

Hit Summary Sheet SW-846

SDG No.: Q2150 **Order ID:** Q2150
Client: CDM Smith **Project ID:** South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : TP-44								
Q2150-01	TP-44	SOIL	Aluminum	4350		1.01	6.04	mg/Kg
Q2150-01	TP-44	SOIL	Arsenic	4.63		0.23	1.21	mg/Kg
Q2150-01	TP-44	SOIL	Barium	32.2		0.88	6.04	mg/Kg
Q2150-01	TP-44	SOIL	Beryllium	0.53		0.030	0.36	mg/Kg
Q2150-01	TP-44	SOIL	Calcium	1480		13.4	121	mg/Kg
Q2150-01	TP-44	SOIL	Chromium	11.2		0.057	0.60	mg/Kg
Q2150-01	TP-44	SOIL	Cobalt	3.58		0.12	1.81	mg/Kg
Q2150-01	TP-44	SOIL	Copper	24.8		0.27	1.21	mg/Kg
Q2150-01	TP-44	SOIL	Iron	28600		4.82	6.04	mg/Kg
Q2150-01	TP-44	SOIL	Lead	32.0		0.16	0.72	mg/Kg
Q2150-01	TP-44	SOIL	Magnesium	648		14.5	121	mg/Kg
Q2150-01	TP-44	SOIL	Manganese	126		0.17	1.21	mg/Kg
Q2150-01	TP-44	SOIL	Mercury	0.030		0.0090	0.015	mg/Kg
Q2150-01	TP-44	SOIL	Nickel	5.14		0.16	2.41	mg/Kg
Q2150-01	TP-44	SOIL	Potassium	348		33.4	121	mg/Kg
Q2150-01	TP-44	SOIL	Silver	0.31	J	0.14	0.60	mg/Kg
Q2150-01	TP-44	SOIL	Sodium	194		21.5	121	mg/Kg
Q2150-01	TP-44	SOIL	Vanadium	21.8		0.30	2.41	mg/Kg
Q2150-01	TP-44	SOIL	Zinc	30.6		0.28	2.41	mg/Kg
Client ID : TP-42								
Q2150-02	TP-42	SOIL	Aluminum	2540		0.89	5.32	mg/Kg
Q2150-02	TP-42	SOIL	Arsenic	5.25		0.20	1.06	mg/Kg
Q2150-02	TP-42	SOIL	Barium	21.4		0.78	5.32	mg/Kg
Q2150-02	TP-42	SOIL	Beryllium	0.43		0.027	0.32	mg/Kg
Q2150-02	TP-42	SOIL	Calcium	814		11.8	106	mg/Kg
Q2150-02	TP-42	SOIL	Chromium	9.31		0.050	0.53	mg/Kg
Q2150-02	TP-42	SOIL	Cobalt	1.61		0.11	1.60	mg/Kg
Q2150-02	TP-42	SOIL	Copper	28.9		0.23	1.06	mg/Kg
Q2150-02	TP-42	SOIL	Iron	18400		4.25	5.32	mg/Kg
Q2150-02	TP-42	SOIL	Lead	69.1		0.14	0.64	mg/Kg
Q2150-02	TP-42	SOIL	Magnesium	334		12.8	106	mg/Kg
Q2150-02	TP-42	SOIL	Manganese	90.0		0.15	1.06	mg/Kg
Q2150-02	TP-42	SOIL	Mercury	0.014		0.0080	0.014	mg/Kg
Q2150-02	TP-42	SOIL	Nickel	3.17		0.14	2.13	mg/Kg
Q2150-02	TP-42	SOIL	Potassium	302		29.5	106	mg/Kg
Q2150-02	TP-42	SOIL	Silver	0.31	J	0.13	0.53	mg/Kg
Q2150-02	TP-42	SOIL	Sodium	151		18.9	106	mg/Kg

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Client: CDM Smith **Project ID:** South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2150-02	TP-42	SOIL	Vanadium	17.9		0.27	2.13	mg/Kg
Q2150-02	TP-42	SOIL	Zinc	77.9		0.25	2.13	mg/Kg
Client ID : TP-39								
Q2150-03	TP-39	SOIL	Aluminum	3890		0.96	5.69	mg/Kg
Q2150-03	TP-39	SOIL	Arsenic	4.24		0.22	1.14	mg/Kg
Q2150-03	TP-39	SOIL	Barium	46.0		0.83	5.69	mg/Kg
Q2150-03	TP-39	SOIL	Beryllium	0.38		0.028	0.34	mg/Kg
Q2150-03	TP-39	SOIL	Calcium	1190		12.6	114	mg/Kg
Q2150-03	TP-39	SOIL	Chromium	8.62		0.053	0.57	mg/Kg
Q2150-03	TP-39	SOIL	Cobalt	1.97		0.11	1.71	mg/Kg
Q2150-03	TP-39	SOIL	Copper	9.95		0.25	1.14	mg/Kg
Q2150-03	TP-39	SOIL	Iron	13700		4.54	5.69	mg/Kg
Q2150-03	TP-39	SOIL	Lead	114		0.15	0.68	mg/Kg
Q2150-03	TP-39	SOIL	Magnesium	275		13.7	114	mg/Kg
Q2150-03	TP-39	SOIL	Manganese	83.1		0.16	1.14	mg/Kg
Q2150-03	TP-39	SOIL	Mercury	0.046		0.0080	0.015	mg/Kg
Q2150-03	TP-39	SOIL	Nickel	3.62		0.15	2.28	mg/Kg
Q2150-03	TP-39	SOIL	Potassium	568		31.5	114	mg/Kg
Q2150-03	TP-39	SOIL	Silver	0.26	J	0.14	0.57	mg/Kg
Q2150-03	TP-39	SOIL	Sodium	391		20.3	114	mg/Kg
Q2150-03	TP-39	SOIL	Vanadium	17.1		0.28	2.28	mg/Kg
Q2150-03	TP-39	SOIL	Zinc	19.0		0.26	2.28	mg/Kg
Client ID : TP-48								
Q2150-04	TP-48	SOIL	Aluminum	1500		0.99	5.87	mg/Kg
Q2150-04	TP-48	SOIL	Arsenic	1.97		0.22	1.17	mg/Kg
Q2150-04	TP-48	SOIL	Barium	6.76		0.86	5.87	mg/Kg
Q2150-04	TP-48	SOIL	Beryllium	0.31	J	0.029	0.35	mg/Kg
Q2150-04	TP-48	SOIL	Calcium	331		13.0	117	mg/Kg
Q2150-04	TP-48	SOIL	Chromium	10.5		0.055	0.59	mg/Kg
Q2150-04	TP-48	SOIL	Cobalt	1.70	J	0.12	1.76	mg/Kg
Q2150-04	TP-48	SOIL	Copper	13.0		0.26	1.17	mg/Kg
Q2150-04	TP-48	SOIL	Iron	16500		4.69	5.87	mg/Kg
Q2150-04	TP-48	SOIL	Lead	5.52		0.15	0.71	mg/Kg
Q2150-04	TP-48	SOIL	Magnesium	159		14.1	117	mg/Kg
Q2150-04	TP-48	SOIL	Manganese	20.2		0.16	1.17	mg/Kg
Q2150-04	TP-48	SOIL	Nickel	1.67	J	0.15	2.35	mg/Kg
Q2150-04	TP-48	SOIL	Potassium	220		32.5	117	mg/Kg
Q2150-04	TP-48	SOIL	Sodium	236		20.9	117	mg/Kg
Q2150-04	TP-48	SOIL	Vanadium	11.4		0.29	2.35	mg/Kg

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Client: CDM Smith **Project ID:** South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2150-04	TP-48	SOIL	Zinc	8.09		0.27	2.35	mg/Kg
Client ID : TP-47								
Q2150-05	TP-47	SOIL	Aluminum	2460		0.95	5.66	mg/Kg
Q2150-05	TP-47	SOIL	Arsenic	7.01		0.22	1.13	mg/Kg
Q2150-05	TP-47	SOIL	Barium	8.49		0.83	5.66	mg/Kg
Q2150-05	TP-47	SOIL	Beryllium	0.64		0.028	0.34	mg/Kg
Q2150-05	TP-47	SOIL	Cadmium	0.22	J	0.027	0.34	mg/Kg
Q2150-05	TP-47	SOIL	Calcium	930		12.6	113	mg/Kg
Q2150-05	TP-47	SOIL	Chromium	14.4		0.053	0.57	mg/Kg
Q2150-05	TP-47	SOIL	Cobalt	2.59		0.11	1.70	mg/Kg
Q2150-05	TP-47	SOIL	Copper	12.3		0.25	1.13	mg/Kg
Q2150-05	TP-47	SOIL	Iron	33000		4.52	5.66	mg/Kg
Q2150-05	TP-47	SOIL	Lead	11.6		0.15	0.68	mg/Kg
Q2150-05	TP-47	SOIL	Magnesium	415		13.6	113	mg/Kg
Q2150-05	TP-47	SOIL	Manganese	69.1		0.16	1.13	mg/Kg
Q2150-05	TP-47	SOIL	Nickel	2.80		0.15	2.27	mg/Kg
Q2150-05	TP-47	SOIL	Potassium	247		31.4	113	mg/Kg
Q2150-05	TP-47	SOIL	Sodium	121		20.2	113	mg/Kg
Q2150-05	TP-47	SOIL	Vanadium	25.0		0.28	2.27	mg/Kg
Q2150-05	TP-47	SOIL	Zinc	23.7		0.26	2.27	mg/Kg
Client ID : TP-50								
Q2150-06	TP-50	SOIL	Aluminum	6500		0.80	4.77	mg/Kg
Q2150-06	TP-50	SOIL	Arsenic	4.62		0.18	0.95	mg/Kg
Q2150-06	TP-50	SOIL	Barium	38.3		0.70	4.77	mg/Kg
Q2150-06	TP-50	SOIL	Beryllium	0.41		0.024	0.29	mg/Kg
Q2150-06	TP-50	SOIL	Cadmium	0.52		0.023	0.29	mg/Kg
Q2150-06	TP-50	SOIL	Calcium	21100		10.6	95.3	mg/Kg
Q2150-06	TP-50	SOIL	Chromium	17.6		0.045	0.48	mg/Kg
Q2150-06	TP-50	SOIL	Cobalt	7.76		0.095	1.43	mg/Kg
Q2150-06	TP-50	SOIL	Copper	38.8		0.21	0.95	mg/Kg
Q2150-06	TP-50	SOIL	Iron	15200		3.80	4.77	mg/Kg
Q2150-06	TP-50	SOIL	Lead	54.8		0.12	0.57	mg/Kg
Q2150-06	TP-50	SOIL	Magnesium	4510		11.4	95.3	mg/Kg
Q2150-06	TP-50	SOIL	Manganese	209		0.13	0.95	mg/Kg
Q2150-06	TP-50	SOIL	Mercury	0.045		0.0080	0.015	mg/Kg
Q2150-06	TP-50	SOIL	Nickel	18.5		0.12	1.91	mg/Kg
Q2150-06	TP-50	SOIL	Potassium	696		26.4	95.3	mg/Kg
Q2150-06	TP-50	SOIL	Silver	0.54		0.11	0.48	mg/Kg
Q2150-06	TP-50	SOIL	Sodium	887		17.0	95.3	mg/Kg

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SDG No.: Q2150 **Order ID:** Q2150
Client: CDM Smith **Project ID:** South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2150-06	TP-50	SOIL	Vanadium	33.8		0.24	1.91	mg/Kg
Q2150-06	TP-50	SOIL	Zinc	62.3		0.22	1.91	mg/Kg
Client ID : TP-51								
Q2150-07	TP-51	SOIL	Aluminum	3580		0.92	5.46	mg/Kg
Q2150-07	TP-51	SOIL	Arsenic	3.77		0.21	1.09	mg/Kg
Q2150-07	TP-51	SOIL	Barium	18.7		0.80	5.46	mg/Kg
Q2150-07	TP-51	SOIL	Beryllium	0.54		0.027	0.33	mg/Kg
Q2150-07	TP-51	SOIL	Cadmium	0.096	J	0.026	0.33	mg/Kg
Q2150-07	TP-51	SOIL	Calcium	648		12.1	109	mg/Kg
Q2150-07	TP-51	SOIL	Chromium	10.1		0.051	0.55	mg/Kg
Q2150-07	TP-51	SOIL	Cobalt	2.23		0.11	1.64	mg/Kg
Q2150-07	TP-51	SOIL	Copper	7.28		0.24	1.09	mg/Kg
Q2150-07	TP-51	SOIL	Iron	15200		4.35	5.46	mg/Kg
Q2150-07	TP-51	SOIL	Lead	15.3		0.14	0.66	mg/Kg
Q2150-07	TP-51	SOIL	Magnesium	151		13.1	109	mg/Kg
Q2150-07	TP-51	SOIL	Manganese	30.1		0.15	1.09	mg/Kg
Q2150-07	TP-51	SOIL	Mercury	0.031		0.0090	0.017	mg/Kg
Q2150-07	TP-51	SOIL	Nickel	3.05		0.14	2.18	mg/Kg
Q2150-07	TP-51	SOIL	Potassium	314		30.2	109	mg/Kg
Q2150-07	TP-51	SOIL	Sodium	328		19.4	109	mg/Kg
Q2150-07	TP-51	SOIL	Vanadium	22.4		0.27	2.18	mg/Kg
Q2150-07	TP-51	SOIL	Zinc	10.1		0.25	2.18	mg/Kg
Client ID : TP-52								
Q2150-08	TP-52	SOIL	Aluminum	4650		0.87	5.19	mg/Kg
Q2150-08	TP-52	SOIL	Arsenic	4.63		0.20	1.04	mg/Kg
Q2150-08	TP-52	SOIL	Barium	36.7		0.76	5.19	mg/Kg
Q2150-08	TP-52	SOIL	Beryllium	0.55		0.026	0.31	mg/Kg
Q2150-08	TP-52	SOIL	Cadmium	0.22	J	0.025	0.31	mg/Kg
Q2150-08	TP-52	SOIL	Calcium	1150		11.5	104	mg/Kg
Q2150-08	TP-52	SOIL	Chromium	8.57		0.049	0.52	mg/Kg
Q2150-08	TP-52	SOIL	Cobalt	4.55		0.10	1.56	mg/Kg
Q2150-08	TP-52	SOIL	Copper	18.6		0.23	1.04	mg/Kg
Q2150-08	TP-52	SOIL	Iron	19100		4.14	5.19	mg/Kg
Q2150-08	TP-52	SOIL	Lead	29.9		0.14	0.62	mg/Kg
Q2150-08	TP-52	SOIL	Magnesium	598		12.4	104	mg/Kg
Q2150-08	TP-52	SOIL	Manganese	80.2		0.14	1.04	mg/Kg
Q2150-08	TP-52	SOIL	Mercury	0.044		0.0080	0.014	mg/Kg
Q2150-08	TP-52	SOIL	Nickel	7.26		0.14	2.07	mg/Kg
Q2150-08	TP-52	SOIL	Potassium	334		28.7	104	mg/Kg

Hit Summary Sheet
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SDG No.: Q2150 **Order ID:** Q2150
Client: CDM Smith **Project ID:** South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2150-08	TP-52	SOIL	Sodium	179		18.5	104	mg/Kg
Q2150-08	TP-52	SOIL	Vanadium	22.7		0.26	2.07	mg/Kg
Q2150-08	TP-52	SOIL	Zinc	23.6		0.24	2.07	mg/Kg
Client ID : TP-54								
Q2150-09	TP-54	SOIL	Aluminum	4450		0.97	5.75	mg/Kg
Q2150-09	TP-54	SOIL	Arsenic	0.86	J	0.22	1.15	mg/Kg
Q2150-09	TP-54	SOIL	Barium	20.1		0.84	5.75	mg/Kg
Q2150-09	TP-54	SOIL	Beryllium	0.21	J	0.029	0.35	mg/Kg
Q2150-09	TP-54	SOIL	Calcium	558		12.8	115	mg/Kg
Q2150-09	TP-54	SOIL	Chromium	10.1		0.054	0.57	mg/Kg
Q2150-09	TP-54	SOIL	Cobalt	0.76	J	0.12	1.73	mg/Kg
Q2150-09	TP-54	SOIL	Copper	5.25		0.25	1.15	mg/Kg
Q2150-09	TP-54	SOIL	Iron	3090		4.59	5.75	mg/Kg
Q2150-09	TP-54	SOIL	Lead	5.07		0.15	0.69	mg/Kg
Q2150-09	TP-54	SOIL	Magnesium	574		13.8	115	mg/Kg
Q2150-09	TP-54	SOIL	Manganese	13.5		0.16	1.15	mg/Kg
Q2150-09	TP-54	SOIL	Nickel	2.40		0.15	2.30	mg/Kg
Q2150-09	TP-54	SOIL	Potassium	489		31.9	115	mg/Kg
Q2150-09	TP-54	SOIL	Sodium	285		20.5	115	mg/Kg
Q2150-09	TP-54	SOIL	Vanadium	13.5		0.29	2.30	mg/Kg
Q2150-09	TP-54	SOIL	Zinc	5.42		0.27	2.30	mg/Kg
Client ID : TP-53								
Q2150-10	TP-53	SOIL	Aluminum	3290		0.93	5.53	mg/Kg
Q2150-10	TP-53	SOIL	Arsenic	3.50		0.21	1.11	mg/Kg
Q2150-10	TP-53	SOIL	Barium	9.87		0.81	5.53	mg/Kg
Q2150-10	TP-53	SOIL	Beryllium	0.38		0.028	0.33	mg/Kg
Q2150-10	TP-53	SOIL	Calcium	481		12.3	111	mg/Kg
Q2150-10	TP-53	SOIL	Chromium	7.74		0.052	0.55	mg/Kg
Q2150-10	TP-53	SOIL	Cobalt	1.09	J	0.11	1.66	mg/Kg
Q2150-10	TP-53	SOIL	Copper	3.46		0.24	1.11	mg/Kg
Q2150-10	TP-53	SOIL	Iron	15000		4.41	5.53	mg/Kg
Q2150-10	TP-53	SOIL	Lead	6.90		0.14	0.66	mg/Kg
Q2150-10	TP-53	SOIL	Magnesium	206		13.3	111	mg/Kg
Q2150-10	TP-53	SOIL	Manganese	22.9		0.16	1.11	mg/Kg
Q2150-10	TP-53	SOIL	Mercury	0.016		0.0090	0.016	mg/Kg
Q2150-10	TP-53	SOIL	Nickel	1.96	J	0.14	2.21	mg/Kg
Q2150-10	TP-53	SOIL	Potassium	186		30.6	111	mg/Kg
Q2150-10	TP-53	SOIL	Sodium	239		19.7	111	mg/Kg
Q2150-10	TP-53	SOIL	Vanadium	19.8		0.28	2.21	mg/Kg

