

Hit Summary Sheet SW-846

SDG No.: Q2074 **Order ID:** Q2074
Client: CDM Smith **Project ID:** South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : TP-12								
Q2074-01	TP-12	SOIL	Aluminum	4290		0.85	5.05	mg/Kg
Q2074-01	TP-12	SOIL	Arsenic	2.11		0.19	1.01	mg/Kg
Q2074-01	TP-12	SOIL	Barium	34.1		0.74	5.05	mg/Kg
Q2074-01	TP-12	SOIL	Beryllium	0.46		0.025	0.30	mg/Kg
Q2074-01	TP-12	SOIL	Cadmium	0.25	J	0.024	0.30	mg/Kg
Q2074-01	TP-12	SOIL	Calcium	77.5	J	11.2	101	mg/Kg
Q2074-01	TP-12	SOIL	Chromium	9.76		0.047	0.51	mg/Kg
Q2074-01	TP-12	SOIL	Cobalt	2.92		0.10	1.52	mg/Kg
Q2074-01	TP-12	SOIL	Copper	6.97		0.22	1.01	mg/Kg
Q2074-01	TP-12	SOIL	Iron	9360		4.03	5.05	mg/Kg
Q2074-01	TP-12	SOIL	Lead	10.0		0.13	0.61	mg/Kg
Q2074-01	TP-12	SOIL	Magnesium	647		12.1	101	mg/Kg
Q2074-01	TP-12	SOIL	Manganese	26.4		0.14	1.01	mg/Kg
Q2074-01	TP-12	SOIL	Mercury	0.014	J	0.0080	0.015	mg/Kg
Q2074-01	TP-12	SOIL	Nickel	5.28		0.13	2.02	mg/Kg
Q2074-01	TP-12	SOIL	Potassium	187		28.0	101	mg/Kg
Q2074-01	TP-12	SOIL	Sodium	107		18.0	101	mg/Kg
Q2074-01	TP-12	SOIL	Thallium	0.41	J	0.23	2.02	mg/Kg
Q2074-01	TP-12	SOIL	Vanadium	16.6		0.25	2.02	mg/Kg
Q2074-01	TP-12	SOIL	Zinc	17.4		0.23	2.02	mg/Kg
Client ID : TP-7								
Q2074-02	TP-7	SOIL	Aluminum	6120		0.85	5.08	mg/Kg
Q2074-02	TP-7	SOIL	Arsenic	2.20		0.19	1.02	mg/Kg
Q2074-02	TP-7	SOIL	Barium	16.5		0.74	5.08	mg/Kg
Q2074-02	TP-7	SOIL	Beryllium	0.45		0.025	0.31	mg/Kg
Q2074-02	TP-7	SOIL	Cadmium	0.35		0.024	0.31	mg/Kg
Q2074-02	TP-7	SOIL	Calcium	190		11.3	102	mg/Kg
Q2074-02	TP-7	SOIL	Chromium	8.71		0.048	0.51	mg/Kg
Q2074-02	TP-7	SOIL	Cobalt	4.61		0.10	1.52	mg/Kg
Q2074-02	TP-7	SOIL	Copper	3.87		0.22	1.02	mg/Kg
Q2074-02	TP-7	SOIL	Iron	12100		4.05	5.08	mg/Kg
Q2074-02	TP-7	SOIL	Lead	3.49		0.13	0.61	mg/Kg
Q2074-02	TP-7	SOIL	Magnesium	226		12.2	102	mg/Kg
Q2074-02	TP-7	SOIL	Manganese	38.7		0.14	1.02	mg/Kg
Q2074-02	TP-7	SOIL	Mercury	0.011	J	0.0090	0.015	mg/Kg
Q2074-02	TP-7	SOIL	Nickel	4.00		0.13	2.03	mg/Kg
Q2074-02	TP-7	SOIL	Potassium	144		28.1	102	mg/Kg

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SDG No.: Q2074

Order ID: Q2074

Client: CDM Smith

Project ID: South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2074-02	TP-7	SOIL	Sodium	274		18.1	102	mg/Kg
Q2074-02	TP-7	SOIL	Thallium	0.70	J	0.23	2.03	mg/Kg
Q2074-02	TP-7	SOIL	Vanadium	11.4		0.25	2.03	mg/Kg
Q2074-02	TP-7	SOIL	Zinc	10.4		0.23	2.03	mg/Kg
Client ID : TP-15								
Q2074-03	TP-15	SOIL	Aluminum	5090		0.88	5.25	mg/Kg
Q2074-03	TP-15	SOIL	Arsenic	2.18		0.20	1.05	mg/Kg
Q2074-03	TP-15	SOIL	Barium	26.4		0.77	5.25	mg/Kg
Q2074-03	TP-15	SOIL	Beryllium	0.29	J	0.026	0.32	mg/Kg
Q2074-03	TP-15	SOIL	Cadmium	0.21	J	0.025	0.32	mg/Kg
Q2074-03	TP-15	SOIL	Calcium	314		11.7	105	mg/Kg
Q2074-03	TP-15	SOIL	Chromium	8.23		0.049	0.53	mg/Kg
Q2074-03	TP-15	SOIL	Cobalt	1.91		0.11	1.57	mg/Kg
Q2074-03	TP-15	SOIL	Copper	6.10		0.23	1.05	mg/Kg
Q2074-03	TP-15	SOIL	Iron	6820		4.19	5.25	mg/Kg
Q2074-03	TP-15	SOIL	Lead	18.0		0.14	0.63	mg/Kg
Q2074-03	TP-15	SOIL	Magnesium	326		12.6	105	mg/Kg
Q2074-03	TP-15	SOIL	Manganese	28.7		0.15	1.05	mg/Kg
Q2074-03	TP-15	SOIL	Mercury	0.057		0.0080	0.014	mg/Kg
Q2074-03	TP-15	SOIL	Nickel	4.10		0.14	2.10	mg/Kg
Q2074-03	TP-15	SOIL	Potassium	127		29.1	105	mg/Kg
Q2074-03	TP-15	SOIL	Sodium	300		18.7	105	mg/Kg
Q2074-03	TP-15	SOIL	Thallium	0.28	J	0.24	2.10	mg/Kg
Q2074-03	TP-15	SOIL	Vanadium	13.4		0.26	2.10	mg/Kg
Q2074-03	TP-15	SOIL	Zinc	31.9		0.24	2.10	mg/Kg
Client ID : TP-20								
Q2074-04	TP-20	SOIL	Aluminum	6620		0.89	5.30	mg/Kg
Q2074-04	TP-20	SOIL	Arsenic	2.51		0.20	1.06	mg/Kg
Q2074-04	TP-20	SOIL	Barium	21.3		0.77	5.30	mg/Kg
Q2074-04	TP-20	SOIL	Beryllium	0.25	J	0.026	0.32	mg/Kg
Q2074-04	TP-20	SOIL	Cadmium	0.096	J	0.025	0.32	mg/Kg
Q2074-04	TP-20	SOIL	Calcium	244		11.8	106	mg/Kg
Q2074-04	TP-20	SOIL	Chromium	9.72		0.050	0.53	mg/Kg
Q2074-04	TP-20	SOIL	Cobalt	2.38		0.11	1.59	mg/Kg
Q2074-04	TP-20	SOIL	Copper	3.83		0.23	1.06	mg/Kg
Q2074-04	TP-20	SOIL	Iron	7000		4.23	5.30	mg/Kg
Q2074-04	TP-20	SOIL	Lead	6.24		0.14	0.64	mg/Kg
Q2074-04	TP-20	SOIL	Magnesium	592		12.7	106	mg/Kg
Q2074-04	TP-20	SOIL	Manganese	21.1		0.15	1.06	mg/Kg

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SDG No.: Q2074

Order ID: Q2074

Client: CDM Smith

Project ID: South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2074-04	TP-20	SOIL	Mercury	0.033		0.0080	0.014	mg/Kg
Q2074-04	TP-20	SOIL	Nickel	4.21		0.14	2.12	mg/Kg
Q2074-04	TP-20	SOIL	Potassium	184		29.3	106	mg/Kg
Q2074-04	TP-20	SOIL	Sodium	532		18.9	106	mg/Kg
Q2074-04	TP-20	SOIL	Vanadium	18.5		0.27	2.12	mg/Kg
Q2074-04	TP-20	SOIL	Zinc	9.82		0.24	2.12	mg/Kg
Client ID : TP-38								
Q2074-05	TP-38	SOIL	Aluminum	663		0.94	5.58	mg/Kg
Q2074-05	TP-38	SOIL	Arsenic	1.77		0.21	1.12	mg/Kg
Q2074-05	TP-38	SOIL	Barium	16.4		0.81	5.58	mg/Kg
Q2074-05	TP-38	SOIL	Beryllium	0.12	J	0.028	0.34	mg/Kg
Q2074-05	TP-38	SOIL	Calcium	42.3	J	12.4	112	mg/Kg
Q2074-05	TP-38	SOIL	Chromium	2.72		0.052	0.56	mg/Kg
Q2074-05	TP-38	SOIL	Cobalt	0.48	J	0.11	1.67	mg/Kg
Q2074-05	TP-38	SOIL	Copper	4.60		0.25	1.12	mg/Kg
Q2074-05	TP-38	SOIL	Iron	5030		4.45	5.58	mg/Kg
Q2074-05	TP-38	SOIL	Lead	1.44		0.14	0.67	mg/Kg
Q2074-05	TP-38	SOIL	Magnesium	28.9	J	13.4	112	mg/Kg
Q2074-05	TP-38	SOIL	Manganese	6.24		0.16	1.12	mg/Kg
Q2074-05	TP-38	SOIL	Nickel	0.43	J	0.14	2.23	mg/Kg
Q2074-05	TP-38	SOIL	Potassium	35.2	J	30.9	112	mg/Kg
Q2074-05	TP-38	SOIL	Sodium	35.7	J	19.8	112	mg/Kg
Q2074-05	TP-38	SOIL	Vanadium	6.23		0.28	2.23	mg/Kg
Q2074-05	TP-38	SOIL	Zinc	2.74		0.26	2.23	mg/Kg
Client ID : TP-19								
Q2074-06	TP-19	SOIL	Aluminum	2270		0.82	4.89	mg/Kg
Q2074-06	TP-19	SOIL	Arsenic	4.36		0.19	0.98	mg/Kg
Q2074-06	TP-19	SOIL	Barium	7.17		0.71	4.89	mg/Kg
Q2074-06	TP-19	SOIL	Beryllium	0.53		0.024	0.29	mg/Kg
Q2074-06	TP-19	SOIL	Cadmium	0.46		0.023	0.29	mg/Kg
Q2074-06	TP-19	SOIL	Calcium	160		10.9	97.8	mg/Kg
Q2074-06	TP-19	SOIL	Chromium	13.5		0.046	0.49	mg/Kg
Q2074-06	TP-19	SOIL	Cobalt	1.95		0.098	1.47	mg/Kg
Q2074-06	TP-19	SOIL	Copper	9.89		0.22	0.98	mg/Kg
Q2074-06	TP-19	SOIL	Iron	25100		3.90	4.89	mg/Kg
Q2074-06	TP-19	SOIL	Lead	10.5		0.13	0.59	mg/Kg
Q2074-06	TP-19	SOIL	Magnesium	102		11.7	97.8	mg/Kg
Q2074-06	TP-19	SOIL	Manganese	43.6		0.14	0.98	mg/Kg
Q2074-06	TP-19	SOIL	Mercury	0.051		0.0090	0.015	mg/Kg

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SDG No.: Q2074 **Order ID:** Q2074
Client: CDM Smith **Project ID:** South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2074-06	TP-19	SOIL	Nickel	2.42		0.13	1.96	mg/Kg
Q2074-06	TP-19	SOIL	Potassium	143		27.1	97.8	mg/Kg
Q2074-06	TP-19	SOIL	Sodium	54.2	J	17.4	97.8	mg/Kg
Q2074-06	TP-19	SOIL	Thallium	1.96		0.23	1.96	mg/Kg
Q2074-06	TP-19	SOIL	Vanadium	20.4		0.25	1.96	mg/Kg
Q2074-06	TP-19	SOIL	Zinc	35.3		0.23	1.96	mg/Kg
Client ID : TP-40								
Q2074-07	TP-40	SOIL	Aluminum	2050		0.88	5.21	mg/Kg
Q2074-07	TP-40	SOIL	Arsenic	2.26		0.20	1.04	mg/Kg
Q2074-07	TP-40	SOIL	Barium	15.9		0.76	5.21	mg/Kg
Q2074-07	TP-40	SOIL	Beryllium	0.18	J	0.026	0.31	mg/Kg
Q2074-07	TP-40	SOIL	Cadmium	0.065	J	0.025	0.31	mg/Kg
Q2074-07	TP-40	SOIL	Calcium	636		11.6	104	mg/Kg
Q2074-07	TP-40	SOIL	Chromium	7.76		0.049	0.52	mg/Kg
Q2074-07	TP-40	SOIL	Cobalt	0.65	J	0.10	1.56	mg/Kg
Q2074-07	TP-40	SOIL	Copper	9.10		0.23	1.04	mg/Kg
Q2074-07	TP-40	SOIL	Iron	7070		4.16	5.21	mg/Kg
Q2074-07	TP-40	SOIL	Lead	13.3		0.14	0.63	mg/Kg
Q2074-07	TP-40	SOIL	Magnesium	136		12.5	104	mg/Kg
Q2074-07	TP-40	SOIL	Manganese	11.9		0.15	1.04	mg/Kg
Q2074-07	TP-40	SOIL	Mercury	0.027		0.0070	0.013	mg/Kg
Q2074-07	TP-40	SOIL	Nickel	1.09	J	0.14	2.09	mg/Kg
Q2074-07	TP-40	SOIL	Potassium	180		28.9	104	mg/Kg
Q2074-07	TP-40	SOIL	Sodium	514		18.6	104	mg/Kg
Q2074-07	TP-40	SOIL	Thallium	0.36	J	0.24	2.09	mg/Kg
Q2074-07	TP-40	SOIL	Vanadium	13.8		0.26	2.09	mg/Kg
Q2074-07	TP-40	SOIL	Zinc	22.0		0.24	2.09	mg/Kg
Client ID : TP-18								
Q2074-08	TP-18	SOIL	Aluminum	4710		1.03	6.13	mg/Kg
Q2074-08	TP-18	SOIL	Arsenic	6.54		0.23	1.23	mg/Kg
Q2074-08	TP-18	SOIL	Barium	18.5		0.90	6.13	mg/Kg
Q2074-08	TP-18	SOIL	Beryllium	0.70		0.031	0.37	mg/Kg
Q2074-08	TP-18	SOIL	Cadmium	0.26	J	0.029	0.37	mg/Kg
Q2074-08	TP-18	SOIL	Calcium	447		13.6	123	mg/Kg
Q2074-08	TP-18	SOIL	Chromium	18.2		0.058	0.61	mg/Kg
Q2074-08	TP-18	SOIL	Cobalt	2.74		0.12	1.84	mg/Kg
Q2074-08	TP-18	SOIL	Copper	14.2		0.27	1.23	mg/Kg
Q2074-08	TP-18	SOIL	Iron	36100		4.90	6.13	mg/Kg
Q2074-08	TP-18	SOIL	Lead	31.8		0.16	0.74	mg/Kg

Hit Summary Sheet
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SDG No.:	Q2074	Order ID:	Q2074
Client:	CDM Smith	Project ID:	South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2074-08	TP-18	SOIL	Magnesium	112	J	14.7	123	mg/Kg
Q2074-08	TP-18	SOIL	Manganese	24.7		0.17	1.23	mg/Kg
Q2074-08	TP-18	SOIL	Mercury	0.030		0.0090	0.017	mg/Kg
Q2074-08	TP-18	SOIL	Nickel	3.24		0.16	2.45	mg/Kg
Q2074-08	TP-18	SOIL	Potassium	218		34.0	123	mg/Kg
Q2074-08	TP-18	SOIL	Sodium	141		21.8	123	mg/Kg
Q2074-08	TP-18	SOIL	Thallium	2.76		0.28	2.45	mg/Kg
Q2074-08	TP-18	SOIL	Vanadium	32.9		0.31	2.45	mg/Kg
Q2074-08	TP-18	SOIL	Zinc	24.3		0.28	2.45	mg/Kg



SAMPLE DATA

Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-12	SDG No.:	Q2074
Lab Sample ID:	Q2074-01	Matrix:	SOIL
Level (low/med):	low	% Solid:	83.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	4290		1	0.85	5.05	mg/Kg	05/20/25 12:15	05/21/25 19:36	6010D	SW3050
7440-36-0	Antimony	0.22	UN	1	0.22	2.53	mg/Kg	05/20/25 12:15	05/21/25 19:36	6010D	SW3050
7440-38-2	Arsenic	2.11	*	1	0.19	1.01	mg/Kg	05/20/25 12:15	05/21/25 19:36	6010D	SW3050
7440-39-3	Barium	34.1		1	0.74	5.05	mg/Kg	05/20/25 12:15	05/21/25 19:36	6010D	SW3050
7440-41-7	Beryllium	0.46		1	0.025	0.30	mg/Kg	05/20/25 12:15	05/21/25 19:36	6010D	SW3050
7440-43-9	Cadmium	0.25	J	1	0.024	0.30	mg/Kg	05/20/25 12:15	05/21/25 19:36	6010D	SW3050
7440-70-2	Calcium	77.5	J	1	11.2	101	mg/Kg	05/20/25 12:15	05/21/25 19:36	6010D	SW3050
7440-47-3	Chromium	9.76	*	1	0.047	0.51	mg/Kg	05/20/25 12:15	05/21/25 19:36	6010D	SW3050
7440-48-4	Cobalt	2.92		1	0.10	1.52	mg/Kg	05/20/25 12:15	05/21/25 19:36	6010D	SW3050
7440-50-8	Copper	6.97		1	0.22	1.01	mg/Kg	05/20/25 12:15	05/21/25 19:36	6010D	SW3050
7439-89-6	Iron	9360	*	1	4.03	5.05	mg/Kg	05/20/25 12:15	05/21/25 19:36	6010D	SW3050
7439-92-1	Lead	10.0		1	0.13	0.61	mg/Kg	05/20/25 12:15	05/21/25 19:36	6010D	SW3050
7439-95-4	Magnesium	647		1	12.1	101	mg/Kg	05/20/25 12:15	05/21/25 19:36	6010D	SW3050
7439-96-5	Manganese	26.4		1	0.14	1.01	mg/Kg	05/20/25 12:15	05/21/25 19:36	6010D	SW3050
7439-97-6	Mercury	0.014	J	1	0.0080	0.015	mg/Kg	05/19/25 13:50	05/20/25 14:17	7471B	
7440-02-0	Nickel	5.28		1	0.13	2.02	mg/Kg	05/20/25 12:15	05/21/25 19:36	6010D	SW3050
7440-09-7	Potassium	187	N	1	28.0	101	mg/Kg	05/20/25 12:15	05/21/25 19:36	6010D	SW3050
7782-49-2	Selenium	0.26	U	1	0.26	1.01	mg/Kg	05/20/25 12:15	05/21/25 19:36	6010D	SW3050
7440-22-4	Silver	0.12	U	1	0.12	0.51	mg/Kg	05/20/25 12:15	05/21/25 19:36	6010D	SW3050
7440-23-5	Sodium	107		1	18.0	101	mg/Kg	05/20/25 12:15	05/21/25 19:36	6010D	SW3050
7440-28-0	Thallium	0.41	J	1	0.23	2.02	mg/Kg	05/20/25 12:15	05/21/25 19:36	6010D	SW3050
7440-62-2	Vanadium	16.6	*	1	0.25	2.02	mg/Kg	05/20/25 12:15	05/21/25 19:36	6010D	SW3050
7440-66-6	Zinc	17.4		1	0.23	2.02	mg/Kg	05/20/25 12:15	05/21/25 19:36	6010D	SW3050

Color Before:	Brown	Clarity Before:	Texture:	Medium
Color After:	Yellow	Clarity After:	Artifacts:	
Comments:	METALS-TAL			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-7	SDG No.:	Q2074
Lab Sample ID:	Q2074-02	Matrix:	SOIL
Level (low/med):	low	% Solid:	88.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	6120		1	0.85	5.08	mg/Kg	05/20/25 12:15	05/21/25 19:41	6010D	SW3050
7440-36-0	Antimony	0.22	UN	1	0.22	2.54	mg/Kg	05/20/25 12:15	05/21/25 19:41	6010D	SW3050
7440-38-2	Arsenic	2.20	*	1	0.19	1.02	mg/Kg	05/20/25 12:15	05/21/25 19:41	6010D	SW3050
7440-39-3	Barium	16.5		1	0.74	5.08	mg/Kg	05/20/25 12:15	05/21/25 19:41	6010D	SW3050
7440-41-7	Beryllium	0.45		1	0.025	0.31	mg/Kg	05/20/25 12:15	05/21/25 19:41	6010D	SW3050
7440-43-9	Cadmium	0.35		1	0.024	0.31	mg/Kg	05/20/25 12:15	05/21/25 19:41	6010D	SW3050
7440-70-2	Calcium	190		1	11.3	102	mg/Kg	05/20/25 12:15	05/21/25 19:41	6010D	SW3050
7440-47-3	Chromium	8.71	*	1	0.048	0.51	mg/Kg	05/20/25 12:15	05/21/25 19:41	6010D	SW3050
7440-48-4	Cobalt	4.61		1	0.10	1.52	mg/Kg	05/20/25 12:15	05/21/25 19:41	6010D	SW3050
7440-50-8	Copper	3.87		1	0.22	1.02	mg/Kg	05/20/25 12:15	05/21/25 19:41	6010D	SW3050
7439-89-6	Iron	12100	*	1	4.05	5.08	mg/Kg	05/20/25 12:15	05/21/25 19:41	6010D	SW3050
7439-92-1	Lead	3.49		1	0.13	0.61	mg/Kg	05/20/25 12:15	05/21/25 19:41	6010D	SW3050
7439-95-4	Magnesium	226		1	12.2	102	mg/Kg	05/20/25 12:15	05/21/25 19:41	6010D	SW3050
7439-96-5	Manganese	38.7		1	0.14	1.02	mg/Kg	05/20/25 12:15	05/21/25 19:41	6010D	SW3050
7439-97-6	Mercury	0.011	J	1	0.0090	0.015	mg/Kg	05/19/25 13:50	05/20/25 14:20	7471B	
7440-02-0	Nickel	4.00		1	0.13	2.03	mg/Kg	05/20/25 12:15	05/21/25 19:41	6010D	SW3050
7440-09-7	Potassium	144	N	1	28.1	102	mg/Kg	05/20/25 12:15	05/21/25 19:41	6010D	SW3050
7782-49-2	Selenium	0.26	U	1	0.26	1.02	mg/Kg	05/20/25 12:15	05/21/25 19:41	6010D	SW3050
7440-22-4	Silver	0.12	U	1	0.12	0.51	mg/Kg	05/20/25 12:15	05/21/25 19:41	6010D	SW3050
7440-23-5	Sodium	274		1	18.1	102	mg/Kg	05/20/25 12:15	05/21/25 19:41	6010D	SW3050
7440-28-0	Thallium	0.70	J	1	0.23	2.03	mg/Kg	05/20/25 12:15	05/21/25 19:41	6010D	SW3050
7440-62-2	Vanadium	11.4	*	1	0.25	2.03	mg/Kg	05/20/25 12:15	05/21/25 19:41	6010D	SW3050
7440-66-6	Zinc	10.4		1	0.23	2.03	mg/Kg	05/20/25 12:15	05/21/25 19:41	6010D	SW3050

Color Before:	Brown	Clarity Before:	Texture:	Medium
Color After:	Yellow	Clarity After:	Artifacts:	
Comments:	METALS-TAL			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-15	SDG No.:	Q2074
Lab Sample ID:	Q2074-03	Matrix:	SOIL
Level (low/med):	low	% Solid:	87

