	Date/Time.	Company	Received by:	Date/Time	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks	2.3

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

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: Noe L, John H.	Lab PM: Mockler Diana J	Carrier Tracking No(s)	COC No: 500-99504-43521 2
Client Contact: DeAndre Cooley	Phone	E-Mail: Diana Mockler@Eurofinset.com	State of Origin	Page: Page ~~2 of 2~~
Company: Midwest Generation EME LLC	PWSID	Analysis Requested		Job #: 500-213350

Address: 1800 Channahon Road	Due Date Requested		
City: Joliet	TAT Requested (days):		
State, Zip: IL 60436	Compliance Project. Δ Yes Δ No		
Phone: 779-279-2321(Tel)	PO #: 4502085968		
Email: deandre cooley@nrg com	WO #:		
Project Name: Joliet #9 CCR	Project #: 50011504		
Site: Illinois	SSOW#:		

213350 COC

Preservation Codes

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

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0 - Standard Target List	Ra226Ra228_GFPC - Local Method	904.0 Standard Target List	6020A, 7470A	2540C, 4500_F_C, SM4500_Cl_E, SM4500_SO4_E	Total Number of containers	Special Instructions/Note
	Preservation Code:						D	D	D	D	N		
16 [redacted] G48S	03/16/22	0928		Water			✓	✓	✓	✓	✓	5	
17 [redacted] G47S	03/16/22	1055		Water			✓	✓	✓	✓	✓	5	
18 [redacted] R32S	03/16/22	1244		Water			✓	✓	✓	✓	✓	5	
19 [redacted] G45S	03/16/22	1331		Water			✓	✓	✓	✓	✓		
20 [redacted] T04S	03/16/22	1410		Water								1	Unable to sample due to Property development/Excavation
[redacted]				Water									
[redacted]				Water									
[redacted]				Water									
[redacted]				Water									

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

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

Deliverable Requested I II III IV Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment:

	Date/Time	Company	Received by	Date/Time	Company
Relinquished by:	03/16/22 e 1455	ETA		3/16/22 1455	ETA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact. Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks: 3.1

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

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Mockler, Diana J	Carrier Tracking No(s):	COC No: 500-157944.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Diana.Mockler@Eurofinset.com	State of Origin: Illinois	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #: 500-213350-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 3/28/2022			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: Joliet #9 (Quarry) CCR	Project #: 50011504			
Site: NRG Midwest Generation LSQ Joliet #9 CCR	SSOW#:			

Analysis Requested

Preservation Codes:

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

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PrecSep_21 Standard Target List	904.0/PrecSep_0 Standard Target List	Ra226Ra228_GFPC	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
T09S (500-213350-1)	3/8/22	09:53 Central		Water			X	X	X	3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;
T09S DUP (500-213350-2)	3/8/22	09:53 Central		Water			X	X	X	3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;
T06S (500-213350-3)	3/8/22	12:55 Central		Water			X	X	X	3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC 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/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing North Central, LLC.

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

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

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Shelli Scott	3/8/22 1510	PEAS	FED EX		
Relinquished by: FED EX	Date/Time:	Company	Received by: Sierra Worthington	Date/Time: MAR 09 2022 1008	Company ETAS TL
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

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

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

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Mockler, Diana J	Carrier Tracking No(s):	COC No: 500-158034.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Diana.Mockler@Eurofinset.com	State of Origin: Illinois	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #: 500-213350-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 3/29/2022			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: Joliet #9 (Quarry) CCR	Project #: 50011504			
Site: NRG Midwest Generation LSQ Joliet #9 CCR	SSOW#:			

Analysis Requested

Preservation Codes:

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

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PrecSep_21 Standard Target List	904.0/PrecSep_0 Standard Target List	Ra226Ra228_GFPC	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
T05S (500-213350-4)	3/10/22	10:07 Central		Water			X	X	X	3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;
T02S (500-213350-5)	3/10/22	12:49 Central		Water			X	X	X	3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC 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/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing North Central, LLC.