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SDG No.: Q2150

Order ID: Q2150

Client: CDM Smith

Project ID: South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2150-10	TP-53	SOIL	Zinc	5.58		0.25	2.21	mg/Kg



SAMPLE DATA

Report of Analysis

Client:	CDM Smith	Date Collected:	05/27/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-44	SDG No.:	Q2150
Lab Sample ID:	Q2150-01	Matrix:	SOIL
Level (low/med):	low	% Solid:	78.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	4350		1	1.01	6.04	mg/Kg	05/30/25 09:40	06/02/25 17:47	6010D	SW3050
7440-36-0	Antimony	0.27	UN	1	0.27	3.02	mg/Kg	05/30/25 09:40	06/02/25 17:47	6010D	SW3050
7440-38-2	Arsenic	4.63		1	0.23	1.21	mg/Kg	05/30/25 09:40	06/02/25 17:47	6010D	SW3050
7440-39-3	Barium	32.2	*	1	0.88	6.04	mg/Kg	05/30/25 09:40	06/02/25 17:47	6010D	SW3050
7440-41-7	Beryllium	0.53	N*	1	0.030	0.36	mg/Kg	05/30/25 09:40	06/02/25 17:47	6010D	SW3050
7440-43-9	Cadmium	0.029	U*	1	0.029	0.36	mg/Kg	05/30/25 09:40	06/02/25 17:47	6010D	SW3050
7440-70-2	Calcium	1480	*	1	13.4	121	mg/Kg	05/30/25 09:40	06/02/25 17:47	6010D	SW3050
7440-47-3	Chromium	11.2	*	1	0.057	0.60	mg/Kg	05/30/25 09:40	06/02/25 17:47	6010D	SW3050
7440-48-4	Cobalt	3.58		1	0.12	1.81	mg/Kg	05/30/25 09:40	06/02/25 17:47	6010D	SW3050
7440-50-8	Copper	24.8	N*	1	0.27	1.21	mg/Kg	05/30/25 09:40	06/02/25 17:47	6010D	SW3050
7439-89-6	Iron	28600		1	4.82	6.04	mg/Kg	05/30/25 09:40	06/02/25 17:47	6010D	SW3050
7439-92-1	Lead	32.0		1	0.16	0.72	mg/Kg	05/30/25 09:40	06/02/25 17:47	6010D	SW3050
7439-95-4	Magnesium	648		1	14.5	121	mg/Kg	05/30/25 09:40	06/02/25 17:47	6010D	SW3050
7439-96-5	Manganese	126		1	0.17	1.21	mg/Kg	05/30/25 09:40	06/02/25 17:47	6010D	SW3050
7439-97-6	Mercury	0.030		1	0.0090	0.015	mg/Kg	05/30/25 08:35	05/30/25 13:05	7471B	
7440-02-0	Nickel	5.14		1	0.16	2.41	mg/Kg	05/30/25 09:40	06/02/25 17:47	6010D	SW3050
7440-09-7	Potassium	348	N*	1	33.4	121	mg/Kg	05/30/25 09:40	06/02/25 17:47	6010D	SW3050
7782-49-2	Selenium	0.31	U	1	0.31	1.21	mg/Kg	05/30/25 09:40	06/02/25 17:47	6010D	SW3050
7440-22-4	Silver	0.31	J	1	0.14	0.60	mg/Kg	05/30/25 09:40	06/02/25 17:47	6010D	SW3050
7440-23-5	Sodium	194	N	1	21.5	121	mg/Kg	05/30/25 09:40	06/02/25 17:47	6010D	SW3050
7440-28-0	Thallium	0.28	U	1	0.28	2.41	mg/Kg	05/30/25 09:40	06/02/25 17:47	6010D	SW3050
7440-62-2	Vanadium	21.8		1	0.30	2.41	mg/Kg	05/30/25 09:40	06/02/25 17:47	6010D	SW3050
7440-66-6	Zinc	30.6		1	0.28	2.41	mg/Kg	05/30/25 09:40	06/02/25 17:47	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:	05/27/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-42	SDG No.:	Q2150
Lab Sample ID:	Q2150-02	Matrix:	SOIL
Level (low/med):	low	% Solid:	86.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	2540		1	0.89	5.32	mg/Kg	05/30/25 09:40	06/02/25 17:51	6010D	SW3050
7440-36-0	Antimony	0.23	UN	1	0.23	2.66	mg/Kg	05/30/25 09:40	06/02/25 17:51	6010D	SW3050
7440-38-2	Arsenic	5.25		1	0.20	1.06	mg/Kg	05/30/25 09:40	06/02/25 17:51	6010D	SW3050
7440-39-3	Barium	21.4	*	1	0.78	5.32	mg/Kg	05/30/25 09:40	06/02/25 17:51	6010D	SW3050
7440-41-7	Beryllium	0.43	N*	1	0.027	0.32	mg/Kg	05/30/25 09:40	06/02/25 17:51	6010D	SW3050
7440-43-9	Cadmium	0.026	U*	1	0.026	0.32	mg/Kg	05/30/25 09:40	06/02/25 17:51	6010D	SW3050
7440-70-2	Calcium	814	*	1	11.8	106	mg/Kg	05/30/25 09:40	06/02/25 17:51	6010D	SW3050
7440-47-3	Chromium	9.31	*	1	0.050	0.53	mg/Kg	05/30/25 09:40	06/02/25 17:51	6010D	SW3050
7440-48-4	Cobalt	1.61		1	0.11	1.60	mg/Kg	05/30/25 09:40	06/02/25 17:51	6010D	SW3050
7440-50-8	Copper	28.9	N*	1	0.23	1.06	mg/Kg	05/30/25 09:40	06/02/25 17:51	6010D	SW3050
7439-89-6	Iron	18400		1	4.25	5.32	mg/Kg	05/30/25 09:40	06/02/25 17:51	6010D	SW3050
7439-92-1	Lead	69.1		1	0.14	0.64	mg/Kg	05/30/25 09:40	06/02/25 17:51	6010D	SW3050
7439-95-4	Magnesium	334		1	12.8	106	mg/Kg	05/30/25 09:40	06/02/25 17:51	6010D	SW3050
7439-96-5	Manganese	90.0		1	0.15	1.06	mg/Kg	05/30/25 09:40	06/02/25 17:51	6010D	SW3050
7439-97-6	Mercury	0.014		1	0.0080	0.014	mg/Kg	05/30/25 08:35	05/30/25 13:17	7471B	
7440-02-0	Nickel	3.17		1	0.14	2.13	mg/Kg	05/30/25 09:40	06/02/25 17:51	6010D	SW3050
7440-09-7	Potassium	302	N*	1	29.5	106	mg/Kg	05/30/25 09:40	06/02/25 17:51	6010D	SW3050
7782-49-2	Selenium	0.28	U	1	0.28	1.06	mg/Kg	05/30/25 09:40	06/02/25 17:51	6010D	SW3050
7440-22-4	Silver	0.31	J	1	0.13	0.53	mg/Kg	05/30/25 09:40	06/02/25 17:51	6010D	SW3050
7440-23-5	Sodium	151	N	1	18.9	106	mg/Kg	05/30/25 09:40	06/02/25 17:51	6010D	SW3050
7440-28-0	Thallium	0.25	U	1	0.25	2.13	mg/Kg	05/30/25 09:40	06/02/25 17:51	6010D	SW3050
7440-62-2	Vanadium	17.9		1	0.27	2.13	mg/Kg	05/30/25 09:40	06/02/25 17:51	6010D	SW3050
7440-66-6	Zinc	77.9		1	0.25	2.13	mg/Kg	05/30/25 09:40	06/02/25 17:51	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:	05/27/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-39	SDG No.:	Q2150
Lab Sample ID:	Q2150-03	Matrix:	SOIL
Level (low/med):	low	% Solid:	83.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	3890		1	0.96	5.69	mg/Kg	05/30/25 09:40	06/02/25 17:55	6010D	SW3050
7440-36-0	Antimony	0.25	UN	1	0.25	2.84	mg/Kg	05/30/25 09:40	06/02/25 17:55	6010D	SW3050
7440-38-2	Arsenic	4.24		1	0.22	1.14	mg/Kg	05/30/25 09:40	06/02/25 17:55	6010D	SW3050
7440-39-3	Barium	46.0	*	1	0.83	5.69	mg/Kg	05/30/25 09:40	06/02/25 17:55	6010D	SW3050
7440-41-7	Beryllium	0.38	N*	1	0.028	0.34	mg/Kg	05/30/25 09:40	06/02/25 17:55	6010D	SW3050
7440-43-9	Cadmium	0.027	U*	1	0.027	0.34	mg/Kg	05/30/25 09:40	06/02/25 17:55	6010D	SW3050
7440-70-2	Calcium	1190	*	1	12.6	114	mg/Kg	05/30/25 09:40	06/02/25 17:55	6010D	SW3050
7440-47-3	Chromium	8.62	*	1	0.053	0.57	mg/Kg	05/30/25 09:40	06/02/25 17:55	6010D	SW3050
7440-48-4	Cobalt	1.97		1	0.11	1.71	mg/Kg	05/30/25 09:40	06/02/25 17:55	6010D	SW3050
7440-50-8	Copper	9.95	N*	1	0.25	1.14	mg/Kg	05/30/25 09:40	06/02/25 17:55	6010D	SW3050
7439-89-6	Iron	13700		1	4.54	5.69	mg/Kg	05/30/25 09:40	06/02/25 17:55	6010D	SW3050
7439-92-1	Lead	114		1	0.15	0.68	mg/Kg	05/30/25 09:40	06/02/25 17:55	6010D	SW3050
7439-95-4	Magnesium	275		1	13.7	114	mg/Kg	05/30/25 09:40	06/02/25 17:55	6010D	SW3050
7439-96-5	Manganese	83.1		1	0.16	1.14	mg/Kg	05/30/25 09:40	06/02/25 17:55	6010D	SW3050
7439-97-6	Mercury	0.046		1	0.0080	0.015	mg/Kg	05/30/25 08:35	05/30/25 13:19	7471B	
7440-02-0	Nickel	3.62		1	0.15	2.28	mg/Kg	05/30/25 09:40	06/02/25 17:55	6010D	SW3050
7440-09-7	Potassium	568	N*	1	31.5	114	mg/Kg	05/30/25 09:40	06/02/25 17:55	6010D	SW3050
7782-49-2	Selenium	0.30	U	1	0.30	1.14	mg/Kg	05/30/25 09:40	06/02/25 17:55	6010D	SW3050
7440-22-4	Silver	0.26	J	1	0.14	0.57	mg/Kg	05/30/25 09:40	06/02/25 17:55	6010D	SW3050
7440-23-5	Sodium	391	N	1	20.3	114	mg/Kg	05/30/25 09:40	06/02/25 17:55	6010D	SW3050
7440-28-0	Thallium	0.26	U	1	0.26	2.28	mg/Kg	05/30/25 09:40	06/02/25 17:55	6010D	SW3050
7440-62-2	Vanadium	17.1		1	0.28	2.28	mg/Kg	05/30/25 09:40	06/02/25 17:55	6010D	SW3050
7440-66-6	Zinc	19.0		1	0.26	2.28	mg/Kg	05/30/25 09:40	06/02/25 17:55	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:	05/27/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-48	SDG No.:	Q2150
Lab Sample ID:	Q2150-04	Matrix:	SOIL
Level (low/med):	low	% Solid:	80.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	1500		1	0.99	5.87	mg/Kg	05/30/25 09:40	06/02/25 17:59	6010D	SW3050
7440-36-0	Antimony	0.26	UN	1	0.26	2.94	mg/Kg	05/30/25 09:40	06/02/25 17:59	6010D	SW3050
7440-38-2	Arsenic	1.97		1	0.22	1.17	mg/Kg	05/30/25 09:40	06/02/25 17:59	6010D	SW3050
7440-39-3	Barium	6.76	*	1	0.86	5.87	mg/Kg	05/30/25 09:40	06/02/25 17:59	6010D	SW3050
7440-41-7	Beryllium	0.31	JN*	1	0.029	0.35	mg/Kg	05/30/25 09:40	06/02/25 17:59	6010D	SW3050
7440-43-9	Cadmium	0.028	U*	1	0.028	0.35	mg/Kg	05/30/25 09:40	06/02/25 17:59	6010D	SW3050
7440-70-2	Calcium	331	*	1	13.0	117	mg/Kg	05/30/25 09:40	06/02/25 17:59	6010D	SW3050
7440-47-3	Chromium	10.5	*	1	0.055	0.59	mg/Kg	05/30/25 09:40	06/02/25 17:59	6010D	SW3050
7440-48-4	Cobalt	1.70	J	1	0.12	1.76	mg/Kg	05/30/25 09:40	06/02/25 17:59	6010D	SW3050
7440-50-8	Copper	13.0	N*	1	0.26	1.17	mg/Kg	05/30/25 09:40	06/02/25 17:59	6010D	SW3050
7439-89-6	Iron	16500		1	4.69	5.87	mg/Kg	05/30/25 09:40	06/02/25 17:59	6010D	SW3050
7439-92-1	Lead	5.52		1	0.15	0.71	mg/Kg	05/30/25 09:40	06/02/25 17:59	6010D	SW3050
7439-95-4	Magnesium	159		1	14.1	117	mg/Kg	05/30/25 09:40	06/02/25 17:59	6010D	SW3050
7439-96-5	Manganese	20.2		1	0.16	1.17	mg/Kg	05/30/25 09:40	06/02/25 17:59	6010D	SW3050
7439-97-6	Mercury	0.0090	U	1	0.0090	0.015	mg/Kg	05/30/25 08:35	05/30/25 13:22	7471B	
7440-02-0	Nickel	1.67	J	1	0.15	2.35	mg/Kg	05/30/25 09:40	06/02/25 17:59	6010D	SW3050
7440-09-7	Potassium	220	N*	1	32.5	117	mg/Kg	05/30/25 09:40	06/02/25 17:59	6010D	SW3050
7782-49-2	Selenium	0.31	U	1	0.31	1.17	mg/Kg	05/30/25 09:40	06/02/25 17:59	6010D	SW3050
7440-22-4	Silver	0.14	U	1	0.14	0.59	mg/Kg	05/30/25 09:40	06/02/25 17:59	6010D	SW3050
7440-23-5	Sodium	236	N	1	20.9	117	mg/Kg	05/30/25 09:40	06/02/25 17:59	6010D	SW3050
7440-28-0	Thallium	0.27	U	1	0.27	2.35	mg/Kg	05/30/25 09:40	06/02/25 17:59	6010D	SW3050
7440-62-2	Vanadium	11.4		1	0.29	2.35	mg/Kg	05/30/25 09:40	06/02/25 17:59	6010D	SW3050
7440-66-6	Zinc	8.09		1	0.27	2.35	mg/Kg	05/30/25 09:40	06/02/25 17:59	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:	05/27/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-47	SDG No.:	Q2150
Lab Sample ID:	Q2150-05	Matrix:	SOIL
Level (low/med):	low	% Solid:	81