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	5090		1	0.88	5.25	mg/Kg	05/20/25 12:15	05/21/25 19:45	6010D	SW3050
7440-36-0	Antimony	0.23	UN	1	0.23	2.62	mg/Kg	05/20/25 12:15	05/21/25 19:45	6010D	SW3050
7440-38-2	Arsenic	2.18	*	1	0.20	1.05	mg/Kg	05/20/25 12:15	05/21/25 19:45	6010D	SW3050
7440-39-3	Barium	26.4		1	0.77	5.25	mg/Kg	05/20/25 12:15	05/21/25 19:45	6010D	SW3050
7440-41-7	Beryllium	0.29	J	1	0.026	0.32	mg/Kg	05/20/25 12:15	05/21/25 19:45	6010D	SW3050
7440-43-9	Cadmium	0.21	J	1	0.025	0.32	mg/Kg	05/20/25 12:15	05/21/25 19:45	6010D	SW3050
7440-70-2	Calcium	314		1	11.7	105	mg/Kg	05/20/25 12:15	05/21/25 19:45	6010D	SW3050
7440-47-3	Chromium	8.23	*	1	0.049	0.53	mg/Kg	05/20/25 12:15	05/21/25 19:45	6010D	SW3050
7440-48-4	Cobalt	1.91		1	0.11	1.57	mg/Kg	05/20/25 12:15	05/21/25 19:45	6010D	SW3050
7440-50-8	Copper	6.10		1	0.23	1.05	mg/Kg	05/20/25 12:15	05/21/25 19:45	6010D	SW3050
7439-89-6	Iron	6820	*	1	4.19	5.25	mg/Kg	05/20/25 12:15	05/21/25 19:45	6010D	SW3050
7439-92-1	Lead	18.0		1	0.14	0.63	mg/Kg	05/20/25 12:15	05/21/25 19:45	6010D	SW3050
7439-95-4	Magnesium	326		1	12.6	105	mg/Kg	05/20/25 12:15	05/21/25 19:45	6010D	SW3050
7439-96-5	Manganese	28.7		1	0.15	1.05	mg/Kg	05/20/25 12:15	05/21/25 19:45	6010D	SW3050
7439-97-6	Mercury	0.057		1	0.0080	0.014	mg/Kg	05/19/25 13:50	05/20/25 14:22	7471B	
7440-02-0	Nickel	4.10		1	0.14	2.10	mg/Kg	05/20/25 12:15	05/21/25 19:45	6010D	SW3050
7440-09-7	Potassium	127	N	1	29.1	105	mg/Kg	05/20/25 12:15	05/21/25 19:45	6010D	SW3050
7782-49-2	Selenium	0.27	U	1	0.27	1.05	mg/Kg	05/20/25 12:15	05/21/25 19:45	6010D	SW3050
7440-22-4	Silver	0.13	U	1	0.13	0.53	mg/Kg	05/20/25 12:15	05/21/25 19:45	6010D	SW3050
7440-23-5	Sodium	300		1	18.7	105	mg/Kg	05/20/25 12:15	05/21/25 19:45	6010D	SW3050
7440-28-0	Thallium	0.28	J	1	0.24	2.10	mg/Kg	05/20/25 12:15	05/21/25 19:45	6010D	SW3050
7440-62-2	Vanadium	13.4	*	1	0.26	2.10	mg/Kg	05/20/25 12:15	05/21/25 19:45	6010D	SW3050
7440-66-6	Zinc	31.9		1	0.24	2.10	mg/Kg	05/20/25 12:15	05/21/25 19:45	6010D	SW3050

Color Before:	Brown	Clarity Before:	Texture:	Medium
Color After:	Yellow	Clarity After:	Artifacts:	
Comments:	METALS-TAL			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-20	SDG No.:	Q2074
Lab Sample ID:	Q2074-04	Matrix:	SOIL
Level (low/med):	low	% Solid:	84.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	6620		1	0.89	5.30	mg/Kg	05/20/25 12:15	05/21/25 19:49	6010D	SW3050
7440-36-0	Antimony	0.23	UN	1	0.23	2.65	mg/Kg	05/20/25 12:15	05/21/25 19:49	6010D	SW3050
7440-38-2	Arsenic	2.51	*	1	0.20	1.06	mg/Kg	05/20/25 12:15	05/21/25 19:49	6010D	SW3050
7440-39-3	Barium	21.3		1	0.77	5.30	mg/Kg	05/20/25 12:15	05/21/25 19:49	6010D	SW3050
7440-41-7	Beryllium	0.25	J	1	0.026	0.32	mg/Kg	05/20/25 12:15	05/21/25 19:49	6010D	SW3050
7440-43-9	Cadmium	0.096	J	1	0.025	0.32	mg/Kg	05/20/25 12:15	05/21/25 19:49	6010D	SW3050
7440-70-2	Calcium	244		1	11.8	106	mg/Kg	05/20/25 12:15	05/21/25 19:49	6010D	SW3050
7440-47-3	Chromium	9.72	*	1	0.050	0.53	mg/Kg	05/20/25 12:15	05/21/25 19:49	6010D	SW3050
7440-48-4	Cobalt	2.38		1	0.11	1.59	mg/Kg	05/20/25 12:15	05/21/25 19:49	6010D	SW3050
7440-50-8	Copper	3.83		1	0.23	1.06	mg/Kg	05/20/25 12:15	05/21/25 19:49	6010D	SW3050
7439-89-6	Iron	7000	*	1	4.23	5.30	mg/Kg	05/20/25 12:15	05/21/25 19:49	6010D	SW3050
7439-92-1	Lead	6.24		1	0.14	0.64	mg/Kg	05/20/25 12:15	05/21/25 19:49	6010D	SW3050
7439-95-4	Magnesium	592		1	12.7	106	mg/Kg	05/20/25 12:15	05/21/25 19:49	6010D	SW3050
7439-96-5	Manganese	21.1		1	0.15	1.06	mg/Kg	05/20/25 12:15	05/21/25 19:49	6010D	SW3050
7439-97-6	Mercury	0.033		1	0.0080	0.014	mg/Kg	05/19/25 13:50	05/20/25 14:24	7471B	
7440-02-0	Nickel	4.21		1	0.14	2.12	mg/Kg	05/20/25 12:15	05/21/25 19:49	6010D	SW3050
7440-09-7	Potassium	184	N	1	29.3	106	mg/Kg	05/20/25 12:15	05/21/25 19:49	6010D	SW3050
7782-49-2	Selenium	0.28	U	1	0.28	1.06	mg/Kg	05/20/25 12:15	05/21/25 19:49	6010D	SW3050
7440-22-4	Silver	0.13	U	1	0.13	0.53	mg/Kg	05/20/25 12:15	05/21/25 19:49	6010D	SW3050
7440-23-5	Sodium	532		1	18.9	106	mg/Kg	05/20/25 12:15	05/21/25 19:49	6010D	SW3050
7440-28-0	Thallium	0.24	U	1	0.24	2.12	mg/Kg	05/20/25 12:15	05/21/25 19:49	6010D	SW3050
7440-62-2	Vanadium	18.5	*	1	0.27	2.12	mg/Kg	05/20/25 12:15	05/21/25 19:49	6010D	SW3050
7440-66-6	Zinc	9.82		1	0.24	2.12	mg/Kg	05/20/25 12:15	05/21/25 19:49	6010D	SW3050

Color Before:	Brown	Clarity Before:	Texture:	Medium
Color After:	Yellow	Clarity After:	Artifacts:	
Comments:	METALS-TAL			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-38	SDG No.:	Q2074
Lab Sample ID:	Q2074-05	Matrix:	SOIL
Level (low/med):	low	% Solid:	81.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	663		1	0.94	5.58	mg/Kg	05/20/25 12:15	05/21/25 19:53	6010D	SW3050
7440-36-0	Antimony	0.25	UN	1	0.25	2.79	mg/Kg	05/20/25 12:15	05/21/25 19:53	6010D	SW3050
7440-38-2	Arsenic	1.77	*	1	0.21	1.12	mg/Kg	05/20/25 12:15	05/21/25 19:53	6010D	SW3050
7440-39-3	Barium	16.4		1	0.81	5.58	mg/Kg	05/20/25 12:15	05/21/25 19:53	6010D	SW3050
7440-41-7	Beryllium	0.12	J	1	0.028	0.34	mg/Kg	05/20/25 12:15	05/21/25 19:53	6010D	SW3050
7440-43-9	Cadmium	0.027	U	1	0.027	0.34	mg/Kg	05/20/25 12:15	05/21/25 19:53	6010D	SW3050
7440-70-2	Calcium	42.3	J	1	12.4	112	mg/Kg	05/20/25 12:15	05/21/25 19:53	6010D	SW3050
7440-47-3	Chromium	2.72	*	1	0.052	0.56	mg/Kg	05/20/25 12:15	05/21/25 19:53	6010D	SW3050
7440-48-4	Cobalt	0.48	J	1	0.11	1.67	mg/Kg	05/20/25 12:15	05/21/25 19:53	6010D	SW3050
7440-50-8	Copper	4.60		1	0.25	1.12	mg/Kg	05/20/25 12:15	05/21/25 19:53	6010D	SW3050
7439-89-6	Iron	5030	*	1	4.45	5.58	mg/Kg	05/20/25 12:15	05/21/25 19:53	6010D	SW3050
7439-92-1	Lead	1.44		1	0.14	0.67	mg/Kg	05/20/25 12:15	05/21/25 19:53	6010D	SW3050
7439-95-4	Magnesium	28.9	J	1	13.4	112	mg/Kg	05/20/25 12:15	05/21/25 19:53	6010D	SW3050
7439-96-5	Manganese	6.24		1	0.16	1.12	mg/Kg	05/20/25 12:15	05/21/25 19:53	6010D	SW3050
7439-97-6	Mercury	0.0090	U	1	0.0090	0.017	mg/Kg	05/19/25 13:50	05/20/25 14:27	7471B	
7440-02-0	Nickel	0.43	J	1	0.14	2.23	mg/Kg	05/20/25 12:15	05/21/25 19:53	6010D	SW3050
7440-09-7	Potassium	35.2	JN	1	30.9	112	mg/Kg	05/20/25 12:15	05/21/25 19:53	6010D	SW3050
7782-49-2	Selenium	0.29	U	1	0.29	1.12	mg/Kg	05/20/25 12:15	05/21/25 19:53	6010D	SW3050
7440-22-4	Silver	0.13	U	1	0.13	0.56	mg/Kg	05/20/25 12:15	05/21/25 19:53	6010D	SW3050
7440-23-5	Sodium	35.7	J	1	19.8	112	mg/Kg	05/20/25 12:15	05/21/25 19:53	6010D	SW3050
7440-28-0	Thallium	0.26	U	1	0.26	2.23	mg/Kg	05/20/25 12:15	05/21/25 19:53	6010D	SW3050
7440-62-2	Vanadium	6.23	*	1	0.28	2.23	mg/Kg	05/20/25 12:15	05/21/25 19:53	6010D	SW3050
7440-66-6	Zinc	2.74		1	0.26	2.23	mg/Kg	05/20/25 12:15	05/21/25 19:53	6010D	SW3050

Color Before:	Brown	Clarity Before:	Texture:	Medium
Color After:	Yellow	Clarity After:	Artifacts:	
Comments:	METALS-TAL			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-19	SDG No.:	Q2074
Lab Sample ID:	Q2074-06	Matrix:	SOIL
Level (low/med):	low	% Solid:	85.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	2270		1	0.82	4.89	mg/Kg	05/20/25 12:15	05/21/25 20:06	6010D	SW3050
7440-36-0	Antimony	0.22	UN	1	0.22	2.45	mg/Kg	05/20/25 12:15	05/21/25 20:06	6010D	SW3050
7440-38-2	Arsenic	4.36	*	1	0.19	0.98	mg/Kg	05/20/25 12:15	05/21/25 20:06	6010D	SW3050
7440-39-3	Barium	7.17		1	0.71	4.89	mg/Kg	05/20/25 12:15	05/21/25 20:06	6010D	SW3050
7440-41-7	Beryllium	0.53		1	0.024	0.29	mg/Kg	05/20/25 12:15	05/21/25 20:06	6010D	SW3050
7440-43-9	Cadmium	0.46		1	0.023	0.29	mg/Kg	05/20/25 12:15	05/21/25 20:06	6010D	SW3050
7440-70-2	Calcium	160		1	10.9	97.8	mg/Kg	05/20/25 12:15	05/21/25 20:06	6010D	SW3050
7440-47-3	Chromium	13.5	*	1	0.046	0.49	mg/Kg	05/20/25 12:15	05/21/25 20:06	6010D	SW3050
7440-48-4	Cobalt	1.95		1	0.098	1.47	mg/Kg	05/20/25 12:15	05/21/25 20:06	6010D	SW3050
7440-50-8	Copper	9.89		1	0.22	0.98	mg/Kg	05/20/25 12:15	05/21/25 20:06	6010D	SW3050
7439-89-6	Iron	25100	*	1	3.90	4.89	mg/Kg	05/20/25 12:15	05/21/25 20:06	6010D	SW3050
7439-92-1	Lead	10.5		1	0.13	0.59	mg/Kg	05/20/25 12:15	05/21/25 20:06	6010D	SW3050
7439-95-4	Magnesium	102		1	11.7	97.8	mg/Kg	05/20/25 12:15	05/21/25 20:06	6010D	SW3050
7439-96-5	Manganese	43.6		1	0.14	0.98	mg/Kg	05/20/25 12:15	05/21/25 20:06	6010D	SW3050
7439-97-6	Mercury	0.051		1	0.0090	0.015	mg/Kg	05/19/25 13:50	05/20/25 14:33	7471B	
7440-02-0	Nickel	2.42		1	0.13	1.96	mg/Kg	05/20/25 12:15	05/21/25 20:06	6010D	SW3050
7440-09-7	Potassium	143	N	1	27.1	97.8	mg/Kg	05/20/25 12:15	05/21/25 20:06	6010D	SW3050
7782-49-2	Selenium	0.25	U	1	0.25	0.98	mg/Kg	05/20/25 12:15	05/21/25 20:06	6010D	SW3050
7440-22-4	Silver	0.12	U	1	0.12	0.49	mg/Kg	05/20/25 12:15	05/21/25 20:06	6010D	SW3050
7440-23-5	Sodium	54.2	J	1	17.4	97.8	mg/Kg	05/20/25 12:15	05/21/25 20:06	6010D	SW3050
7440-28-0	Thallium	1.96		1	0.23	1.96	mg/Kg	05/20/25 12:15	05/21/25 20:06	6010D	SW3050
7440-62-2	Vanadium	20.4	*	1	0.25	1.96	mg/Kg	05/20/25 12:15	05/21/25 20:06	6010D	SW3050
7440-66-6	Zinc	35.3		1	0.23	1.96	mg/Kg	05/20/25 12:15	05/21/25 20:06	6010D	SW3050

Color Before:	Brown	Clarity Before:	Texture:	Medium
Color After:	Yellow	Clarity After:	Artifacts:	
Comments:	METALS-TAL			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N = Spiked sample recovery not within control limits

Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-40	SDG No.:	Q2074
Lab Sample ID:	Q2074-07	Matrix:	SOIL
Level (low/med):	low	% Solid:	89.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	2050		1	0.88	5.21	mg/Kg	05/20/25 12:15	05/21/25 20:10	6010D	SW3050
7440-36-0	Antimony	0.23	UN	1	0.23	2.61	mg/Kg	05/20/25 12:15	05/21/25 20:10	6010D	SW3050
7440-38-2	Arsenic	2.26	*	1	0.20	1.04	mg/Kg	05/20/25 12:15	05/21/25 20:10	6010D	SW3050
7440-39-3	Barium	15.9		1	0.76	5.21	mg/Kg	05/20/25 12:15	05/21/25 20:10	6010D	SW3050
7440-41-7	Beryllium	0.18	J	1	0.026	0.31	mg/Kg	05/20/25 12:15	05/21/25 20:10	6010D	SW3050
7440-43-9	Cadmium	0.065	J	1	0.025	0.31	mg/Kg	05/20/25 12:15	05/21/25 20:10	6010D	SW3050
7440-70-2	Calcium	636		1	11.6	104	mg/Kg	05/20/25 12:15	05/21/25 20:10	6010D	SW3050
7440-47-3	Chromium	7.76	*	1	0.049	0.52	mg/Kg	05/20/25 12:15	05/21/25 20:10	6010D	SW3050
7440-48-4	Cobalt	0.65	J	1	0.10	1.56	mg/Kg	05/20/25 12:15	05/21/25 20:10	6010D	SW3050
7440-50-8	Copper	9.10		1	0.23	1.04	mg/Kg	05/20/25 12:15	05/21/25 20:10	6010D	SW3050
7439-89-6	Iron	7070	*	1	4.16	5.21	mg/Kg	05/20/25 12:15	05/21/25 20:10	6010D	SW3050
7439-92-1	Lead	13.3		1	0.14	0.63	mg/Kg	05/20/25 12:15	05/21/25 20:10	6010D	SW3050
7439-95-4	Magnesium	136		1	12.5	104	mg/Kg	05/20/25 12:15	05/21/25 20:10	6010D	SW3050
7439-96-5	Manganese	11.9		1	0.15	1.04	mg/Kg	05/20/25 12:15	05/21/25 20:10	6010D	SW3050
7439-97-6	Mercury	0.027		1	0.0070	0.013	mg/Kg	05/19/25 13:50	05/20/25 14:36	7471B	
7440-02-0	Nickel	1.09	J	1	0.14	2.09	mg/Kg	05/20/25 12:15	05/21/25 20:10	6010D	SW3050
7440-09-7	Potassium	180	N	1	28.9	104	mg/Kg	05/20/25 12:15	05/21/25 20:10	6010D	SW3050
7782-49-2	Selenium	0.27	U	1	0.27	1.04	mg/Kg	05/20/25 12:15	05/21/25 20:10	6010D	SW3050
7440-22-4	Silver	0.13	U	1	0.13	0.52	mg/Kg	05/20/25 12:15	05/21/25 20:10	6010D	SW3050
7440-23-5	Sodium	514		1	18.6	104	mg/Kg	05/20/25 12:15	05/21/25 20:10	6010D	SW3050
7440-28-0	Thallium	0.36	J	1	0.24	2.09	mg/Kg	05/20/25 12:15	05/21/25 20:10	6010D	SW3050
7440-62-2	Vanadium	13.8	*	1	0.26	2.09	mg/Kg	05/20/25 12:15	05/21/25 20:10	6010D	SW3050
7440-66-6	Zinc	22.0		1	0.24	2.09	mg/Kg	05/20/25 12:15	05/21/25 20:10	6010D	SW3050

Color Before:	Brown	Clarity Before:	Texture:	Medium
Color After:	Yellow	Clarity After:	Artifacts:	
Comments:	METALS-TAL			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	CDM Smith	Date Collected:	05/16/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-18	SDG No.:	Q2074
Lab Sample ID:	Q2074-08	Matrix:	SOIL
Level (low/med):	low	% Solid:	78

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	4710		1	1.03	6.13	mg/Kg	05/20/25 12:15	05/21/25 20:14	6010D	SW3050
7440-36-0	Antimony	0.27	UN	1	0.27	3.07	mg/Kg	05/20/25 12:15	05/21/25 20:14	6010D	SW3050
7440-38-2	Arsenic	6.54	*	1	0.23	1.23	mg/Kg	05/20/25 12:15	05/21/25 20:14	6010D	SW3050
7440-39-3	Barium	18.5		1	0.90	6.13	mg/Kg	05/20/25 12:15	05/21/25 20:14	6010D	SW3050
7440-41-7	Beryllium	0.70		1	0.031	0.37	mg/Kg	05/20/25 12:15	05/21/25 20:14	6010D	SW3050
7440-43-9	Cadmium	0.26	J	1	0.029	0.37	mg/Kg	05/20/25 12:15	05/21/25 20:14	6010D	SW3050
7440-70-2	Calcium	447		1	13.6	123	mg/Kg	05/20/25 12:15	05/21/25 20:14	6010D	SW3050
7440-47-3	Chromium	18.2	*	1	0.058	0.61	mg/Kg	05/20/25 12:15	05/21/25 20:14	6010D	SW3050
7440-48-4	Cobalt	2.74		1	0.12	1.84	mg/Kg	05/20/25 12:15	05/21/25 20:14	6010D	SW3050
7440-50-8	Copper	14.2		1	0.27	1.23	mg/Kg	05/20/25 12:15	05/21/25 20:14	6010D	SW3050
7439-89-6	Iron	36100	*	1	4.90	6.13	mg/Kg	05/20/25 12:15	05/21/25 20:14	6010D	SW3050
7439-92-1	Lead	31.8		1	0.16	0.74	mg/Kg	05/20/25 12:15	05/21/25 20:14	6010D	SW3050
7439-95-4	Magnesium	112	J	1	14.7	123	mg/Kg	05/20/25 12:15	05/21/25 20:14	6010D	SW3050
7439-96-5	Manganese	24.7		1	0.17	1.23	mg/Kg	05/20/25 12:15	05/21/25 20:14	6010D	SW3050
7439-97-6	Mercury	0.030		1	0.0090	0.017	mg/Kg	05/19/25 13:50	05/20/25 14:38	7471B	
7440-02-0	Nickel	3.24		1	0.16	2.45	mg/Kg	05/20/25 12:15	05/21/25 20:14	6010D	SW3050
7440-09-7	Potassium	218	N	1	34.0	123	mg/Kg	05/20/25 12:15	05/21/25 20:14	6010D	SW3050
7782-49-2	Selenium	0.32	U	1	0.32	1.23	mg/Kg	05/20/25 12:15	05/21/25 20:14	6010D	SW3050
7440-22-4	Silver	0.15	U	1	0.15	0.61	mg/Kg	05/20/25 12:15	05/21/25 20:14	6010D	SW3050
7440-23-5	Sodium	141		1	21.8	123	mg/Kg	05/20/25 12:15	05/21/25 20:14	6010D	SW3050
7440-28-0	Thallium	2.76		1	0.28	2.45	mg/Kg	05/20/25 12:15	05/21/25 20:14	6010D	SW3050
7440-62-2	Vanadium	32.9	*	1	0.31	2.45	mg/Kg	05/20/25 12:15	05/21/25 20:14	6010D	SW3050
7440-66-6	Zinc	24.3		1	0.28	2.45	mg/Kg	05/20/25 12:15	05/21/25 20:14	6010D	SW3050

Color Before:	Brown	Clarity Before:	Texture:	Medium
Color After:	Yellow	Clarity After:	Artifacts:	
Comments:	METALS-TAL			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client:	CDM Smith				SDG No.:	Q2074				
Contract:	CAMP02	Lab Code:	CHEM		Case No.:	Q2074		SAS No.:	Q2074	
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number	
ICB12	Mercury	0.20	+/-0.20	U	0.20	CV	05/20/2025	13:00	LB135837	

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith		SDG No.: Q2074							
Contract: CAMP02	Lab Code: CHEM	Case No.: Q2074	SAS No.: Q2074						
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB45	Mercury	0.20	+/-0.20	U	0.20	CV	05/20/2025	13:05	LB135837
CCB46	Mercury	0.20	+/-0.20	U	0.20	CV	05/20/2025	13:35	LB135837
CCB47	Mercury	0.20	+/-0.20	U	0.20	CV	05/20/2025	14:03	LB135837
CCB48	Mercury	0.20	+/-0.20	U	0.20	CV	05/20/2025	14:31	LB135837
CCB49	Mercury	0.20	+/-0.20	U	0.20	CV	05/20/2025	14:54	LB135837
CCB50	Mercury	0.20	+/-0.20	U	0.20	CV	05/20/2025	15:08	LB135837

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith		SDG No.: Q2074							
Contract: CAMP02	Lab Code: CHEM	Case No.: Q2074	SAS No.: Q2074						
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	100	+/-100	U	100	P	05/21/2025	13:36	LB135868
	Antimony	50.0	+/-50.0	U	50.0	P	05/21/2025	13:36	LB135868
	Arsenic	20.0	+/-20.0	U	20.0	P	05/21/2025	13:36	LB135868
	Barium	100	+/-100	U	100	P	05/21/2025	13:36	LB135868
	Beryllium	6.00	+/-6.00	U	6.00	P	05/21/2025	13:36	LB135868
	Cadmium	6.00	+/-6.00	U	6.00	P	05/21/2025	13:36	LB135868
	Calcium	2000	+/-2000	U	2000	P	05/21/2025	13:36	LB135868
	Chromium	10.0	+/-10.0	U	10.0	P	05/21/2025	13:36	LB135868
	Cobalt	30.0	+/-30.0	U	30.0	P	05/21/2025	13:36	LB135868
	Copper	20.0	+/-20.0	U	20.0	P	05/21/2025	13:36	LB135868
	Iron	26.9	+/-100	J	100	P	05/21/2025	13:36	LB135868
	Lead	12.0	+/-12.0	U	12.0	P	05/21/2025	13:36	LB135868
	Magnesium	2000	+/-2000	U	2000	P	05/21/2025	13:36	LB135868
	Manganese	20.0	+/-20.0	U	20.0	P	05/21/2025	13:36	LB135868
	Nickel	40.0	+/-40.0	U	40.0	P	05/21/2025	13:36	LB135868
	Potassium	2000	+/-2000	U	2000	P	05/21/2025	13:36	LB135868
	Selenium	20.0	+/-20.0	U	20.0	P	05/21/2025	13:36	LB135868
	Silver	10.0	+/-10.0	U	10.0	P	05/21/2025	13:36	LB135868
	Sodium	2000	+/-2000	U	2000	P	05/21/2025	13:36	LB135868
	Thallium	40.0	+/-40.0	U	40.0	P	05/21/2025	13:36	LB135868
	Vanadium	40.0	+/-40.0	U	40.0	P	05/21/2025	13:36	LB135868
	Zinc	40.0	+/-40.0	U	40.0	P	05/21/2025	13:36	LB135868