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

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

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Shri Scott	3/10/22 1530	BETA	FE		
2	FE				3-11-22 0909	ETASTL
3						

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

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

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Mockler, Diana J	Carrier Tracking No(s):	COC No: 500-158090.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Diana.Mockler@Eurofinset.com	State of Origin: Illinois	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #: 500-213350-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 3/29/2022			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: Joliet #9 (Quarry) CCR 1Q22	Project #: 50011504			
Site: NRG Midwest Generation LSQ Joliet #9 CCR	SSOW#:			

Analysis Requested

Preservation Codes:

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

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PrecSep_21 Standard Target List	904.0/PrecSep_0 Standard Target List	Ra226Ra228_GFPC	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
G31S (500-213350-6)	3/11/22	09:44 Central		Water			X	X	X	3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;
G46S (500-213350-7)	3/11/22	10:56 Central		Water			X	X	X	3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;
R08S (500-213350-8)	3/11/22	12:35 Central		Water			X	X	X	3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;
G33S (500-213350-9)	3/11/22	13:32 Central		Water			X	X	X	3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC 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/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing North Central, LLC.

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

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

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature] FED EX	3/11/22 1540	EETA	FED EX		
2	Relinquished by: FED EX	Date/Time:	Company	Received by: [signature]	Date/Time: MAR 14 2022 0830	Company EETA STL
3	Relinquished by:	Date/Time:	Company	Received by: Autumn R. Johnson	Date/Time:	Company

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

4/27/2022

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

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Mockler, Diana J	Carrier Tracking No(s):	COC No: 500-158179.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Diana.Mockler@Eurofinset.com	State of Origin: Illinois	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #: 500-213350-1
Address: 13715 Rider Trail North,	Due Date Requested: 3/29/2022			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: Joliet #9 (Quarry) CCR 1Q22	Project #: 50011504			
Site: NRG Midwest Generation LSQ Joliet #9 CCR	SSOW#:			

Analysis Requested

Preservation Codes:

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

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PrecSep_21 Standard Target List	904.0/PrecSep_0 Standard Target List	Ra226Ra228_GFPC	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
T01S (500-213350-10)	3/14/22	09:52 Central		Water			X	X	X	3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;
T08S (500-213350-11)	3/14/22	11:49 Central		Water			X	X	X	3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;
T03S (500-213350-12)	3/14/22	13:45 Central		Water			X	X	X	3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC 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/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing North Central, LLC.

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

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

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	3/14/22 1615	EETA	FED EX		
2	FED EX			Sierra Worthington	MAR 15 2022 1000	ETASL
3						

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

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

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Mockler, Diana J	Carrier Tracking No(s):	COC No: 500-158222.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Diana.Mockler@Eurofinset.com	State of Origin: Illinois	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #: 500-213350-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 3/29/2022			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: Joliet #9 (Quarry) CCR 1Q22	Project #: 50011504			
Site: NRG Midwest Generation LSQ Joliet #9 CCR	SSOW#:			

Analysis Requested

Preservation Codes:

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

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PrecSep_21 Standard Target List	904.0/PrecSep_0 Standard Target List	Ra226Ra228_GFPC	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
G20S (500-213350-13)	3/15/22	09:30 Central		Water			X	X	X	3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;
G30S (500-213350-14)	3/15/22	11:43 Central		Water			X	X	X	3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;
G44S (500-213350-15)	3/15/22	13:49 Central		Water			X	X	X	3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC 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/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing North Central, LLC.

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

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

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Shari Scott	3/15/22 1520	EAST	FED EX		
2	Relinquished by: FED EX	Date/Time:	Company	Received by: Sierra Walleyn	Date/Time: 3-16-22 1355	Company EAST
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

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

4/27/2022

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

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Mockler, Diana J	Carrier Tracking No(s):	COC No: 500-158269.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Diana.Mockler@Eurofinset.com	State of Origin: Illinois	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #: 500-213350-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 3/29/2022			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: Joliet #9 (Quarry) CCR 1Q22	Project #: 50011504			
Site: NRG Midwest Generation LSQ Joliet #9 CCR	SSOW#:			

Analysis Requested

Preservation Codes:

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

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PrecSep_21 Standard Target List	904.0/PrecSep_0 Standard Target List	Ra226Ra228_GFPC	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
G48S (500-213350-16)	3/16/22	09:28 Central		Water			X	X	X	3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;
G47S (500-213350-17)	3/16/22	10:55 Central		Water			X	X	X	3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;
R32S (500-213350-18)	3/16/22	12:44 Central		Water			X	X	X	3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;
G45S (500-213350-19)	3/16/22	13:31 Central		Water			X	X	X	3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC 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/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing North Central, LLC.