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	2460		1	0.95	5.66	mg/Kg	05/30/25 09:40	06/02/25 18:03	6010D	SW3050
7440-36-0	Antimony	0.25	UN	1	0.25	2.83	mg/Kg	05/30/25 09:40	06/02/25 18:03	6010D	SW3050
7440-38-2	Arsenic	7.01		1	0.22	1.13	mg/Kg	05/30/25 09:40	06/02/25 18:03	6010D	SW3050
7440-39-3	Barium	8.49	*	1	0.83	5.66	mg/Kg	05/30/25 09:40	06/02/25 18:03	6010D	SW3050
7440-41-7	Beryllium	0.64	N*	1	0.028	0.34	mg/Kg	05/30/25 09:40	06/02/25 18:03	6010D	SW3050
7440-43-9	Cadmium	0.22	J*	1	0.027	0.34	mg/Kg	05/30/25 09:40	06/02/25 18:03	6010D	SW3050
7440-70-2	Calcium	930	*	1	12.6	113	mg/Kg	05/30/25 09:40	06/02/25 18:03	6010D	SW3050
7440-47-3	Chromium	14.4	*	1	0.053	0.57	mg/Kg	05/30/25 09:40	06/02/25 18:03	6010D	SW3050
7440-48-4	Cobalt	2.59		1	0.11	1.70	mg/Kg	05/30/25 09:40	06/02/25 18:03	6010D	SW3050
7440-50-8	Copper	12.3	N*	1	0.25	1.13	mg/Kg	05/30/25 09:40	06/02/25 18:03	6010D	SW3050
7439-89-6	Iron	33000		1	4.52	5.66	mg/Kg	05/30/25 09:40	06/02/25 18:03	6010D	SW3050
7439-92-1	Lead	11.6		1	0.15	0.68	mg/Kg	05/30/25 09:40	06/02/25 18:03	6010D	SW3050
7439-95-4	Magnesium	415		1	13.6	113	mg/Kg	05/30/25 09:40	06/02/25 18:03	6010D	SW3050
7439-96-5	Manganese	69.1		1	0.16	1.13	mg/Kg	05/30/25 09:40	06/02/25 18:03	6010D	SW3050
7439-97-6	Mercury	0.0090	U	1	0.0090	0.015	mg/Kg	05/30/25 08:35	05/30/25 13:24	7471B	
7440-02-0	Nickel	2.80		1	0.15	2.27	mg/Kg	05/30/25 09:40	06/02/25 18:03	6010D	SW3050
7440-09-7	Potassium	247	N*	1	31.4	113	mg/Kg	05/30/25 09:40	06/02/25 18:03	6010D	SW3050
7782-49-2	Selenium	0.29	U	1	0.29	1.13	mg/Kg	05/30/25 09:40	06/02/25 18:03	6010D	SW3050
7440-22-4	Silver	0.14	U	1	0.14	0.57	mg/Kg	05/30/25 09:40	06/02/25 18:03	6010D	SW3050
7440-23-5	Sodium	121	N	1	20.2	113	mg/Kg	05/30/25 09:40	06/02/25 18:03	6010D	SW3050
7440-28-0	Thallium	0.26	U	1	0.26	2.27	mg/Kg	05/30/25 09:40	06/02/25 18:03	6010D	SW3050
7440-62-2	Vanadium	25.0		1	0.28	2.27	mg/Kg	05/30/25 09:40	06/02/25 18:03	6010D	SW3050
7440-66-6	Zinc	23.7		1	0.26	2.27	mg/Kg	05/30/25 09:40	06/02/25 18:03	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:	05/27/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-50	SDG No.:	Q2150
Lab Sample ID:	Q2150-06	Matrix:	SOIL
Level (low/med):	low	% Solid:	86

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	6500		1	0.80	4.77	mg/Kg	05/30/25 09:40	06/02/25 18:07	6010D	SW3050
7440-36-0	Antimony	0.21	UN	1	0.21	2.38	mg/Kg	05/30/25 09:40	06/02/25 18:07	6010D	SW3050
7440-38-2	Arsenic	4.62		1	0.18	0.95	mg/Kg	05/30/25 09:40	06/02/25 18:07	6010D	SW3050
7440-39-3	Barium	38.3	*	1	0.70	4.77	mg/Kg	05/30/25 09:40	06/02/25 18:07	6010D	SW3050
7440-41-7	Beryllium	0.41	N*	1	0.024	0.29	mg/Kg	05/30/25 09:40	06/02/25 18:07	6010D	SW3050
7440-43-9	Cadmium	0.52	*	1	0.023	0.29	mg/Kg	05/30/25 09:40	06/02/25 18:07	6010D	SW3050
7440-70-2	Calcium	21100	*	1	10.6	95.3	mg/Kg	05/30/25 09:40	06/02/25 18:07	6010D	SW3050
7440-47-3	Chromium	17.6	*	1	0.045	0.48	mg/Kg	05/30/25 09:40	06/02/25 18:07	6010D	SW3050
7440-48-4	Cobalt	7.76		1	0.095	1.43	mg/Kg	05/30/25 09:40	06/02/25 18:07	6010D	SW3050
7440-50-8	Copper	38.8	N*	1	0.21	0.95	mg/Kg	05/30/25 09:40	06/02/25 18:07	6010D	SW3050
7439-89-6	Iron	15200		1	3.80	4.77	mg/Kg	05/30/25 09:40	06/02/25 18:07	6010D	SW3050
7439-92-1	Lead	54.8		1	0.12	0.57	mg/Kg	05/30/25 09:40	06/02/25 18:07	6010D	SW3050
7439-95-4	Magnesium	4510		1	11.4	95.3	mg/Kg	05/30/25 09:40	06/02/25 18:07	6010D	SW3050
7439-96-5	Manganese	209		1	0.13	0.95	mg/Kg	05/30/25 09:40	06/02/25 18:07	6010D	SW3050
7439-97-6	Mercury	0.045		1	0.0080	0.015	mg/Kg	05/30/25 08:35	05/30/25 13:26	7471B	
7440-02-0	Nickel	18.5		1	0.12	1.91	mg/Kg	05/30/25 09:40	06/02/25 18:07	6010D	SW3050
7440-09-7	Potassium	696	N*	1	26.4	95.3	mg/Kg	05/30/25 09:40	06/02/25 18:07	6010D	SW3050
7782-49-2	Selenium	0.25	U	1	0.25	0.95	mg/Kg	05/30/25 09:40	06/02/25 18:07	6010D	SW3050
7440-22-4	Silver	0.54		1	0.11	0.48	mg/Kg	05/30/25 09:40	06/02/25 18:07	6010D	SW3050
7440-23-5	Sodium	887	N	1	17.0	95.3	mg/Kg	05/30/25 09:40	06/02/25 18:07	6010D	SW3050
7440-28-0	Thallium	0.22	U	1	0.22	1.91	mg/Kg	05/30/25 09:40	06/02/25 18:07	6010D	SW3050
7440-62-2	Vanadium	33.8		1	0.24	1.91	mg/Kg	05/30/25 09:40	06/02/25 18:07	6010D	SW3050
7440-66-6	Zinc	62.3		1	0.22	1.91	mg/Kg	05/30/25 09:40	06/02/25 18:07	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:	05/27/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-51	SDG No.:	Q2150
Lab Sample ID:	Q2150-07	Matrix:	SOIL
Level (low/med):	low	% Solid:	83.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	3580		1	0.92	5.46	mg/Kg	05/30/25 09:40	06/02/25 18:12	6010D	SW3050
7440-36-0	Antimony	0.24	UN	1	0.24	2.73	mg/Kg	05/30/25 09:40	06/02/25 18:12	6010D	SW3050
7440-38-2	Arsenic	3.77		1	0.21	1.09	mg/Kg	05/30/25 09:40	06/02/25 18:12	6010D	SW3050
7440-39-3	Barium	18.7	*	1	0.80	5.46	mg/Kg	05/30/25 09:40	06/02/25 18:12	6010D	SW3050
7440-41-7	Beryllium	0.54	N*	1	0.027	0.33	mg/Kg	05/30/25 09:40	06/02/25 18:12	6010D	SW3050
7440-43-9	Cadmium	0.096	J*	1	0.026	0.33	mg/Kg	05/30/25 09:40	06/02/25 18:12	6010D	SW3050
7440-70-2	Calcium	648	*	1	12.1	109	mg/Kg	05/30/25 09:40	06/02/25 18:12	6010D	SW3050
7440-47-3	Chromium	10.1	*	1	0.051	0.55	mg/Kg	05/30/25 09:40	06/02/25 18:12	6010D	SW3050
7440-48-4	Cobalt	2.23		1	0.11	1.64	mg/Kg	05/30/25 09:40	06/02/25 18:12	6010D	SW3050
7440-50-8	Copper	7.28	N*	1	0.24	1.09	mg/Kg	05/30/25 09:40	06/02/25 18:12	6010D	SW3050
7439-89-6	Iron	15200		1	4.35	5.46	mg/Kg	05/30/25 09:40	06/02/25 18:12	6010D	SW3050
7439-92-1	Lead	15.3		1	0.14	0.66	mg/Kg	05/30/25 09:40	06/02/25 18:12	6010D	SW3050
7439-95-4	Magnesium	151		1	13.1	109	mg/Kg	05/30/25 09:40	06/02/25 18:12	6010D	SW3050
7439-96-5	Manganese	30.1		1	0.15	1.09	mg/Kg	05/30/25 09:40	06/02/25 18:12	6010D	SW3050
7439-97-6	Mercury	0.031		1	0.0090	0.017	mg/Kg	05/30/25 08:35	05/30/25 13:28	7471B	
7440-02-0	Nickel	3.05		1	0.14	2.18	mg/Kg	05/30/25 09:40	06/02/25 18:12	6010D	SW3050
7440-09-7	Potassium	314	N*	1	30.2	109	mg/Kg	05/30/25 09:40	06/02/25 18:12	6010D	SW3050
7782-49-2	Selenium	0.28	U	1	0.28	1.09	mg/Kg	05/30/25 09:40	06/02/25 18:12	6010D	SW3050
7440-22-4	Silver	0.13	U	1	0.13	0.55	mg/Kg	05/30/25 09:40	06/02/25 18:12	6010D	SW3050
7440-23-5	Sodium	328	N	1	19.4	109	mg/Kg	05/30/25 09:40	06/02/25 18:12	6010D	SW3050
7440-28-0	Thallium	0.25	U	1	0.25	2.18	mg/Kg	05/30/25 09:40	06/02/25 18:12	6010D	SW3050
7440-62-2	Vanadium	22.4		1	0.27	2.18	mg/Kg	05/30/25 09:40	06/02/25 18:12	6010D	SW3050
7440-66-6	Zinc	10.1		1	0.25	2.18	mg/Kg	05/30/25 09:40	06/02/25 18:12	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:	05/28/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-52	SDG No.:	Q2150
Lab Sample ID:	Q2150-08	Matrix:	SOIL
Level (low/med):	low	% Solid:	85.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	4650		1	0.87	5.19	mg/Kg	05/30/25 09:40	06/02/25 18:16	6010D	SW3050
7440-36-0	Antimony	0.23	UN	1	0.23	2.59	mg/Kg	05/30/25 09:40	06/02/25 18:16	6010D	SW3050
7440-38-2	Arsenic	4.63		1	0.20	1.04	mg/Kg	05/30/25 09:40	06/02/25 18:16	6010D	SW3050
7440-39-3	Barium	36.7	*	1	0.76	5.19	mg/Kg	05/30/25 09:40	06/02/25 18:16	6010D	SW3050
7440-41-7	Beryllium	0.55	N*	1	0.026	0.31	mg/Kg	05/30/25 09:40	06/02/25 18:16	6010D	SW3050
7440-43-9	Cadmium	0.22	J*	1	0.025	0.31	mg/Kg	05/30/25 09:40	06/02/25 18:16	6010D	SW3050
7440-70-2	Calcium	1150	*	1	11.5	104	mg/Kg	05/30/25 09:40	06/02/25 18:16	6010D	SW3050
7440-47-3	Chromium	8.57	*	1	0.049	0.52	mg/Kg	05/30/25 09:40	06/02/25 18:16	6010D	SW3050
7440-48-4	Cobalt	4.55		1	0.10	1.56	mg/Kg	05/30/25 09:40	06/02/25 18:16	6010D	SW3050
7440-50-8	Copper	18.6	N*	1	0.23	1.04	mg/Kg	05/30/25 09:40	06/02/25 18:16	6010D	SW3050
7439-89-6	Iron	19100		1	4.14	5.19	mg/Kg	05/30/25 09:40	06/02/25 18:16	6010D	SW3050
7439-92-1	Lead	29.9		1	0.14	0.62	mg/Kg	05/30/25 09:40	06/02/25 18:16	6010D	SW3050
7439-95-4	Magnesium	598		1	12.4	104	mg/Kg	05/30/25 09:40	06/02/25 18:16	6010D	SW3050
7439-96-5	Manganese	80.2		1	0.14	1.04	mg/Kg	05/30/25 09:40	06/02/25 18:16	6010D	SW3050
7439-97-6	Mercury	0.044		1	0.0080	0.014	mg/Kg	05/30/25 08:35	05/30/25 13:40	7471B	
7440-02-0	Nickel	7.26		1	0.14	2.07	mg/Kg	05/30/25 09:40	06/02/25 18:16	6010D	SW3050
7440-09-7	Potassium	334	N*	1	28.7	104	mg/Kg	05/30/25 09:40	06/02/25 18:16	6010D	SW3050
7782-49-2	Selenium	0.27	U	1	0.27	1.04	mg/Kg	05/30/25 09:40	06/02/25 18:16	6010D	SW3050
7440-22-4	Silver	0.12	U	1	0.12	0.52	mg/Kg	05/30/25 09:40	06/02/25 18:16	6010D	SW3050
7440-23-5	Sodium	179	N	1	18.5	104	mg/Kg	05/30/25 09:40	06/02/25 18:16	6010D	SW3050
7440-28-0	Thallium	0.24	U	1	0.24	2.07	mg/Kg	05/30/25 09:40	06/02/25 18:16	6010D	SW3050
7440-62-2	Vanadium	22.7		1	0.26	2.07	mg/Kg	05/30/25 09:40	06/02/25 18:16	6010D	SW3050
7440-66-6	Zinc	23.6		1	0.24	2.07	mg/Kg	05/30/25 09:40	06/02/25 18:16	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:	05/28/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-54	SDG No.:	Q2150
Lab Sample ID:	Q2150-09	Matrix:	SOIL
Level (low/med):	low	% Solid:	83.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	4450		1	0.97	5.75	mg/Kg	05/30/25 09:40	06/02/25 18:20	6010D	SW3050
7440-36-0	Antimony	0.25	UN	1	0.25	2.88	mg/Kg	05/30/25 09:40	06/02/25 18:20	6010D	SW3050
7440-38-2	Arsenic	0.86	J	1	0.22	1.15	mg/Kg	05/30/25 09:40	06/02/25 18:20	6010D	SW3050
7440-39-3	Barium	20.1	*	1	0.84	5.75	mg/Kg	05/30/25 09:40	06/02/25 18:20	6010D	SW3050
7440-41-7	Beryllium	0.21	JN*	1	0.029	0.35	mg/Kg	05/30/25 09:40	06/02/25 18:20	6010D	SW3050
7440-43-9	Cadmium	0.028	U*	1	0.028	0.35	mg/Kg	05/30/25 09:40	06/02/25 18:20	6010D	SW3050
7440-70-2	Calcium	558	*	1	12.8	115	mg/Kg	05/30/25 09:40	06/02/25 18:20	6010D	SW3050
7440-47-3	Chromium	10.1	*	1	0.054	0.57	mg/Kg	05/30/25 09:40	06/02/25 18:20	6010D	SW3050
7440-48-4	Cobalt	0.76	J	1	0.12	1.73	mg/Kg	05/30/25 09:40	06/02/25 18:20	6010D	SW3050
7440-50-8	Copper	5.25	N*	1	0.25	1.15	mg/Kg	05/30/25 09:40	06/02/25 18:20	6010D	SW3050
7439-89-6	Iron	3090		1	4.59	5.75	mg/Kg	05/30/25 09:40	06/02/25 18:20	6010D	SW3050
7439-92-1	Lead	5.07		1	0.15	0.69	mg/Kg	05/30/25 09:40	06/02/25 18:20	6010D	SW3050
7439-95-4	Magnesium	574		1	13.8	115	mg/Kg	05/30/25 09:40	06/02/25 18:20	6010D	SW3050
7439-96-5	Manganese	13.5		1	0.16	1.15	mg/Kg	05/30/25 09:40	06/02/25 18:20	6010D	SW3050
7439-97-6	Mercury	0.0090	U	1	0.0090	0.016	mg/Kg	05/30/25 08:35	05/30/25 13:42	7471B	
7440-02-0	Nickel	2.40		1	0.15	2.30	mg/Kg	05/30/25 09:40	06/02/25 18:20	6010D	SW3050
7440-09-7	Potassium	489	N*	1	31.9	115	mg/Kg	05/30/25 09:40	06/02/25 18:20	6010D	SW3050
7782-49-2	Selenium	0.30	U	1	0.30	1.15	mg/Kg	05/30/25 09:40	06/02/25 18:20	6010D	SW3050
7440-22-4	Silver	0.14	U	1	0.14	0.57	mg/Kg	05/30/25 09:40	06/02/25 18:20	6010D	SW3050
7440-23-5	Sodium	285	N	1	20.5	115	mg/Kg	05/30/25 09:40	06/02/25 18:20	6010D	SW3050
7440-28-0	Thallium	0.27	U	1	0.27	2.30	mg/Kg	05/30/25 09:40	06/02/25 18:20	6010D	SW3050
7440-62-2	Vanadium	13.5		1	0.29	2.30	mg/Kg	05/30/25 09:40	06/02/25 18:20	6010D	SW3050
7440-66-6	Zinc	5.42		1	0.27	2.30	mg/Kg	05/30/25 09:40	06/02/25 18:20	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:	05/28/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-53	SDG No.:	Q2150
Lab Sample ID:	Q2150-10	Matrix:	SOIL
Level (low/med):	low	% Solid:	85.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	3290		1	0.93	5.53	mg/Kg	05/30/25 09:40	06/02/25 18:33	6010D	SW3050
7440-36-0	Antimony	0.24	UN	1	0.24	2.76	mg/Kg	05/30/25 09:40	06/02/25 18:33	6010D	SW3050
7440-38-2	Arsenic	3.50		1	0.21	1.11	mg/Kg	05/30/25 09:40	06/02/25 18:33	6010D	SW3050
7440-39-3	Barium	9.87	*	1	0.81	5.53	mg/Kg	05/30/25 09:40	06/02/25 18:33	6010D	SW3050
7440-41-7	Beryllium	0.38	N*	1	0.028	0.33	mg/Kg	05/30/25 09:40	06/02/25 18:33	6010D	SW3050
7440-43-9	Cadmium	0.027	U*	1	0.027	0.33	mg/Kg	05/30/25 09:40	06/02/25 18:33	6010D	SW3050
7440-70-2	Calcium	481	*	1	12.3	111	mg/Kg	05/30/25 09:40	06/02/25 18:33	6010D	SW3050
7440-47-3	Chromium	7.74	*	1	0.052	0.55	mg/Kg	05/30/25 09:40	06/02/25 18:33	6010D	SW3050
7440-48-4	Cobalt	1.09	J	1	0.11	1.66	mg/Kg	05/30/25 09:40	06/02/25 18:33	6010D	SW3050
7440-50-8	Copper	3.46	N*	1	0.24	1.11	mg/Kg	05/30/25 09:40	06/02/25 18:33	6010D	SW3050
7439-89-6	Iron	15000		1	4.41	5.53	mg/Kg	05/30/25 09:40	06/02/25 18:33	6010D	SW3050
7439-92-1	Lead	6.90		1	0.14	0.66	mg/Kg	05/30/25 09:40	06/02/25 18:33	6010D	SW3050
7439-95-4	Magnesium	206		1	13.3	111	mg/Kg	05/30/25 09:40	06/02/25 18:33	6010D	SW3050
7439-96-5	Manganese	22.9		1	0.16	1.11	mg/Kg	05/30/25 09:40	06/02/25 18:33	6010D	SW3050
7439-97-6	Mercury	0.016		1	0.0090	0.016	mg/Kg	05/30/25 08:35	05/30/25 13:44	7471B	
7440-02-0	Nickel	1.96	J	1	0.14	2.21	mg/Kg	05/30/25 09:40	06/02/25 18:33	6010D	SW3050
7440-09-7	Potassium	186	N*	1	30.6	111	mg/Kg	05/30/25 09:40	06/02/25 18:33	6010D	SW3050
7782-49-2	Selenium	0.29	U	1	0.29	1.11	mg/Kg	05/30/25 09:40	06/02/25 18:33	6010D	SW3050
7440-22-4	Silver	0.13	U	1	0.13	0.55	mg/Kg	05/30/25 09:40	06/02/25 18:33	6010D	SW3050
7440-23-5	Sodium	239	N	1	19.7	111	mg/Kg	05/30/25 09:40	06/02/25 18:33	6010D	SW3050
7440-28-0	Thallium	0.25	U	1	0.25	2.21	mg/Kg	05/30/25 09:40	06/02/25 18:33	6010D	SW3050
7440-62-2	Vanadium	19.8		1	0.28	2.21	mg/Kg	05/30/25 09:40	06/02/25 18:33	6010D	SW3050
7440-66-6	Zinc	5.58		1	0.25	2.21	mg/Kg	05/30/25 09:40	06/02/25 18:33	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.:	Q2150			
Contract:	CAMP02	Lab Code:	CHEM	Case No.:	Q2150	SAS No.:	Q2150		
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB22	Mercury	0.20	+/-0.20	U	0.20	CV	05/30/2025	12:18	LB135958