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith		SDG No.: Q2074							
Contract: CAMP02	Lab Code: CHEM	Case No.: Q2074	SAS No.: Q2074						
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Aluminum	15.5	+/-100	J	100	P	05/21/2025	14:13	LB135868
	Antimony	50.0	+/-50.0	U	50.0	P	05/21/2025	14:13	LB135868
	Arsenic	20.0	+/-20.0	U	20.0	P	05/21/2025	14:13	LB135868
	Barium	100	+/-100	U	100	P	05/21/2025	14:13	LB135868
	Beryllium	6.00	+/-6.00	U	6.00	P	05/21/2025	14:13	LB135868
	Cadmium	6.00	+/-6.00	U	6.00	P	05/21/2025	14:13	LB135868
	Calcium	2000	+/-2000	U	2000	P	05/21/2025	14:13	LB135868
	Chromium	10.0	+/-10.0	U	10.0	P	05/21/2025	14:13	LB135868
	Cobalt	30.0	+/-30.0	U	30.0	P	05/21/2025	14:13	LB135868
	Copper	20.0	+/-20.0	U	20.0	P	05/21/2025	14:13	LB135868
	Iron	100	+/-100	U	100	P	05/21/2025	14:13	LB135868
	Lead	12.0	+/-12.0	U	12.0	P	05/21/2025	14:13	LB135868
	Magnesium	2000	+/-2000	U	2000	P	05/21/2025	14:13	LB135868
	Manganese	20.0	+/-20.0	U	20.0	P	05/21/2025	14:13	LB135868
	Nickel	40.0	+/-40.0	U	40.0	P	05/21/2025	14:13	LB135868
	Potassium	2000	+/-2000	U	2000	P	05/21/2025	14:13	LB135868
	Selenium	20.0	+/-20.0	U	20.0	P	05/21/2025	14:13	LB135868
	Silver	10.0	+/-10.0	U	10.0	P	05/21/2025	14:13	LB135868
	Sodium	2000	+/-2000	U	2000	P	05/21/2025	14:13	LB135868
	Thallium	40.0	+/-40.0	U	40.0	P	05/21/2025	14:13	LB135868
	Vanadium	40.0	+/-40.0	U	40.0	P	05/21/2025	14:13	LB135868
	Zinc	40.0	+/-40.0	U	40.0	P	05/21/2025	14:13	LB135868
CCB02	Aluminum	100	+/-100	U	100	P	05/21/2025	15:04	LB135868
	Antimony	50.0	+/-50.0	U	50.0	P	05/21/2025	15:04	LB135868
	Arsenic	20.0	+/-20.0	U	20.0	P	05/21/2025	15:04	LB135868
	Barium	100	+/-100	U	100	P	05/21/2025	15:04	LB135868
	Beryllium	6.00	+/-6.00	U	6.00	P	05/21/2025	15:04	LB135868
	Cadmium	6.00	+/-6.00	U	6.00	P	05/21/2025	15:04	LB135868
	Calcium	2000	+/-2000	U	2000	P	05/21/2025	15:04	LB135868
	Chromium	10.0	+/-10.0	U	10.0	P	05/21/2025	15:04	LB135868
	Cobalt	30.0	+/-30.0	U	30.0	P	05/21/2025	15:04	LB135868
	Copper	20.0	+/-20.0	U	20.0	P	05/21/2025	15:04	LB135868
	Iron	100	+/-100	U	100	P	05/21/2025	15:04	LB135868
	Lead	12.0	+/-12.0	U	12.0	P	05/21/2025	15:04	LB135868
	Magnesium	2000	+/-2000	U	2000	P	05/21/2025	15:04	LB135868
	Manganese	20.0	+/-20.0	U	20.0	P	05/21/2025	15:04	LB135868
	Nickel	40.0	+/-40.0	U	40.0	P	05/21/2025	15:04	LB135868
	Potassium	2000	+/-2000	U	2000	P	05/21/2025	15:04	LB135868
	Selenium	20.0	+/-20.0	U	20.0	P	05/21/2025	15:04	LB135868

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith		SDG No.: Q2074							
Contract: CAMP02	Lab Code: CHEM	Case No.: Q2074	SAS No.: Q2074						
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB02	Silver	10.0	+/-10.0	U	10.0	P	05/21/2025	15:04	LB135868
	Sodium	2000	+/-2000	U	2000	P	05/21/2025	15:04	LB135868
	Thallium	40.0	+/-40.0	U	40.0	P	05/21/2025	15:04	LB135868
	Vanadium	40.0	+/-40.0	U	40.0	P	05/21/2025	15:04	LB135868
	Zinc	40.0	+/-40.0	U	40.0	P	05/21/2025	15:04	LB135868
CCB03	Aluminum	100	+/-100	U	100	P	05/21/2025	16:25	LB135868
	Antimony	50.0	+/-50.0	U	50.0	P	05/21/2025	16:25	LB135868
	Arsenic	20.0	+/-20.0	U	20.0	P	05/21/2025	16:25	LB135868
	Barium	100	+/-100	U	100	P	05/21/2025	16:25	LB135868
	Beryllium	6.00	+/-6.00	U	6.00	P	05/21/2025	16:25	LB135868
	Cadmium	6.00	+/-6.00	U	6.00	P	05/21/2025	16:25	LB135868
	Calcium	2000	+/-2000	U	2000	P	05/21/2025	16:25	LB135868
	Chromium	10.0	+/-10.0	U	10.0	P	05/21/2025	16:25	LB135868
	Cobalt	30.0	+/-30.0	U	30.0	P	05/21/2025	16:25	LB135868
	Copper	20.0	+/-20.0	U	20.0	P	05/21/2025	16:25	LB135868
	Iron	100	+/-100	U	100	P	05/21/2025	16:25	LB135868
	Lead	12.0	+/-12.0	U	12.0	P	05/21/2025	16:25	LB135868
	Magnesium	2000	+/-2000	U	2000	P	05/21/2025	16:25	LB135868
	Manganese	20.0	+/-20.0	U	20.0	P	05/21/2025	16:25	LB135868
	Nickel	40.0	+/-40.0	U	40.0	P	05/21/2025	16:25	LB135868
	Potassium	2000	+/-2000	U	2000	P	05/21/2025	16:25	LB135868
	Selenium	20.0	+/-20.0	U	20.0	P	05/21/2025	16:25	LB135868
	Silver	10.0	+/-10.0	U	10.0	P	05/21/2025	16:25	LB135868
	Sodium	2000	+/-2000	U	2000	P	05/21/2025	16:25	LB135868
	Thallium	40.0	+/-40.0	U	40.0	P	05/21/2025	16:25	LB135868
	Vanadium	40.0	+/-40.0	U	40.0	P	05/21/2025	16:25	LB135868
	Zinc	40.0	+/-40.0	U	40.0	P	05/21/2025	16:25	LB135868
CCB04	Aluminum	13.8	+/-100	J	100	P	05/21/2025	17:32	LB135868
	Antimony	50.0	+/-50.0	U	50.0	P	05/21/2025	17:32	LB135868
	Arsenic	20.0	+/-20.0	U	20.0	P	05/21/2025	17:32	LB135868
	Barium	100	+/-100	U	100	P	05/21/2025	17:32	LB135868
	Beryllium	6.00	+/-6.00	U	6.00	P	05/21/2025	17:32	LB135868
	Cadmium	6.00	+/-6.00	U	6.00	P	05/21/2025	17:32	LB135868
	Calcium	2000	+/-2000	U	2000	P	05/21/2025	17:32	LB135868
	Chromium	10.0	+/-10.0	U	10.0	P	05/21/2025	17:32	LB135868
	Cobalt	30.0	+/-30.0	U	30.0	P	05/21/2025	17:32	LB135868
	Copper	20.0	+/-20.0	U	20.0	P	05/21/2025	17:32	LB135868
	Iron	100	+/-100	U	100	P	05/21/2025	17:32	LB135868
	Lead	12.0	+/-12.0	U	12.0	P	05/21/2025	17:32	LB135868

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith		SDG No.: Q2074							
Contract: CAMP02	Lab Code: CHEM	Case No.: Q2074	SAS No.: Q2074						
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB04	Magnesium	2000	+/-2000	U	2000	P	05/21/2025	17:32	LB135868
	Manganese	20.0	+/-20.0	U	20.0	P	05/21/2025	17:32	LB135868
	Nickel	40.0	+/-40.0	U	40.0	P	05/21/2025	17:32	LB135868
	Potassium	2000	+/-2000	U	2000	P	05/21/2025	17:32	LB135868
	Selenium	20.0	+/-20.0	U	20.0	P	05/21/2025	17:32	LB135868
	Silver	10.0	+/-10.0	U	10.0	P	05/21/2025	17:32	LB135868
	Sodium	2000	+/-2000	U	2000	P	05/21/2025	17:32	LB135868
	Thallium	40.0	+/-40.0	U	40.0	P	05/21/2025	17:32	LB135868
	Vanadium	40.0	+/-40.0	U	40.0	P	05/21/2025	17:32	LB135868
	Zinc	40.0	+/-40.0	U	40.0	P	05/21/2025	17:32	LB135868
CCB05	Aluminum	100	+/-100	U	100	P	05/21/2025	18:20	LB135868
	Antimony	50.0	+/-50.0	U	50.0	P	05/21/2025	18:20	LB135868
	Arsenic	20.0	+/-20.0	U	20.0	P	05/21/2025	18:20	LB135868
	Barium	100	+/-100	U	100	P	05/21/2025	18:20	LB135868
	Beryllium	6.00	+/-6.00	U	6.00	P	05/21/2025	18:20	LB135868
	Cadmium	6.00	+/-6.00	U	6.00	P	05/21/2025	18:20	LB135868
	Calcium	2000	+/-2000	U	2000	P	05/21/2025	18:20	LB135868
	Chromium	10.0	+/-10.0	U	10.0	P	05/21/2025	18:20	LB135868
	Cobalt	30.0	+/-30.0	U	30.0	P	05/21/2025	18:20	LB135868
	Copper	20.0	+/-20.0	U	20.0	P	05/21/2025	18:20	LB135868
	Iron	100	+/-100	U	100	P	05/21/2025	18:20	LB135868
	Lead	12.0	+/-12.0	U	12.0	P	05/21/2025	18:20	LB135868
	Magnesium	2000	+/-2000	U	2000	P	05/21/2025	18:20	LB135868
	Manganese	20.0	+/-20.0	U	20.0	P	05/21/2025	18:20	LB135868
	Nickel	40.0	+/-40.0	U	40.0	P	05/21/2025	18:20	LB135868
	Potassium	2000	+/-2000	U	2000	P	05/21/2025	18:20	LB135868
	Selenium	20.0	+/-20.0	U	20.0	P	05/21/2025	18:20	LB135868
	Silver	10.0	+/-10.0	U	10.0	P	05/21/2025	18:20	LB135868
	Sodium	2000	+/-2000	U	2000	P	05/21/2025	18:20	LB135868
	Thallium	40.0	+/-40.0	U	40.0	P	05/21/2025	18:20	LB135868
	Vanadium	40.0	+/-40.0	U	40.0	P	05/21/2025	18:20	LB135868
	Zinc	40.0	+/-40.0	U	40.0	P	05/21/2025	18:20	LB135868
CCB06	Aluminum	100	+/-100	U	100	P	05/21/2025	19:16	LB135868
	Antimony	50.0	+/-50.0	U	50.0	P	05/21/2025	19:16	LB135868
	Arsenic	20.0	+/-20.0	U	20.0	P	05/21/2025	19:16	LB135868
	Barium	100	+/-100	U	100	P	05/21/2025	19:16	LB135868
	Beryllium	6.00	+/-6.00	U	6.00	P	05/21/2025	19:16	LB135868
	Cadmium	6.00	+/-6.00	U	6.00	P	05/21/2025	19:16	LB135868
	Calcium	2000	+/-2000	U	2000	P	05/21/2025	19:16	LB135868

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith		SDG No.: Q2074							
Contract: CAMP02	Lab Code: CHEM	Case No.: Q2074	SAS No.: Q2074						
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB06	Chromium	10.0	+/-10.0	U	10.0	P	05/21/2025	19:16	LB135868
	Cobalt	30.0	+/-30.0	U	30.0	P	05/21/2025	19:16	LB135868
	Copper	20.0	+/-20.0	U	20.0	P	05/21/2025	19:16	LB135868
	Iron	100	+/-100	U	100	P	05/21/2025	19:16	LB135868
	Lead	12.0	+/-12.0	U	12.0	P	05/21/2025	19:16	LB135868
	Magnesium	2000	+/-2000	U	2000	P	05/21/2025	19:16	LB135868
	Manganese	20.0	+/-20.0	U	20.0	P	05/21/2025	19:16	LB135868
	Nickel	40.0	+/-40.0	U	40.0	P	05/21/2025	19:16	LB135868
	Potassium	2000	+/-2000	U	2000	P	05/21/2025	19:16	LB135868
	Selenium	20.0	+/-20.0	U	20.0	P	05/21/2025	19:16	LB135868
	Silver	10.0	+/-10.0	U	10.0	P	05/21/2025	19:16	LB135868
	Sodium	2000	+/-2000	U	2000	P	05/21/2025	19:16	LB135868
	Thallium	40.0	+/-40.0	U	40.0	P	05/21/2025	19:16	LB135868
	Vanadium	40.0	+/-40.0	U	40.0	P	05/21/2025	19:16	LB135868
	Zinc	40.0	+/-40.0	U	40.0	P	05/21/2025	19:16	LB135868
CCB07	Aluminum	100	+/-100	U	100	P	05/21/2025	20:02	LB135868
	Antimony	50.0	+/-50.0	U	50.0	P	05/21/2025	20:02	LB135868
	Arsenic	20.0	+/-20.0	U	20.0	P	05/21/2025	20:02	LB135868
	Barium	100	+/-100	U	100	P	05/21/2025	20:02	LB135868
	Beryllium	6.00	+/-6.00	U	6.00	P	05/21/2025	20:02	LB135868
	Cadmium	6.00	+/-6.00	U	6.00	P	05/21/2025	20:02	LB135868
	Calcium	2000	+/-2000	U	2000	P	05/21/2025	20:02	LB135868
	Chromium	10.0	+/-10.0	U	10.0	P	05/21/2025	20:02	LB135868
	Cobalt	30.0	+/-30.0	U	30.0	P	05/21/2025	20:02	LB135868
	Copper	20.0	+/-20.0	U	20.0	P	05/21/2025	20:02	LB135868
	Iron	100	+/-100	U	100	P	05/21/2025	20:02	LB135868
	Lead	12.0	+/-12.0	U	12.0	P	05/21/2025	20:02	LB135868
	Magnesium	2000	+/-2000	U	2000	P	05/21/2025	20:02	LB135868
	Manganese	20.0	+/-20.0	U	20.0	P	05/21/2025	20:02	LB135868
	Nickel	40.0	+/-40.0	U	40.0	P	05/21/2025	20:02	LB135868
	Potassium	2000	+/-2000	U	2000	P	05/21/2025	20:02	LB135868
	Selenium	20.0	+/-20.0	U	20.0	P	05/21/2025	20:02	LB135868
	Silver	10.0	+/-10.0	U	10.0	P	05/21/2025	20:02	LB135868
	Sodium	2000	+/-2000	U	2000	P	05/21/2025	20:02	LB135868
	Thallium	40.0	+/-40.0	U	40.0	P	05/21/2025	20:02	LB135868
	Vanadium	40.0	+/-40.0	U	40.0	P	05/21/2025	20:02	LB135868
	Zinc	40.0	+/-40.0	U	40.0	P	05/21/2025	20:02	LB135868
CCB08	Aluminum	100	+/-100	U	100	P	05/21/2025	20:48	LB135868
	Antimony	50.0	+/-50.0	U	50.0	P	05/21/2025	20:48	LB135868

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith		SDG No.: Q2074							
Contract: CAMP02	Lab Code: CHEM	Case No.: Q2074	SAS No.: Q2074						
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB08	Arsenic	20.0	+/-20.0	U	20.0	P	05/21/2025	20:48	LB135868
	Barium	100	+/-100	U	100	P	05/21/2025	20:48	LB135868
	Beryllium	6.00	+/-6.00	U	6.00	P	05/21/2025	20:48	LB135868
	Cadmium	6.00	+/-6.00	U	6.00	P	05/21/2025	20:48	LB135868
	Calcium	2000	+/-2000	U	2000	P	05/21/2025	20:48	LB135868
	Chromium	10.0	+/-10.0	U	10.0	P	05/21/2025	20:48	LB135868
	Cobalt	30.0	+/-30.0	U	30.0	P	05/21/2025	20:48	LB135868
	Copper	20.0	+/-20.0	U	20.0	P	05/21/2025	20:48	LB135868
	Iron	100	+/-100	U	100	P	05/21/2025	20:48	LB135868
	Lead	12.0	+/-12.0	U	12.0	P	05/21/2025	20:48	LB135868
	Magnesium	2000	+/-2000	U	2000	P	05/21/2025	20:48	LB135868
	Manganese	20.0	+/-20.0	U	20.0	P	05/21/2025	20:48	LB135868
	Nickel	40.0	+/-40.0	U	40.0	P	05/21/2025	20:48	LB135868
	Potassium	2000	+/-2000	U	2000	P	05/21/2025	20:48	LB135868
	Selenium	20.0	+/-20.0	U	20.0	P	05/21/2025	20:48	LB135868
	Silver	10.0	+/-10.0	U	10.0	P	05/21/2025	20:48	LB135868
	Sodium	2000	+/-2000	U	2000	P	05/21/2025	20:48	LB135868
	Thallium	40.0	+/-40.0	U	40.0	P	05/21/2025	20:48	LB135868
	Vanadium	40.0	+/-40.0	U	40.0	P	05/21/2025	20:48	LB135868
	Zinc	40.0	+/-40.0	U	40.0	P	05/21/2025	20:48	LB135868
CCB09	Aluminum	100	+/-100	U	100	P	05/21/2025	21:34	LB135868
	Antimony	50.0	+/-50.0	U	50.0	P	05/21/2025	21:34	LB135868
	Arsenic	20.0	+/-20.0	U	20.0	P	05/21/2025	21:34	LB135868
	Barium	100	+/-100	U	100	P	05/21/2025	21:34	LB135868
	Beryllium	6.00	+/-6.00	U	6.00	P	05/21/2025	21:34	LB135868
	Cadmium	6.00	+/-6.00	U	6.00	P	05/21/2025	21:34	LB135868
	Calcium	2000	+/-2000	U	2000	P	05/21/2025	21:34	LB135868
	Chromium	10.0	+/-10.0	U	10.0	P	05/21/2025	21:34	LB135868
	Cobalt	30.0	+/-30.0	U	30.0	P	05/21/2025	21:34	LB135868
	Copper	20.0	+/-20.0	U	20.0	P	05/21/2025	21:34	LB135868
	Iron	100	+/-100	U	100	P	05/21/2025	21:34	LB135868
	Lead	12.0	+/-12.0	U	12.0	P	05/21/2025	21:34	LB135868
	Magnesium	2000	+/-2000	U	2000	P	05/21/2025	21:34	LB135868
	Manganese	20.0	+/-20.0	U	20.0	P	05/21/2025	21:34	LB135868
	Nickel	40.0	+/-40.0	U	40.0	P	05/21/2025	21:34	LB135868
	Potassium	2000	+/-2000	U	2000	P	05/21/2025	21:34	LB135868
	Selenium	20.0	+/-20.0	U	20.0	P	05/21/2025	21:34	LB135868
	Silver	10.0	+/-10.0	U	10.0	P	05/21/2025	21:34	LB135868
	Sodium	2000	+/-2000	U	2000	P	05/21/2025	21:34	LB135868

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith		SDG No.: Q2074							
Contract: CAMP02	Lab Code: CHEM	Case No.: Q2074	SAS No.: Q2074						
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB09	Thallium	40.0	+/-40.0	U	40.0	P	05/21/2025	21:34	LB135868
	Vanadium	40.0	+/-40.0	U	40.0	P	05/21/2025	21:34	LB135868
	Zinc	40.0	+/-40.0	U	40.0	P	05/21/2025	21:34	LB135868
CCB10	Aluminum	100	+/-100	U	100	P	05/21/2025	21:54	LB135868
	Antimony	50.0	+/-50.0	U	50.0	P	05/21/2025	21:54	LB135868
	Arsenic	20.0	+/-20.0	U	20.0	P	05/21/2025	21:54	LB135868
	Barium	100	+/-100	U	100	P	05/21/2025	21:54	LB135868
	Beryllium	6.00	+/-6.00	U	6.00	P	05/21/2025	21:54	LB135868
	Cadmium	6.00	+/-6.00	U	6.00	P	05/21/2025	21:54	LB135868
	Calcium	2000	+/-2000	U	2000	P	05/21/2025	21:54	LB135868
	Chromium	10.0	+/-10.0	U	10.0	P	05/21/2025	21:54	LB135868
	Cobalt	30.0	+/-30.0	U	30.0	P	05/21/2025	21:54	LB135868
	Copper	20.0	+/-20.0	U	20.0	P	05/21/2025	21:54	LB135868
	Iron	100	+/-100	U	100	P	05/21/2025	21:54	LB135868
	Lead	12.0	+/-12.0	U	12.0	P	05/21/2025	21:54	LB135868
	Magnesium	2000	+/-2000	U	2000	P	05/21/2025	21:54	LB135868
	Manganese	20.0	+/-20.0	U	20.0	P	05/21/2025	21:54	LB135868
	Nickel	40.0	+/-40.0	U	40.0	P	05/21/2025	21:54	LB135868
	Potassium	2000	+/-2000	U	2000	P	05/21/2025	21:54	LB135868
	Selenium	20.0	+/-20.0	U	20.0	P	05/21/2025	21:54	LB135868
	Silver	10.0	+/-10.0	U	10.0	P	05/21/2025	21:54	LB135868
	Sodium	2000	+/-2000	U	2000	P	05/21/2025	21:54	LB135868
	Thallium	40.0	+/-40.0	U	40.0	P	05/21/2025	21:54	LB135868
	Vanadium	40.0	+/-40.0	U	40.0	P	05/21/2025	21:54	LB135868
	Zinc	40.0	+/-40.0	U	40.0	P	05/21/2025	21:54	LB135868

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith		SDG No.: Q2074							
Contract: CAMP02	Lab Code: CHEM	Case No.: Q2074	SAS No.: Q2074						
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	100	+/-100	U	100	P	05/22/2025	15:20	LB135892
	Antimony	50.0	+/-50.0	U	50.0	P	05/22/2025	15:20	LB135892
	Arsenic	20.0	+/-20.0	U	20.0	P	05/22/2025	15:20	LB135892
	Barium	100	+/-100	U	100	P	05/22/2025	15:20	LB135892
	Beryllium	6.00	+/-6.00	U	6.00	P	05/22/2025	15:20	LB135892
	Cadmium	6.00	+/-6.00	U	6.00	P	05/22/2025	15:20	LB135892
	Calcium	2000	+/-2000	U	2000	P	05/22/2025	15:20	LB135892
	Chromium	10.0	+/-10.0	U	10.0	P	05/22/2025	15:20	LB135892
	Cobalt	30.0	+/-30.0	U	30.0	P	05/22/2025	15:20	LB135892
	Copper	20.0	+/-20.0	U	20.0	P	05/22/2025	15:20	LB135892
	Iron	100	+/-100	U	100	P	05/22/2025	15:20	LB135892
	Lead	12.0	+/-12.0	U	12.0	P	05/22/2025	15:20	LB135892
	Magnesium	2000	+/-2000	U	2000	P	05/22/2025	15:20	LB135892
	Manganese	20.0	+/-20.0	U	20.0	P	05/22/2025	15:20	LB135892
	Nickel	40.0	+/-40.0	U	40.0	P	05/22/2025	15:20	LB135892
	Potassium	2000	+/-2000	U	2000	P	05/22/2025	15:20	LB135892
	Selenium	20.0	+/-20.0	U	20.0	P	05/22/2025	15:20	LB135892
	Silver	10.0	+/-10.0	U	10.0	P	05/22/2025	15:20	LB135892
	Sodium	2000	+/-2000	U	2000	P	05/22/2025	15:20	LB135892
	Thallium	40.0	+/-40.0	U	40.0	P	05/22/2025	15:20	LB135892
	Vanadium	40.0	+/-40.0	U	40.0	P	05/22/2025	15:20	LB135892
	Zinc	40.0	+/-40.0	U	40.0	P	05/22/2025	15:20	LB135892