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

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

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	3/16/22 1610	FEDEX	FED EX		
2	FED EX			[signature]	MAR 17 2022 0905	ETAS
3						

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

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-213350-2

Login Number: 213350
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.8,1.1,1.1,1.4,2.3,3.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-213350-2

Login Number: 213350
List Number: 2
Creator: Worthington, Sierra M

List Source: Eurofins St. Louis
List Creation: 03/09/22 11:12 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: 500-213350-2

Login Number: 213350
List Number: 3
Creator: Johnson, Autumn R

List Source: Eurofins St. Louis
List Creation: 03/11/22 12:46 PM

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

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-213350-2

Login Number: 213350
List Number: 4
Creator: Johnson, Autumn R

List Source: Eurofins St. Louis
List Creation: 03/14/22 11:18 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: 500-213350-2

Login Number: 213350
List Number: 5
Creator: Worthington, Sierra M

List Source: Eurofins St. Louis
List Creation: 03/15/22 11:06 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: 500-213350-2

Login Number: 213350
List Number: 6
Creator: Worthington, Sierra M

List Source: Eurofins St. Louis
List Creation: 03/16/22 02:45 PM

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

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-213350-2

Login Number: 213350
List Number: 7
Creator: Worthington, Sierra M

List Source: Eurofins St. Louis
List Creation: 03/17/22 11:09 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	

Lab Chronicle

Client: KPRG and Associates, Inc.
Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-2

Client Sample ID: T09S
Date Collected: 03/08/22 09:53
Date Received: 03/08/22 14:50

Lab Sample ID: 500-213350-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			554557	03/10/22 13:28	LPS	TAL SL
Total/NA	Analysis	903.0		1	558254	04/01/22 07:49	CLP	TAL SL
Total/NA	Prep	PrecSep_0			558078	03/31/22 13:15	LPS	TAL SL
Total/NA	Analysis	904.0		1	558535	04/05/22 18:10	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	558889	04/06/22 12:57	SCB	TAL SL

Client Sample ID: T09S DUP
Date Collected: 03/08/22 09:53
Date Received: 03/08/22 14:50

Lab Sample ID: 500-213350-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			554557	03/10/22 13:28	LPS	TAL SL
Total/NA	Analysis	903.0		1	558254	04/01/22 07:49	CLP	TAL SL
Total/NA	Prep	PrecSep_0			558078	03/31/22 13:15	LPS	TAL SL
Total/NA	Analysis	904.0		1	558535	04/05/22 18:10	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	558889	04/06/22 12:57	SCB	TAL SL

Client Sample ID: T06S
Date Collected: 03/08/22 12:55
Date Received: 03/08/22 14:50

Lab Sample ID: 500-213350-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			554557	03/10/22 13:28	LPS	TAL SL
Total/NA	Analysis	903.0		1	558254	04/01/22 07:50	CLP	TAL SL
Total/NA	Prep	PrecSep_0			558078	03/31/22 13:15	LPS	TAL SL
Total/NA	Analysis	904.0		1	558535	04/05/22 18:10	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	558889	04/06/22 12:57	SCB	TAL SL

Client Sample ID: T05S
Date Collected: 03/10/22 10:07
Date Received: 03/10/22 14:50

Lab Sample ID: 500-213350-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			555104	03/14/22 10:20	LPS	TAL SL
Total/NA	Analysis	903.0		1	558547	04/05/22 08:03	FLC	TAL SL
Total/NA	Prep	PrecSep_0			555108	03/14/22 10:59	LPS	TAL SL
Total/NA	Analysis	904.0		1	558069	03/31/22 13:32	CLP	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	562430	04/27/22 16:40	EMH	TAL SL

Lab Chronicle

Client: KPRG and Associates, Inc.
Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-2

Client Sample ID: T02S
Date Collected: 03/10/22 12:49
Date Received: 03/10/22 14:50

Lab Sample ID: 500-213350-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			555104	03/14/22 10:20	LPS	TAL SL
Total/NA	Analysis	903.0		1	558547	04/05/22 08:03	FLC	TAL SL
Total/NA	Prep	PrecSep_0			555108	03/14/22 10:59	LPS	TAL SL
Total/NA	Analysis	904.0		1	558069	03/31/22 13:32	CLP	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	562430	04/27/22 16:40	EMH	TAL SL