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith		SDG No.: Q2150							
Contract:	CAMP02	Lab Code:	CHEM	Case No.:	Q2150	SAS No.:	Q2150		
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB79	Mercury	0.20	+/-0.20	U	0.20	CV	05/30/2025	12:23	LB135958
CCB80	Mercury	0.20	+/-0.20	U	0.20	CV	05/30/2025	12:58	LB135958
CCB81	Mercury	0.20	+/-0.20	U	0.20	CV	05/30/2025	13:37	LB135958
CCB82	Mercury	0.20	+/-0.20	U	0.20	CV	05/30/2025	14:02	LB135958

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2150
Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2150 **SAS No.:** Q2150

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	06/02/2025	13:03	LB135981
	Antimony	50.0	+/-50.0	U	50.0	P	06/02/2025	13:03	LB135981
	Arsenic	20.0	+/-20.0	U	20.0	P	06/02/2025	13:03	LB135981
	Barium	100	+/-100	U	100	P	06/02/2025	13:03	LB135981
	Beryllium	6.00	+/-6.00	U	6.00	P	06/02/2025	13:03	LB135981
	Cadmium	6.00	+/-6.00	U	6.00	P	06/02/2025	13:03	LB135981
	Calcium	2000	+/-2000	U	2000	P	06/02/2025	13:03	LB135981
	Chromium	10.0	+/-10.0	U	10.0	P	06/02/2025	13:03	LB135981
	Cobalt	30.0	+/-30.0	U	30.0	P	06/02/2025	13:03	LB135981
	Copper	20.0	+/-20.0	U	20.0	P	06/02/2025	13:03	LB135981
	Iron	100	+/-100	U	100	P	06/02/2025	13:03	LB135981
	Lead	12.0	+/-12.0	U	12.0	P	06/02/2025	13:03	LB135981
	Magnesium	2000	+/-2000	U	2000	P	06/02/2025	13:03	LB135981
	Manganese	20.0	+/-20.0	U	20.0	P	06/02/2025	13:03	LB135981
	Nickel	40.0	+/-40.0	U	40.0	P	06/02/2025	13:03	LB135981
	Potassium	2000	+/-2000	U	2000	P	06/02/2025	13:03	LB135981
	Selenium	20.0	+/-20.0	U	20.0	P	06/02/2025	13:03	LB135981
	Silver	10.0	+/-10.0	U	10.0	P	06/02/2025	13:03	LB135981
	Sodium	2000	+/-2000	U	2000	P	06/02/2025	13:03	LB135981
	Thallium	40.0	+/-40.0	U	40.0	P	06/02/2025	13:03	LB135981
	Vanadium	40.0	+/-40.0	U	40.0	P	06/02/2025	13:03	LB135981
	Zinc	40.0	+/-40.0	U	40.0	P	06/02/2025	13:03	LB135981

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith		SDG No.: Q2150							
Contract: CAMP02	Lab Code: CHEM	Case No.: Q2150	SAS No.: Q2150						
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	06/02/2025	14:28	LB135981
	Antimony	50.0	+/-50.0	U	50.0	P	06/02/2025	14:28	LB135981
	Arsenic	20.0	+/-20.0	U	20.0	P	06/02/2025	14:28	LB135981
	Barium	100	+/-100	U	100	P	06/02/2025	14:28	LB135981
	Beryllium	6.00	+/-6.00	U	6.00	P	06/02/2025	14:28	LB135981
	Cadmium	6.00	+/-6.00	U	6.00	P	06/02/2025	14:28	LB135981
	Calcium	2000	+/-2000	U	2000	P	06/02/2025	14:28	LB135981
	Chromium	10.0	+/-10.0	U	10.0	P	06/02/2025	14:28	LB135981
	Cobalt	30.0	+/-30.0	U	30.0	P	06/02/2025	14:28	LB135981
	Copper	20.0	+/-20.0	U	20.0	P	06/02/2025	14:28	LB135981
	Iron	100	+/-100	U	100	P	06/02/2025	14:28	LB135981
	Lead	12.0	+/-12.0	U	12.0	P	06/02/2025	14:28	LB135981
	Magnesium	2000	+/-2000	U	2000	P	06/02/2025	14:28	LB135981
	Manganese	20.0	+/-20.0	U	20.0	P	06/02/2025	14:28	LB135981
	Nickel	40.0	+/-40.0	U	40.0	P	06/02/2025	14:28	LB135981
	Potassium	2000	+/-2000	U	2000	P	06/02/2025	14:28	LB135981
	Selenium	20.0	+/-20.0	U	20.0	P	06/02/2025	14:28	LB135981
	Silver	10.0	+/-10.0	U	10.0	P	06/02/2025	14:28	LB135981
	Sodium	2000	+/-2000	U	2000	P	06/02/2025	14:28	LB135981
	Thallium	40.0	+/-40.0	U	40.0	P	06/02/2025	14:28	LB135981
	Vanadium	40.0	+/-40.0	U	40.0	P	06/02/2025	14:28	LB135981
	Zinc	40.0	+/-40.0	U	40.0	P	06/02/2025	14:28	LB135981
CCB02	Aluminum	100	+/-100	U	100	P	06/02/2025	15:16	LB135981
	Antimony	50.0	+/-50.0	U	50.0	P	06/02/2025	15:16	LB135981
	Arsenic	20.0	+/-20.0	U	20.0	P	06/02/2025	15:16	LB135981
	Barium	100	+/-100	U	100	P	06/02/2025	15:16	LB135981
	Beryllium	6.00	+/-6.00	U	6.00	P	06/02/2025	15:16	LB135981
	Cadmium	6.00	+/-6.00	U	6.00	P	06/02/2025	15:16	LB135981
	Calcium	2000	+/-2000	U	2000	P	06/02/2025	15:16	LB135981
	Chromium	10.0	+/-10.0	U	10.0	P	06/02/2025	15:16	LB135981
	Cobalt	30.0	+/-30.0	U	30.0	P	06/02/2025	15:16	LB135981
	Copper	20.0	+/-20.0	U	20.0	P	06/02/2025	15:16	LB135981
	Iron	100	+/-100	U	100	P	06/02/2025	15:16	LB135981
	Lead	12.0	+/-12.0	U	12.0	P	06/02/2025	15:16	LB135981
	Magnesium	2000	+/-2000	U	2000	P	06/02/2025	15:16	LB135981
	Manganese	20.0	+/-20.0	U	20.0	P	06/02/2025	15:16	LB135981
	Nickel	40.0	+/-40.0	U	40.0	P	06/02/2025	15:16	LB135981
	Potassium	2000	+/-2000	U	2000	P	06/02/2025	15:16	LB135981
	Selenium	20.0	+/-20.0	U	20.0	P	06/02/2025	15:16	LB135981

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith		SDG No.: Q2150							
Contract: CAMP02	Lab Code: CHEM	Case No.: Q2150	SAS No.: Q2150						
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	06/02/2025	15:16	LB135981
	Sodium	2000	+/-2000	U	2000	P	06/02/2025	15:16	LB135981
	Thallium	40.0	+/-40.0	U	40.0	P	06/02/2025	15:16	LB135981
	Vanadium	40.0	+/-40.0	U	40.0	P	06/02/2025	15:16	LB135981
	Zinc	40.0	+/-40.0	U	40.0	P	06/02/2025	15:16	LB135981
CCB03	Aluminum	100	+/-100	U	100	P	06/02/2025	16:02	LB135981
	Antimony	50.0	+/-50.0	U	50.0	P	06/02/2025	16:02	LB135981
	Arsenic	20.0	+/-20.0	U	20.0	P	06/02/2025	16:02	LB135981
	Barium	100	+/-100	U	100	P	06/02/2025	16:02	LB135981
	Beryllium	6.00	+/-6.00	U	6.00	P	06/02/2025	16:02	LB135981
	Cadmium	6.00	+/-6.00	U	6.00	P	06/02/2025	16:02	LB135981
	Calcium	2000	+/-2000	U	2000	P	06/02/2025	16:02	LB135981
	Chromium	10.0	+/-10.0	U	10.0	P	06/02/2025	16:02	LB135981
	Cobalt	30.0	+/-30.0	U	30.0	P	06/02/2025	16:02	LB135981
	Copper	20.0	+/-20.0	U	20.0	P	06/02/2025	16:02	LB135981
	Iron	100	+/-100	U	100	P	06/02/2025	16:02	LB135981
	Lead	12.0	+/-12.0	U	12.0	P	06/02/2025	16:02	LB135981
	Magnesium	2000	+/-2000	U	2000	P	06/02/2025	16:02	LB135981
	Manganese	20.0	+/-20.0	U	20.0	P	06/02/2025	16:02	LB135981
	Nickel	40.0	+/-40.0	U	40.0	P	06/02/2025	16:02	LB135981
	Potassium	2000	+/-2000	U	2000	P	06/02/2025	16:02	LB135981
	Selenium	20.0	+/-20.0	U	20.0	P	06/02/2025	16:02	LB135981
	Silver	10.0	+/-10.0	U	10.0	P	06/02/2025	16:02	LB135981
	Sodium	2000	+/-2000	U	2000	P	06/02/2025	16:02	LB135981
	Thallium	40.0	+/-40.0	U	40.0	P	06/02/2025	16:02	LB135981
	Vanadium	40.0	+/-40.0	U	40.0	P	06/02/2025	16:02	LB135981
	Zinc	40.0	+/-40.0	U	40.0	P	06/02/2025	16:02	LB135981
CCB04	Aluminum	100	+/-100	U	100	P	06/02/2025	16:55	LB135981
	Antimony	50.0	+/-50.0	U	50.0	P	06/02/2025	16:55	LB135981
	Arsenic	20.0	+/-20.0	U	20.0	P	06/02/2025	16:55	LB135981
	Barium	100	+/-100	U	100	P	06/02/2025	16:55	LB135981
	Beryllium	6.00	+/-6.00	U	6.00	P	06/02/2025	16:55	LB135981
	Cadmium	6.00	+/-6.00	U	6.00	P	06/02/2025	16:55	LB135981
	Calcium	2000	+/-2000	U	2000	P	06/02/2025	16:55	LB135981
	Chromium	10.0	+/-10.0	U	10.0	P	06/02/2025	16:55	LB135981
	Cobalt	30.0	+/-30.0	U	30.0	P	06/02/2025	16:55	LB135981
	Copper	20.0	+/-20.0	U	20.0	P	06/02/2025	16:55	LB135981
	Iron	100	+/-100	U	100	P	06/02/2025	16:55	LB135981
	Lead	12.0	+/-12.0	U	12.0	P	06/02/2025	16:55	LB135981

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith		SDG No.: Q2150							
Contract: CAMP02	Lab Code: CHEM	Case No.: Q2150	SAS No.: Q2150						
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	06/02/2025	16:55	LB135981
	Manganese	20.0	+/-20.0	U	20.0	P	06/02/2025	16:55	LB135981
	Nickel	40.0	+/-40.0	U	40.0	P	06/02/2025	16:55	LB135981
	Potassium	2000	+/-2000	U	2000	P	06/02/2025	16:55	LB135981
	Selenium	20.0	+/-20.0	U	20.0	P	06/02/2025	16:55	LB135981
	Silver	10.0	+/-10.0	U	10.0	P	06/02/2025	16:55	LB135981
	Sodium	2000	+/-2000	U	2000	P	06/02/2025	16:55	LB135981
	Thallium	40.0	+/-40.0	U	40.0	P	06/02/2025	16:55	LB135981
	Vanadium	40.0	+/-40.0	U	40.0	P	06/02/2025	16:55	LB135981
	Zinc	40.0	+/-40.0	U	40.0	P	06/02/2025	16:55	LB135981
CCB05	Aluminum	100	+/-100	U	100	P	06/02/2025	17:42	LB135981
	Antimony	50.0	+/-50.0	U	50.0	P	06/02/2025	17:42	LB135981
	Arsenic	20.0	+/-20.0	U	20.0	P	06/02/2025	17:42	LB135981
	Barium	100	+/-100	U	100	P	06/02/2025	17:42	LB135981
	Beryllium	6.00	+/-6.00	U	6.00	P	06/02/2025	17:42	LB135981
	Cadmium	6.00	+/-6.00	U	6.00	P	06/02/2025	17:42	LB135981
	Calcium	2000	+/-2000	U	2000	P	06/02/2025	17:42	LB135981
	Chromium	10.0	+/-10.0	U	10.0	P	06/02/2025	17:42	LB135981
	Cobalt	30.0	+/-30.0	U	30.0	P	06/02/2025	17:42	LB135981
	Copper	20.0	+/-20.0	U	20.0	P	06/02/2025	17:42	LB135981
	Iron	100	+/-100	U	100	P	06/02/2025	17:42	LB135981
	Lead	12.0	+/-12.0	U	12.0	P	06/02/2025	17:42	LB135981
	Magnesium	2000	+/-2000	U	2000	P	06/02/2025	17:42	LB135981
	Manganese	20.0	+/-20.0	U	20.0	P	06/02/2025	17:42	LB135981
	Nickel	40.0	+/-40.0	U	40.0	P	06/02/2025	17:42	LB135981
	Potassium	2000	+/-2000	U	2000	P	06/02/2025	17:42	LB135981
	Selenium	20.0	+/-20.0	U	20.0	P	06/02/2025	17:42	LB135981
	Silver	10.0	+/-10.0	U	10.0	P	06/02/2025	17:42	LB135981
	Sodium	2000	+/-2000	U	2000	P	06/02/2025	17:42	LB135981
	Thallium	40.0	+/-40.0	U	40.0	P	06/02/2025	17:42	LB135981
	Vanadium	40.0	+/-40.0	U	40.0	P	06/02/2025	17:42	LB135981
	Zinc	40.0	+/-40.0	U	40.0	P	06/02/2025	17:42	LB135981
CCB06	Aluminum	100	+/-100	U	100	P	06/02/2025	18:28	LB135981
	Antimony	50.0	+/-50.0	U	50.0	P	06/02/2025	18:28	LB135981
	Arsenic	20.0	+/-20.0	U	20.0	P	06/02/2025	18:28	LB135981
	Barium	100	+/-100	U	100	P	06/02/2025	18:28	LB135981
	Beryllium	6.00	+/-6.00	U	6.00	P	06/02/2025	18:28	LB135981
	Cadmium	6.00	+/-6.00	U	6.00	P	06/02/2025	18:28	LB135981
	Calcium	2000	+/-2000	U	2000	P	06/02/2025	18:28	LB135981