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith		SDG No.: Q2074							
Contract: CAMP02	Lab Code: CHEM	Case No.: Q2074	SAS No.: Q2074						
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Aluminum	100	+/-100	U	100	P	05/22/2025	15:55	LB135892
	Antimony	50.0	+/-50.0	U	50.0	P	05/22/2025	15:55	LB135892
	Arsenic	20.0	+/-20.0	U	20.0	P	05/22/2025	15:55	LB135892
	Barium	100	+/-100	U	100	P	05/22/2025	15:55	LB135892
	Beryllium	6.00	+/-6.00	U	6.00	P	05/22/2025	15:55	LB135892
	Cadmium	6.00	+/-6.00	U	6.00	P	05/22/2025	15:55	LB135892
	Calcium	2000	+/-2000	U	2000	P	05/22/2025	15:55	LB135892
	Chromium	10.0	+/-10.0	U	10.0	P	05/22/2025	15:55	LB135892
	Cobalt	30.0	+/-30.0	U	30.0	P	05/22/2025	15:55	LB135892
	Copper	20.0	+/-20.0	U	20.0	P	05/22/2025	15:55	LB135892
	Iron	100	+/-100	U	100	P	05/22/2025	15:55	LB135892
	Lead	12.0	+/-12.0	U	12.0	P	05/22/2025	15:55	LB135892
	Magnesium	2000	+/-2000	U	2000	P	05/22/2025	15:55	LB135892
	Manganese	20.0	+/-20.0	U	20.0	P	05/22/2025	15:55	LB135892
	Nickel	40.0	+/-40.0	U	40.0	P	05/22/2025	15:55	LB135892
	Potassium	2000	+/-2000	U	2000	P	05/22/2025	15:55	LB135892
	Selenium	20.0	+/-20.0	U	20.0	P	05/22/2025	15:55	LB135892
	Silver	10.0	+/-10.0	U	10.0	P	05/22/2025	15:55	LB135892
	Sodium	2000	+/-2000	U	2000	P	05/22/2025	15:55	LB135892
	Thallium	40.0	+/-40.0	U	40.0	P	05/22/2025	15:55	LB135892
	Vanadium	40.0	+/-40.0	U	40.0	P	05/22/2025	15:55	LB135892
	Zinc	40.0	+/-40.0	U	40.0	P	05/22/2025	15:55	LB135892
CCB02	Aluminum	100	+/-100	U	100	P	05/22/2025	16:43	LB135892
	Antimony	50.0	+/-50.0	U	50.0	P	05/22/2025	16:43	LB135892
	Arsenic	20.0	+/-20.0	U	20.0	P	05/22/2025	16:43	LB135892
	Barium	100	+/-100	U	100	P	05/22/2025	16:43	LB135892
	Beryllium	6.00	+/-6.00	U	6.00	P	05/22/2025	16:43	LB135892
	Cadmium	6.00	+/-6.00	U	6.00	P	05/22/2025	16:43	LB135892
	Calcium	2000	+/-2000	U	2000	P	05/22/2025	16:43	LB135892
	Chromium	10.0	+/-10.0	U	10.0	P	05/22/2025	16:43	LB135892
	Cobalt	30.0	+/-30.0	U	30.0	P	05/22/2025	16:43	LB135892
	Copper	20.0	+/-20.0	U	20.0	P	05/22/2025	16:43	LB135892
	Iron	100	+/-100	U	100	P	05/22/2025	16:43	LB135892
	Lead	12.0	+/-12.0	U	12.0	P	05/22/2025	16:43	LB135892
	Magnesium	2000	+/-2000	U	2000	P	05/22/2025	16:43	LB135892
	Manganese	20.0	+/-20.0	U	20.0	P	05/22/2025	16:43	LB135892
	Nickel	40.0	+/-40.0	U	40.0	P	05/22/2025	16:43	LB135892
	Potassium	2000	+/-2000	U	2000	P	05/22/2025	16:43	LB135892
	Selenium	20.0	+/-20.0	U	20.0	P	05/22/2025	16:43	LB135892

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith		SDG No.: Q2074							
Contract: CAMP02	Lab Code: CHEM	Case No.: Q2074	SAS No.: Q2074						
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB02	Silver	10.0	+/-10.0	U	10.0	P	05/22/2025	16:43	LB135892
	Sodium	2000	+/-2000	U	2000	P	05/22/2025	16:43	LB135892
	Thallium	40.0	+/-40.0	U	40.0	P	05/22/2025	16:43	LB135892
	Vanadium	40.0	+/-40.0	U	40.0	P	05/22/2025	16:43	LB135892
	Zinc	40.0	+/-40.0	U	40.0	P	05/22/2025	16:43	LB135892
CCB03	Aluminum	100	+/-100	U	100	P	05/22/2025	17:32	LB135892
	Antimony	50.0	+/-50.0	U	50.0	P	05/22/2025	17:32	LB135892
	Arsenic	20.0	+/-20.0	U	20.0	P	05/22/2025	17:32	LB135892
	Barium	100	+/-100	U	100	P	05/22/2025	17:32	LB135892
	Beryllium	6.00	+/-6.00	U	6.00	P	05/22/2025	17:32	LB135892
	Cadmium	6.00	+/-6.00	U	6.00	P	05/22/2025	17:32	LB135892
	Calcium	2000	+/-2000	U	2000	P	05/22/2025	17:32	LB135892
	Chromium	10.0	+/-10.0	U	10.0	P	05/22/2025	17:32	LB135892
	Cobalt	30.0	+/-30.0	U	30.0	P	05/22/2025	17:32	LB135892
	Copper	20.0	+/-20.0	U	20.0	P	05/22/2025	17:32	LB135892
	Iron	100	+/-100	U	100	P	05/22/2025	17:32	LB135892
	Lead	12.0	+/-12.0	U	12.0	P	05/22/2025	17:32	LB135892
	Magnesium	2000	+/-2000	U	2000	P	05/22/2025	17:32	LB135892
	Manganese	20.0	+/-20.0	U	20.0	P	05/22/2025	17:32	LB135892
	Nickel	40.0	+/-40.0	U	40.0	P	05/22/2025	17:32	LB135892
	Potassium	2000	+/-2000	U	2000	P	05/22/2025	17:32	LB135892
	Selenium	20.0	+/-20.0	U	20.0	P	05/22/2025	17:32	LB135892
	Silver	10.0	+/-10.0	U	10.0	P	05/22/2025	17:32	LB135892
	Sodium	2000	+/-2000	U	2000	P	05/22/2025	17:32	LB135892
	Thallium	40.0	+/-40.0	U	40.0	P	05/22/2025	17:32	LB135892
	Vanadium	40.0	+/-40.0	U	40.0	P	05/22/2025	17:32	LB135892
	Zinc	40.0	+/-40.0	U	40.0	P	05/22/2025	17:32	LB135892
CCB04	Aluminum	100	+/-100	U	100	P	05/22/2025	19:12	LB135892
	Antimony	50.0	+/-50.0	U	50.0	P	05/22/2025	19:12	LB135892
	Arsenic	20.0	+/-20.0	U	20.0	P	05/22/2025	19:12	LB135892
	Barium	100	+/-100	U	100	P	05/22/2025	19:12	LB135892
	Beryllium	6.00	+/-6.00	U	6.00	P	05/22/2025	19:12	LB135892
	Cadmium	6.00	+/-6.00	U	6.00	P	05/22/2025	19:12	LB135892
	Calcium	2000	+/-2000	U	2000	P	05/22/2025	19:12	LB135892
	Chromium	10.0	+/-10.0	U	10.0	P	05/22/2025	19:12	LB135892
	Cobalt	30.0	+/-30.0	U	30.0	P	05/22/2025	19:12	LB135892
	Copper	20.0	+/-20.0	U	20.0	P	05/22/2025	19:12	LB135892
	Iron	100	+/-100	U	100	P	05/22/2025	19:12	LB135892
	Lead	12.0	+/-12.0	U	12.0	P	05/22/2025	19:12	LB135892

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2074
Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2074 **SAS No.:** Q2074

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB04	Magnesium	2000	+/-2000	U	2000	P	05/22/2025	19:12	LB135892
	Manganese	20.0	+/-20.0	U	20.0	P	05/22/2025	19:12	LB135892
	Nickel	40.0	+/-40.0	U	40.0	P	05/22/2025	19:12	LB135892
	Potassium	2000	+/-2000	U	2000	P	05/22/2025	19:12	LB135892
	Selenium	20.0	+/-20.0	U	20.0	P	05/22/2025	19:12	LB135892
	Silver	10.0	+/-10.0	U	10.0	P	05/22/2025	19:12	LB135892
	Sodium	2000	+/-2000	U	2000	P	05/22/2025	19:12	LB135892
	Thallium	40.0	+/-40.0	U	40.0	P	05/22/2025	19:12	LB135892
	Vanadium	40.0	+/-40.0	U	40.0	P	05/22/2025	19:12	LB135892
	Zinc	40.0	+/-40.0	U	40.0	P	05/22/2025	19:12	LB135892

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: CDM Smith

SDG No.: Q2074

Instrument: CV1

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB168090BL		SOLID		Batch Number:	PB168090		Prep Date:	05/19/2025	
	Mercury	0.013	<0.013	U	0.013	CV	05/20/2025	13:56	LB135837

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: CDM Smith

SDG No.: Q2074

Instrument: P4

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB168087BL	SOLID			Batch Number:	PB168087		Prep Date:	05/20/2025	
	Aluminum	0.94	<5.00	J	5.00	P	05/21/2025	17:10	LB135868
	Antimony	2.50	<2.50	U	2.50	P	05/21/2025	17:10	LB135868
	Arsenic	1.00	<1.00	U	1.00	P	05/21/2025	17:10	LB135868
	Barium	5.00	<5.00	U	5.00	P	05/21/2025	17:10	LB135868
	Beryllium	0.30	<0.30	U	0.30	P	05/21/2025	17:10	LB135868
	Cadmium	0.30	<0.30	U	0.30	P	05/21/2025	17:10	LB135868
	Calcium	100	<100	U	100	P	05/21/2025	17:10	LB135868
	Chromium	0.50	<0.50	U	0.50	P	05/21/2025	17:10	LB135868
	Cobalt	1.50	<1.50	U	1.50	P	05/21/2025	17:10	LB135868
	Copper	1.00	<1.00	U	1.00	P	05/21/2025	17:10	LB135868
	Iron	5.00	<5.00	U	5.00	P	05/21/2025	17:10	LB135868
	Lead	0.60	<0.60	U	0.60	P	05/21/2025	17:10	LB135868
	Magnesium	100	<100	U	100	P	05/21/2025	17:10	LB135868
	Manganese	1.00	<1.00	U	1.00	P	05/21/2025	17:10	LB135868
	Nickel	2.00	<2.00	U	2.00	P	05/21/2025	17:10	LB135868
	Potassium	100	<100	U	100	P	05/21/2025	17:10	LB135868
	Selenium	1.00	<1.00	U	1.00	P	05/21/2025	17:10	LB135868
	Silver	0.50	<0.50	U	0.50	P	05/21/2025	17:10	LB135868
	Sodium	100	<100	U	100	P	05/21/2025	17:10	LB135868
	Thallium	2.00	<2.00	U	2.00	P	05/21/2025	17:10	LB135868
	Vanadium	2.00	<2.00	U	2.00	P	05/21/2025	17:10	LB135868
	Zinc	2.00	<2.00	U	2.00	P	05/21/2025	17:10	LB135868



METAL CALIBRATION DATA

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2074
Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2074 **SAS No.:** Q2074
Initial Calibration Source: EPA
Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV12	Mercury	3.99	4.0	100	90 - 110	CV	05/20/2025	12:58	LB135837

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2074
Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2074 **SAS No.:** Q2074
Initial Calibration Source: EPA
Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV45	Mercury	4.90	5.0	98	90 - 110	CV	05/20/2025	13:03	LB135837
CCV46	Mercury	4.73	5.0	95	90 - 110	CV	05/20/2025	13:33	LB135837
CCV47	Mercury	4.80	5.0	96	90 - 110	CV	05/20/2025	14:01	LB135837
CCV48	Mercury	4.90	5.0	98	90 - 110	CV	05/20/2025	14:29	LB135837
CCV49	Mercury	5.16	5.0	103	90 - 110	CV	05/20/2025	14:52	LB135837
CCV50	Mercury	5.14	5.0	103	90 - 110	CV	05/20/2025	15:05	LB135837

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2074
Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2074 **SAS No.:** Q2074
Initial Calibration Source: EPA
Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Aluminum	2410	2500	96	90 - 110	P	05/21/2025	13:19	LB135868
	Antimony	1010	1000	101	90 - 110	P	05/21/2025	13:19	LB135868
	Arsenic	1020	1000	102	90 - 110	P	05/21/2025	13:19	LB135868
	Barium	535	520	103	90 - 110	P	05/21/2025	13:19	LB135868
	Beryllium	478	510	94	90 - 110	P	05/21/2025	13:19	LB135868
	Cadmium	510	510	100	90 - 110	P	05/21/2025	13:19	LB135868
	Calcium	9470	10000	95	90 - 110	P	05/21/2025	13:19	LB135868
	Chromium	514	520	99	90 - 110	P	05/21/2025	13:19	LB135868
	Cobalt	498	520	96	90 - 110	P	05/21/2025	13:19	LB135868
	Copper	514	510	101	90 - 110	P	05/21/2025	13:19	LB135868
	Iron	10400	10000	104	90 - 110	P	05/21/2025	13:19	LB135868
	Lead	989	1000	99	90 - 110	P	05/21/2025	13:19	LB135868
	Magnesium	5600	6000	93	90 - 110	P	05/21/2025	13:19	LB135868
	Manganese	486	520	93	90 - 110	P	05/21/2025	13:19	LB135868
	Nickel	501	530	94	90 - 110	P	05/21/2025	13:19	LB135868
	Potassium	10700	9900	108	90 - 110	P	05/21/2025	13:19	LB135868
	Selenium	1050	1000	105	90 - 110	P	05/21/2025	13:19	LB135868
	Silver	264	250	106	90 - 110	P	05/21/2025	13:19	LB135868
	Sodium	10100	10000	101	90 - 110	P	05/21/2025	13:19	LB135868
	Thallium	1030	1000	103	90 - 110	P	05/21/2025	13:19	LB135868
	Vanadium	473	500	95	90 - 110	P	05/21/2025	13:19	LB135868
	Zinc	1010	1000	101	90 - 110	P	05/21/2025	13:19	LB135868

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2074
Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2074 **SAS No.:** Q2074
Initial Calibration Source: EPA
Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV01	Aluminum	111	100	111	80 - 120	P	05/21/2025	13:29	LB135868
	Antimony	50.1	50.0	100	80 - 120	P	05/21/2025	13:29	LB135868
	Arsenic	17.0	20.0	85	80 - 120	P	05/21/2025	13:29	LB135868
	Barium	90.6	100	91	80 - 120	P	05/21/2025	13:29	LB135868
	Beryllium	6.01	6.0	100	80 - 120	P	05/21/2025	13:29	LB135868
	Cadmium	6.06	6.0	101	80 - 120	P	05/21/2025	13:29	LB135868
	Calcium	2020	2000	101	80 - 120	P	05/21/2025	13:29	LB135868
	Chromium	10.3	10.0	103	80 - 120	P	05/21/2025	13:29	LB135868
	Cobalt	29.7	30.0	99	80 - 120	P	05/21/2025	13:29	LB135868
	Copper	21.8	20.0	109	80 - 120	P	05/21/2025	13:29	LB135868
	Iron	105	100	105	80 - 120	P	05/21/2025	13:29	LB135868
	Lead	11.0	12.0	92	80 - 120	P	05/21/2025	13:29	LB135868
	Magnesium	2060	2000	103	80 - 120	P	05/21/2025	13:29	LB135868
	Manganese	22.2	20.0	111	80 - 120	P	05/21/2025	13:29	LB135868
	Nickel	39.6	40.0	99	80 - 120	P	05/21/2025	13:29	LB135868
	Potassium	1920	2000	96	80 - 120	P	05/21/2025	13:29	LB135868
	Selenium	19.5	20.0	98	80 - 120	P	05/21/2025	13:29	LB135868
	Silver	11.0	10.0	110	80 - 120	P	05/21/2025	13:29	LB135868
	Sodium	1900	2000	95	80 - 120	P	05/21/2025	13:29	LB135868
	Thallium	40.7	40.0	102	80 - 120	P	05/21/2025	13:29	LB135868
	Vanadium	40.1	40.0	100	80 - 120	P	05/21/2025	13:29	LB135868
	Zinc	43.2	40.0	108	80 - 120	P	05/21/2025	13:29	LB135868

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith SDG No.: Q2074
Contract: CAMP02 Lab Code: CHEM Case No.: Q2074 SAS No.: Q2074
Initial Calibration Source: EPA
Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Aluminum	9680	10000	97	90 - 110	P	05/21/2025	14:09	LB135868
	Antimony	4890	5000	98	90 - 110	P	05/21/2025	14:09	LB135868
	Arsenic	4850	5000	97	90 - 110	P	05/21/2025	14:09	LB135868
	Barium	9920	10000	99	90 - 110	P	05/21/2025	14:09	LB135868
	Beryllium	234	250	94	90 - 110	P	05/21/2025	14:09	LB135868
	Cadmium	2430	2500	97	90 - 110	P	05/21/2025	14:09	LB135868
	Calcium	24400	25000	98	90 - 110	P	05/21/2025	14:09	LB135868
	Chromium	984	1000	98	90 - 110	P	05/21/2025	14:09	LB135868
	Cobalt	2430	2500	97	90 - 110	P	05/21/2025	14:09	LB135868
	Copper	1230	1250	98	90 - 110	P	05/21/2025	14:09	LB135868
	Iron	5060	5000	101	90 - 110	P	05/21/2025	14:09	LB135868
	Lead	4900	5000	98	90 - 110	P	05/21/2025	14:09	LB135868
	Magnesium	24200	25000	97	90 - 110	P	05/21/2025	14:09	LB135868
	Manganese	2450	2500	98	90 - 110	P	05/21/2025	14:09	LB135868
	Nickel	2440	2500	98	90 - 110	P	05/21/2025	14:09	LB135868
	Potassium	25100	25000	100	90 - 110	P	05/21/2025	14:09	LB135868
	Selenium	4860	5000	97	90 - 110	P	05/21/2025	14:09	LB135868
	Silver	1220	1250	98	90 - 110	P	05/21/2025	14:09	LB135868
	Sodium	25300	25000	101	90 - 110	P	05/21/2025	14:09	LB135868
	Thallium	4970	5000	99	90 - 110	P	05/21/2025	14:09	LB135868
	Vanadium	2450	2500	98	90 - 110	P	05/21/2025	14:09	LB135868
	Zinc	2470	2500	99	90 - 110	P	05/21/2025	14:09	LB135868
CCV02	Aluminum	9670	10000	97	90 - 110	P	05/21/2025	15:00	LB135868
	Antimony	4830	5000	96	90 - 110	P	05/21/2025	15:00	LB135868
	Arsenic	4860	5000	97	90 - 110	P	05/21/2025	15:00	LB135868
	Barium	9490	10000	95	90 - 110	P	05/21/2025	15:00	LB135868
	Beryllium	242	250	97	90 - 110	P	05/21/2025	15:00	LB135868
	Cadmium	2460	2500	98	90 - 110	P	05/21/2025	15:00	LB135868
	Calcium	24400	25000	98	90 - 110	P	05/21/2025	15:00	LB135868
	Chromium	995	1000	100	90 - 110	P	05/21/2025	15:00	LB135868
	Cobalt	2440	2500	98	90 - 110	P	05/21/2025	15:00	LB135868
	Copper	1220	1250	98	90 - 110	P	05/21/2025	15:00	LB135868
	Iron	4930	5000	99	90 - 110	P	05/21/2025	15:00	LB135868
	Lead	4910	5000	98	90 - 110	P	05/21/2025	15:00	LB135868

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith SDG No.: Q2074
 Contract: CAMP02 Lab Code: CHEM Case No.: Q2074 SAS No.: Q2074
 Initial Calibration Source: EPA
 Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV02	Magnesium	24500	25000	98	90 - 110	P	05/21/2025	15:00	LB135868
	Manganese	2410	2500	96	90 - 110	P	05/21/2025	15:00	LB135868
	Nickel	2450	2500	98	90 - 110	P	05/21/2025	15:00	LB135868
	Potassium	24200	25000	97	90 - 110	P	05/21/2025	15:00	LB135868
	Selenium	4860	5000	97	90 - 110	P	05/21/2025	15:00	LB135868
	Silver	1220	1250	98	90 - 110	P	05/21/2025	15:00	LB135868
	Sodium	24000	25000	96	90 - 110	P	05/21/2025	15:00	LB135868
	Thallium	4820	5000	96	90 - 110	P	05/21/2025	15:00	LB135868
	Vanadium	2430	2500	97	90 - 110	P	05/21/2025	15:00	LB135868
	Zinc	2440	2500	98	90 - 110	P	05/21/2025	15:00	LB135868
CCV03	Aluminum	9720	10000	97	90 - 110	P	05/21/2025	16:02	LB135868
	Antimony	4810	5000	96	90 - 110	P	05/21/2025	16:02	LB135868
	Arsenic	4780	5000	96	90 - 110	P	05/21/2025	16:02	LB135868
	Barium	9430	10000	94	90 - 110	P	05/21/2025	16:02	LB135868
	Beryllium	244	250	98	90 - 110	P	05/21/2025	16:02	LB135868
	Cadmium	2390	2500	96	90 - 110	P	05/21/2025	16:02	LB135868
	Calcium	24100	25000	96	90 - 110	P	05/21/2025	16:02	LB135868
	Chromium	983	1000	98	90 - 110	P	05/21/2025	16:02	LB135868
	Cobalt	2390	2500	96	90 - 110	P	05/21/2025	16:02	LB135868
	Copper	1210	1250	97	90 - 110	P	05/21/2025	16:02	LB135868
	Iron	4860	5000	97	90 - 110	P	05/21/2025	16:02	LB135868
	Lead	4810	5000	96	90 - 110	P	05/21/2025	16:02	LB135868
	Magnesium	24000	25000	96	90 - 110	P	05/21/2025	16:02	LB135868
	Manganese	2390	2500	96	90 - 110	P	05/21/2025	16:02	LB135868
	Nickel	2400	2500	96	90 - 110	P	05/21/2025	16:02	LB135868
	Potassium	23900	25000	96	90 - 110	P	05/21/2025	16:02	LB135868
	Selenium	4790	5000	96	90 - 110	P	05/21/2025	16:02	LB135868
	Silver	1220	1250	98	90 - 110	P	05/21/2025	16:02	LB135868
	Sodium	23600	25000	94	90 - 110	P	05/21/2025	16:02	LB135868
	Thallium	4670	5000	93	90 - 110	P	05/21/2025	16:02	LB135868
	Vanadium	2420	2500	97	90 - 110	P	05/21/2025	16:02	LB135868
	Zinc	2460	2500	98	90 - 110	P	05/21/2025	16:02	LB135868
CCV04	Aluminum	9550	10000	96	90 - 110	P	05/21/2025	17:27	LB135868
	Antimony	4750	5000	95	90 - 110	P	05/21/2025	17:27	LB135868

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith SDG No.: Q2074
 Contract: CAMP02 Lab Code: CHEM Case No.: Q2074 SAS No.: Q2074
 Initial Calibration Source: EPA
 Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV04	Arsenic	4680	5000	94	90 - 110	P	05/21/2025	17:27	LB135868
	Barium	9490	10000	95	90 - 110	P	05/21/2025	17:27	LB135868
	Beryllium	244	250	98	90 - 110	P	05/21/2025	17:27	LB135868
	Cadmium	2370	2500	95	90 - 110	P	05/21/2025	17:27	LB135868
	Calcium	24000	25000	96	90 - 110	P	05/21/2025	17:27	LB135868
	Chromium	961	1000	96	90 - 110	P	05/21/2025	17:27	LB135868
	Cobalt	2370	2500	95	90 - 110	P	05/21/2025	17:27	LB135868
	Copper	1190	1250	96	90 - 110	P	05/21/2025	17:27	LB135868
	Iron	4790	5000	96	90 - 110	P	05/21/2025	17:27	LB135868
	Lead	4790	5000	96	90 - 110	P	05/21/2025	17:27	LB135868
	Magnesium	23900	25000	96	90 - 110	P	05/21/2025	17:27	LB135868
	Manganese	2420	2500	97	90 - 110	P	05/21/2025	17:27	LB135868
	Nickel	2380	2500	95	90 - 110	P	05/21/2025	17:27	LB135868
	Potassium	23400	25000	94	90 - 110	P	05/21/2025	17:27	LB135868
	Selenium	4700	5000	94	90 - 110	P	05/21/2025	17:27	LB135868
	Silver	1200	1250	96	90 - 110	P	05/21/2025	17:27	LB135868
	Sodium	23500	25000	94	90 - 110	P	05/21/2025	17:27	LB135868
	Thallium	4790	5000	96	90 - 110	P	05/21/2025	17:27	LB135868
	Vanadium	2410	2500	96	90 - 110	P	05/21/2025	17:27	LB135868
	Zinc	2440	2500	97	90 - 110	P	05/21/2025	17:27	LB135868
CCV05	Aluminum	9490	10000	95	90 - 110	P	05/21/2025	18:16	LB135868
	Antimony	4730	5000	94	90 - 110	P	05/21/2025	18:16	LB135868
	Arsenic	4730	5000	95	90 - 110	P	05/21/2025	18:16	LB135868
	Barium	9440	10000	94	90 - 110	P	05/21/2025	18:16	LB135868
	Beryllium	244	250	98	90 - 110	P	05/21/2025	18:16	LB135868
	Cadmium	2410	2500	96	90 - 110	P	05/21/2025	18:16	LB135868
	Calcium	24100	25000	96	90 - 110	P	05/21/2025	18:16	LB135868
	Chromium	984	1000	98	90 - 110	P	05/21/2025	18:16	LB135868
	Cobalt	2400	2500	96	90 - 110	P	05/21/2025	18:16	LB135868
	Copper	1200	1250	96	90 - 110	P	05/21/2025	18:16	LB135868
	Iron	4870	5000	97	90 - 110	P	05/21/2025	18:16	LB135868
	Lead	4830	5000	97	90 - 110	P	05/21/2025	18:16	LB135868
	Magnesium	24300	25000	97	90 - 110	P	05/21/2025	18:16	LB135868
	Manganese	2400	2500	96	90 - 110	P	05/21/2025	18:16	LB135868