Client Sample ID: G31S
Date Collected: 03/11/22 09:44
Date Received: 03/11/22 15:27

Lab Sample ID: 500-213350-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			558553	04/05/22 12:07	HRT	TAL SL
Total/NA	Analysis	903.0		1	562246	04/27/22 11:58	FLC	TAL SL
Total/NA	Prep	PrecSep_0			558561	04/05/22 13:32	HRT	TAL SL
Total/NA	Analysis	904.0		1	560439	04/14/22 12:24	CLP	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	562428	04/27/22 16:36	EMH	TAL SL

Client Sample ID: G46S
Date Collected: 03/11/22 10:56
Date Received: 03/11/22 15:27

Lab Sample ID: 500-213350-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			558553	04/05/22 12:07	HRT	TAL SL
Total/NA	Analysis	903.0		1	562246	04/27/22 11:59	FLC	TAL SL
Total/NA	Prep	PrecSep_0			558561	04/05/22 13:32	HRT	TAL SL
Total/NA	Analysis	904.0		1	560269	04/14/22 12:33	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	562428	04/27/22 16:36	EMH	TAL SL

Client Sample ID: R08S
Date Collected: 03/11/22 12:35
Date Received: 03/11/22 15:27

Lab Sample ID: 500-213350-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			558553	04/05/22 12:07	HRT	TAL SL
Total/NA	Analysis	903.0		1	562410	04/27/22 13:05	FLC	TAL SL
Total/NA	Prep	PrecSep_0			558561	04/05/22 13:32	HRT	TAL SL
Total/NA	Analysis	904.0		1	560269	04/14/22 12:34	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	562428	04/27/22 16:36	EMH	TAL SL

Lab Chronicle

Client: KPRG and Associates, Inc.
Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-2

Client Sample ID: G33S

Lab Sample ID: 500-213350-9
Matrix: Water
Date Collected: 03/11/22 13:32
Date Received: 03/11/22 15:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			558553	04/05/22 12:07	HRT	TAL SL
Total/NA	Analysis	903.0		1	562410	04/27/22 13:05	FLC	TAL SL
Total/NA	Prep	PrecSep_0			558561	04/05/22 13:32	HRT	TAL SL
Total/NA	Analysis	904.0		1	560269	04/14/22 12:34	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	562428	04/27/22 16:36	EMH	TAL SL

Client Sample ID: T01S

Lab Sample ID: 500-213350-10
Matrix: Water
Date Collected: 03/14/22 09:52
Date Received: 03/14/22 14:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			555713	03/17/22 12:30	LPS	TAL SL
Total/NA	Analysis	903.0		1	559300	04/08/22 10:35	FLC	TAL SL
Total/NA	Prep	PrecSep_0			555716	03/17/22 12:47	LPS	TAL SL
Total/NA	Analysis	904.0		1	558517	04/04/22 13:21	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	559336	04/08/22 18:02	EMH	TAL SL

Client Sample ID: T08S

Lab Sample ID: 500-213350-11
Matrix: Water
Date Collected: 03/14/22 11:49
Date Received: 03/14/22 14:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			555713	03/17/22 12:30	LPS	TAL SL
Total/NA	Analysis	903.0		1	559300	04/08/22 10:35	FLC	TAL SL
Total/NA	Prep	PrecSep_0			555716	03/17/22 12:47	LPS	TAL SL
Total/NA	Analysis	904.0		1	558517	04/04/22 13:21	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	559336	04/08/22 18:02	EMH	TAL SL

Client Sample ID: T03S

Lab Sample ID: 500-213350-12
Matrix: Water
Date Collected: 03/14/22 13:45
Date Received: 03/14/22 14:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			555713	03/17/22 12:30	LPS	TAL SL
Total/NA	Analysis	903.0		1	559300	04/08/22 10:35	FLC	TAL SL
Total/NA	Prep	PrecSep_0			555716	03/17/22 12:47	LPS	TAL SL
Total/NA	Analysis	904.0		1	558517	04/04/22 13:21	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	559336	04/08/22 18:02	EMH	TAL SL