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith		SDG No.: Q2150							
Contract: CAMP02	Lab Code: CHEM	Case No.: Q2150	SAS No.: Q2150						
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	06/02/2025	18:28	LB135981
	Cobalt	30.0	+/-30.0	U	30.0	P	06/02/2025	18:28	LB135981
	Copper	20.0	+/-20.0	U	20.0	P	06/02/2025	18:28	LB135981
	Iron	100	+/-100	U	100	P	06/02/2025	18:28	LB135981
	Lead	2.52	+/-12.0	J	12.0	P	06/02/2025	18:28	LB135981
	Magnesium	2000	+/-2000	U	2000	P	06/02/2025	18:28	LB135981
	Manganese	20.0	+/-20.0	U	20.0	P	06/02/2025	18:28	LB135981
	Nickel	40.0	+/-40.0	U	40.0	P	06/02/2025	18:28	LB135981
	Potassium	2000	+/-2000	U	2000	P	06/02/2025	18:28	LB135981
	Selenium	20.0	+/-20.0	U	20.0	P	06/02/2025	18:28	LB135981
	Silver	10.0	+/-10.0	U	10.0	P	06/02/2025	18:28	LB135981
	Sodium	2000	+/-2000	U	2000	P	06/02/2025	18:28	LB135981
	Thallium	40.0	+/-40.0	U	40.0	P	06/02/2025	18:28	LB135981
	Vanadium	40.0	+/-40.0	U	40.0	P	06/02/2025	18:28	LB135981
	Zinc	40.0	+/-40.0	U	40.0	P	06/02/2025	18:28	LB135981
CCB07	Aluminum	100	+/-100	U	100	P	06/02/2025	19:15	LB135981
	Antimony	50.0	+/-50.0	U	50.0	P	06/02/2025	19:15	LB135981
	Arsenic	20.0	+/-20.0	U	20.0	P	06/02/2025	19:15	LB135981
	Barium	100	+/-100	U	100	P	06/02/2025	19:15	LB135981
	Beryllium	6.00	+/-6.00	U	6.00	P	06/02/2025	19:15	LB135981
	Cadmium	6.00	+/-6.00	U	6.00	P	06/02/2025	19:15	LB135981
	Calcium	2000	+/-2000	U	2000	P	06/02/2025	19:15	LB135981
	Chromium	10.0	+/-10.0	U	10.0	P	06/02/2025	19:15	LB135981
	Cobalt	30.0	+/-30.0	U	30.0	P	06/02/2025	19:15	LB135981
	Copper	20.0	+/-20.0	U	20.0	P	06/02/2025	19:15	LB135981
	Iron	100	+/-100	U	100	P	06/02/2025	19:15	LB135981
	Lead	12.0	+/-12.0	U	12.0	P	06/02/2025	19:15	LB135981
	Magnesium	2000	+/-2000	U	2000	P	06/02/2025	19:15	LB135981
	Manganese	20.0	+/-20.0	U	20.0	P	06/02/2025	19:15	LB135981
	Nickel	40.0	+/-40.0	U	40.0	P	06/02/2025	19:15	LB135981
	Potassium	2000	+/-2000	U	2000	P	06/02/2025	19:15	LB135981
	Selenium	20.0	+/-20.0	U	20.0	P	06/02/2025	19:15	LB135981
	Silver	10.0	+/-10.0	U	10.0	P	06/02/2025	19:15	LB135981
	Sodium	2000	+/-2000	U	2000	P	06/02/2025	19:15	LB135981
	Thallium	40.0	+/-40.0	U	40.0	P	06/02/2025	19:15	LB135981
	Vanadium	40.0	+/-40.0	U	40.0	P	06/02/2025	19:15	LB135981
	Zinc	40.0	+/-40.0	U	40.0	P	06/02/2025	19:15	LB135981
CCB08	Aluminum	100	+/-100	U	100	P	06/02/2025	20:01	LB135981
	Antimony	50.0	+/-50.0	U	50.0	P	06/02/2025	20:01	LB135981

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith		SDG No.: Q2150							
Contract: CAMP02	Lab Code: CHEM	Case No.: Q2150	SAS No.: Q2150						
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	06/02/2025	20:01	LB135981
	Barium	100	+/-100	U	100	P	06/02/2025	20:01	LB135981
	Beryllium	6.00	+/-6.00	U	6.00	P	06/02/2025	20:01	LB135981
	Cadmium	6.00	+/-6.00	U	6.00	P	06/02/2025	20:01	LB135981
	Calcium	2000	+/-2000	U	2000	P	06/02/2025	20:01	LB135981
	Chromium	10.0	+/-10.0	U	10.0	P	06/02/2025	20:01	LB135981
	Cobalt	30.0	+/-30.0	U	30.0	P	06/02/2025	20:01	LB135981
	Copper	20.0	+/-20.0	U	20.0	P	06/02/2025	20:01	LB135981
	Iron	100	+/-100	U	100	P	06/02/2025	20:01	LB135981
	Lead	12.0	+/-12.0	U	12.0	P	06/02/2025	20:01	LB135981
	Magnesium	2000	+/-2000	U	2000	P	06/02/2025	20:01	LB135981
	Manganese	20.0	+/-20.0	U	20.0	P	06/02/2025	20:01	LB135981
	Nickel	40.0	+/-40.0	U	40.0	P	06/02/2025	20:01	LB135981
	Potassium	2000	+/-2000	U	2000	P	06/02/2025	20:01	LB135981
	Selenium	20.0	+/-20.0	U	20.0	P	06/02/2025	20:01	LB135981
	Silver	10.0	+/-10.0	U	10.0	P	06/02/2025	20:01	LB135981
	Sodium	2000	+/-2000	U	2000	P	06/02/2025	20:01	LB135981
	Thallium	40.0	+/-40.0	U	40.0	P	06/02/2025	20:01	LB135981
	Vanadium	40.0	+/-40.0	U	40.0	P	06/02/2025	20:01	LB135981
	Zinc	40.0	+/-40.0	U	40.0	P	06/02/2025	20:01	LB135981
CCB09	Aluminum	100	+/-100	U	100	P	06/02/2025	20:49	LB135981
	Antimony	50.0	+/-50.0	U	50.0	P	06/02/2025	20:49	LB135981
	Arsenic	20.0	+/-20.0	U	20.0	P	06/02/2025	20:49	LB135981
	Barium	100	+/-100	U	100	P	06/02/2025	20:49	LB135981
	Beryllium	6.00	+/-6.00	U	6.00	P	06/02/2025	20:49	LB135981
	Cadmium	6.00	+/-6.00	U	6.00	P	06/02/2025	20:49	LB135981
	Calcium	2000	+/-2000	U	2000	P	06/02/2025	20:49	LB135981
	Chromium	10.0	+/-10.0	U	10.0	P	06/02/2025	20:49	LB135981
	Cobalt	30.0	+/-30.0	U	30.0	P	06/02/2025	20:49	LB135981
	Copper	20.0	+/-20.0	U	20.0	P	06/02/2025	20:49	LB135981
	Iron	100	+/-100	U	100	P	06/02/2025	20:49	LB135981
	Lead	12.0	+/-12.0	U	12.0	P	06/02/2025	20:49	LB135981
	Magnesium	2000	+/-2000	U	2000	P	06/02/2025	20:49	LB135981
	Manganese	20.0	+/-20.0	U	20.0	P	06/02/2025	20:49	LB135981
	Nickel	40.0	+/-40.0	U	40.0	P	06/02/2025	20:49	LB135981
	Potassium	2000	+/-2000	U	2000	P	06/02/2025	20:49	LB135981
	Selenium	20.0	+/-20.0	U	20.0	P	06/02/2025	20:49	LB135981
	Silver	10.0	+/-10.0	U	10.0	P	06/02/2025	20:49	LB135981
	Sodium	2000	+/-2000	U	2000	P	06/02/2025	20:49	LB135981

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith		SDG No.: Q2150							
Contract: CAMP02	Lab Code: CHEM	Case No.: Q2150	SAS No.: Q2150						
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	06/02/2025	20:49	LB135981
	Vanadium	40.0	+/-40.0	U	40.0	P	06/02/2025	20:49	LB135981
	Zinc	40.0	+/-40.0	U	40.0	P	06/02/2025	20:49	LB135981
CCB10	Aluminum	100	+/-100	U	100	P	06/02/2025	21:11	LB135981
	Antimony	50.0	+/-50.0	U	50.0	P	06/02/2025	21:11	LB135981
	Arsenic	20.0	+/-20.0	U	20.0	P	06/02/2025	21:11	LB135981
	Barium	100	+/-100	U	100	P	06/02/2025	21:11	LB135981
	Beryllium	6.00	+/-6.00	U	6.00	P	06/02/2025	21:11	LB135981
	Cadmium	6.00	+/-6.00	U	6.00	P	06/02/2025	21:11	LB135981
	Calcium	2000	+/-2000	U	2000	P	06/02/2025	21:11	LB135981
	Chromium	10.0	+/-10.0	U	10.0	P	06/02/2025	21:11	LB135981
	Cobalt	30.0	+/-30.0	U	30.0	P	06/02/2025	21:11	LB135981
	Copper	20.0	+/-20.0	U	20.0	P	06/02/2025	21:11	LB135981
	Iron	100	+/-100	U	100	P	06/02/2025	21:11	LB135981
	Lead	12.0	+/-12.0	U	12.0	P	06/02/2025	21:11	LB135981
	Magnesium	2000	+/-2000	U	2000	P	06/02/2025	21:11	LB135981
	Manganese	20.0	+/-20.0	U	20.0	P	06/02/2025	21:11	LB135981
	Nickel	40.0	+/-40.0	U	40.0	P	06/02/2025	21:11	LB135981
	Potassium	2000	+/-2000	U	2000	P	06/02/2025	21:11	LB135981
	Selenium	20.0	+/-20.0	U	20.0	P	06/02/2025	21:11	LB135981
	Silver	10.0	+/-10.0	U	10.0	P	06/02/2025	21:11	LB135981
	Sodium	2000	+/-2000	U	2000	P	06/02/2025	21:11	LB135981
	Thallium	40.0	+/-40.0	U	40.0	P	06/02/2025	21:11	LB135981
	Vanadium	40.0	+/-40.0	U	40.0	P	06/02/2025	21:11	LB135981
	Zinc	40.0	+/-40.0	U	40.0	P	06/02/2025	21:11	LB135981

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: CDM Smith

SDG No.: Q2150

Instrument: CV1

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB168222BL		SOLID		Batch Number:	PB168222		Prep Date:	05/30/2025	
	Mercury	0.012	<0.012	U	0.012	CV	05/30/2025	12:35	LB135958

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: CDM Smith

SDG No.: Q2150

Instrument: P4

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB168215BL	SOLID			Batch Number:	PB168215		Prep Date:	05/30/2025	
	Aluminum	5.00	<5.00	U	5.00	P	06/02/2025	17:21	LB135981
	Antimony	2.50	<2.50	U	2.50	P	06/02/2025	17:21	LB135981
	Arsenic	1.00	<1.00	U	1.00	P	06/02/2025	17:21	LB135981
	Barium	5.00	<5.00	U	5.00	P	06/02/2025	17:21	LB135981
	Beryllium	0.30	<0.30	U	0.30	P	06/02/2025	17:21	LB135981
	Cadmium	0.30	<0.30	U	0.30	P	06/02/2025	17:21	LB135981
	Calcium	100	<100	U	100	P	06/02/2025	17:21	LB135981
	Chromium	0.055	<0.50	J	0.50	P	06/02/2025	17:21	LB135981
	Cobalt	1.50	<1.50	U	1.50	P	06/02/2025	17:21	LB135981
	Copper	1.00	<1.00	U	1.00	P	06/02/2025	17:21	LB135981
	Iron	5.00	<5.00	U	5.00	P	06/02/2025	17:21	LB135981
	Lead	0.60	<0.60	U	0.60	P	06/02/2025	17:21	LB135981
	Magnesium	100	<100	U	100	P	06/02/2025	17:21	LB135981
	Manganese	1.00	<1.00	U	1.00	P	06/02/2025	17:21	LB135981
	Nickel	2.00	<2.00	U	2.00	P	06/02/2025	17:21	LB135981
	Potassium	100	<100	U	100	P	06/02/2025	17:21	LB135981
	Selenium	1.00	<1.00	U	1.00	P	06/02/2025	17:21	LB135981
	Silver	0.50	<0.50	U	0.50	P	06/02/2025	17:21	LB135981
	Sodium	100	<100	U	100	P	06/02/2025	17:21	LB135981
	Thallium	2.00	<2.00	U	2.00	P	06/02/2025	17:21	LB135981
	Vanadium	2.00	<2.00	U	2.00	P	06/02/2025	17:21	LB135981
	Zinc	2.00	<2.00	U	2.00	P	06/02/2025	17:21	LB135981



METAL CALIBRATION DATA

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2150
Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2150 **SAS No.:** Q2150
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
ICV22	Mercury	3.84	4.0	96	90 - 110	CV	05/30/2025	12:16	LB135958

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2150
Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2150 **SAS No.:** Q2150
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
CCV79	Mercury	5.16	5.0	103	90 - 110	CV	05/30/2025	12:20	LB135958
CCV80	Mercury	5.23	5.0	104	90 - 110	CV	05/30/2025	12:55	LB135958
CCV81	Mercury	5.10	5.0	102	90 - 110	CV	05/30/2025	13:31	LB135958
CCV82	Mercury	5.06	5.0	101	90 - 110	CV	05/30/2025	14:00	LB135958

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith SDG No.: Q2150
Contract: CAMP02 Lab Code: CHEM Case No.: Q2150 SAS No.: Q2150
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	2560	2500	102	90 - 110	P	06/02/2025	12:37	LB135981
	Antimony	1060	1000	106	90 - 110	P	06/02/2025	12:37	LB135981
	Arsenic	1070	1000	107	90 - 110	P	06/02/2025	12:37	LB135981
	Barium	503	520	97	90 - 110	P	06/02/2025	12:37	LB135981
	Beryllium	520	510	102	90 - 110	P	06/02/2025	12:37	LB135981
	Cadmium	535	510	105	90 - 110	P	06/02/2025	12:37	LB135981
	Calcium	10100	10000	101	90 - 110	P	06/02/2025	12:37	LB135981
	Chromium	546	520	105	90 - 110	P	06/02/2025	12:37	LB135981
	Cobalt	537	520	103	90 - 110	P	06/02/2025	12:37	LB135981
	Copper	551	510	108	90 - 110	P	06/02/2025	12:37	LB135981
	Iron	10100	10000	100	90 - 110	P	06/02/2025	12:37	LB135981
	Lead	1040	1000	104	90 - 110	P	06/02/2025	12:37	LB135981
	Magnesium	6020	6000	100	90 - 110	P	06/02/2025	12:37	LB135981
	Manganese	516	520	99	90 - 110	P	06/02/2025	12:37	LB135981
	Nickel	542	530	102	90 - 110	P	06/02/2025	12:37	LB135981
	Potassium	9820	9900	99	90 - 110	P	06/02/2025	12:37	LB135981
	Selenium	1100	1000	110	90 - 110	P	06/02/2025	12:37	LB135981
	Silver	263	250	105	90 - 110	P	06/02/2025	12:37	LB135981
	Sodium	9470	10000	95	90 - 110	P	06/02/2025	12:37	LB135981
	Thallium	1070	1000	107	90 - 110	P	06/02/2025	12:37	LB135981
	Vanadium	496	500	99	90 - 110	P	06/02/2025	12:37	LB135981
	Zinc	1020	1000	102	90 - 110	P	06/02/2025	12:37	LB135981

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2150
Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2150 **SAS No.:** Q2150
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	06/02/2025	12:59	LB135981
	Antimony	51.4	50.0	103	80 - 120	P	06/02/2025	12:59	LB135981
	Arsenic	23.6	20.0	118	80 - 120	P	06/02/2025	12:59	LB135981
	Barium	94.9	100	95	80 - 120	P	06/02/2025	12:59	LB135981
	Beryllium	6.26	6.0	104	80 - 120	P	06/02/2025	12:59	LB135981
	Cadmium	5.95	6.0	99	80 - 120	P	06/02/2025	12:59	LB135981
	Calcium	1960	2000	98	80 - 120	P	06/02/2025	12:59	LB135981
	Chromium	10.2	10.0	102	80 - 120	P	06/02/2025	12:59	LB135981
	Cobalt	29.2	30.0	97	80 - 120	P	06/02/2025	12:59	LB135981
	Copper	21.2	20.0	106	80 - 120	P	06/02/2025	12:59	LB135981
	Iron	102	100	102	80 - 120	P	06/02/2025	12:59	LB135981
	Lead	13.3	12.0	111	80 - 120	P	06/02/2025	12:59	LB135981
	Magnesium	2010	2000	100	80 - 120	P	06/02/2025	12:59	LB135981
	Manganese	20.4	20.0	102	80 - 120	P	06/02/2025	12:59	LB135981
	Nickel	40.0	40.0	100	80 - 120	P	06/02/2025	12:59	LB135981
	Potassium	1770	2000	88	80 - 120	P	06/02/2025	12:59	LB135981
	Selenium	18.2	20.0	91	80 - 120	P	06/02/2025	12:59	LB135981
	Silver	9.21	10.0	92	80 - 120	P	06/02/2025	12:59	LB135981
	Sodium	1720	2000	86	80 - 120	P	06/02/2025	12:59	LB135981
	Thallium	38.8	40.0	97	80 - 120	P	06/02/2025	12:59	LB135981
	Vanadium	36.8	40.0	92	80 - 120	P	06/02/2025	12:59	LB135981
	Zinc	41.0	40.0	102	80 - 120	P	06/02/2025	12:59	LB135981