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith SDG No.: Q2074
 Contract: CAMP02 Lab Code: CHEM Case No.: Q2074 SAS No.: Q2074
 Initial Calibration Source: EPA
 Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV05	Nickel	2410	2500	96	90 - 110	P	05/21/2025	18:16	LB135868
	Potassium	23500	25000	94	90 - 110	P	05/21/2025	18:16	LB135868
	Selenium	4720	5000	94	90 - 110	P	05/21/2025	18:16	LB135868
	Silver	1210	1250	96	90 - 110	P	05/21/2025	18:16	LB135868
	Sodium	23400	25000	94	90 - 110	P	05/21/2025	18:16	LB135868
	Thallium	4710	5000	94	90 - 110	P	05/21/2025	18:16	LB135868
	Vanadium	2400	2500	96	90 - 110	P	05/21/2025	18:16	LB135868
	Zinc	2430	2500	97	90 - 110	P	05/21/2025	18:16	LB135868
CCV06	Aluminum	9730	10000	97	90 - 110	P	05/21/2025	19:08	LB135868
	Antimony	4880	5000	98	90 - 110	P	05/21/2025	19:08	LB135868
	Arsenic	4940	5000	99	90 - 110	P	05/21/2025	19:08	LB135868
	Barium	9570	10000	96	90 - 110	P	05/21/2025	19:08	LB135868
	Beryllium	252	250	101	90 - 110	P	05/21/2025	19:08	LB135868
	Cadmium	2500	2500	100	90 - 110	P	05/21/2025	19:08	LB135868
	Calcium	24600	25000	98	90 - 110	P	05/21/2025	19:08	LB135868
	Chromium	1010	1000	101	90 - 110	P	05/21/2025	19:08	LB135868
	Cobalt	2480	2500	99	90 - 110	P	05/21/2025	19:08	LB135868
	Copper	1240	1250	99	90 - 110	P	05/21/2025	19:08	LB135868
	Iron	4970	5000	99	90 - 110	P	05/21/2025	19:08	LB135868
	Lead	4990	5000	100	90 - 110	P	05/21/2025	19:08	LB135868
	Magnesium	24800	25000	99	90 - 110	P	05/21/2025	19:08	LB135868
	Manganese	2430	2500	97	90 - 110	P	05/21/2025	19:08	LB135868
	Nickel	2490	2500	100	90 - 110	P	05/21/2025	19:08	LB135868
	Potassium	24000	25000	96	90 - 110	P	05/21/2025	19:08	LB135868
	Selenium	4940	5000	99	90 - 110	P	05/21/2025	19:08	LB135868
	Silver	1240	1250	100	90 - 110	P	05/21/2025	19:08	LB135868
	Sodium	23600	25000	95	90 - 110	P	05/21/2025	19:08	LB135868
	Thallium	4910	5000	98	90 - 110	P	05/21/2025	19:08	LB135868
	Vanadium	2450	2500	98	90 - 110	P	05/21/2025	19:08	LB135868
	Zinc	2490	2500	100	90 - 110	P	05/21/2025	19:08	LB135868
CCV07	Aluminum	9730	10000	97	90 - 110	P	05/21/2025	19:57	LB135868
	Antimony	4920	5000	98	90 - 110	P	05/21/2025	19:57	LB135868
	Arsenic	4940	5000	99	90 - 110	P	05/21/2025	19:57	LB135868
	Barium	9580	10000	96	90 - 110	P	05/21/2025	19:57	LB135868

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith SDG No.: Q2074
 Contract: CAMP02 Lab Code: CHEM Case No.: Q2074 SAS No.: Q2074
 Initial Calibration Source: EPA
 Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV07	Beryllium	253	250	101	90 - 110	P	05/21/2025	19:57	LB135868
	Cadmium	2480	2500	99	90 - 110	P	05/21/2025	19:57	LB135868
	Calcium	24400	25000	98	90 - 110	P	05/21/2025	19:57	LB135868
	Chromium	1000	1000	100	90 - 110	P	05/21/2025	19:57	LB135868
	Cobalt	2460	2500	98	90 - 110	P	05/21/2025	19:57	LB135868
	Copper	1240	1250	99	90 - 110	P	05/21/2025	19:57	LB135868
	Iron	4920	5000	98	90 - 110	P	05/21/2025	19:57	LB135868
	Lead	4950	5000	99	90 - 110	P	05/21/2025	19:57	LB135868
	Magnesium	24600	25000	98	90 - 110	P	05/21/2025	19:57	LB135868
	Manganese	2440	2500	98	90 - 110	P	05/21/2025	19:57	LB135868
	Nickel	2470	2500	99	90 - 110	P	05/21/2025	19:57	LB135868
	Potassium	23800	25000	95	90 - 110	P	05/21/2025	19:57	LB135868
	Selenium	4970	5000	99	90 - 110	P	05/21/2025	19:57	LB135868
	Silver	1240	1250	99	90 - 110	P	05/21/2025	19:57	LB135868
	Sodium	23600	25000	94	90 - 110	P	05/21/2025	19:57	LB135868
	Thallium	4860	5000	97	90 - 110	P	05/21/2025	19:57	LB135868
	Vanadium	2440	2500	98	90 - 110	P	05/21/2025	19:57	LB135868
	Zinc	2490	2500	100	90 - 110	P	05/21/2025	19:57	LB135868
CCV08	Aluminum	9510	10000	95	90 - 110	P	05/21/2025	20:43	LB135868
	Antimony	4770	5000	95	90 - 110	P	05/21/2025	20:43	LB135868
	Arsenic	4800	5000	96	90 - 110	P	05/21/2025	20:43	LB135868
	Barium	9410	10000	94	90 - 110	P	05/21/2025	20:43	LB135868
	Beryllium	251	250	100	90 - 110	P	05/21/2025	20:43	LB135868
	Cadmium	2410	2500	96	90 - 110	P	05/21/2025	20:43	LB135868
	Calcium	23800	25000	95	90 - 110	P	05/21/2025	20:43	LB135868
	Chromium	974	1000	97	90 - 110	P	05/21/2025	20:43	LB135868
	Cobalt	2390	2500	96	90 - 110	P	05/21/2025	20:43	LB135868
	Copper	1210	1250	97	90 - 110	P	05/21/2025	20:43	LB135868
	Iron	4720	5000	94	90 - 110	P	05/21/2025	20:43	LB135868
	Lead	4820	5000	96	90 - 110	P	05/21/2025	20:43	LB135868
	Magnesium	24100	25000	96	90 - 110	P	05/21/2025	20:43	LB135868
	Manganese	2390	2500	96	90 - 110	P	05/21/2025	20:43	LB135868
	Nickel	2410	2500	96	90 - 110	P	05/21/2025	20:43	LB135868
	Potassium	22800	25000	91	90 - 110	P	05/21/2025	20:43	LB135868

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith SDG No.: Q2074
 Contract: CAMP02 Lab Code: CHEM Case No.: Q2074 SAS No.: Q2074
 Initial Calibration Source: EPA
 Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV08	Selenium	4820	5000	96	90 - 110	P	05/21/2025	20:43	LB135868
	Silver	1210	1250	97	90 - 110	P	05/21/2025	20:43	LB135868
	Sodium	22600	25000	90	90 - 110	P	05/21/2025	20:43	LB135868
	Thallium	4730	5000	95	90 - 110	P	05/21/2025	20:43	LB135868
	Vanadium	2380	2500	95	90 - 110	P	05/21/2025	20:43	LB135868
	Zinc	2430	2500	97	90 - 110	P	05/21/2025	20:43	LB135868
CCV09	Aluminum	9620	10000	96	90 - 110	P	05/21/2025	21:29	LB135868
	Antimony	4780	5000	96	90 - 110	P	05/21/2025	21:29	LB135868
	Arsenic	4790	5000	96	90 - 110	P	05/21/2025	21:29	LB135868
	Barium	9430	10000	94	90 - 110	P	05/21/2025	21:29	LB135868
	Beryllium	258	250	103	90 - 110	P	05/21/2025	21:29	LB135868
	Cadmium	2440	2500	98	90 - 110	P	05/21/2025	21:29	LB135868
	Calcium	24400	25000	98	90 - 110	P	05/21/2025	21:29	LB135868
	Chromium	993	1000	99	90 - 110	P	05/21/2025	21:29	LB135868
	Cobalt	2420	2500	97	90 - 110	P	05/21/2025	21:29	LB135868
	Copper	1200	1250	96	90 - 110	P	05/21/2025	21:29	LB135868
	Iron	4750	5000	95	90 - 110	P	05/21/2025	21:29	LB135868
	Lead	4890	5000	98	90 - 110	P	05/21/2025	21:29	LB135868
	Magnesium	24800	25000	99	90 - 110	P	05/21/2025	21:29	LB135868
	Manganese	2440	2500	98	90 - 110	P	05/21/2025	21:29	LB135868
	Nickel	2430	2500	97	90 - 110	P	05/21/2025	21:29	LB135868
	Potassium	22800	25000	91	90 - 110	P	05/21/2025	21:29	LB135868
	Selenium	4790	5000	96	90 - 110	P	05/21/2025	21:29	LB135868
	Silver	1220	1250	98	90 - 110	P	05/21/2025	21:29	LB135868
	Sodium	22400	25000	90	90 - 110	P	05/21/2025	21:29	LB135868
	Thallium	4830	5000	96	90 - 110	P	05/21/2025	21:29	LB135868
	Vanadium	2430	2500	97	90 - 110	P	05/21/2025	21:29	LB135868
	Zinc	2450	2500	98	90 - 110	P	05/21/2025	21:29	LB135868
CCV10	Aluminum	9690	10000	97	90 - 110	P	05/21/2025	21:50	LB135868
	Antimony	4860	5000	97	90 - 110	P	05/21/2025	21:50	LB135868
	Arsenic	4860	5000	97	90 - 110	P	05/21/2025	21:50	LB135868
	Barium	9420	10000	94	90 - 110	P	05/21/2025	21:50	LB135868
	Beryllium	259	250	104	90 - 110	P	05/21/2025	21:50	LB135868
	Cadmium	2430	2500	97	90 - 110	P	05/21/2025	21:50	LB135868

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2074
Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2074 **SAS No.:** Q2074
Initial Calibration Source: EPA
Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV10	Calcium	24200	25000	97	90 - 110	P	05/21/2025	21:50	LB135868
	Chromium	987	1000	99	90 - 110	P	05/21/2025	21:50	LB135868
	Cobalt	2430	2500	97	90 - 110	P	05/21/2025	21:50	LB135868
	Copper	1230	1250	98	90 - 110	P	05/21/2025	21:50	LB135868
	Iron	4730	5000	95	90 - 110	P	05/21/2025	21:50	LB135868
	Lead	4870	5000	97	90 - 110	P	05/21/2025	21:50	LB135868
	Magnesium	24500	25000	98	90 - 110	P	05/21/2025	21:50	LB135868
	Manganese	2420	2500	97	90 - 110	P	05/21/2025	21:50	LB135868
	Nickel	2430	2500	97	90 - 110	P	05/21/2025	21:50	LB135868
	Potassium	22800	25000	91	90 - 110	P	05/21/2025	21:50	LB135868
	Selenium	4860	5000	97	90 - 110	P	05/21/2025	21:50	LB135868
	Silver	1230	1250	99	90 - 110	P	05/21/2025	21:50	LB135868
	Sodium	22500	25000	90	90 - 110	P	05/21/2025	21:50	LB135868
	Thallium	4830	5000	97	90 - 110	P	05/21/2025	21:50	LB135868
	Vanadium	2420	2500	97	90 - 110	P	05/21/2025	21:50	LB135868
	Zinc	2470	2500	99	90 - 110	P	05/21/2025	21:50	LB135868

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2074
Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2074 **SAS No.:** Q2074
Initial Calibration Source: EPA
Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Aluminum	2480	2500	99	90 - 110	P	05/22/2025	15:00	LB135892
	Antimony	1010	1000	101	90 - 110	P	05/22/2025	15:00	LB135892
	Arsenic	1040	1000	104	90 - 110	P	05/22/2025	15:00	LB135892
	Barium	521	520	100	90 - 110	P	05/22/2025	15:00	LB135892
	Beryllium	477	510	93	90 - 110	P	05/22/2025	15:00	LB135892
	Cadmium	516	510	101	90 - 110	P	05/22/2025	15:00	LB135892
	Calcium	10000	10000	100	90 - 110	P	05/22/2025	15:00	LB135892
	Chromium	532	520	102	90 - 110	P	05/22/2025	15:00	LB135892
	Cobalt	520	520	100	90 - 110	P	05/22/2025	15:00	LB135892
	Copper	540	510	106	90 - 110	P	05/22/2025	15:00	LB135892
	Iron	10900	10000	109	90 - 110	P	05/22/2025	15:00	LB135892
	Lead	1000	1000	100	90 - 110	P	05/22/2025	15:00	LB135892
	Magnesium	5830	6000	97	90 - 110	P	05/22/2025	15:00	LB135892
	Manganese	515	520	99	90 - 110	P	05/22/2025	15:00	LB135892
	Nickel	522	530	98	90 - 110	P	05/22/2025	15:00	LB135892
	Potassium	10300	9900	104	90 - 110	P	05/22/2025	15:00	LB135892
	Selenium	1070	1000	107	90 - 110	P	05/22/2025	15:00	LB135892
	Silver	268	250	107	90 - 110	P	05/22/2025	15:00	LB135892
	Sodium	10500	10000	105	90 - 110	P	05/22/2025	15:00	LB135892
	Thallium	1070	1000	107	90 - 110	P	05/22/2025	15:00	LB135892
	Vanadium	498	500	100	90 - 110	P	05/22/2025	15:00	LB135892
	Zinc	1060	1000	106	90 - 110	P	05/22/2025	15:00	LB135892

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith SDG No.: Q2074
Contract: CAMP02 Lab Code: CHEM Case No.: Q2074 SAS No.: Q2074
Initial Calibration Source: EPA
Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV01	Aluminum	115	100	115	80 - 120	P	05/22/2025	15:16	LB135892
	Antimony	53.5	50.0	107	80 - 120	P	05/22/2025	15:16	LB135892
	Arsenic	17.6	20.0	88	80 - 120	P	05/22/2025	15:16	LB135892
	Barium	105	100	106	80 - 120	P	05/22/2025	15:16	LB135892
	Beryllium	5.98	6.0	100	80 - 120	P	05/22/2025	15:16	LB135892
	Cadmium	6.24	6.0	104	80 - 120	P	05/22/2025	15:16	LB135892
	Calcium	2100	2000	105	80 - 120	P	05/22/2025	15:16	LB135892
	Chromium	9.86	10.0	99	80 - 120	P	05/22/2025	15:16	LB135892
	Cobalt	30.5	30.0	102	80 - 120	P	05/22/2025	15:16	LB135892
	Copper	23.9	20.0	120	80 - 120	P	05/22/2025	15:16	LB135892
	Iron	113	100	113	80 - 120	P	05/22/2025	15:16	LB135892
	Lead	11.1	12.0	93	80 - 120	P	05/22/2025	15:16	LB135892
	Magnesium	2170	2000	109	80 - 120	P	05/22/2025	15:16	LB135892
	Manganese	21.7	20.0	108	80 - 120	P	05/22/2025	15:16	LB135892
	Nickel	40.8	40.0	102	80 - 120	P	05/22/2025	15:16	LB135892
	Potassium	2080	2000	104	80 - 120	P	05/22/2025	15:16	LB135892
	Selenium	18.4	20.0	92	80 - 120	P	05/22/2025	15:16	LB135892
	Silver	9.74	10.0	97	80 - 120	P	05/22/2025	15:16	LB135892
	Sodium	2120	2000	106	80 - 120	P	05/22/2025	15:16	LB135892
	Thallium	40.8	40.0	102	80 - 120	P	05/22/2025	15:16	LB135892
	Vanadium	42.5	40.0	106	80 - 120	P	05/22/2025	15:16	LB135892
	Zinc	45.4	40.0	114	80 - 120	P	05/22/2025	15:16	LB135892

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith SDG No.: Q2074
 Contract: CAMP02 Lab Code: CHEM Case No.: Q2074 SAS No.: Q2074
 Initial Calibration Source: EPA
 Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Aluminum	9520	10000	95	90 - 110	P	05/22/2025	15:51	LB135892
	Antimony	4890	5000	98	90 - 110	P	05/22/2025	15:51	LB135892
	Arsenic	4830	5000	97	90 - 110	P	05/22/2025	15:51	LB135892
	Barium	10000	10000	100	90 - 110	P	05/22/2025	15:51	LB135892
	Beryllium	227	250	91	90 - 110	P	05/22/2025	15:51	LB135892
	Cadmium	2370	2500	95	90 - 110	P	05/22/2025	15:51	LB135892
	Calcium	24000	25000	96	90 - 110	P	05/22/2025	15:51	LB135892
	Chromium	962	1000	96	90 - 110	P	05/22/2025	15:51	LB135892
	Cobalt	2380	2500	95	90 - 110	P	05/22/2025	15:51	LB135892
	Copper	1220	1250	98	90 - 110	P	05/22/2025	15:51	LB135892
	Iron	5070	5000	102	90 - 110	P	05/22/2025	15:51	LB135892
	Lead	4780	5000	96	90 - 110	P	05/22/2025	15:51	LB135892
	Magnesium	23500	25000	94	90 - 110	P	05/22/2025	15:51	LB135892
	Manganese	2380	2500	95	90 - 110	P	05/22/2025	15:51	LB135892
	Nickel	2380	2500	95	90 - 110	P	05/22/2025	15:51	LB135892
	Potassium	24900	25000	100	90 - 110	P	05/22/2025	15:51	LB135892
	Selenium	4870	5000	97	90 - 110	P	05/22/2025	15:51	LB135892
	Silver	1210	1250	97	90 - 110	P	05/22/2025	15:51	LB135892
	Sodium	25300	25000	101	90 - 110	P	05/22/2025	15:51	LB135892
	Thallium	4880	5000	98	90 - 110	P	05/22/2025	15:51	LB135892
	Vanadium	2430	2500	97	90 - 110	P	05/22/2025	15:51	LB135892
	Zinc	2430	2500	97	90 - 110	P	05/22/2025	15:51	LB135892
CCV02	Aluminum	9600	10000	96	90 - 110	P	05/22/2025	16:38	LB135892
	Antimony	4840	5000	97	90 - 110	P	05/22/2025	16:38	LB135892
	Arsenic	4820	5000	96	90 - 110	P	05/22/2025	16:38	LB135892
	Barium	9370	10000	94	90 - 110	P	05/22/2025	16:38	LB135892
	Beryllium	248	250	99	90 - 110	P	05/22/2025	16:38	LB135892
	Cadmium	2370	2500	95	90 - 110	P	05/22/2025	16:38	LB135892
	Calcium	23700	25000	95	90 - 110	P	05/22/2025	16:38	LB135892
	Chromium	961	1000	96	90 - 110	P	05/22/2025	16:38	LB135892
	Cobalt	2360	2500	94	90 - 110	P	05/22/2025	16:38	LB135892
	Copper	1220	1250	97	90 - 110	P	05/22/2025	16:38	LB135892
	Iron	4680	5000	94	90 - 110	P	05/22/2025	16:38	LB135892
	Lead	4770	5000	95	90 - 110	P	05/22/2025	16:38	LB135892

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith SDG No.: Q2074
Contract: CAMP02 Lab Code: CHEM Case No.: Q2074 SAS No.: Q2074
Initial Calibration Source: EPA
Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV02	Magnesium	23700	25000	95	90 - 110	P	05/22/2025	16:38	LB135892
	Manganese	2390	2500	96	90 - 110	P	05/22/2025	16:38	LB135892
	Nickel	2370	2500	95	90 - 110	P	05/22/2025	16:38	LB135892
	Potassium	23500	25000	94	90 - 110	P	05/22/2025	16:38	LB135892
	Selenium	4850	5000	97	90 - 110	P	05/22/2025	16:38	LB135892
	Silver	1200	1250	96	90 - 110	P	05/22/2025	16:38	LB135892
	Sodium	23300	25000	93	90 - 110	P	05/22/2025	16:38	LB135892
	Thallium	4850	5000	97	90 - 110	P	05/22/2025	16:38	LB135892
	Vanadium	2380	2500	95	90 - 110	P	05/22/2025	16:38	LB135892
	Zinc	2430	2500	97	90 - 110	P	05/22/2025	16:38	LB135892
CCV03	Aluminum	9210	10000	92	90 - 110	P	05/22/2025	17:28	LB135892
	Antimony	4660	5000	93	90 - 110	P	05/22/2025	17:28	LB135892
	Arsenic	4670	5000	94	90 - 110	P	05/22/2025	17:28	LB135892
	Barium	9340	10000	93	90 - 110	P	05/22/2025	17:28	LB135892
	Beryllium	235	250	94	90 - 110	P	05/22/2025	17:28	LB135892
	Cadmium	2340	2500	94	90 - 110	P	05/22/2025	17:28	LB135892
	Calcium	23300	25000	93	90 - 110	P	05/22/2025	17:28	LB135892
	Chromium	955	1000	96	90 - 110	P	05/22/2025	17:28	LB135892
	Cobalt	2330	2500	93	90 - 110	P	05/22/2025	17:28	LB135892
	Copper	1180	1250	94	90 - 110	P	05/22/2025	17:28	LB135892
	Iron	4760	5000	95	90 - 110	P	05/22/2025	17:28	LB135892
	Lead	4680	5000	94	90 - 110	P	05/22/2025	17:28	LB135892
	Magnesium	23300	25000	93	90 - 110	P	05/22/2025	17:28	LB135892
	Manganese	2340	2500	94	90 - 110	P	05/22/2025	17:28	LB135892
	Nickel	2330	2500	93	90 - 110	P	05/22/2025	17:28	LB135892
	Potassium	23200	25000	93	90 - 110	P	05/22/2025	17:28	LB135892
	Selenium	4680	5000	94	90 - 110	P	05/22/2025	17:28	LB135892
	Silver	1170	1250	94	90 - 110	P	05/22/2025	17:28	LB135892
	Sodium	23300	25000	93	90 - 110	P	05/22/2025	17:28	LB135892
	Thallium	4710	5000	94	90 - 110	P	05/22/2025	17:28	LB135892
	Vanadium	2330	2500	93	90 - 110	P	05/22/2025	17:28	LB135892
	Zinc	2350	2500	94	90 - 110	P	05/22/2025	17:28	LB135892
CCV04	Aluminum	9970	10000	100	90 - 110	P	05/22/2025	19:08	LB135892
	Antimony	4920	5000	98	90 - 110	P	05/22/2025	19:08	LB135892

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2074
Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2074 **SAS No.:** Q2074
Initial Calibration Source: EPA
Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV04	Arsenic	4980	5000	100	90 - 110	P	05/22/2025	19:08	LB135892
	Barium	10100	10000	102	90 - 110	P	05/22/2025	19:08	LB135892
	Beryllium	258	250	103	90 - 110	P	05/22/2025	19:08	LB135892
	Cadmium	2420	2500	97	90 - 110	P	05/22/2025	19:08	LB135892
	Calcium	25200	25000	101	90 - 110	P	05/22/2025	19:08	LB135892
	Chromium	996	1000	100	90 - 110	P	05/22/2025	19:08	LB135892
	Cobalt	2440	2500	97	90 - 110	P	05/22/2025	19:08	LB135892
	Copper	1250	1250	100	90 - 110	P	05/22/2025	19:08	LB135892
	Iron	4880	5000	98	90 - 110	P	05/22/2025	19:08	LB135892
	Lead	4830	5000	97	90 - 110	P	05/22/2025	19:08	LB135892
	Magnesium	24800	25000	99	90 - 110	P	05/22/2025	19:08	LB135892
	Manganese	2450	2500	98	90 - 110	P	05/22/2025	19:08	LB135892
	Nickel	2440	2500	98	90 - 110	P	05/22/2025	19:08	LB135892
	Potassium	24000	25000	96	90 - 110	P	05/22/2025	19:08	LB135892
	Selenium	4980	5000	100	90 - 110	P	05/22/2025	19:08	LB135892
	Silver	1250	1250	100	90 - 110	P	05/22/2025	19:08	LB135892
	Sodium	24500	25000	98	90 - 110	P	05/22/2025	19:08	LB135892
	Thallium	4730	5000	95	90 - 110	P	05/22/2025	19:08	LB135892
	Vanadium	2490	2500	100	90 - 110	P	05/22/2025	19:08	LB135892
	Zinc	2520	2500	101	90 - 110	P	05/22/2025	19:08	LB135892

Metals

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CRDL STANDARD FOR AA & ICP

Client: CDM Smith **SDG No.:** Q2074
Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2074 **SAS No.:** Q2074
Initial Calibration Source: _____
Continuing Calibration Source: _____