Lab Chronicle

Client: KPRG and Associates, Inc.
Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-2

Client Sample ID: G20S
Date Collected: 03/15/22 09:30
Date Received: 03/15/22 14:52

Lab Sample ID: 500-213350-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			555713	03/17/22 12:30	LPS	TAL SL
Total/NA	Analysis	903.0		1	559300	04/08/22 10:36	FLC	TAL SL
Total/NA	Prep	PrecSep_0			555716	03/17/22 12:47	LPS	TAL SL
Total/NA	Analysis	904.0		1	558517	04/04/22 13:21	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	559336	04/08/22 18:02	EMH	TAL SL

Client Sample ID: G30S
Date Collected: 03/15/22 11:43
Date Received: 03/15/22 14:52

Lab Sample ID: 500-213350-14
Matrix: GW

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			555713	03/17/22 12:30	LPS	TAL SL
Total/NA	Analysis	903.0		1	559300	04/08/22 10:36	FLC	TAL SL
Total/NA	Prep	PrecSep_0			555716	03/17/22 12:47	LPS	TAL SL
Total/NA	Analysis	904.0		1	558517	04/04/22 13:22	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	559336	04/08/22 18:02	EMH	TAL SL

Client Sample ID: G44S
Date Collected: 03/15/22 13:49
Date Received: 03/15/22 14:52

Lab Sample ID: 500-213350-15
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			555713	03/17/22 12:30	LPS	TAL SL
Total/NA	Analysis	903.0		1	559300	04/08/22 10:36	FLC	TAL SL
Total/NA	Prep	PrecSep_0			555716	03/17/22 12:47	LPS	TAL SL
Total/NA	Analysis	904.0		1	558517	04/04/22 13:22	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	559336	04/08/22 18:02	EMH	TAL SL

Client Sample ID: G48S
Date Collected: 03/16/22 09:28
Date Received: 03/16/22 14:55

Lab Sample ID: 500-213350-16
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			555908	03/18/22 10:28	LPS	TAL SL
Total/NA	Analysis	903.0		1	559791	04/11/22 17:25	FLC	TAL SL
Total/NA	Prep	PrecSep_0			555926	03/18/22 13:09	LPS	TAL SL
Total/NA	Analysis	904.0		1	557606	03/28/22 19:58	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	560019	04/12/22 17:16	EMH	TAL SL

Lab Chronicle

Client: KPRG and Associates, Inc.
Project/Site: Joliet #9 (Quarry) CCR 1Q22

Job ID: 500-213350-2

Client Sample ID: G47S

Lab Sample ID: 500-213350-17

Date Collected: 03/16/22 10:55

Matrix: Water

Date Received: 03/16/22 14:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			555908	03/18/22 10:28	LPS	TAL SL
Total/NA	Analysis	903.0		1	560015	04/12/22 11:28	CLP	TAL SL
Total/NA	Prep	PrecSep_0			555926	03/18/22 13:09	LPS	TAL SL
Total/NA	Analysis	904.0		1	557606	03/28/22 19:58	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	560019	04/12/22 17:16	EMH	TAL SL

Client Sample ID: R32S

Lab Sample ID: 500-213350-18

Date Collected: 03/16/22 12:44

Matrix: Water

Date Received: 03/16/22 14:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			555908	03/18/22 10:28	LPS	TAL SL
Total/NA	Analysis	903.0		1	559791	04/11/22 17:25	FLC	TAL SL
Total/NA	Prep	PrecSep_0			555926	03/18/22 13:09	LPS	TAL SL
Total/NA	Analysis	904.0		1	557606	03/28/22 19:58	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	560019	04/12/22 17:16	EMH	TAL SL

Client Sample ID: G45S

Lab Sample ID: 500-213350-19

Date Collected: 03/16/22 13:31

Matrix: Water

Date Received: 03/16/22 14:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			555908	03/18/22 10:28	LPS	TAL SL
Total/NA	Analysis	903.0		1	559791	04/11/22 17:25	FLC	TAL SL
Total/NA	Prep	PrecSep_0			555926	03/18/22 13:09	LPS	TAL SL
Total/NA	Analysis	904.0		1	557606	03/28/22 19:58	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	560019	04/12/22 17:16	EMH	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 1Q22