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith SDG No.: Q2150
Contract: CAMP02 Lab Code: CHEM Case No.: Q2150 SAS No.: Q2150
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	9970	10000	100	90 - 110	P	06/02/2025	14:14	LB135981
	Antimony	5030	5000	100	90 - 110	P	06/02/2025	14:14	LB135981
	Arsenic	4980	5000	100	90 - 110	P	06/02/2025	14:14	LB135981
	Barium	9890	10000	99	90 - 110	P	06/02/2025	14:14	LB135981
	Beryllium	246	250	99	90 - 110	P	06/02/2025	14:14	LB135981
	Cadmium	2450	2500	98	90 - 110	P	06/02/2025	14:14	LB135981
	Calcium	24600	25000	98	90 - 110	P	06/02/2025	14:14	LB135981
	Chromium	1000	1000	100	90 - 110	P	06/02/2025	14:14	LB135981
	Cobalt	2450	2500	98	90 - 110	P	06/02/2025	14:14	LB135981
	Copper	1260	1250	101	90 - 110	P	06/02/2025	14:14	LB135981
	Iron	5070	5000	101	90 - 110	P	06/02/2025	14:14	LB135981
	Lead	4920	5000	98	90 - 110	P	06/02/2025	14:14	LB135981
	Magnesium	24600	25000	98	90 - 110	P	06/02/2025	14:14	LB135981
	Manganese	2460	2500	98	90 - 110	P	06/02/2025	14:14	LB135981
	Nickel	2470	2500	99	90 - 110	P	06/02/2025	14:14	LB135981
	Potassium	25600	25000	102	90 - 110	P	06/02/2025	14:14	LB135981
	Selenium	4820	5000	96	90 - 110	P	06/02/2025	14:14	LB135981
	Silver	1260	1250	101	90 - 110	P	06/02/2025	14:14	LB135981
	Sodium	25500	25000	102	90 - 110	P	06/02/2025	14:14	LB135981
	Thallium	4780	5000	96	90 - 110	P	06/02/2025	14:14	LB135981
CCV02	Vanadium	2470	2500	99	90 - 110	P	06/02/2025	14:14	LB135981
	Zinc	2670	2500	107	90 - 110	P	06/02/2025	14:14	LB135981
	Aluminum	10200	10000	102	90 - 110	P	06/02/2025	15:11	LB135981
	Antimony	5040	5000	101	90 - 110	P	06/02/2025	15:11	LB135981
	Arsenic	5000	5000	100	90 - 110	P	06/02/2025	15:11	LB135981
	Barium	9760	10000	98	90 - 110	P	06/02/2025	15:11	LB135981
	Beryllium	263	250	105	90 - 110	P	06/02/2025	15:11	LB135981
	Cadmium	2450	2500	98	90 - 110	P	06/02/2025	15:11	LB135981
	Calcium	24900	25000	100	90 - 110	P	06/02/2025	15:11	LB135981
	Chromium	1010	1000	101	90 - 110	P	06/02/2025	15:11	LB135981
	Cobalt	2460	2500	99	90 - 110	P	06/02/2025	15:11	LB135981
	Copper	1260	1250	101	90 - 110	P	06/02/2025	15:11	LB135981
	Iron	4790	5000	96	90 - 110	P	06/02/2025	15:11	LB135981
	Lead	4910	5000	98	90 - 110	P	06/02/2025	15:11	LB135981

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith SDG No.: Q2150
 Contract: CAMP02 Lab Code: CHEM Case No.: Q2150 SAS No.: Q2150
 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	25300	25000	101	90 - 110	P	06/02/2025	15:11	LB135981
	Manganese	2470	2500	99	90 - 110	P	06/02/2025	15:11	LB135981
	Nickel	2470	2500	99	90 - 110	P	06/02/2025	15:11	LB135981
	Potassium	24000	25000	96	90 - 110	P	06/02/2025	15:11	LB135981
	Selenium	4970	5000	99	90 - 110	P	06/02/2025	15:11	LB135981
	Silver	1250	1250	100	90 - 110	P	06/02/2025	15:11	LB135981
	Sodium	23600	25000	94	90 - 110	P	06/02/2025	15:11	LB135981
	Thallium	4690	5000	94	90 - 110	P	06/02/2025	15:11	LB135981
	Vanadium	2490	2500	100	90 - 110	P	06/02/2025	15:11	LB135981
	Zinc	2640	2500	106	90 - 110	P	06/02/2025	15:11	LB135981
CCV03	Aluminum	9720	10000	97	90 - 110	P	06/02/2025	15:58	LB135981
	Antimony	4890	5000	98	90 - 110	P	06/02/2025	15:58	LB135981
	Arsenic	4820	5000	96	90 - 110	P	06/02/2025	15:58	LB135981
	Barium	9720	10000	97	90 - 110	P	06/02/2025	15:58	LB135981
	Beryllium	237	250	95	90 - 110	P	06/02/2025	15:58	LB135981
	Cadmium	2380	2500	95	90 - 110	P	06/02/2025	15:58	LB135981
	Calcium	23900	25000	96	90 - 110	P	06/02/2025	15:58	LB135981
	Chromium	976	1000	98	90 - 110	P	06/02/2025	15:58	LB135981
	Cobalt	2390	2500	96	90 - 110	P	06/02/2025	15:58	LB135981
	Copper	1220	1250	98	90 - 110	P	06/02/2025	15:58	LB135981
	Iron	4860	5000	97	90 - 110	P	06/02/2025	15:58	LB135981
	Lead	4770	5000	95	90 - 110	P	06/02/2025	15:58	LB135981
	Magnesium	23700	25000	95	90 - 110	P	06/02/2025	15:58	LB135981
	Manganese	2390	2500	96	90 - 110	P	06/02/2025	15:58	LB135981
	Nickel	2400	2500	96	90 - 110	P	06/02/2025	15:58	LB135981
	Potassium	24300	25000	97	90 - 110	P	06/02/2025	15:58	LB135981
	Selenium	4850	5000	97	90 - 110	P	06/02/2025	15:58	LB135981
	Silver	1220	1250	98	90 - 110	P	06/02/2025	15:58	LB135981
	Sodium	24600	25000	98	90 - 110	P	06/02/2025	15:58	LB135981
	Thallium	4550	5000	91	90 - 110	P	06/02/2025	15:58	LB135981
CCV04	Vanadium	2410	2500	96	90 - 110	P	06/02/2025	15:58	LB135981
	Zinc	2420	2500	97	90 - 110	P	06/02/2025	15:58	LB135981
	Aluminum	9910	10000	99	90 - 110	P	06/02/2025	16:49	LB135981
	Antimony	4980	5000	100	90 - 110	P	06/02/2025	16:49	LB135981

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith SDG No.: Q2150
 Contract: CAMP02 Lab Code: CHEM Case No.: Q2150 SAS No.: Q2150
 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	4990	5000	100	90 - 110	P	06/02/2025	16:49	LB135981
	Barium	9540	10000	95	90 - 110	P	06/02/2025	16:49	LB135981
	Beryllium	245	250	98	90 - 110	P	06/02/2025	16:49	LB135981
	Cadmium	2460	2500	99	90 - 110	P	06/02/2025	16:49	LB135981
	Calcium	24300	25000	97	90 - 110	P	06/02/2025	16:49	LB135981
	Chromium	1000	1000	100	90 - 110	P	06/02/2025	16:49	LB135981
	Cobalt	2460	2500	98	90 - 110	P	06/02/2025	16:49	LB135981
	Copper	1250	1250	100	90 - 110	P	06/02/2025	16:49	LB135981
	Iron	4730	5000	95	90 - 110	P	06/02/2025	16:49	LB135981
	Lead	4910	5000	98	90 - 110	P	06/02/2025	16:49	LB135981
	Magnesium	24600	25000	98	90 - 110	P	06/02/2025	16:49	LB135981
	Manganese	2390	2500	96	90 - 110	P	06/02/2025	16:49	LB135981
	Nickel	2470	2500	99	90 - 110	P	06/02/2025	16:49	LB135981
	Potassium	23700	25000	95	90 - 110	P	06/02/2025	16:49	LB135981
	Selenium	5020	5000	100	90 - 110	P	06/02/2025	16:49	LB135981
	Silver	1210	1250	97	90 - 110	P	06/02/2025	16:49	LB135981
	Sodium	22900	25000	92	90 - 110	P	06/02/2025	16:49	LB135981
	Thallium	5020	5000	100	90 - 110	P	06/02/2025	16:49	LB135981
	Vanadium	2440	2500	98	90 - 110	P	06/02/2025	16:49	LB135981
	Zinc	2630	2500	105	90 - 110	P	06/02/2025	16:49	LB135981
CCV05	Aluminum	9690	10000	97	90 - 110	P	06/02/2025	17:38	LB135981
	Antimony	4840	5000	97	90 - 110	P	06/02/2025	17:38	LB135981
	Arsenic	4820	5000	96	90 - 110	P	06/02/2025	17:38	LB135981
	Barium	9460	10000	95	90 - 110	P	06/02/2025	17:38	LB135981
	Beryllium	240	250	96	90 - 110	P	06/02/2025	17:38	LB135981
	Cadmium	2380	2500	95	90 - 110	P	06/02/2025	17:38	LB135981
	Calcium	23700	25000	95	90 - 110	P	06/02/2025	17:38	LB135981
	Chromium	991	1000	99	90 - 110	P	06/02/2025	17:38	LB135981
	Cobalt	2380	2500	95	90 - 110	P	06/02/2025	17:38	LB135981
	Copper	1210	1250	97	90 - 110	P	06/02/2025	17:38	LB135981
	Iron	4810	5000	96	90 - 110	P	06/02/2025	17:38	LB135981
	Lead	4760	5000	95	90 - 110	P	06/02/2025	17:38	LB135981
	Magnesium	23800	25000	95	90 - 110	P	06/02/2025	17:38	LB135981
	Manganese	2330	2500	93	90 - 110	P	06/02/2025	17:38	LB135981

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith SDG No.: Q2150
 Contract: CAMP02 Lab Code: CHEM Case No.: Q2150 SAS No.: Q2150
 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	2380	2500	95	90 - 110	P	06/02/2025	17:38	LB135981
	Potassium	23800	25000	95	90 - 110	P	06/02/2025	17:38	LB135981
	Selenium	4850	5000	97	90 - 110	P	06/02/2025	17:38	LB135981
	Silver	1220	1250	98	90 - 110	P	06/02/2025	17:38	LB135981
	Sodium	23600	25000	94	90 - 110	P	06/02/2025	17:38	LB135981
	Thallium	4820	5000	96	90 - 110	P	06/02/2025	17:38	LB135981
	Vanadium	2390	2500	96	90 - 110	P	06/02/2025	17:38	LB135981
	Zinc	2420	2500	97	90 - 110	P	06/02/2025	17:38	LB135981
CCV06	Aluminum	9520	10000	95	90 - 110	P	06/02/2025	18:24	LB135981
	Antimony	4870	5000	98	90 - 110	P	06/02/2025	18:24	LB135981
	Arsenic	4860	5000	97	90 - 110	P	06/02/2025	18:24	LB135981
	Barium	9660	10000	97	90 - 110	P	06/02/2025	18:24	LB135981
	Beryllium	229	250	92	90 - 110	P	06/02/2025	18:24	LB135981
	Cadmium	2410	2500	96	90 - 110	P	06/02/2025	18:24	LB135981
	Calcium	23800	25000	95	90 - 110	P	06/02/2025	18:24	LB135981
	Chromium	989	1000	99	90 - 110	P	06/02/2025	18:24	LB135981
	Cobalt	2400	2500	96	90 - 110	P	06/02/2025	18:24	LB135981
	Copper	1230	1250	98	90 - 110	P	06/02/2025	18:24	LB135981
	Iron	5170	5000	103	90 - 110	P	06/02/2025	18:24	LB135981
	Lead	4800	5000	96	90 - 110	P	06/02/2025	18:24	LB135981
	Magnesium	23500	25000	94	90 - 110	P	06/02/2025	18:24	LB135981
	Manganese	2370	2500	95	90 - 110	P	06/02/2025	18:24	LB135981
	Nickel	2410	2500	96	90 - 110	P	06/02/2025	18:24	LB135981
	Potassium	25200	25000	101	90 - 110	P	06/02/2025	18:24	LB135981
	Selenium	4890	5000	98	90 - 110	P	06/02/2025	18:24	LB135981
	Silver	1230	1250	98	90 - 110	P	06/02/2025	18:24	LB135981
	Sodium	25500	25000	102	90 - 110	P	06/02/2025	18:24	LB135981
	Thallium	4800	5000	96	90 - 110	P	06/02/2025	18:24	LB135981
	Vanadium	2390	2500	96	90 - 110	P	06/02/2025	18:24	LB135981
	Zinc	2390	2500	96	90 - 110	P	06/02/2025	18:24	LB135981
CCV07	Aluminum	9660	10000	97	90 - 110	P	06/02/2025	19:11	LB135981
	Antimony	4830	5000	97	90 - 110	P	06/02/2025	19:11	LB135981
	Arsenic	4820	5000	96	90 - 110	P	06/02/2025	19:11	LB135981
	Barium	9350	10000	94	90 - 110	P	06/02/2025	19:11	LB135981

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith SDG No.: Q2150
 Contract: CAMP02 Lab Code: CHEM Case No.: Q2150 SAS No.: Q2150
 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	249	250	100	90 - 110	P	06/02/2025	19:11	LB135981
	Cadmium	2430	2500	97	90 - 110	P	06/02/2025	19:11	LB135981
	Calcium	24000	25000	96	90 - 110	P	06/02/2025	19:11	LB135981
	Chromium	1000	1000	100	90 - 110	P	06/02/2025	19:11	LB135981
	Cobalt	2420	2500	97	90 - 110	P	06/02/2025	19:11	LB135981
	Copper	1220	1250	98	90 - 110	P	06/02/2025	19:11	LB135981
	Iron	4830	5000	97	90 - 110	P	06/02/2025	19:11	LB135981
	Lead	4820	5000	96	90 - 110	P	06/02/2025	19:11	LB135981
	Magnesium	24200	25000	97	90 - 110	P	06/02/2025	19:11	LB135981
	Manganese	2380	2500	95	90 - 110	P	06/02/2025	19:11	LB135981
	Nickel	2420	2500	97	90 - 110	P	06/02/2025	19:11	LB135981
	Potassium	23600	25000	94	90 - 110	P	06/02/2025	19:11	LB135981
	Selenium	4820	5000	96	90 - 110	P	06/02/2025	19:11	LB135981
	Silver	1230	1250	99	90 - 110	P	06/02/2025	19:11	LB135981
	Sodium	23700	25000	95	90 - 110	P	06/02/2025	19:11	LB135981
	Thallium	4790	5000	96	90 - 110	P	06/02/2025	19:11	LB135981
	Vanadium	2410	2500	96	90 - 110	P	06/02/2025	19:11	LB135981
	Zinc	2310	2500	92	90 - 110	P	06/02/2025	19:11	LB135981
CCV08	Aluminum	9690	10000	97	90 - 110	P	06/02/2025	19:57	LB135981
	Antimony	4900	5000	98	90 - 110	P	06/02/2025	19:57	LB135981
	Arsenic	4890	5000	98	90 - 110	P	06/02/2025	19:57	LB135981
	Barium	9520	10000	95	90 - 110	P	06/02/2025	19:57	LB135981
	Beryllium	247	250	99	90 - 110	P	06/02/2025	19:57	LB135981
	Cadmium	2430	2500	97	90 - 110	P	06/02/2025	19:57	LB135981
	Calcium	24200	25000	97	90 - 110	P	06/02/2025	19:57	LB135981
	Chromium	1000	1000	100	90 - 110	P	06/02/2025	19:57	LB135981
	Cobalt	2430	2500	97	90 - 110	P	06/02/2025	19:57	LB135981
	Copper	1240	1250	99	90 - 110	P	06/02/2025	19:57	LB135981
	Iron	4930	5000	99	90 - 110	P	06/02/2025	19:57	LB135981
	Lead	4830	5000	97	90 - 110	P	06/02/2025	19:57	LB135981
	Magnesium	24200	25000	97	90 - 110	P	06/02/2025	19:57	LB135981
	Manganese	2400	2500	96	90 - 110	P	06/02/2025	19:57	LB135981
	Nickel	2430	2500	97	90 - 110	P	06/02/2025	19:57	LB135981
	Potassium	24100	25000	96	90 - 110	P	06/02/2025	19:57	LB135981

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith SDG No.: Q2150
Contract: CAMP02 Lab Code: CHEM Case No.: Q2150 SAS No.: Q2150
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	4920	5000	98	90 - 110	P	06/02/2025	19:57	LB135981
	Silver	1240	1250	99	90 - 110	P	06/02/2025	19:57	LB135981
	Sodium	24100	25000	96	90 - 110	P	06/02/2025	19:57	LB135981
	Thallium	4750	5000	95	90 - 110	P	06/02/2025	19:57	LB135981
	Vanadium	2420	2500	97	90 - 110	P	06/02/2025	19:57	LB135981
	Zinc	2270	2500	91	90 - 110	P	06/02/2025	19:57	LB135981
CCV09	Aluminum	9620	10000	96	90 - 110	P	06/02/2025	20:45	LB135981
	Antimony	4870	5000	98	90 - 110	P	06/02/2025	20:45	LB135981
	Arsenic	4840	5000	97	90 - 110	P	06/02/2025	20:45	LB135981
	Barium	9650	10000	96	90 - 110	P	06/02/2025	20:45	LB135981
	Beryllium	236	250	94	90 - 110	P	06/02/2025	20:45	LB135981
	Cadmium	2410	2500	97	90 - 110	P	06/02/2025	20:45	LB135981
	Calcium	24100	25000	96	90 - 110	P	06/02/2025	20:45	LB135981
	Chromium	977	1000	98	90 - 110	P	06/02/2025	20:45	LB135981
	Cobalt	2410	2500	96	90 - 110	P	06/02/2025	20:45	LB135981
	Copper	1230	1250	98	90 - 110	P	06/02/2025	20:45	LB135981
	Iron	4890	5000	98	90 - 110	P	06/02/2025	20:45	LB135981
	Lead	4810	5000	96	90 - 110	P	06/02/2025	20:45	LB135981
	Magnesium	23900	25000	96	90 - 110	P	06/02/2025	20:45	LB135981
	Manganese	2410	2500	96	90 - 110	P	06/02/2025	20:45	LB135981
	Nickel	2410	2500	96	90 - 110	P	06/02/2025	20:45	LB135981
	Potassium	23800	25000	95	90 - 110	P	06/02/2025	20:45	LB135981
	Selenium	4870	5000	98	90 - 110	P	06/02/2025	20:45	LB135981
	Silver	1200	1250	96	90 - 110	P	06/02/2025	20:45	LB135981
	Sodium	24000	25000	96	90 - 110	P	06/02/2025	20:45	LB135981
	Thallium	4700	5000	94	90 - 110	P	06/02/2025	20:45	LB135981
	Vanadium	2420	2500	97	90 - 110	P	06/02/2025	20:45	LB135981
	Zinc	2270	2500	91	90 - 110	P	06/02/2025	20:45	LB135981
CCV10	Aluminum	11.3	10000	0	90 - 110	P	06/02/2025	21:06	LB135981
	Antimony	6.76	5000	0	90 - 110	P	06/02/2025	21:06	LB135981
	Arsenic	5.12	5000	0	90 - 110	P	06/02/2025	21:06	LB135981
	Barium	14.6	10000	0	90 - 110	P	06/02/2025	21:06	LB135981
	Beryllium	0.56	250	0	90 - 110	P	06/02/2025	21:06	LB135981
	Cadmium	0.50	2500	0	90 - 110	P	06/02/2025	21:06	LB135981