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRA	Mercury	0.19	0.2	93	70 - 130	CV	05/20/2025	13:07	LB135837
CRI01	Aluminum	112	100	112	65 - 135	P	05/21/2025	13:43	LB135868
	Antimony	51.3	50.0	102	65 - 135	P	05/21/2025	13:43	LB135868
	Arsenic	17.9	20.0	89	65 - 135	P	05/21/2025	13:43	LB135868
	Barium	90.3	100	90	65 - 135	P	05/21/2025	13:43	LB135868
	Beryllium	5.78	6.0	96	65 - 135	P	05/21/2025	13:43	LB135868
	Cadmium	6.27	6.0	104	65 - 135	P	05/21/2025	13:43	LB135868
	Calcium	2000	2000	100	65 - 135	P	05/21/2025	13:43	LB135868
	Chromium	10.6	10.0	106	65 - 135	P	05/21/2025	13:43	LB135868
	Cobalt	30.1	30.0	100	65 - 135	P	05/21/2025	13:43	LB135868
	Copper	22.4	20.0	112	65 - 135	P	05/21/2025	13:43	LB135868
	Iron	106	100	106	65 - 135	P	05/21/2025	13:43	LB135868
	Lead	11.1	12.0	92	65 - 135	P	05/21/2025	13:43	LB135868
	Magnesium	2060	2000	103	65 - 135	P	05/21/2025	13:43	LB135868
	Manganese	21.7	20.0	108	65 - 135	P	05/21/2025	13:43	LB135868
	Nickel	40.1	40.0	100	65 - 135	P	05/21/2025	13:43	LB135868
	Potassium	1970	2000	99	65 - 135	P	05/21/2025	13:43	LB135868
	Selenium	18.3	20.0	92	65 - 135	P	05/21/2025	13:43	LB135868
	Silver	10.2	10.0	102	65 - 135	P	05/21/2025	13:43	LB135868
	Sodium	1940	2000	97	65 - 135	P	05/21/2025	13:43	LB135868
	Thallium	39.5	40.0	99	65 - 135	P	05/21/2025	13:43	LB135868
	Vanadium	41.3	40.0	103	65 - 135	P	05/21/2025	13:43	LB135868
	Zinc	43.4	40.0	109	65 - 135	P	05/21/2025	13:43	LB135868
CRI01	Aluminum	113	100	113	65 - 135	P	05/22/2025	15:30	LB135892
	Antimony	53.4	50.0	107	65 - 135	P	05/22/2025	15:30	LB135892
	Arsenic	19.7	20.0	98	65 - 135	P	05/22/2025	15:30	LB135892
	Barium	109	100	109	65 - 135	P	05/22/2025	15:30	LB135892
	Beryllium	6.25	6.0	104	65 - 135	P	05/22/2025	15:30	LB135892
	Cadmium	6.20	6.0	103	65 - 135	P	05/22/2025	15:30	LB135892
	Calcium	2170	2000	109	65 - 135	P	05/22/2025	15:30	LB135892
	Chromium	10.5	10.0	105	65 - 135	P	05/22/2025	15:30	LB135892
	Cobalt	31.3	30.0	104	65 - 135	P	05/22/2025	15:30	LB135892
	Copper	23.5	20.0	118	65 - 135	P	05/22/2025	15:30	LB135892
	Iron	114	100	114	65 - 135	P	05/22/2025	15:30	LB135892
	Lead	12.1	12.0	101	65 - 135	P	05/22/2025	15:30	LB135892

Metals

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CRDL STANDARD FOR AA & ICP

Client: CDM Smith **SDG No.:** Q2074
Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2074 **SAS No.:** Q2074
Initial Calibration Source: _____
Continuing Calibration Source: _____

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRI01	Magnesium	2280	2000	114	65 - 135	P	05/22/2025	15:30	LB135892
	Manganese	22.1	20.0	110	65 - 135	P	05/22/2025	15:30	LB135892
	Nickel	41.4	40.0	104	65 - 135	P	05/22/2025	15:30	LB135892
	Potassium	2080	2000	104	65 - 135	P	05/22/2025	15:30	LB135892
	Selenium	15.4	20.0	77	65 - 135	P	05/22/2025	15:30	LB135892
	Silver	10.1	10.0	101	65 - 135	P	05/22/2025	15:30	LB135892
	Sodium	2090	2000	104	65 - 135	P	05/22/2025	15:30	LB135892
	Thallium	41.1	40.0	103	65 - 135	P	05/22/2025	15:30	LB135892
	Vanadium	43.9	40.0	110	65 - 135	P	05/22/2025	15:30	LB135892
	Zinc	46.0	40.0	115	65 - 135	P	05/22/2025	15:30	LB135892

Metals
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INTERFERENCE CHECK SAMPLE

Client: CDM Smith **SDG No.:** Q2074
Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2074 **SAS No.:** Q2074
ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSA01	Aluminum	245000	255000	96	216000	294000	05/21/2025	13:52	LB135868
	Antimony	0.020			-50	50	05/21/2025	13:52	LB135868
	Arsenic	4.10			-20	20	05/21/2025	13:52	LB135868
	Barium	1.83	6.0	30	-94	106	05/21/2025	13:52	LB135868
	Beryllium	0.65			-6	6	05/21/2025	13:52	LB135868
	Cadmium	2.19	1.0	219	-5	7	05/21/2025	13:52	LB135868
	Calcium	228000	245000	93	208000	282000	05/21/2025	13:52	LB135868
	Chromium	55.3	52.0	106	42	62	05/21/2025	13:52	LB135868
	Cobalt	1.60			-30	30	05/21/2025	13:52	LB135868
	Copper	3.11	2.0	156	-18	22	05/21/2025	13:52	LB135868
	Iron	91300	101000	90	85600	116500	05/21/2025	13:52	LB135868
	Lead	4.38			-12	12	05/21/2025	13:52	LB135868
	Magnesium	247000	255000	97	216000	294000	05/21/2025	13:52	LB135868
	Manganese	6.34	7.0	91	-13	27	05/21/2025	13:52	LB135868
	Nickel	2.07	2.0	104	-38	42	05/21/2025	13:52	LB135868
	Potassium	-53.4			0	0	05/21/2025	13:52	LB135868
	Selenium	-13.8			-20	20	05/21/2025	13:52	LB135868
	Silver	-0.79			-10	10	05/21/2025	13:52	LB135868
	Sodium	4.13			0	0	05/21/2025	13:52	LB135868
	Thallium	5.93			-40	40	05/21/2025	13:52	LB135868
	Vanadium	2.52			-40	40	05/21/2025	13:52	LB135868
	Zinc	4.13			-40	40	05/21/2025	13:52	LB135868
ICSAB01	Aluminum	239000	247000	97	209000	285000	05/21/2025	13:56	LB135868
	Antimony	593	618	96	525	711	05/21/2025	13:56	LB135868
	Arsenic	108	104	104	88.4	120	05/21/2025	13:56	LB135868
	Barium	447	537	83	437	637	05/21/2025	13:56	LB135868
	Beryllium	469	495	95	420	570	05/21/2025	13:56	LB135868
	Cadmium	960	972	99	826	1120	05/21/2025	13:56	LB135868
	Calcium	224000	235000	95	199000	271000	05/21/2025	13:56	LB135868
	Chromium	526	542	97	460	624	05/21/2025	13:56	LB135868
	Cobalt	473	476	99	404	548	05/21/2025	13:56	LB135868
	Copper	471	511	92	434	588	05/21/2025	13:56	LB135868
	Iron	91200	99300	92	84400	114500	05/21/2025	13:56	LB135868
	Lead	48.7	49.0	99	37	61	05/21/2025	13:56	LB135868
	Magnesium	239000	248000	96	210000	286000	05/21/2025	13:56	LB135868
	Manganese	456	507	90	430	584	05/21/2025	13:56	LB135868
	Nickel	931	954	98	810	1100	05/21/2025	13:56	LB135868
	Potassium	-57.5			0	0	05/21/2025	13:56	LB135868
	Selenium	33.9	46.0	74	26	66	05/21/2025	13:56	LB135868
	Silver	215	201	107	170	232	05/21/2025	13:56	LB135868
	Sodium	-38.7			0	0	05/21/2025	13:56	LB135868
	Thallium	103	108	95	68	148	05/21/2025	13:56	LB135868

Metals
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INTERFERENCE CHECK SAMPLE

Client: CDM Smith **SDG No.:** Q2074
Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2074 **SAS No.:** Q2074
ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSAB01	Vanadium	447	491	91	417	565	05/21/2025	13:56	LB135868
	Zinc	967	952	102	809	1095	05/21/2025	13:56	LB135868
ICSA01	Aluminum	267000	255000	105	216000	294000	05/22/2025	15:34	LB135892
	Antimony	-3.61			-50	50	05/22/2025	15:34	LB135892
	Arsenic	1.77			-20	20	05/22/2025	15:34	LB135892
	Barium	7.57	6.0	126	-94	106	05/22/2025	15:34	LB135892
	Beryllium	0.62			-6	6	05/22/2025	15:34	LB135892
	Cadmium	-0.11	1.0	11	-5	7	05/22/2025	15:34	LB135892
	Calcium	257000	245000	105	208000	282000	05/22/2025	15:34	LB135892
	Chromium	59.5	52.0	114	42	62	05/22/2025	15:34	LB135892
	Cobalt	1.57			-30	30	05/22/2025	15:34	LB135892
	Copper	1.51	2.0	76	-18	22	05/22/2025	15:34	LB135892
	Iron	107000	101000	106	85600	116500	05/22/2025	15:34	LB135892
	Lead	5.66			-12	12	05/22/2025	15:34	LB135892
	Magnesium	274000	255000	108	216000	294000	05/22/2025	15:34	LB135892
	Manganese	14.6	7.0	209	-13	27	05/22/2025	15:34	LB135892
	Nickel	2.35	2.0	118	-38	42	05/22/2025	15:34	LB135892
	Potassium	-12.1			0	0	05/22/2025	15:34	LB135892
	Selenium	4.71			-20	20	05/22/2025	15:34	LB135892
	Silver	-1.36			-10	10	05/22/2025	15:34	LB135892
	Sodium	14.1			0	0	05/22/2025	15:34	LB135892
	Thallium	9.78			-40	40	05/22/2025	15:34	LB135892
	Vanadium	3.74			-40	40	05/22/2025	15:34	LB135892
	Zinc	3.58			-40	40	05/22/2025	15:34	LB135892
ICSAB01	Aluminum	239000	247000	97	209000	285000	05/22/2025	15:39	LB135892
	Antimony	594	618	96	525	711	05/22/2025	15:39	LB135892
	Arsenic	107	104	103	88.4	120	05/22/2025	15:39	LB135892
	Barium	505	537	94	437	637	05/22/2025	15:39	LB135892
	Beryllium	477	495	96	420	570	05/22/2025	15:39	LB135892
	Cadmium	965	972	99	826	1120	05/22/2025	15:39	LB135892
	Calcium	232000	235000	99	199000	271000	05/22/2025	15:39	LB135892
	Chromium	554	542	102	460	624	05/22/2025	15:39	LB135892
	Cobalt	489	476	103	404	548	05/22/2025	15:39	LB135892
	Copper	489	511	96	434	588	05/22/2025	15:39	LB135892
	Iron	101000	99300	102	84400	114500	05/22/2025	15:39	LB135892
	Lead	51.7	49.0	106	37	61	05/22/2025	15:39	LB135892
	Magnesium	247000	248000	100	210000	286000	05/22/2025	15:39	LB135892
	Manganese	498	507	98	430	584	05/22/2025	15:39	LB135892
	Nickel	969	954	102	810	1100	05/22/2025	15:39	LB135892
	Potassium	14.2			0	0	05/22/2025	15:39	LB135892
	Selenium	56.0	46.0	122	26	66	05/22/2025	15:39	LB135892
	Silver	222	201	110	170	232	05/22/2025	15:39	LB135892

Metals
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INTERFERENCE CHECK SAMPLE

Client: CDM Smith **SDG No.:** Q2074
Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2074 **SAS No.:** Q2074
ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSAB01	Sodium	-3.31			0	0	05/22/2025	15:39	LB135892
	Thallium	112	108	104	68	148	05/22/2025	15:39	LB135892
	Vanadium	483	491	98	417	565	05/22/2025	15:39	LB135892
	Zinc	1030	952	108	809	1095	05/22/2025	15:39	LB135892



METAL QC DATA

metals
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MATRIX SPIKE SUMMARY

client: CDM Smith	level: low	sdg no.: Q2074
contract: CAMP02	lab code: CHEM	case no.: Q2074 sas no.: Q2074
matrix: Solid	sample id: Q2074-08	client id: TP-18MS
Percent Solids for Sample: 78	Spiked ID: Q2074-08MS	Percent Solids for Spike Sample: 78

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.30		0.030		0.33	83		CV

metals
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MATRIX SPIKE DUPLICATE SUMMARY

client:	<u>CDM Smith</u>	level:	<u>low</u>	sdg no.:	<u>Q2074</u>	
contract:	<u>CAMP02</u>	lab code:	<u>CHEM</u>	case no.:	<u>Q2074</u>	sas no.: <u>Q2074</u>
matrix:	<u>Solid</u>	sample id:	<u>Q2074-08</u>	client id:	<u>TP-18MSD</u>	
Percent Solids for Sample:	<u>78</u>	Spiked ID:	<u>Q2074-08MSD</u>	Percent Solids for Spike Sample:	<u>78</u>	

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.34		0.030		0.33	94		CV

metals
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MATRIX SPIKE SUMMARY

client: CDM Smith **level:** low **sdg no.:** Q2074
contract: CAMP02 **lab code:** CHEM **case no.:** Q2074 **sas no.:** Q2074
matrix: Solid **sample id:** Q2080-01 **client id:** PL-HRH-COMP-01MS
Percent Solids for Sample: 86.5 **Spiked ID:** Q2080-01MS **Percent Solids for Spike Sample:** 86.5

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	11400		9940		110	1374		P
Antimony	mg/Kg	75 - 125	15.4		2.51	U	42.8	36	N	P
Arsenic	mg/Kg	75 - 125	40.6		5.09		42.8	83		P
Barium	mg/Kg	75 - 125	94.4		86.8		10.7	71		P
Beryllium	mg/Kg	75 - 125	9.99		0.78		10.7	86		P
Cadmium	mg/Kg	75 - 125	10.2		0.097	J	10.7	95		P
Calcium	mg/Kg	75 - 125	987		906		53.5	151		P
Chromium	mg/Kg	75 - 125	37.1		18.4		21.4	87		P
Cobalt	mg/Kg	75 - 125	20.9		10.1		10.7	102		P
Copper	mg/Kg	75 - 125	23.8		9.77		16.1	87		P
Iron	mg/Kg	75 - 125	21000		22500		160	-974		P
Lead	mg/Kg	75 - 125	74.3		23.7		53.5	95		P
Magnesium	mg/Kg	75 - 125	4060		3360		110	639		P
Manganese	mg/Kg	75 - 125	620		615		10.7	51		P
Nickel	mg/Kg	75 - 125	46.3		18.9		26.8	102		P
Potassium	mg/Kg	75 - 125	1450		858		540	109		P
Selenium	mg/Kg	75 - 125	84.7		2.06		110	75		P
Silver	mg/Kg	75 - 125	3.49		0.14	J	4.0	84		P
Sodium	mg/Kg	75 - 125	253		98.7	J	160	97		P
Thallium	mg/Kg	75 - 125	97.3		1.68	J	110	87		P
Vanadium	mg/Kg	75 - 125	38.3		24.9		16.1	83		P
Zinc	mg/Kg	75 - 125	68.6		53.0		10.7	146		P

metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: CDM Smith **level:** low **sdg no.:** Q2074
contract: CAMP02 **lab code:** CHEM **case no.:** Q2074 **sas no.:** Q2074
matrix: Solid **sample id:** Q2080-01 **client id:** PL-HRH-COMP-01MSD
Percent Solids for Sample: 86.5 **Spiked ID:** Q2080-01MSD **Percent Solids for Spike Sample:** 86.5

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	11300		9940		98.4	1413		P
Antimony	mg/Kg	75 - 125	14.5		2.51	U	39.4	37	N	P
Arsenic	mg/Kg	75 - 125	37.1		5.09		39.4	81		P
Barium	mg/Kg	75 - 125	96.8		86.8		9.8	102		P
Beryllium	mg/Kg	75 - 125	8.28		0.78		9.8	77		P
Cadmium	mg/Kg	75 - 125	9.13		0.097	J	9.8	92		P
Calcium	mg/Kg	75 - 125	957		906		49.2	104		P
Chromium	mg/Kg	75 - 125	35.6		18.4		19.7	87		P
Cobalt	mg/Kg	75 - 125	20.8		10.1		9.8	109		P
Copper	mg/Kg	75 - 125	22.2		9.77		14.8	84		P
Iron	mg/Kg	75 - 125	23300		22500		150	538		P
Lead	mg/Kg	75 - 125	69.7		23.7		49.2	94		P
Magnesium	mg/Kg	75 - 125	4070		3360		98.4	727		P
Manganese	mg/Kg	75 - 125	564		615		9.8	-519		P
Nickel	mg/Kg	75 - 125	45.6		18.9		24.6	109		P
Potassium	mg/Kg	75 - 125	1560		858		490	144	N	P
Selenium	mg/Kg	75 - 125	77.6		2.06		98.4	77		P
Silver	mg/Kg	75 - 125	3.56		0.14	J	3.7	92		P
Sodium	mg/Kg	75 - 125	261		98.7	J	150	108		P
Thallium	mg/Kg	75 - 125	91.3		1.68	J	98.4	91		P
Vanadium	mg/Kg	75 - 125	36.5		24.9		14.8	78		P
Zinc	mg/Kg	75 - 125	69.2		53.0		9.8	165		P

Metals
- 5b -
POST DIGEST SPIKE SUMMARY

Client: CDM Smith	SDG No.: Q2074	
Contract: CAMP02	Lab Code: CHEM	Case No.: Q2074 SAS No.: Q2074
Matrix: Solid	Level: LOW	Client ID: PL-HRH-COMP-01A
Sample ID: Q2080-01	Spiked ID: Q2080-01A	

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Antimony	mg/Kg	75 - 125	2.51	U	2.51	U	40.2	0	N	P
Potassium	mg/Kg	75 - 125	857		858		500	0	N	P

Metals

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DUPLICATE SAMPLE SUMMARY

Client:	<u>CDM Smith</u>	Level:	<u>LOW</u>	SDG No.:	<u>Q2074</u>
Contract:	<u>CAMP02</u>	Lab Code:	<u>CHEM</u>	Case No.:	<u>Q2074</u>
Matrix:	<u>Solid</u>	Sample ID:	<u>Q2074-08</u>	Client ID:	<u>TP-18DUP</u>
Percent Solids for Sample:	<u>78</u>	Duplicate ID	<u>Q2074-08DUP</u>	Percent Solids for Spike Sample:	<u>78</u>

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	mg/Kg	20	0.030		0.024		22		CV

Metals

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DUPLICATE SAMPLE SUMMARY

Client:	<u>CDM Smith</u>	Level:	<u>LOW</u>	SDG No.:	<u>Q2074</u>
Contract:	<u>CAMP02</u>	Lab Code:	<u>CHEM</u>	Case No.:	<u>Q2074</u>
Matrix:	<u>Solid</u>	Sample ID:	<u>Q2074-08MS</u>	Client ID:	<u>TP-18MSD</u>
Percent Solids for Sample:	<u>78</u>	Duplicate ID	<u>Q2074-08MSD</u>	Percent Solids for Spike Sample:	<u>78</u>

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	mg/Kg	20	0.30		0.34		11		CV

Metals

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DUPLICATE SAMPLE SUMMARY

Client: CDM Smith **Level:** LOW **SDG No.:** Q2074
Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2074 **SAS No.:** Q2074
Matrix: Solid **Sample ID:** Q2080-01 **Client ID:** PL-HRH-COMP-01DUP
Percent Solids for Sample: 86.5 **Duplicate ID** Q2080-01DUP **Percent Solids for Spike Sample:** 86.5

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg	20	9940		9540		4		P
Antimony	mg/Kg	20	2.51	U	2.74	U			P
Arsenic	mg/Kg	20	5.09		2.98		52	*	P
Barium	mg/Kg	20	86.8		84.4		3		P
Beryllium	mg/Kg	20	0.78		0.63		20		P
Cadmium	mg/Kg	20	0.097	J	0.33	U	200.0		P
Calcium	mg/Kg	20	906		875		3		P
Chromium	mg/Kg	20	18.4		12.9		35	*	P
Cobalt	mg/Kg	20	10.1		9.33		7		P
Copper	mg/Kg	20	9.77		8.49		14		P
Iron	mg/Kg	20	22500		13800		48	*	P
Lead	mg/Kg	20	23.7		21.4		10		P
Magnesium	mg/Kg	20	3360		3430		2		P
Manganese	mg/Kg	20	615		579		6		P
Nickel	mg/Kg	20	18.9		17.7		7		P
Potassium	mg/Kg	20	858		876		2		P
Selenium	mg/Kg	20	2.06		1.08	J	62		P
Silver	mg/Kg	20	0.14	J	0.16	J	14		P
Sodium	mg/Kg	20	98.7	J	93.9	J	5		P
Thallium	mg/Kg	20	1.68	J	0.77	J	74		P
Vanadium	mg/Kg	20	24.9		16.5		41	*	P
Zinc	mg/Kg	20	53.0		53.0		0		P

Metals

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DUPLICATE SAMPLE SUMMARY

Client: CDM Smith **Level:** LOW **SDG No.:** Q2074
Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2074 **SAS No.:** Q2074
Matrix: Solid **Sample ID:** Q2080-01MS **Client ID:** PL-HRH-COMP-01MSD
Percent Solids for Sample: 86.5 **Duplicate ID** Q2080-01MSD **Percent Solids for Spike Sample:** 86.5

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg	20	11400		11300		1		P
Antimony	mg/Kg	20	15.4		14.5		6		P
Arsenic	mg/Kg	20	40.6		37.1		9		P
Barium	mg/Kg	20	94.4		96.8		3		P
Beryllium	mg/Kg	20	9.99		8.28		19		P
Cadmium	mg/Kg	20	10.2		9.13		11		P
Calcium	mg/Kg	20	987		957		3		P
Chromium	mg/Kg	20	37.1		35.6		4		P
Cobalt	mg/Kg	20	20.9		20.8		0		P
Copper	mg/Kg	20	23.8		22.2		7		P
Iron	mg/Kg	20	21000		23300		10		P
Lead	mg/Kg	20	74.3		69.7		6		P
Magnesium	mg/Kg	20	4060		4070		0		P
Manganese	mg/Kg	20	620		564		9		P
Nickel	mg/Kg	20	46.3		45.6		2		P
Potassium	mg/Kg	20	1450		1560		7		P
Selenium	mg/Kg	20	84.7		77.6		9		P
Silver	mg/Kg	20	3.49		3.56		2		P
Sodium	mg/Kg	20	253		261		3		P
Thallium	mg/Kg	20	97.3		91.3		6		P
Vanadium	mg/Kg	20	38.3		36.5		5		P
Zinc	mg/Kg	20	68.6		69.2		1		P

Metals

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LABORATORY CONTROL SAMPLE SUMMARY

Client: CDM Smith **SDG No.:** Q2074
Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2074 **SAS No.:** Q2074

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB168087BS							
Aluminum	mg/Kg	100	90.2		90	80 - 120	P
Antimony	mg/Kg	40.0	38.5		96	80 - 120	P
Arsenic	mg/Kg	40.0	38.6		96	80 - 120	P
Barium	mg/Kg	10.0	8.52		85	80 - 120	P
Beryllium	mg/Kg	10.0	9.28		93	80 - 120	P
Cadmium	mg/Kg	10.0	9.65		96	80 - 120	P
Calcium	mg/Kg	50.0	45.1	J	90	80 - 120	P
Chromium	mg/Kg	20.0	19.0		95	80 - 120	P
Cobalt	mg/Kg	10.0	9.30		93	80 - 120	P
Copper	mg/Kg	15.0	14.6		97	80 - 120	P
Iron	mg/Kg	150	140		93	80 - 120	P
Lead	mg/Kg	50.0	46.6		93	80 - 120	P
Magnesium	mg/Kg	100	90.0	J	90	80 - 120	P
Manganese	mg/Kg	10.0	9.14		91	80 - 120	P
Nickel	mg/Kg	25.0	23.5		94	80 - 120	P
Potassium	mg/Kg	500	439		88	80 - 120	P
Selenium	mg/Kg	100	97.9		98	80 - 120	P
Silver	mg/Kg	3.8	3.54		93	80 - 120	P
Sodium	mg/Kg	150	137		91	80 - 120	P
Thallium	mg/Kg	100	94.2		94	80 - 120	P
Vanadium	mg/Kg	15.0	13.7		91	80 - 120	P
Zinc	mg/Kg	10.0	9.45		94	80 - 120	P

Metals

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LABORATORY CONTROL SAMPLE SUMMARY

Client: CDM Smith **SDG No.:** Q2074
Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2074 **SAS No.:** Q2074

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB168090BS Mercury	mg/Kg	0.26	0.26		100	80 - 120	CV

Metals
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ICP SERIAL DILUTIONS

SAMPLE NO.

TP-18L

Lab Name: Chemtech Consulting Group **Contract:** CAMP02
Lab Code: CHEM **Lb No.:** lb135837 **Lab Sample ID :** Q2074-08L **SDG No.:** Q2074
Matrix (soil/water): Solid **Level (low/med):** LOW
Concentration Units: mg/Kg

Analyte	Initial Sample Result (I) C	Serial Dilution Result (S) C	% Differ- ence	Q	M
Mercury	0.030	0.083 U	100.0		CV

Metals
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ICP SERIAL DILUTIONS

SAMPLE NO.