Job ID: 500-213350-2

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)							
500-213350-14	G30S	90.1							

Tracer/Carrier Legend

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)							
500-213350-1	T09S	76.4							
500-213350-2	T09S DUP	83.0							
500-213350-2 DU	T09S DUP	84.0							
500-213350-3	T06S	56.7							
500-213350-4	T05S	88.7							
500-213350-4 DU	T05S	82.3							
500-213350-5	T02S	92.4							
500-213350-6	G31S	73.8							
500-213350-7	G46S	89.9							
500-213350-7 DU	G46S	93.3							
500-213350-8	R08S	89.4							
500-213350-9	G33S	75.6							
500-213350-10	T01S	71.2							
500-213350-11	T08S	88.9							
500-213350-12	T03S	93.6							
500-213350-12 DU	T03S	79.8							
500-213350-13	G20S	92.4							
500-213350-15	G44S	92.9							
500-213350-16	G48S	76.6							
500-213350-16 DU	G48S	86.7							
500-213350-17	G47S	81.8							
500-213350-18	R32S	82.5							
500-213350-19	G45S	85.2							
LCS 160-554557/1-A	Lab Control Sample	105							
LCS 160-555104/1-A	Lab Control Sample	91.6							
LCS 160-555713/1-A	Lab Control Sample	96.1							
LCS 160-555908/1-A	Lab Control Sample	93.6							
LCS 160-558553/1-A	Lab Control Sample	98.8							
MB 160-554557/13-A	Method Blank	103							
MB 160-555104/18-A	Method Blank	91.4							
MB 160-555713/17-A	Method Blank	94.6							
MB 160-555908/23-A	Method Blank	97.8							
MB 160-558553/22-A	Method Blank	95.6							

Tracer/Carrier Legend

Ba = Ba Carrier

Tracer/Carrier Summary

Client: KPRG and Associates, Inc.
Job ID: 500-213350-2
Project/Site: Joliet #9 (Quarry) CCR 1Q22

Method: 904.0 - Radium-228 (GFPC)

Matrix: GW
Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Yield (Acceptance Limits) Ba (40-110)	Y (40-110)
500-213350-14	G30S	90.1	82.6

Tracer/Carrier Legend
Ba = Ba Carrier
Y = Y Carrier

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water
Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Yield (Acceptance Limits) Ba (40-110)	Y (40-110)
500-213350-1	T09S	88.6	79.3
500-213350-2	T09S DUP	94.8	80.0
500-213350-3	T06S	95.8	79.6
500-213350-3 DU	T06S	98.5	80.4
500-213350-4	T05S	88.7	84.9
500-213350-4 DU	T05S	82.3	83.0
500-213350-5	T02S	92.4	84.1
500-213350-6	G31S	73.8	80.0
500-213350-7	G46S	89.9	59.1
500-213350-7 DU	G46S	93.3	72.5
500-213350-8	R08S	89.4	75.1
500-213350-9	G33S	75.6	77.4
500-213350-10	T01S	71.2	84.1
500-213350-11	T08S	88.9	85.6
500-213350-12	T03S	93.6	85.2
500-213350-12 DU	T03S	79.8	83.7
500-213350-13	G20S	92.4	83.7
500-213350-15	G44S	92.9	84.1
500-213350-16	G48S	76.6	77.8
500-213350-16 DU	G48S	86.7	80.7
500-213350-17	G47S	81.8	81.5
500-213350-18	R32S	82.5	79.6
500-213350-19	G45S	85.2	80.4
LCS 160-555108/1-A	Lab Control Sample	91.6	84.9
LCS 160-555716/1-A	Lab Control Sample	96.1	86.4
LCS 160-555926/1-A	Lab Control Sample	93.6	78.9
LCS 160-558078/1-A	Lab Control Sample	100	80.0
LCS 160-558561/1-A	Lab Control Sample	98.8	79.6
MB 160-555108/18-A	Method Blank	91.4	85.2
MB 160-555716/17-A	Method Blank	94.6	86.7
MB 160-555926/23-A	Method Blank	97.8	82.2
MB 160-558078/13-A	Method Blank	98.3	81.5
MB 160-558561/22-A	Method Blank	95.6	84.1

Tracer/Carrier Legend
Ba = Ba Carrier
Y = Y Carrier