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith SDG No.: Q2150
Contract: CAMP02 Lab Code: CHEM Case No.: Q2150 SAS No.: Q2150
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	234	25000	0	90 - 110	P	06/02/2025	21:06	LB135981
	Chromium	2.12	1000	0	90 - 110	P	06/02/2025	21:06	LB135981
	Cobalt	2.26	2500	0	90 - 110	P	06/02/2025	21:06	LB135981
	Copper	4.60	1250	0	90 - 110	P	06/02/2025	21:06	LB135981
	Iron	23.4	5000	0	90 - 110	P	06/02/2025	21:06	LB135981
	Lead	2.30	5000	0	90 - 110	P	06/02/2025	21:06	LB135981
	Magnesium	244	25000	0	90 - 110	P	06/02/2025	21:06	LB135981
	Manganese	5.94	2500	0	90 - 110	P	06/02/2025	21:06	LB135981
	Nickel	3.06	2500	0	90 - 110	P	06/02/2025	21:06	LB135981
	Potassium	918	25000	0	90 - 110	P	06/02/2025	21:06	LB135981
	Selenium	9.64	5000	0	90 - 110	P	06/02/2025	21:06	LB135981
	Silver	1.62	1250	0	90 - 110	P	06/02/2025	21:06	LB135981
	Sodium	868	25000	1	90 - 110	P	06/02/2025	21:06	LB135981
	Thallium	4.38	5000	0	90 - 110	P	06/02/2025	21:06	LB135981
	Vanadium	6.26	2500	0	90 - 110	P	06/02/2025	21:06	LB135981
	Zinc	16.7	2500	0	90 - 110	P	06/02/2025	21:06	LB135981

Metals

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CRDL STANDARD FOR AA & ICP

Client: CDM Smith **SDG No.:** Q2150
Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2150 **SAS No.:** Q2150
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	95	70 - 130	CV	05/30/2025	12:25	LB135958
CRI01	Aluminum	102	100	102	65 - 135	P	06/02/2025	13:08	LB135981
	Antimony	48.0	50.0	96	65 - 135	P	06/02/2025	13:08	LB135981
	Arsenic	20.4	20.0	102	65 - 135	P	06/02/2025	13:08	LB135981
	Barium	92.5	100	92	65 - 135	P	06/02/2025	13:08	LB135981
	Beryllium	5.91	6.0	99	65 - 135	P	06/02/2025	13:08	LB135981
	Cadmium	5.90	6.0	98	65 - 135	P	06/02/2025	13:08	LB135981
	Calcium	1910	2000	95	65 - 135	P	06/02/2025	13:08	LB135981
	Chromium	9.95	10.0	100	65 - 135	P	06/02/2025	13:08	LB135981
	Cobalt	28.9	30.0	96	65 - 135	P	06/02/2025	13:08	LB135981
	Copper	21.2	20.0	106	65 - 135	P	06/02/2025	13:08	LB135981
	Iron	106	100	106	65 - 135	P	06/02/2025	13:08	LB135981
	Lead	13.1	12.0	109	65 - 135	P	06/02/2025	13:08	LB135981
	Magnesium	1930	2000	96	65 - 135	P	06/02/2025	13:08	LB135981
	Manganese	20.1	20.0	101	65 - 135	P	06/02/2025	13:08	LB135981
	Nickel	39.5	40.0	99	65 - 135	P	06/02/2025	13:08	LB135981
	Potassium	1740	2000	87	65 - 135	P	06/02/2025	13:08	LB135981
	Selenium	19.1	20.0	96	65 - 135	P	06/02/2025	13:08	LB135981
	Silver	9.30	10.0	93	65 - 135	P	06/02/2025	13:08	LB135981
	Sodium	1690	2000	85	65 - 135	P	06/02/2025	13:08	LB135981
	Thallium	35.9	40.0	90	65 - 135	P	06/02/2025	13:08	LB135981
	Vanadium	36.5	40.0	91	65 - 135	P	06/02/2025	13:08	LB135981
	Zinc	40.4	40.0	101	65 - 135	P	06/02/2025	13:08	LB135981

Metals
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INTERFERENCE CHECK SAMPLE

Client: CDM Smith **SDG No.:** Q2150
Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2150 **SAS No.:** Q2150
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	250000	255000	98	216000	294000	06/02/2025	13:12	LB135981
	Antimony	-6.12			-50	50	06/02/2025	13:12	LB135981
	Arsenic	7.53			-20	20	06/02/2025	13:12	LB135981
	Barium	4.16	6.0	69	-94	106	06/02/2025	13:12	LB135981
	Beryllium	0.96			-6	6	06/02/2025	13:12	LB135981
	Cadmium	1.80	1.0	180	-5	7	06/02/2025	13:12	LB135981
	Calcium	235000	245000	96	208000	282000	06/02/2025	13:12	LB135981
	Chromium	47.6	52.0	92	42	62	06/02/2025	13:12	LB135981
	Cobalt	1.94			-30	30	06/02/2025	13:12	LB135981
	Copper	3.13	2.0	156	-18	22	06/02/2025	13:12	LB135981
	Iron	95800	101000	95	85600	116500	06/02/2025	13:12	LB135981
	Lead	-1.56			-12	12	06/02/2025	13:12	LB135981
	Magnesium	253000	255000	99	216000	294000	06/02/2025	13:12	LB135981
	Manganese	0.90	7.0	13	-13	27	06/02/2025	13:12	LB135981
	Nickel	3.02	2.0	151	-38	42	06/02/2025	13:12	LB135981
	Potassium	-11.0			0	0	06/02/2025	13:12	LB135981
	Selenium	-20.0			-20	20	06/02/2025	13:12	LB135981
	Silver	-1.42			-10	10	06/02/2025	13:12	LB135981
	Sodium	24.0			0	0	06/02/2025	13:12	LB135981
	Thallium	-1.34			-40	40	06/02/2025	13:12	LB135981
	Vanadium	2.48			-40	40	06/02/2025	13:12	LB135981
	Zinc	15.1			-40	40	06/02/2025	13:12	LB135981
ICSAB01	Aluminum	254000	247000	103	209000	285000	06/02/2025	13:35	LB135981
	Antimony	637	618	103	525	711	06/02/2025	13:35	LB135981
	Arsenic	113	104	109	88.4	120	06/02/2025	13:35	LB135981
	Barium	494	537	92	437	637	06/02/2025	13:35	LB135981
	Beryllium	491	495	99	420	570	06/02/2025	13:35	LB135981
	Cadmium	995	972	102	826	1120	06/02/2025	13:35	LB135981
	Calcium	239000	235000	102	199000	271000	06/02/2025	13:35	LB135981
	Chromium	565	542	104	460	624	06/02/2025	13:35	LB135981
	Cobalt	507	476	106	404	548	06/02/2025	13:35	LB135981
	Copper	508	511	99	434	588	06/02/2025	13:35	LB135981
	Iron	104000	99300	105	84400	114500	06/02/2025	13:35	LB135981
	Lead	42.0	49.0	86	37	61	06/02/2025	13:35	LB135981
	Magnesium	257000	248000	104	210000	286000	06/02/2025	13:35	LB135981
	Manganese	483	507	95	430	584	06/02/2025	13:35	LB135981
	Nickel	1010	954	106	810	1100	06/02/2025	13:35	LB135981
	Potassium	-12.9			0	0	06/02/2025	13:35	LB135981
	Selenium	60.7	46.0	132	26	66	06/02/2025	13:35	LB135981
	Silver	217	201	108	170	232	06/02/2025	13:35	LB135981
	Sodium	-31.0			0	0	06/02/2025	13:35	LB135981
	Thallium	99.6	108	92	68	148	06/02/2025	13:35	LB135981

Metals
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INTERFERENCE CHECK SAMPLE

Client: <u>CDM Smith</u>	SDG No.: <u>Q2150</u>
Contract: <u>CAMP02</u>	Lab Code: <u>CHEM</u>
ICS Source: <u>EPA</u>	Case No.: <u>Q2150</u>
	SAS No.: <u>Q2150</u>
	Instrument ID: <u>P4</u>

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	485	491	99	417	565	06/02/2025	13:35	LB135981
	Zinc	1020	952	107	809	1095	06/02/2025	13:35	LB135981



METAL QC DATA

metals
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MATRIX SPIKE SUMMARY

client: CDM Smith	level: low	sdg no.: Q2150
contract: CAMP02	lab code: CHEM	case no.: Q2150 sas no.: Q2150
matrix: Solid	sample id: Q2150-01	client id: TP-44MS
Percent Solids for Sample: 78.9	Spiked ID: Q2150-01MS	Percent Solids for Spike Sample: 78.9

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.34		0.030		0.33	95		CV

metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: CDM Smith	level: low	sdg no.: Q2150
contract: CAMP02	lab code: CHEM	case no.: Q2150 sas no.: Q2150
matrix: Solid	sample id: Q2150-01	client id: TP-44MSD
Percent Solids for Sample: 78.9	Spiked ID: Q2150-01MSD	Percent Solids for Spike Sample: 78.9

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.32		0.030		0.3	95		CV

metals
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MATRIX SPIKE SUMMARY

client: CDM Smith **level:** low **sdg no.:** Q2150
contract: CAMP02 **lab code:** CHEM **case no.:** Q2150 **sas no.:** Q2150
matrix: Solid **sample id:** Q2152-01 **client id:** OK-02-05292025MS
Percent Solids for Sample: 88 **Spiked ID:** Q2152-01MS **Percent Solids for Spike Sample:** 88

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	5510		5040		100	470		P
Antimony	mg/Kg	75 - 125	16.1		2.32	U	41.1	39	N	P
Arsenic	mg/Kg	75 - 125	35.7		1.71		41.1	83		P
Barium	mg/Kg	75 - 125	32.4		22.3		10.3	98		P
Beryllium	mg/Kg	75 - 125	8.10		0.43		10.3	74	N	P
Cadmium	mg/Kg	75 - 125	10.6		0.59		10.3	97		P
Calcium	mg/Kg	75 - 125	3330		4220		51.4	-1717		P
Chromium	mg/Kg	75 - 125	28.5		10.7		20.6	87		P
Cobalt	mg/Kg	75 - 125	18.4		8.33		10.3	97		P
Copper	mg/Kg	75 - 125	43.3		32.7		15.4	69	N	P
Iron	mg/Kg	75 - 125	12600		12500		150	78		P
Lead	mg/Kg	75 - 125	58.2		6.97		51.4	100		P
Magnesium	mg/Kg	75 - 125	3150		3070		100	76		P
Manganese	mg/Kg	75 - 125	175		150		10.3	246		P
Nickel	mg/Kg	75 - 125	41.4		13.2		25.7	109		P
Potassium	mg/Kg	75 - 125	1670		1290		510	74	N	P
Selenium	mg/Kg	75 - 125	78.5		0.93	U	100	78		P
Silver	mg/Kg	75 - 125	3.14		0.46	U	3.9	80		P
Sodium	mg/Kg	75 - 125	427		319		150	72	N	P
Thallium	mg/Kg	75 - 125	90.8		1.86	U	100	91		P
Vanadium	mg/Kg	75 - 125	35.5		23.8		15.4	76		P
Zinc	mg/Kg	75 - 125	33.6		23.6		10.3	97		P

metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: CDM Smith **level:** low **sdg no.:** Q2150
contract: CAMP02 **lab code:** CHEM **case no.:** Q2150 **sas no.:** Q2150
matrix: Solid **sample id:** Q2152-01 **client id:** OK-02-05292025MSD
Percent Solids for Sample: 88 **Spiked ID:** Q2152-01MSD **Percent Solids for Spike Sample:** 88

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	5690		5040		100	649		P
Antimony	mg/Kg	75 - 125	15.0		2.32	U	40.4	37	N	P
Arsenic	mg/Kg	75 - 125	34.9		1.71		40.4	82		P
Barium	mg/Kg	75 - 125	33.5		22.3		10.1	110		P
Beryllium	mg/Kg	75 - 125	8.49		0.43		10.1	80		P
Cadmium	mg/Kg	75 - 125	10.2		0.59		10.1	95		P
Calcium	mg/Kg	75 - 125	3990		4220		50.5	-454		P
Chromium	mg/Kg	75 - 125	31.2		10.7		20.2	101		P
Cobalt	mg/Kg	75 - 125	18.5		8.33		10.1	101		P
Copper	mg/Kg	75 - 125	45.7		32.7		15.2	86		P
Iron	mg/Kg	75 - 125	12800		12500		150	210		P
Lead	mg/Kg	75 - 125	54.4		6.97		50.5	94		P
Magnesium	mg/Kg	75 - 125	3460		3070		100	394		P
Manganese	mg/Kg	75 - 125	171		150		10.1	215		P
Nickel	mg/Kg	75 - 125	38.6		13.2		25.3	100		P
Potassium	mg/Kg	75 - 125	1900		1290		510	119		P
Selenium	mg/Kg	75 - 125	77.0		0.93	U	100	77		P
Silver	mg/Kg	75 - 125	3.06		0.46	U	3.8	80		P
Sodium	mg/Kg	75 - 125	449		319		150	86		P
Thallium	mg/Kg	75 - 125	88.9		1.86	U	100	89		P
Vanadium	mg/Kg	75 - 125	36.4		23.8		15.2	83		P
Zinc	mg/Kg	75 - 125	32.9		23.6		10.1	92		P

Metals
- 5b -
POST DIGEST SPIKE SUMMARY

Client: CDM Smith	SDG No.: Q2150	
Contract: CAMP02	Lab Code: CHEM	Case No.: Q2150 SAS No.: Q2150
Matrix: Solid	Level: LOW	Client ID: OK-02-05292025A
Sample ID: Q2152-01	Spiked ID: Q2152-01A	

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Antimony	mg/Kg	75 - 125	31.1		2.32	U	37.1	84		P
Beryllium	mg/Kg	75 - 125	7.71		0.43		9.30	78		P
Copper	mg/Kg	75 - 125	47.6		32.7		13.9	108		P
Potassium	mg/Kg	75 - 125	1940		1290		460	143	N	P
Sodium	mg/Kg	75 - 125	376		319		140	41	N	P

Metals

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DUPLICATE SAMPLE SUMMARY

Client:	<u>CDM Smith</u>	Level:	<u>LOW</u>	SDG No.:	<u>Q2150</u>
Contract:	<u>CAMP02</u>	Lab Code:	<u>CHEM</u>	Case No.:	<u>Q2150</u>
Matrix:	<u>Solid</u>	Sample ID:	<u>Q2150-01</u>	Client ID:	<u>TP-44DUP</u>
Percent Solids for Sample:	78.9	Duplicate ID	Q2150-01DUP	Percent Solids for Spike Sample:	78.9

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	mg/Kg	20	0.030		0.026		14		CV

Metals

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DUPLICATE SAMPLE SUMMARY

Client:	<u>CDM Smith</u>	Level:	<u>LOW</u>	SDG No.:	<u>Q2150</u>
Contract:	<u>CAMP02</u>	Lab Code:	<u>CHEM</u>	Case No.:	<u>Q2150</u>
Matrix:	<u>Solid</u>	Sample ID:	<u>Q2150-01MS</u>	Client ID:	<u>TP-44MSD</u>
Percent Solids for Sample:	78.9	Duplicate ID	Q2150-01MSD	Percent Solids for Spike Sample:	78.9

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	mg/Kg	20	0.34		0.32		9		CV

Metals

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DUPLICATE SAMPLE SUMMARY

Client: CDM Smith **Level:** LOW **SDG No.:** Q2150
Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2150 **SAS No.:** Q2150
Matrix: Solid **Sample ID:** Q2152-01 **Client ID:** OK-02-05292025DUP
Percent Solids for Sample: 88 **Duplicate ID** Q2152-01DUP **Percent Solids for Spike Sample:** 88

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg	20	5040		5650		11		P
Antimony	mg/Kg	20	2.32	U	2.56	U			P
Arsenic	mg/Kg	20	1.71		1.76		3		P
Barium	mg/Kg	20	22.3		30.5		31	*	P
Beryllium	mg/Kg	20	0.43		0.31		34	*	P
Cadmium	mg/Kg	20	0.59		0.45		27	*	P
Calcium	mg/Kg	20	4220		3020		33	*	P
Chromium	mg/Kg	20	10.7		16.1		41	*	P
Cobalt	mg/Kg	20	8.33		8.00		4		P
Copper	mg/Kg	20	32.7		40.6		22	*	P
Iron	mg/Kg	20	12500		13100		5		P
Lead	mg/Kg	20	6.97		7.83		12		P
Magnesium	mg/Kg	20	3070		3560		15		P
Manganese	mg/Kg	20	150		169		12		P
Nickel	mg/Kg	20	13.2		15.4		15		P
Potassium	mg/Kg	20	1290		1790		32	*	P
Selenium	mg/Kg	20	0.93	U	1.02	U			P
Silver	mg/Kg	20	0.46	U	0.51	U			P
Sodium	mg/Kg	20	319		302		5		P
Thallium	mg/Kg	20	1.86	U	2.05	U			P
Vanadium	mg/Kg	20	23.8		23.9		0		P
Zinc	mg/Kg	20	23.6		26.0		10		P