PL-HRH-COMP-01L

Lab Name: Chemtech Consulting Group

Contract: CAMP02

Lab Code: CHEM Lb No.: lb135892 Lab Sample ID : Q2080-01L SDG No.: Q2074

Matrix (soil/water): Solid Level (low/med): LOW

Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)		Serial Dilution Result (S)		% Differ-ence	Q	M
Aluminum	9940		10700		8		P
Antimony	2.51	U	12.6	U			P
Arsenic	5.09		4.51	J	11		P
Barium	86.8		92.6		7		P
Beryllium	0.78		0.91	J	18		P
Cadmium	0.097	J	1.51	U	100.0		P
Calcium	906		1010		12		P
Chromium	18.4		20.0		9		P
Cobalt	10.1		9.78		3		P
Copper	9.77		11.6		19		P
Iron	22500		23800		6		P
Lead	23.7		23.5		1		P
Magnesium	3360		3730		11		P
Manganese	615		682		11		P
Nickel	18.9		18.7		1		P
Potassium	858		840		2		P
Selenium	2.06		2.19	J	6		P
Silver	0.14	J	2.51	U	100.0		P
Sodium	98.7	J	503	U	100.0		P
Thallium	1.68	J	1.60	J	5		P
Vanadium	24.9		27.7		11		P
Zinc	53.0		58.6		10		P

metals
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ANALYSIS RUN LOG

Client: CDM Smith **Contract:** CAMP02

Lab code: CHEM **Case no.:** Q2074 **Sas no.:** Q2074 **Sdg no.:** Q2074

Instrument id number: **Method:** **Run number:** LB135837

Start date: 05/20/2025 **End date:** 05/20/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1243	HG
S0.2	S0.2	1	1245	HG
S2.5	S2.5	1	1248	HG
S5	S5	1	1250	HG
S7.5	S7.5	1	1252	HG
S10	S10	1	1255	HG
ICV12	ICV12	1	1258	HG
ICB12	ICB12	1	1300	HG
CCV45	CCV45	1	1303	HG
CCB45	CCB45	1	1305	HG
CRA	CRA	1	1307	HG
CCV46	CCV46	1	1333	HG
CCB46	CCB46	1	1335	HG
PB168090BL	PB168090BL	1	1356	HG
PB168090BS	PB168090BS	1	1358	HG
CCV47	CCV47	1	1401	HG
CCB47	CCB47	1	1403	HG
Q2074-01	TP-12	1	1417	HG
Q2074-02	TP-7	1	1420	HG
Q2074-03	TP-15	1	1422	HG
Q2074-04	TP-20	1	1424	HG
Q2074-05	TP-38	1	1427	HG
CCV48	CCV48	1	1429	HG
CCB48	CCB48	1	1431	HG
Q2074-06	TP-19	1	1433	HG
Q2074-07	TP-40	1	1436	HG
Q2074-08	TP-18	1	1438	HG
Q2074-08DUP	TP-18DUP	1	1440	HG
Q2074-08MS	TP-18MS	1	1442	HG
Q2074-08MSD	TP-18MSD	1	1445	HG
CCV49	CCV49	1	1452	HG
CCB49	CCB49	1	1454	HG
Q2074-08L	TP-18L	5	1501	HG
CCV50	CCV50	1	1505	HG
CCB50	CCB50	1	1508	HG

metals
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ANALYSIS RUN LOG

Client: CDM Smith **Contract:** CAMP02

Lab code: CHEM **Case no.:** Q2074 **Sas no.:** Q2074 **Sdg no.:** Q2074

Instrument id number: **Method:** **Run number:** LB135868

Start date: 05/21/2025 **End date:** 05/21/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1205	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S1	S1	1	1209	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S2	S2	1	1213	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S3	S3	1	1217	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S4	S4	1	1222	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S5	S5	1	1226	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICV01	ICV01	1	1319	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
LLICV01	LLICV01	1	1329	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICB01	ICB01	1	1336	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CRI01	CRI01	1	1343	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSA01	ICSA01	1	1352	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSAB01	ICSAB01	1	1356	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV01	CCV01	1	1409	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB01	CCB01	1	1413	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV02	CCV02	1	1500	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB02	CCB02	1	1504	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV03	CCV03	1	1602	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB03	CCB03	1	1625	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB168087BL	PB168087BL	1	1710	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB168087BS	PB168087BS	1	1715	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV04	CCV04	1	1727	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB04	CCB04	1	1732	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV05	CCV05	1	1816	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB05	CCB05	1	1820	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV06	CCV06	1	1908	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB06	CCB06	1	1916	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2074-01	TP-12	1	1936	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2074-02	TP-7	1	1941	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2074-03	TP-15	1	1945	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2074-04	TP-20	1	1949	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2074-05	TP-38	1	1953	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV07	CCV07	1	1957	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB07	CCB07	1	2002	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2074-06	TP-19	1	2006	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2074-07	TP-40	1	2010	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2074-08	TP-18	1	2014	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV08	CCV08	1	2043	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB08	CCB08	1	2048	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV09	CCV09	1	2129	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB09	CCB09	1	2134	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV10	CCV10	1	2150	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

metals
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ANALYSIS RUN LOG

Client: CDM Smith

Contract: CAMP02

Lab code: CHEM **Case no.:** Q2074 **Sas no.:** Q2074

Sdg no.: Q2074

Instrument id number: **Method:**

Run number: LB135868

Start date: 05/21/2025 **End date:** 05/21/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
CCB10	CCB10	1	2154	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

metals
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ANALYSIS RUN LOG

Client: CDM Smith **Contract:** CAMP02

Lab code: CHEM **Case no.:** Q2074 **Sas no.:** Q2074 **Sdg no.:** Q2074

Instrument id number: **Method:** **Run number:** LB135892

Start date: 05/22/2025 **End date:** 05/22/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1420	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S1	S1	1	1425	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S2	S2	1	1429	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S3	S3	1	1433	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S4	S4	1	1437	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S5	S5	1	1442	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICV01	ICV01	1	1500	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
LLICV01	LLICV01	1	1516	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICB01	ICB01	1	1520	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CRI01	CRI01	1	1530	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSA01	ICSA01	1	1534	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSAB01	ICSAB01	1	1539	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV01	CCV01	1	1551	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB01	CCB01	1	1555	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2080-01DUP	PL-HRH-COMP-01DUP	1	1605	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2080-01L	PL-HRH-COMP-01L	5	1609	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2080-01MS	PL-HRH-COMP-01MS	1	1613	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2080-01MSD	PL-HRH-COMP-01MSD	1	1617	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2080-01A	PL-HRH-COMP-01A	1	1621	K,Sb
CCV02	CCV02	1	1638	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB02	CCB02	1	1643	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV03	CCV03	1	1728	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB03	CCB03	1	1732	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV04	CCV04	1	1908	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB04	CCB04	1	1912	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn



METAL PREPARATION & INSTRUMENT DATA

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: CDM Smith

SDG No.: Q2074

Contract: CAMP02

Lab Code: CHEM

Case No.: Q2074

SAS No.: Q2074

Instrument ID:

Date:

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interelement Correction Factors For:				
		Al	Ca	Fe	Mg	Ag
Aluminum	396.100	0.0000000	-0.0002060	0.0000000	0.0000000	0.0000000
Antimony	206.833	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	0.0000000	0.0000000	-0.0000440	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000930	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	-0.0075970	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0000000	0.0007850	0.0000000	0.0000000
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	-0.0000920	0.0000000	0.0000380	0.0000000	0.0000000
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	-0.0001440	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	-0.0001490	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0001050	0.0000000	0.0000000

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: CDM Smith

SDG No.: Q2074

Contract: CAMP02

Lab Code: CHEM

Case No.: Q2074

SAS No.: Q2074

Instrument ID:

Date:

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interelement Correction Factors For:				
		As	Ba	Be	Cd	Co
Aluminum	396.100	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.833	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0002870
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0000000	0.0000000	0.0000000	0.0009530
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	-0.0039600
Lead	220.353	0.0000000	0.0003170	0.0000000	0.0000000	0.0000000
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0000000	-0.0003570
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0054900
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Metals

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ICP INTERELEMEN CORRECTION FACTORS

Client: CDM Smith

SDG No.: Q2074

Contract: CAMP02

Lab Code: CHEM

Case No.: Q2074

SAS No.: Q2074

Instrument ID:

Date:

Interement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interement Correction Factors For:				
		Cr	Cu	K	Mn	Mo
Aluminum	396.100	0.0000000	0.0000000	0.0000590	0.0000000	0.0396900
Antimony	206.833	0.0122000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	-0.0029000	0.0000000	0.0000000	0.0000000	0.0004900
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	-0.0000710	-0.0003400
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000070	0.0002200	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	-0.0007860
Copper	224.700	0.0000000	0.0000000	0.0000000	0.0006510	0.0020500
Iron	240.488	0.0000000	0.0000000	0.0000730	0.0000000	-0.0015250
Lead	220.353	0.0000000	0.0000000	0.0000000	0.0001400	-0.0008600
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0007460	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000120
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0017400	-0.0100400
Vanadium	292.402	-0.0025100	0.0000000	0.0000000	0.0000000	-0.0072000
Zinc	213.800	0.0000000	0.0009010	0.0000000	0.0000000	0.0000000

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: CDM Smith

SDG No.: Q2074

Contract: CAMP02

Lab Code: CHEM

Case No.: Q2074

SAS No.: Q2074

Instrument ID:

Date:

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interement Correction Factors For:				
		Na	Ni	Pb	Sb	Se
Aluminum	396.100	0.0000000	0.0000000	0.0012800	0.0000000	0.0000000
Antimony	206.833	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	-0.0047000	0.0036100	0.0000000	0.0000000
Iron	240.488	0.0000000	-0.0017000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	0.0006580	0.0000000	0.0000000	0.0001290
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0003330	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0067600	0.0000000	0.0000000	0.0000000

Metals

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ICP INTERELEMEN CORRECTION FACTORS

Client: CDM Smith

SDG No.: Q2074

Contract: CAMP02

Lab Code: CHEM

Case No.: Q2074

SAS No.: Q2074

Instrument ID:

Date:

Interement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interement Correction Factors For:				
		Sn	Ti	Tl	V	Zn
Aluminum	396.100	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.833	-0.0035600	-0.0007970	0.0000000	-0.0018900	0.0000000
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000630	0.0001280	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0001110	0.0000000
Cobalt	228.616	0.0000000	0.0018800	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0003840	0.0000000	0.0000000	0.0000000
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	-0.0003610	0.0000000	0.0000000	0.0000000
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.068	0.0000000	-0.0007420	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	-0.0039700	0.0000000	-0.0115600	0.0000000
Vanadium	292.402	0.0000000	0.0005320	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

LAB CHRONICLE

OrderID:	Q2074	OrderDate:	5/16/2025 3:13:00 PM
Client:	CDM Smith	Project:	South River WM Replacement
Contact:	Marcie Ann Encinas	Location:	L31,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2074-01	TP-12	SOIL			05/15/25			05/16/25
			Metals ICP-TAL	6010D		05/20/25	05/21/25	
			Mercury	7471B		05/19/25	05/20/25	
Q2074-02	TP-7	SOIL			05/15/25			05/16/25
			Metals ICP-TAL	6010D		05/20/25	05/21/25	
			Mercury	7471B		05/19/25	05/20/25	
Q2074-03	TP-15	SOIL			05/15/25			05/16/25
			Metals ICP-TAL	6010D		05/20/25	05/21/25	
			Mercury	7471B		05/19/25	05/20/25	
Q2074-04	TP-20	SOIL			05/15/25			05/16/25
			Metals ICP-TAL	6010D		05/20/25	05/21/25	
			Mercury	7471B		05/19/25	05/20/25	
Q2074-05	TP-38	SOIL			05/15/25			05/16/25
			Metals ICP-TAL	6010D		05/20/25	05/21/25	
			Mercury	7471B		05/19/25	05/20/25	
Q2074-06	TP-19	SOIL			05/15/25			05/16/25
			Metals ICP-TAL	6010D		05/20/25	05/21/25	
			Mercury	7471B		05/19/25	05/20/25	
Q2074-07	TP-40	SOIL			05/15/25			05/16/25
			Metals ICP-TAL	6010D		05/20/25	05/21/25	
			Mercury	7471B		05/19/25	05/20/25	
Q2074-08	TP-18	SOIL			05/16/25			05/16/25
			Mercury	7471B		05/19/25	05/20/25	
			Metals ICP-TAL	6010D		05/20/25	05/21/25	



METAL PREPARATION & ANALYICAL SUMMARY

Metals

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SAMPLE PREPARATION SUMMARY

Client:	<u>CDM Smith</u>	SDG No.:	<u>Q2074</u>
Contract:	<u>CAMP02</u>	Lab Code:	<u>CHEM</u>
		Method:	<u></u>
		Case No.:	<u>Q2074</u>
		SAS No.:	<u>Q2074</u>

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB168087							
PB168087BL	PB168087BL	MB	SOLID	05/20/2025	2.00	100.0	100.00
PB168087BS	PB168087BS	LCS	SOLID	05/20/2025	2.00	100.0	100.00
Q2074-01	TP-12	SAM	SOLID	05/20/2025	2.37	100.0	83.50
Q2074-02	TP-7	SAM	SOLID	05/20/2025	2.22	100.0	88.70
Q2074-03	TP-15	SAM	SOLID	05/20/2025	2.19	100.0	87.00
Q2074-04	TP-20	SAM	SOLID	05/20/2025	2.24	100.0	84.30
Q2074-05	TP-38	SAM	SOLID	05/20/2025	2.19	100.0	81.90
Q2074-06	TP-19	SAM	SOLID	05/20/2025	2.38	100.0	85.90
Q2074-07	TP-40	SAM	SOLID	05/20/2025	2.15	100.0	89.20
Q2074-08	TP-18	SAM	SOLID	05/20/2025	2.09	100.0	78.00
Q2080-01DUP	PL-HRH-COMP-01DUP	DUP	SOLID	05/20/2025	2.11	100.0	86.50
Q2080-01MS	PL-HRH-COMP-01MS	MS	SOLID	05/20/2025	2.16	100.0	86.50
Q2080-01MSD	PL-HRH-COMP-01MSD	MSD	SOLID	05/20/2025	2.35	100.0	86.50

Metals

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SAMPLE PREPARATION SUMMARY

Client:	<u>CDM Smith</u>	SDG No.:	<u>Q2074</u>
Contract:	<u>CAMP02</u>	Lab Code:	<u>CHEM</u>
		Method:	<u></u>
		Case No.:	<u>Q2074</u>
		SAS No.:	<u>Q2074</u>

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB168090							
PB168090BL	PB168090BL	MB	SOLID	05/19/2025	0.54	35.0	100.00
PB168090BS	PB168090BS	LCS	SOLID	05/19/2025	0.54	35.0	100.00
Q2074-01	TP-12	SAM	SOLID	05/19/2025	0.56	35.0	83.50
Q2074-02	TP-7	SAM	SOLID	05/19/2025	0.51	35.0	88.70
Q2074-03	TP-15	SAM	SOLID	05/19/2025	0.57	35.0	87.00
Q2074-04	TP-20	SAM	SOLID	05/19/2025	0.60	35.0	84.30
Q2074-05	TP-38	SAM	SOLID	05/19/2025	0.51	35.0	81.90
Q2074-06	TP-19	SAM	SOLID	05/19/2025	0.53	35.0	85.90
Q2074-07	TP-40	SAM	SOLID	05/19/2025	0.60	35.0	89.20
Q2074-08	TP-18	SAM	SOLID	05/19/2025	0.54	35.0	78.00
Q2074-08DUP	TP-18DUP	DUP	SOLID	05/19/2025	0.56	35.0	78.00
Q2074-08MS	TP-18MS	MS	SOLID	05/19/2025	0.54	35.0	78.00
Q2074-08MSD	TP-18MSD	MSD	SOLID	05/19/2025	0.55	35.0	78.00

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QC Batch ID # LB135837

Review By	MOHAN	Review On	5/20/2025 5:33:01 PM
Supervise By	jaswal	Supervise On	5/20/2025 5:34:50 PM
STD. NAME	STD REF.#		
ICAL Standard	MP85701,MP85702,MP85703,MP85704,MP85705,MP85706		
ICV Standard	MP85707		
CCV Standard	MP85709		
ICSA Standard			
CRI Standard	MP85711		
LCS Standard			
Chk Standard	MP85708,MP85710,MP85712,MP85714		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	05/20/25 12:43		MOHAN	OK
2	S0.2	S0.2	CAL2	05/20/25 12:45		MOHAN	OK
3	S2.5	S2.5	CAL3	05/20/25 12:48		MOHAN	OK
4	S5	S5	CAL4	05/20/25 12:50		MOHAN	OK
5	S7.5	S7.5	CAL5	05/20/25 12:52		MOHAN	OK
6	S10	S10	CAL6	05/20/25 12:55		MOHAN	OK
7	ICV12	ICV12	ICV	05/20/25 12:58		MOHAN	OK
8	ICB12	ICB12	ICB	05/20/25 13:00		MOHAN	OK
9	CCV45	CCV45	CCV	05/20/25 13:03		MOHAN	OK
10	CCB45	CCB45	CCB	05/20/25 13:05		MOHAN	OK
11	CRA	CRA	CRDL	05/20/25 13:07		MOHAN	OK
12	HighStd	HighStd	HIGH STD	05/20/25 13:09		MOHAN	OK
13	ChkStd	ChkStd	SAM	05/20/25 13:12		MOHAN	OK
14	PB168089BL	PB168089BL	MB	05/20/25 13:17		MOHAN	OK
15	PB168089BS	PB168089BS	LCS	05/20/25 13:19		MOHAN	OK
16	Q2052-01	TP-B	SAM	05/20/25 13:21		MOHAN	OK
17	Q2052-01DUP	TP-BDUP	DUP	05/20/25 13:24		MOHAN	OK
18	Q2052-01MS	TP-BMS	MS	05/20/25 13:26		MOHAN	OK

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QC Batch ID # LB135837

Review By	MOHAN	Review On	5/20/2025 5:33:01 PM
Supervise By	jaswal	Supervise On	5/20/2025 5:34:50 PM
STD. NAME	STD REF.#		
ICAL Standard	MP85701,MP85702,MP85703,MP85704,MP85705,MP85706		
ICV Standard	MP85707		
CCV Standard	MP85709		
ICSA Standard			
CRI Standard	MP85711		
LCS Standard			
Chk Standard	MP85708,MP85710,MP85712,MP85714		

19	Q2052-01MSD	TP-BMSD	MSD	05/20/25 13:28		MOHAN	OK
20	Q2055-01	OR-02-051525	SAM	05/20/25 13:31		MOHAN	OK
21	CCV46	CCV46	CCV	05/20/25 13:33		MOHAN	OK
22	CCB46	CCB46	CCB	05/20/25 13:35		MOHAN	OK
23	Q2057-01	MH-L	SAM	05/20/25 13:38		MOHAN	OK
24	Q2062-01	L1-WC-1	SAM	05/20/25 13:40		MOHAN	OK
25	Q2062-05	L1-WC-2	SAM	05/20/25 13:42		MOHAN	OK
26	Q2062-09	L1-WC-3	SAM	05/20/25 13:45		MOHAN	OK
27	Q2062-13	L1-WC-4	SAM	05/20/25 13:47		MOHAN	OK
28	Q2062-17	L1-WC-5	SAM	05/20/25 13:49		MOHAN	OK
29	Q2062-21	L1-WC-6	SAM	05/20/25 13:51		MOHAN	OK
30	Q2068-01	LAW-25-0075	SAM	05/20/25 13:54		MOHAN	OK
31	PB168090BL	PB168090BL	MB	05/20/25 13:56		MOHAN	OK
32	PB168090BS	PB168090BS	LCS	05/20/25 13:58		MOHAN	OK
33	CCV47	CCV47	CCV	05/20/25 14:01		MOHAN	OK
34	CCB47	CCB47	CCB	05/20/25 14:03		MOHAN	OK
35	Q2071-01	L1-WC-7	SAM	05/20/25 14:05		MOHAN	OK
36	Q2071-05	L1-WC-8	SAM	05/20/25 14:08		MOHAN	OK
37	Q2071-09	L1-WC-9	SAM	05/20/25 14:10		MOHAN	OK
38	Q2071-13	L2-WC-5	SAM	05/20/25 14:13		MOHAN	OK

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QC Batch ID # LB135837

Review By	MOHAN	Review On	5/20/2025 5:33:01 PM
Supervise By	jaswal	Supervise On	5/20/2025 5:34:50 PM
STD. NAME	STD REF.#		
ICAL Standard	MP85701,MP85702,MP85703,MP85704,MP85705,MP85706		
ICV Standard	MP85707		
CCV Standard	MP85709		
ICSA Standard			
CRI Standard	MP85711		
LCS Standard			
Chk Standard	MP85708,MP85710,MP85712,MP85714		

39	Q2071-17	L2-WC-6	SAM	05/20/25 14:15		MOHAN	OK
40	Q2074-01	TP-12	SAM	05/20/25 14:17		MOHAN	OK
41	Q2074-02	TP-7	SAM	05/20/25 14:20		MOHAN	OK
42	Q2074-03	TP-15	SAM	05/20/25 14:22		MOHAN	OK
43	Q2074-04	TP-20	SAM	05/20/25 14:24		MOHAN	OK
44	Q2074-05	TP-38	SAM	05/20/25 14:27		MOHAN	OK
45	CCV48	CCV48	CCV	05/20/25 14:29		MOHAN	OK
46	CCB48	CCB48	CCB	05/20/25 14:31		MOHAN	OK
47	Q2074-06	TP-19	SAM	05/20/25 14:33		MOHAN	OK
48	Q2074-07	TP-40	SAM	05/20/25 14:36		MOHAN	OK
49	Q2074-08	TP-18	SAM	05/20/25 14:38		MOHAN	OK
50	Q2074-08DUP	TP-18DUP	DUP	05/20/25 14:40		MOHAN	OK
51	Q2074-08MS	TP-18MS	MS	05/20/25 14:42		MOHAN	OK
52	Q2074-08MSD	TP-18MSD	MSD	05/20/25 14:45		MOHAN	OK
53	Q2080-01	PL-HRH-COMP-01	SAM	05/20/25 14:47		MOHAN	OK
54	Q2080-07	PL-HRH-COMP-02	SAM	05/20/25 14:49		MOHAN	OK
55	CCV49	CCV49	CCV	05/20/25 14:52		MOHAN	OK
56	CCB49	CCB49	CCB	05/20/25 14:54		MOHAN	OK
57	Q2052-01L	TP-BL	SD	05/20/25 14:56		MOHAN	OK
58	Q2052-01A	TP-BA	PS	05/20/25 14:59		MOHAN	OK

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB135837

Review By	MOHAN	Review On	5/20/2025 5:33:01 PM
Supervise By	jaswal	Supervise On	5/20/2025 5:34:50 PM
STD. NAME	STD REF.#		
ICAL Standard	MP85701,MP85702,MP85703,MP85704,MP85705,MP85706		
ICV Standard	MP85707		
CCV Standard	MP85709		
ICSA Standard			
CRI Standard	MP85711		
LCS Standard			
Chk Standard	MP85708,MP85710,MP85712,MP85714		

59	Q2074-08L	TP-18L	SD	05/20/25 15:01		MOHAN	OK
60	Q2074-08A	TP-18A	PS	05/20/25 15:03		MOHAN	OK
61	CCV50	CCV50	CCV	05/20/25 15:05		MOHAN	OK
62	CCB50	CCB50	CCB	05/20/25 15:08		MOHAN	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB135868

Review By	Janvi	Review On	5/22/2025 2:51:30 PM
Supervise By	jaswal	Supervise On	5/22/2025 2:52:47 PM
STD. NAME	STD REF.#		
ICAL Standard	MP85545,MP85552,MP85549,MP85548,MP85547,MP85546		
ICV Standard	MP85553		
CCV Standard	MP85556		
ICSA Standard	MP85554,MP85555		
CRI Standard	MP85552		
LCS Standard			
Chk Standard	MP85557,MP85558		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	05/21/25 12:05		Kareem	OK
2	S1	S1	CAL2	05/21/25 12:09		Kareem	OK
3	S2	S2	CAL3	05/21/25 12:13		Kareem	OK
4	S3	S3	CAL4	05/21/25 12:17		Kareem	OK
5	S4	S4	CAL5	05/21/25 12:22		Kareem	OK
6	S5	S5	CAL6	05/21/25 12:26		Kareem	OK
7	ICV01	ICV01	ICV	05/21/25 13:19		Kareem	OK
8	LLICV01	LLICV01	LLICV	05/21/25 13:29		Kareem	OK
9	ICB01	ICB01	ICB	05/21/25 13:36		Kareem	OK
10	CRI01	CRI01	CRDL	05/21/25 13:43		Kareem	OK
11	ICSA01	ICSA01	ICSA	05/21/25 13:52		Kareem	OK
12	ICSAB01	ICSAB01	ICSAB	05/21/25 13:56		Kareem	OK
13	ICSADL	ICSADL	ICSA	05/21/25 14:00		Kareem	OK
14	ICSABDL	ICSABDL	ICSAB	05/21/25 14:05		Kareem	OK
15	CCV01	CCV01	CCV	05/21/25 14:09		Kareem	OK
16	CCB01	CCB01	CCB	05/21/25 14:13		Kareem	OK
17	Q2068-01	LAW-25-0075	SAM	05/21/25 14:17		Kareem	OK
18	Q2067-01	303-PPR-FRAC	SAM	05/21/25 14:22		Kareem	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB135868

Review By	Janvi	Review On	5/22/2025 2:51:30 PM
Supervise By	jaswal	Supervise On	5/22/2025 2:52:47 PM
STD. NAME	STD REF.#		
ICAL Standard	MP85545,MP85552,MP85549,MP85548,MP85547,MP85546		
ICV Standard	MP85553		
CCV Standard	MP85556		
ICSA Standard	MP85554,MP85555		
CRI Standard	MP85552		
LCS Standard			
Chk Standard	MP85557,MP85558		

19	Q2068-03DL	LAW-25-0074DL	SAM	05/21/25 14:26		Kareem	OK
20	Q2065-01	VACTRUCK-728068	SAM	05/21/25 14:30	Ca High	Kareem	Dilution
21	Q2090-01	001-WILLETS-PT-BL	SAM	05/21/25 14:35		Kareem	OK
22	Q2090-02	002-35TH-AVE(APR)	SAM	05/21/25 14:39		Kareem	OK
23	Q2090-02DUP	002-35TH-AVE(APR)	DUP	05/21/25 14:44		Kareem	OK
24	Q2090-02L	002-35TH-AVE(APR)	LS	05/21/25 14:48		Kareem	OK
25	Q2090-02MS	002-35TH-AVE(APR)	MS	05/21/25 14:52		Kareem	OK
26	Q2090-02MSD	002-35TH-AVE(APR)	MSD	05/21/25 14:56		Kareem	OK
27	CCV02	CCV02	CCV	05/21/25 15:00		Kareem	OK
28	CCB02	CCB02	CCB	05/21/25 15:04		Kareem	OK
29	Q2065-01DL	VACTRUCK-728068D	SAM	05/21/25 15:09	2X For Still High	Kareem	Dilution
30	Q2090-02A	002-35TH-AVE(APR)	PS	05/21/25 15:13		Kareem	OK
31	Q2065-01DL2	VACTRUCK-728068D	SAM	05/21/25 15:18	Bad Injection	Kareem	Not Ok
32	Q1984-05	OU4-PCS-TC-35-050	SAM	05/21/25 15:24		Kareem	OK
33	Q1984-07	OU4-TS-24-050725	SAM	05/21/25 15:28		Kareem	OK
34	Q1984-09	OU4-TS-25-050725	SAM	05/21/25 15:37		Kareem	OK
35	Q1984-11	OU4-TS-26-050725	SAM	05/21/25 15:41		Kareem	OK
36	Q1984-13	OU4-TS-27-050725	SAM	05/21/25 15:45		Kareem	OK
37	Q2065-01DL3	VACTRUCK-728068D	SAM	05/21/25 15:53	20X For Ca	Kareem	Confirms
38	Q1984-15	OU4-TS-28-050725	SAM	05/21/25 15:58		Kareem	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB135868

Review By	Janvi	Review On	5/22/2025 2:51:30 PM
Supervise By	jaswal	Supervise On	5/22/2025 2:52:47 PM
STD. NAME	STD REF.#		
ICAL Standard	MP85545,MP85552,MP85549,MP85548,MP85547,MP85546		
ICV Standard	MP85553		
CCV Standard	MP85556		
ICSA Standard	MP85554,MP85555		
CRI Standard	MP85552		
LCS Standard			
Chk Standard	MP85557,MP85558		

39	CCV03	CCV03	CCV	05/21/25 16:02		Kareem	OK
40	CCB03	CCB03	CCB	05/21/25 16:25		Kareem	OK
41	Q1984-15DUP	OU4-TS-28-050725D	DUP	05/21/25 16:29		Kareem	OK
42	Q1984-15L	OU4-TS-28-050725L	SD	05/21/25 16:34		Kareem	OK
43	Q1984-15MS	OU4-TS-28-050725M	MS	05/21/25 16:38		Kareem	OK
44	Q1984-15MSD	OU4-TS-28-050725M	MSD	05/21/25 16:42		Kareem	OK
45	Q1984-15A	OU4-TS-28-050725A	PS	05/21/25 16:46		Kareem	OK
46	PB168085BL	PB168085BL	MB	05/21/25 16:51		Kareem	OK
47	PB168085BS	PB168085BS	LCS	05/21/25 17:05		Kareem	OK
48	PB168087BL	PB168087BL	MB	05/21/25 17:10		Kareem	OK
49	PB168087BS	PB168087BS	LCS	05/21/25 17:15		Kareem	OK
50	PB168086BL	PB168086BL	MB	05/21/25 17:22		Kareem	OK
51	CCV04	CCV04	CCV	05/21/25 17:27		Kareem	OK
52	CCB04	CCB04	CCB	05/21/25 17:32		Kareem	OK
53	PB168086BS	PB168086BS	LCS	05/21/25 17:37		Kareem	OK
54	PB168107BL	PB168107BL	MB	05/21/25 17:41		Kareem	OK
55	PB168107BS	PB168107BS	LCS	05/21/25 17:45		Kareem	OK
56	PB168067TB	PB168067TB	MB	05/21/25 17:49		Kareem	OK
57	Q2071-04	L1-WC-7	SAM	05/21/25 17:53		Kareem	OK
58	Q2071-08	L1-WC-8	SAM	05/21/25 17:58		Kareem	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB135868

Review By	Janvi	Review On	5/22/2025 2:51:30 PM
Supervise By	jaswal	Supervise On	5/22/2025 2:52:47 PM
STD. NAME	STD REF.#		
ICAL Standard	MP85545,MP85552,MP85549,MP85548,MP85547,MP85546		
ICV Standard	MP85553		
CCV Standard	MP85556		
ICSA Standard	MP85554,MP85555		
CRI Standard	MP85552		
LCS Standard			
Chk Standard	MP85557,MP85558		

59	Q2071-12	L1-WC-9	SAM	05/21/25 18:02		Kareem	OK
60	Q2071-16	L2-WC-5	SAM	05/21/25 18:07		Kareem	OK
61	Q2071-20	L2-WC-6	SAM	05/21/25 18:11		Kareem	OK
62	CCV05	CCV05	CCV	05/21/25 18:16		Kareem	OK
63	CCB05	CCB05	CCB	05/21/25 18:20		Kareem	OK
64	Q2080-06	PL-HRH-COMP-01	SAM	05/21/25 18:24		Kareem	OK
65	Q2080-12	PL-HRH-COMP-02	SAM	05/21/25 18:29		Kareem	OK
66	Q2080-12DUP	PL-HRH-COMP-02DUP	DUP	05/21/25 18:33		Kareem	OK
67	Q2080-12L	PL-HRH-COMP-02L	SD	05/21/25 18:37		Kareem	OK
68	Q2080-12MS	PL-HRH-COMP-02MS	MS	05/21/25 18:42		Kareem	OK
69	Q2080-12MSD	PL-HRH-COMP-02MSD	MSD	05/21/25 18:46		Kareem	OK
70	Q2080-12A	PL-HRH-COMP-02A	PS	05/21/25 18:50		Kareem	OK
71	Q2070-01	CONCRETE-PAD-051	SAM	05/21/25 18:54		Kareem	OK
72	Q2071-01	L1-WC-7	SAM	05/21/25 18:59		Kareem	OK
73	CCV06	CCV06	CCV	05/21/25 19:08		Kareem	OK
74	CCB06	CCB06	CCB	05/21/25 19:16		Kareem	OK
75	Q2071-05	L1-WC-8	SAM	05/21/25 19:20		Kareem	OK
76	Q2071-09	L1-WC-9	SAM	05/21/25 19:24		Kareem	OK
77	Q2071-13	L2-WC-5	SAM	05/21/25 19:28		Kareem	OK
78	Q2071-17	L2-WC-6	SAM	05/21/25 19:32		Kareem	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB135868

Review By	Janvi	Review On	5/22/2025 2:51:30 PM
Supervise By	jaswal	Supervise On	5/22/2025 2:52:47 PM
STD. NAME	STD REF.#		
ICAL Standard	MP85545,MP85552,MP85549,MP85548,MP85547,MP85546		
ICV Standard	MP85553		
CCV Standard	MP85556		
ICSA Standard	MP85554,MP85555		
CRI Standard	MP85552		
LCS Standard			
Chk Standard	MP85557,MP85558		

79	Q2074-01	TP-12	SAM	05/21/25 19:36		Kareem	OK
80	Q2074-02	TP-7	SAM	05/21/25 19:41		Kareem	OK
81	Q2074-03	TP-15	SAM	05/21/25 19:45		Kareem	OK
82	Q2074-04	TP-20	SAM	05/21/25 19:49		Kareem	OK
83	Q2074-05	TP-38	SAM	05/21/25 19:53		Kareem	OK
84	CCV07	CCV07	CCV	05/21/25 19:57		Kareem	OK
85	CCB07	CCB07	CCB	05/21/25 20:02		Kareem	OK
86	Q2074-06	TP-19	SAM	05/21/25 20:06		Kareem	OK
87	Q2074-07	TP-40	SAM	05/21/25 20:10		Kareem	OK
88	Q2074-08	TP-18	SAM	05/21/25 20:14		Kareem	OK
89	Q2080-01	PL-HRH-COMP-01	SAM	05/21/25 20:19	Qc Missing	Kareem	Not Ok
90	Q2080-07	PL-HRH-COMP-02	SAM	05/21/25 20:23		Kareem	OK
91	Q2084-01	OR-640-COMP-66	SAM	05/21/25 20:27		Kareem	OK
92	Q2084-01DUP	OR-640-COMP-66DU	DUP	05/21/25 20:31	Wrong Qc Analyzed	Kareem	Not Ok
93	Q2084-01L	OR-640-COMP-66L	SD	05/21/25 20:35	Wrong Qc Analyzed	Kareem	Not Ok
94	Q2084-01MS	OR-640-COMP-66MS	MS	05/21/25 20:39	Wrong Qc Analyzed	Kareem	Not Ok
95	CCV08	CCV08	CCV	05/21/25 20:43		Kareem	OK
96	CCB08	CCB08	CCB	05/21/25 20:48		Kareem	OK
97	Q2084-01MSD	OR-640-COMP-66MS	MSD	05/21/25 20:52	CCV09 Na Fail , Wrong Qc Analyzed	Kareem	Not Ok

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB135868

Review By	Janvi	Review On	5/22/2025 2:51:30 PM
Supervise By	jaswal	Supervise On	5/22/2025 2:52:47 PM
STD. NAME	STD REF.#		
ICAL Standard	MP85545,MP85552,MP85549,MP85548,MP85547,MP85546		
ICV Standard	MP85553		
CCV Standard	MP85556		
ICSA Standard	MP85554,MP85555		
CRI Standard	MP85552		
LCS Standard			
Chk Standard	MP85557,MP85558		

98	Q2084-01A	OR-640-COMP-66A	PS	05/21/25 20:56	CCV09 Na Fail , Wrong Qc Analyzed	Kareem	Not Ok
99	Q2072-01	MW-2	SAM	05/21/25 21:00	CCV09 Na Fail	Kareem	Not Ok
100	Q2072-02	MW-3	SAM	05/21/25 21:04	CCV09 Na Fail	Kareem	Not Ok
101	Q2072-03	MW-4	SAM	05/21/25 21:08	CCV09 Na Fail	Kareem	Not Ok
102	Q2072-04	MW-6	SAM	05/21/25 21:13	CCV09 Na Fail	Kareem	Not Ok
103	Q2072-04DUP	MW-6DUP	DUP	05/21/25 21:17	CCV09 Na Fail	Kareem	Not Ok
104	Q2072-04L	MW-6L	SD	05/21/25 21:21	CCV09 Na Fail	Kareem	Not Ok
105	Q2072-04MS	MW-6MS	MS	05/21/25 21:25	CCV09 Na Fail	Kareem	Not Ok
106	CCV09	CCV09	CCV	05/21/25 21:29	Na Fail	Kareem	OK
107	CCB09	CCB09	CCB	05/21/25 21:34		Kareem	OK
108	Q2072-04MSD	MW-6MSD	MSD	05/21/25 21:38	CCV09 Na Fail	Kareem	Not Ok
109	Q2072-04A	MW-6A	PS	05/21/25 21:42	CCV09 Na Fail	Kareem	Not Ok
110	Q2072-05	FB	SAM	05/21/25 21:46	CCV09 Na Fail	Kareem	Not Ok
111	CCV10	CCV10	CCV	05/21/25 21:50		Kareem	OK
112	CCB10	CCB10	CCB	05/21/25 21:54		Kareem	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB135892

Review By	Janvi	Review On	5/27/2025 6:16:44 PM
Supervise By	jaswal	Supervise On	5/28/2025 12:46:23 AM
STD. NAME	STD REF.#		
ICAL Standard	MP85545,MP85552,MP85549,MP85548,MP85547,MP85546		
ICV Standard	MP85553		
CCV Standard	MP85556		
ICSA Standard	MP85554,MP85555		
CRI Standard			
LCS Standard			
Chk Standard	MP85552		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	05/22/25 14:20		Jaswal	OK
2	S1	S1	CAL2	05/22/25 14:25		Jaswal	OK
3	S2	S2	CAL3	05/22/25 14:29		Jaswal	OK
4	S3	S3	CAL4	05/22/25 14:33		Jaswal	OK
5	S4	S4	CAL5	05/22/25 14:37		Jaswal	OK
6	S5	S5	CAL6	05/22/25 14:42		Jaswal	OK
7	ICV01	ICV01	ICV	05/22/25 15:00		Jaswal	OK
8	LLICV01	LLICV01	LLICV	05/22/25 15:16		Jaswal	OK
9	ICB01	ICB01	ICB	05/22/25 15:20		Jaswal	OK
10	CRI01	CRI01	CRDL	05/22/25 15:30		Jaswal	OK
11	ICSA01	ICSA01	ICSA	05/22/25 15:34		Jaswal	OK
12	ICSAB01	ICSAB01	ICSAB	05/22/25 15:39		Jaswal	OK
13	ICSADL	ICSADL	ICSA	05/22/25 15:43		Jaswal	OK
14	ICSABDL	ICSABDL	ICSAB	05/22/25 15:47		Jaswal	OK
15	CCV01	CCV01	CCV	05/22/25 15:51		Jaswal	OK
16	CCB01	CCB01	CCB	05/22/25 15:55		Jaswal	OK
17	Q2080-01	PL-HRH-COMP-01	SAM	05/22/25 16:00		Jaswal	OK
18	Q2080-01DUP	PL-HRH-COMP-01DUP	DUP	05/22/25 16:05		Jaswal	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB135892

Review By	Janvi	Review On	5/27/2025 6:16:44 PM
Supervise By	jaswal	Supervise On	5/28/2025 12:46:23 AM
STD. NAME	STD REF.#		
ICAL Standard	MP85545,MP85552,MP85549,MP85548,MP85547,MP85546		
ICV Standard	MP85553		
CCV Standard	MP85556		
ICSA Standard	MP85554,MP85555		
CRI Standard			
LCS Standard			
Chk Standard	MP85552		

19	Q2080-01L	PL-HRH-COMP-01L	SD	05/22/25 16:09		Jaswal	OK
20	Q2080-01MS	PL-HRH-COMP-01MS	MS	05/22/25 16:13		Jaswal	OK
21	Q2080-01MSD	PL-HRH-COMP-01MSD	MSD	05/22/25 16:17		Jaswal	OK
22	Q2080-01A	PL-HRH-COMP-01A	PS	05/22/25 16:21		Jaswal	OK
23	PB168113BL	PB168113BL	MB	05/22/25 16:25		Jaswal	OK
24	PB168113BS	PB168113BS	LCS	05/22/25 16:29		Jaswal	OK
25	PB168106BL	PB168106BL	MB	05/22/25 16:33		Jaswal	OK
26	CCV02	CCV02	CCV	05/22/25 16:38		Jaswal	OK
27	CCB02	CCB02	CCB	05/22/25 16:43		Jaswal	OK
28	PB168106BS	PB168106BS	LCS	05/22/25 16:49		Jaswal	OK
29	PB168117BL	PB168117BL	MB	05/22/25 16:53		Jaswal	OK
30	PB168117BS	PB168117BS	LCS	05/22/25 16:57		Jaswal	OK
31	Q2078-03	WC-A4-04-C	SAM	05/22/25 17:01		Jaswal	OK
32	Q2078-07	WC-A4-05-C	SAM	05/22/25 17:06		Jaswal	OK
33	Q2078-11	WC-A1-06A-C	SAM	05/22/25 17:10		Jaswal	OK
34	Q2078-15	WC-A1-07A-C	SAM	05/22/25 17:14		Jaswal	OK
35	Q2078-19	WC-A4-06-C	SAM	05/22/25 17:19		Jaswal	OK
36	Q2079-03	WC-A2-01-C	SAM	05/22/25 17:23		Jaswal	OK
37	CCV03	CCV03	CCV	05/22/25 17:28		Jaswal	OK
38	CCB03	CCB03	CCB	05/22/25 17:32		Jaswal	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB135892

Review By	Janvi	Review On	5/27/2025 6:16:44 PM
Supervise By	jaswal	Supervise On	5/28/2025 12:46:23 AM

STD. NAME	STD REF.#
ICAL Standard	MP85545,MP85552,MP85549,MP85548,MP85547,MP85546
ICV Standard	MP85553
CCV Standard	MP85556
ICSA Standard	MP85554,MP85555
CRI Standard	
LCS Standard	
Chk Standard	MP85552

39	Q2079-07	WC-A2-02-C	SAM	05/22/25 17:36		Jaswal	OK
40	Q2079-11	WC-A2-03-C	SAM	05/22/25 17:41		Jaswal	OK
41	Q2084-05	OR-640-COMP-66	SAM	05/22/25 17:45		Jaswal	OK
42	Q2087-01	NB-07-05202025	SAM	05/22/25 17:49		Jaswal	OK
43	Q2087-03	NB-08-05202025	SAM	05/22/25 17:54		Jaswal	OK
44	Q2014-08	MOO-25-0145	SAM	05/22/25 17:58	Prep not assing	Jaswal	Not Ok
45	Q2092-02	VNJ-202	SAM	05/22/25 18:02		Jaswal	OK
46	Q2093-02	SOIL-DRUM	SAM	05/22/25 18:07		Jaswal	OK
47	Q2094-06	COMP-1	SAM	05/22/25 18:11		Jaswal	OK
48	CCV04	CCV04	CCV	05/22/25 19:08		Jaswal	OK
49	CCB04	CCB04	CCB	05/22/25 19:12		Jaswal	OK

SOP ID : M3050B-Digestion-20

SDG No : N/A

Matrix : SOIL

Pipette ID: ICP A

Balance ID : M SC-2

Filter paper ID : N/A

pH Strip ID : N/A

Hood ID : #3

Block ID: 1. HOT BLOCK #3 2. N/A

Start Digest Date: 05/20/2025 Time : 12:15 Temp : 96 °C

End Digest Date: 05/20/2025 Time : 14:20 Temp : 96 °C

Digestion tube ID: M6054

Block thermometer ID: MET-DIG. #3

Dig Technician Signature: SKS

Supervisor Signature: JGP

Temp : 1. 96°C 2. N/A

Standardized Name	MLS USED	STD REF. # FROM LOG
LFS-1	1.00	M6005
LFS-2	1.00	M6016
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Conc. HNO3	5.00	M6158
1:1 HNO3	10.00	MP84041
30% H2O2	3.00	M6125
Conc. HCL	10.00	M6151
PTFE Boiling Stones	N/A	M5581
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

HOT BLOCK#3 CELL#35 96 C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
05/20/25 15:20	SKS.mct.dig	JGP/Met lab
	Preparation Group	Analysis Group

Lab Sample ID	Client Sample ID	pH	Initial Weight (g)	Final Vol (ml)	Color Before	Color After	Texture	Artifact	Comment	Prep Pos
PB168087BL	PBS087	N/A	2.00	100	Colorless	Colorless	Fine	N/A	N/A	1
PB168087BS	LCS087	N/A	2.00	100	Colorless	Colorless	Fine	N/A	M6005,M6016	2
Q2068-01	LAW-25-0075	N/A	2.12	100	Brown	Yellow	Medium	N/A	N/A	3
Q2070-01	CONCRETE-PAD-05162025	N/A	2.36	100	Brown	Yellow	Medium	N/A	N/A	4
Q2071-01	L1-WC-7	N/A	2.14	100	Brown	Yellow	Medium	N/A	N/A	5
Q2071-05	L1-WC-8	N/A	2.13	100	Brown	Yellow	Medium	N/A	N/A	6
Q2071-09	L1-WC-9	N/A	2.36	100	Brown	Yellow	Medium	N/A	N/A	7
Q2071-13	L2-WC-5	N/A	2.36	100	Brown	Yellow	Medium	N/A	N/A	8
Q2071-17	L2-WC-6	N/A	2.35	100	Brown	Yellow	Medium	N/A	N/A	9
Q2074-01	TP-12	N/A	2.37	100	Brown	Yellow	Medium	N/A	N/A	10
Q2074-02	TP-7	N/A	2.22	100	Brown	Yellow	Medium	N/A	N/A	11
Q2074-03	TP-15	N/A	2.19	100	Brown	Yellow	Medium	N/A	N/A	12
Q2074-04	TP-20	N/A	2.24	100	Brown	Yellow	Medium	N/A	N/A	13
Q2074-05	TP-38	N/A	2.19	100	Brown	Yellow	Medium	N/A	N/A	14
Q2074-06	TP-19	N/A	2.38	100	Brown	Yellow	Medium	N/A	N/A	15
Q2074-07	TP-40	N/A	2.15	100	Brown	Yellow	Medium	N/A	N/A	16
Q2074-08	TP-18	N/A	2.09	100	Brown	Yellow	Medium	N/A	N/A	17
Q2080-01	PL-HRH-COMP-01	N/A	2.30	100	Brown	Yellow	Medium	N/A	N/A	18
Q2080-01MS	PL-HRH-COMP-01MS	N/A	2.16	100	Brown	Yellow	Medium	N/A	M6005,M6016	20
Q2080-01MSD	PL-HRH-COMP-01MSD	N/A	2.35	100	Brown	Yellow	Medium	N/A	M6005,M6016	21
Q2080-01DUP	PL-HRH-COMP-01DUP	N/A	2.11	100	Brown	Yellow	Medium	N/A	N/A	19
Q2080-07	PL-HRH-COMP-02	N/A	2.40	100	Brown	Yellow	Medium	N/A	N/A	22
Q2084-01	OR-640-COMP-66	N/A	2.20	100	Brown	Yellow	Medium	N/A	N/A	23

SOP ID : M7471B-Mercury-18

SDG No : N/A

Matrix : SOIL

Pipette ID: HG A

Balance ID : M SC-3

Filter paper ID : NA

pH Strip ID : NA

Hood ID : #1

Block ID: 1. HG HOT BLOCK#3 2. N/A

Start Digest Date: 05/19/2025 Time : 13:50 Temp : 94 °C

End Digest Date: 05/19/2025 Time : 14:20 Temp : 94 °C

Digestion tube ID: M5595

Block thermometer ID: HG-DIG#3

Dig Technician Signature: *MB*

Supervisor Signature: *12*

Temp : 1. 94°C 2. N/A

Standardized Name	MLS USED	STD REF. # FROM LOG
ICV	30mL	MP85707
CCV	30mL	MP85709
CRA	30mL	MP85711
Blank Spike	0.48mL	MP85700
Matrix Spike	0.48mL	MP85700

Chemical Used	ML/SAMPLE USED	Lot Number
AQUA REGIA	1.5mL	MP85713
KMnO4 (5%)	4.5mL	MP85241
Hydroxylamine HCL (12%)	2.0mL	MP85243
PTFE Boiling Stones	-----	M4583
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

LAB SAMPLE ID	CLIENT SAMPLE ID	Wt(g)/Vol(ml)	Comment
0.0 ppb	S0	30mL	MP85701
0.05 ppb	S0.05	N/A	N/A
0.2 ppb	S0.2	30mL	MP85702
2.5 ppb	S2.5	30mL	MP85703
5.0 ppb	S5.0	30mL	MP85704
7.5 ppb	S7.5	30mL	MP85705
10.0 ppb	S10.0	30mL	MP85706
ICV	ICV	30mL	MP85707
ICB	ICB	30mL	MP85708
CCV	CCV	30mL	MP85709
CCB	CCB	30mL	MP85710
CRI	CRI	30mL	MP85711
CHK STD	CHK STD	30mL	MP85712

Extraction Conformance/Non-Conformance Comments:

N/A		
Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
5/19/25 @ 15:00	<i>ad - N/S, Lab</i>	<i>MB - metal Lab</i>
	Preparation Group	Analysis Group

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Comment	Prep Pos
PB168090BL	PBS090	0.54	35	NA	N/A	3-16
PB168090BS	LCS090	0.54	35	NA	MP85700	17
Q2071-01	L1-WC-7	0.53	35	NA	N/A	18
Q2071-05	L1-WC-8	0.58	35	NA	N/A	19
Q2071-09	L1-WC-9	0.54	35	NA	N/A	20
Q2071-13	L2-WC-5	0.52	35	NA	N/A	21
Q2071-17	L2-WC-6	0.58	35	NA	N/A	22
Q2074-01	TP-12	0.56	35	NA	N/A	23
Q2074-02	TP-7	0.51	35	NA	N/A	24
Q2074-03	TP-15	0.57	35	NA	N/A	25
Q2074-04	TP-20	0.60	35	NA	N/A	26
Q2074-05	TP-38	0.51	35	NA	N/A	27
Q2074-06	TP-19	0.53	35	NA	N/A	28
Q2074-07	TP-40	0.60	35	NA	N/A	29
Q2074-08	TP-18	0.54	35	NA	N/A	30
Q2074-08DUP	TP-18DUP	0.56	35	NA	N/A	31
Q2074-08MS	TP-18MS	0.54	35	NA	MP85700	32
Q2074-08MSD	TP-18MSD	0.55	35	NA	MP85700	33
Q2080-01	PL-HRH-COMP-01	0.57	35	NA	N/A	34
Q2080-07	PL-HRH-COMP-02	0.54	35	NA	N/A	35