Metals

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DUPLICATE SAMPLE SUMMARY

Client: CDM Smith **Level:** LOW **SDG No.:** Q2150
Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2150 **SAS No.:** Q2150
Matrix: Solid **Sample ID:** Q2152-01MS **Client ID:** OK-02-05292025MSD
Percent Solids for Sample: 88 **Duplicate ID** Q2152-01MSD **Percent Solids for Spike Sample:** 88

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg	20	5510		5690		3		P
Antimony	mg/Kg	20	16.1		15.0		7		P
Arsenic	mg/Kg	20	35.7		34.9		2		P
Barium	mg/Kg	20	32.4		33.5		3		P
Beryllium	mg/Kg	20	8.10		8.49		5		P
Cadmium	mg/Kg	20	10.6		10.2		4		P
Calcium	mg/Kg	20	3330		3990		18		P
Chromium	mg/Kg	20	28.5		31.2		9		P
Cobalt	mg/Kg	20	18.4		18.5		1		P
Copper	mg/Kg	20	43.3		45.7		5		P
Iron	mg/Kg	20	12600		12800		2		P
Lead	mg/Kg	20	58.2		54.4		7		P
Magnesium	mg/Kg	20	3150		3460		9		P
Manganese	mg/Kg	20	175		171		2		P
Nickel	mg/Kg	20	41.4		38.6		7		P
Potassium	mg/Kg	20	1670		1900		13		P
Selenium	mg/Kg	20	78.5		77.0		2		P
Silver	mg/Kg	20	3.14		3.06		3		P
Sodium	mg/Kg	20	427		449		5		P
Thallium	mg/Kg	20	90.8		88.9		2		P
Vanadium	mg/Kg	20	35.5		36.4		3		P
Zinc	mg/Kg	20	33.6		32.9		2		P

Metals

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LABORATORY CONTROL SAMPLE SUMMARY

Client: CDM Smith **SDG No.:** Q2150
Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2150 **SAS No.:** Q2150

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB168215BS							
Aluminum	mg/Kg	100	99.8		100	80 - 120	P
Antimony	mg/Kg	40.0	42.0		105	80 - 120	P
Arsenic	mg/Kg	40.0	41.0		102	80 - 120	P
Barium	mg/Kg	10.0	9.37		94	80 - 120	P
Beryllium	mg/Kg	10.0	10.1		101	80 - 120	P
Cadmium	mg/Kg	10.0	10.0		100	80 - 120	P
Calcium	mg/Kg	50.0	50.4	J	101	80 - 120	P
Chromium	mg/Kg	20.0	20.8		104	80 - 120	P
Cobalt	mg/Kg	10.0	10.0		100	80 - 120	P
Copper	mg/Kg	15.0	15.9		106	80 - 120	P
Iron	mg/Kg	150	152		101	80 - 120	P
Lead	mg/Kg	50.0	48.9		98	80 - 120	P
Magnesium	mg/Kg	100	97.4	J	97	80 - 120	P
Manganese	mg/Kg	10.0	9.85		98	80 - 120	P
Nickel	mg/Kg	25.0	25.4		102	80 - 120	P
Potassium	mg/Kg	500	484		97	80 - 120	P
Selenium	mg/Kg	100	104		104	80 - 120	P
Silver	mg/Kg	3.8	3.77		99	80 - 120	P
Sodium	mg/Kg	150	138		92	80 - 120	P
Thallium	mg/Kg	100	99.5		100	80 - 120	P
Vanadium	mg/Kg	15.0	14.7		98	80 - 120	P
Zinc	mg/Kg	10.0	10.3		103	80 - 120	P

Metals

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LABORATORY CONTROL SAMPLE SUMMARY

Client: CDM Smith **SDG No.:** Q2150
Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2150 **SAS No.:** Q2150

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB168222BS Mercury	mg/Kg	0.25	0.21		86	80 - 120	CV

Metals
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ICP SERIAL DILUTIONS

SAMPLE NO.

TP-44L

Lab Name: Chemtech Consulting Group **Contract:** CAMP02

Lab Code: CHEM **Lb No.:** lb135958 **Lab Sample ID :** Q2150-01L **SDG No.:** Q2150

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	0.076 U	100.0		CV

Metals
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ICP SERIAL DILUTIONS

SAMPLE NO.

OK-02-05292025L

Lab Name: Chemtech Consulting Group

Contract: CAMP02

Lab Code: CHEM Lb No.: lb135981 Lab Sample ID : Q2152-01L SDG No.: Q2150

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	5040		6090		21		P
Antimony	2.32	U	11.6	U			P
Arsenic	1.71		2.40	J	40		P
Barium	22.3		26.5		19		P
Beryllium	0.43		0.56	J	30		P
Cadmium	0.59		1.39	U	100.0		P
Calcium	4220		5230		24		P
Chromium	10.7		13.2		24		P
Cobalt	8.33		7.99		4		P
Copper	32.7		41.6		27		P
Iron	12500		14600		17		P
Lead	6.97		7.01		1		P
Magnesium	3070		3780		23		P
Manganese	150		189		26		P
Nickel	13.2		13.2		0		P
Potassium	1290		1390		8		P
Selenium	0.93	U	4.64	U			P
Silver	0.46	U	2.32	U			P
Sodium	319		344	J	8		P
Thallium	1.86	U	9.28	U			P
Vanadium	23.8		29.0		22		P
Zinc	23.6		30.2		28		P

metals
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ANALYSIS RUN LOG

Client: CDM Smith **Contract:** CAMP02

Lab code: CHEM **Case no.:** Q2150 **Sas no.:** Q2150 **Sdg no.:** Q2150

Instrument id number: **Method:** **Run number:** LB135958

Start date: 05/30/2025 **End date:** 05/30/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1145	HG
S0.2	S0.2	1	1148	HG
S2.5	S2.5	1	1150	HG
S5	S5	1	1158	HG
S7.5	S7.5	1	1203	HG
S10	S10	1	1210	HG
ICV22	ICV22	1	1216	HG
ICB22	ICB22	1	1218	HG
CCV79	CCV79	1	1220	HG
CCB79	CCB79	1	1223	HG
CRA	CRA	1	1225	HG
PB168222BL	PB168222BL	1	1235	HG
PB168222BS	PB168222BS	1	1242	HG
CCV80	CCV80	1	1255	HG
CCB80	CCB80	1	1258	HG
Q2150-01	TP-44	1	1305	HG
Q2150-01DUP	TP-44DUP	1	1307	HG
Q2150-01MS	TP-44MS	1	1312	HG
Q2150-01MSD	TP-44MSD	1	1315	HG
Q2150-02	TP-42	1	1317	HG
Q2150-03	TP-39	1	1319	HG
Q2150-04	TP-48	1	1322	HG
Q2150-05	TP-47	1	1324	HG
Q2150-06	TP-50	1	1326	HG
Q2150-07	TP-51	1	1328	HG
CCV81	CCV81	1	1331	HG
CCB81	CCB81	1	1337	HG
Q2150-08	TP-52	1	1340	HG
Q2150-09	TP-54	1	1342	HG
Q2150-10	TP-53	1	1344	HG
Q2150-01L	TP-44L	5	1356	HG
CCV82	CCV82	1	1400	HG
CCB82	CCB82	1	1402	HG

metals
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ANALYSIS RUN LOG

Client: CDM Smith **Contract:** CAMP02

Lab code: CHEM **Case no.:** Q2150 **Sas no.:** Q2150 **Sdg no.:** Q2150

Instrument id number: **Method:** **Run number:** LB135981

Start date: 06/02/2025 **End date:** 06/02/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1212	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	1216	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	1221	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	1225	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	1229	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	1233	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	1237	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	1259	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	1303	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	1308	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	1312	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	1335	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSA01	ICSA01	20	1345	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSAB01	ICSAB01	20	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	1414	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	1428	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	1511	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	1516	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2152-01DUP	OK-02-05292025DUP	1	1550	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2152-01L	OK-02-05292025L	5	1554	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	1558	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	1602	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2152-01MS	OK-02-05292025MS	1	1606	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2152-01MSD	OK-02-05292025MSD	1	1610	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2152-01A	OK-02-05292025A	1	1614	Be,Cu,K,Na,Sb
CCV04	CCV04	1	1649	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	1655	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB168215BL	PB168215BL	1	1721	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB168215BS	PB168215BS	1	1725	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	1738	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	1742	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2150-01	TP-44	1	1747	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2150-02	TP-42	1	1751	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2150-03	TP-39	1	1755	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2150-04	TP-48	1	1759	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2150-05	TP-47	1	1803	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2150-06	TP-50	1	1807	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2150-07	TP-51	1	1812	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2150-08	TP-52	1	1816	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2150-09	TP-54	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	1824	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.:** Q2150 **Sas no.:** Q2150 **Sdg no.:** Q2150

Instrument id number: **Method:** **Run number:** LB135981

Start date: 06/02/2025 **End date:** 06/02/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
CCB06	CCB06	1	1828	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2150-10	TP-53	1	1833	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	1911	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	1915	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	1957	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	2001	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	2045	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	2049	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	2106	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB10	CCB10	1	2111	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.: Q2150

Contract: CAMP02

Lab Code: CHEM

Case No.: Q2150

SAS No.: Q2150

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.: Q2150

Contract: CAMP02

Lab Code: CHEM

Case No.: Q2150

SAS No.: Q2150

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.: Q2150

Contract: CAMP02

Lab Code: CHEM

Case No.: Q2150

SAS No.: Q2150

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.: Q2150

Contract: CAMP02

Lab Code: CHEM

Case No.: Q2150

SAS No.: Q2150

Instrument ID:

Date:

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interelement 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 INTERELEMENT CORRECTION FACTORS

Client: CDM Smith

SDG No.: Q2150

Contract: CAMP02

Lab Code: CHEM

Case No.: Q2150

SAS No.: Q2150

Instrument ID: _____

Date: _____

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interelement 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:	Q2150	OrderDate:	5/28/2025 3:53:00 PM
Client:	CDM Smith	Project:	South River WM Replacement
Contact:	Marcie Ann Encinas	Location:	L41,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2150-01	TP-44	SOIL			05/27/25			05/28/25
			Mercury	7471B		05/30/25	05/30/25	
			Metals ICP-TAL	6010D		05/30/25	06/02/25	
Q2150-02	TP-42	SOIL			05/27/25			05/28/25
			Mercury	7471B		05/30/25	05/30/25	
			Metals ICP-TAL	6010D		05/30/25	06/02/25	
Q2150-03	TP-39	SOIL			05/27/25			05/28/25
			Mercury	7471B		05/30/25	05/30/25	
			Metals ICP-TAL	6010D		05/30/25	06/02/25	
Q2150-04	TP-48	SOIL			05/27/25			05/28/25
			Mercury	7471B		05/30/25	05/30/25	
			Metals ICP-TAL	6010D		05/30/25	06/02/25	
Q2150-05	TP-47	SOIL			05/27/25			05/28/25
			Mercury	7471B		05/30/25	05/30/25	
			Metals ICP-TAL	6010D		05/30/25	06/02/25	
Q2150-06	TP-50	SOIL			05/27/25			05/28/25
			Mercury	7471B		05/30/25	05/30/25	
			Metals ICP-TAL	6010D		05/30/25	06/02/25	
Q2150-07	TP-51	SOIL			05/27/25			05/28/25
			Mercury	7471B		05/30/25	05/30/25	
			Metals ICP-TAL	6010D		05/30/25	06/02/25	
Q2150-08	TP-52	SOIL			05/28/25			05/28/25
			Mercury	7471B		05/30/25	05/30/25	
			Metals ICP-TAL	6010D		05/30/25	06/02/25	
Q2150-09	TP-54	SOIL			05/28/25			05/28/25

LAB CHRONICLE

Q2150-10	TP-53	SOIL	Mercury	7471B	05/30/25	05/30/25	05/28/25	05/28/25
			Metals ICP-TAL	6010D	05/30/25	06/02/25		
			Mercury	7471B	05/30/25	05/30/25		
			Metals ICP-TAL	6010D	05/30/25	06/02/25		



METAL PREPARATION & ANALYICAL SUMMARY

Metals
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SAMPLE PREPARATION SUMMARY

Client:	<u>CDM Smith</u>	SDG No.:	<u>Q2150</u>
Contract:	<u>CAMP02</u>	Lab Code:	<u>CHEM</u>
		Method:	<u></u>
		Case No.:	<u>Q2150</u>
		SAS No.:	<u>Q2150</u>

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB168215							
PB168215BL	PB168215BL	MB	SOLID	05/30/2025	2.00	100.0	100.00
PB168215BS	PB168215BS	LCS	SOLID	05/30/2025	2.00	100.0	100.00
Q2150-01	TP-44	SAM	SOLID	05/30/2025	2.10	100.0	78.90
Q2150-02	TP-42	SAM	SOLID	05/30/2025	2.18	100.0	86.20
Q2150-03	TP-39	SAM	SOLID	05/30/2025	2.10	100.0	83.70
Q2150-04	TP-48	SAM	SOLID	05/30/2025	2.11	100.0	80.70
Q2150-05	TP-47	SAM	SOLID	05/30/2025	2.18	100.0	81.00
Q2150-06	TP-50	SAM	SOLID	05/30/2025	2.44	100.0	86.00
Q2150-07	TP-51	SAM	SOLID	05/30/2025	2.19	100.0	83.70
Q2150-08	TP-52	SAM	SOLID	05/30/2025	2.25	100.0	85.70
Q2150-09	TP-54	SAM	SOLID	05/30/2025	2.08	100.0	83.60
Q2150-10	TP-53	SAM	SOLID	05/30/2025	2.12	100.0	85.30
Q2152-01DUP	OK-02-05292025DUP	DUP	SOLID	05/30/2025	2.22	100.0	88.00
Q2152-01MS	OK-02-05292025MS	MS	SOLID	05/30/2025	2.21	100.0	88.00
Q2152-01MSD	OK-02-05292025MSD	MSD	SOLID	05/30/2025	2.25	100.0	88.00

Metals

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SAMPLE PREPARATION SUMMARY

Client: CDM Smith **SDG No.:** Q2150
Contract: CAMP02 **Lab Code:** CHEM **Method:**
Case No.: Q2150 **SAS No.:** Q2150

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB168222							
PB168222BL	PB168222BL	MB	SOLID	05/30/2025	0.59	35.0	100.00
PB168222BS	PB168222BS	LCS	SOLID	05/30/2025	0.57	35.0	100.00
Q2150-01	TP-44	SAM	SOLID	05/30/2025	0.58	35.0	78.90
Q2150-01DUP	TP-44DUP	DUP	SOLID	05/30/2025	0.59	35.0	78.90
Q2150-01MS	TP-44MS	MS	SOLID	05/30/2025	0.53	35.0	78.90
Q2150-01MSD	TP-44MSD	MSD	SOLID	05/30/2025	0.60	35.0	78.90
Q2150-02	TP-42	SAM	SOLID	05/30/2025	0.60	35.0	86.20
Q2150-03	TP-39	SAM	SOLID	05/30/2025	0.55	35.0	83.70
Q2150-04	TP-48	SAM	SOLID	05/30/2025	0.56	35.0	80.70
Q2150-05	TP-47	SAM	SOLID	05/30/2025	0.56	35.0	81.00
Q2150-06	TP-50	SAM	SOLID	05/30/2025	0.54	35.0	86.00
Q2150-07	TP-51	SAM	SOLID	05/30/2025	0.50	35.0	83.70
Q2150-08	TP-52	SAM	SOLID	05/30/2025	0.60	35.0	85.70
Q2150-09	TP-54	SAM	SOLID	05/30/2025	0.54	35.0	83.60
Q2150-10	TP-53	SAM	SOLID	05/30/2025	0.50	35.0	85.30

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QC Batch ID # LB135958

Review By	MOHAN	Review On	6/2/2025 10:14:34 AM
Supervise By	jaswal	Supervise On	6/2/2025 4:46:20 PM
STD. NAME	STD REF.#		
ICAL Standard	MP85798,MP85799,MP85800,MP85801,MP85802,MP85803		
ICV Standard	MP85804		
CCV Standard	MP85806		
ICSA Standard			
CRI Standard	MP85808		
LCS Standard			
Chk Standard	MP85805,MP85807,MP85809,MP85811		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	05/30/25 11:45		MOHAN	OK
2	S0.2	S0.2	CAL2	05/30/25 11:48		MOHAN	OK
3	S2.5	S2.5	CAL3	05/30/25 11:50		MOHAN	OK
4	S5	S5	CAL4	05/30/25 11:58		MOHAN	OK
5	S7.5	S7.5	CAL5	05/30/25 12:03		MOHAN	OK
6	S10	S10	CAL6	05/30/25 12:10		MOHAN	OK
7	ICV22	ICV22	ICV	05/30/25 12:16		MOHAN	OK
8	ICB22	ICB22	ICB	05/30/25 12:18		MOHAN	OK
9	CCV79	CCV79	CCV	05/30/25 12:20		MOHAN	OK
10	CCB79	CCB79	CCB	05/30/25 12:23		MOHAN	OK
11	CRA	CRA	CRDL	05/30/25 12:25		MOHAN	OK
12	HighStd	HighStd	HIGH STD	05/30/25 12:27		MOHAN	OK
13	ChkStd	ChkStd	SAM	05/30/25 12:29		MOHAN	OK
14	PB168222BL	PB168222BL	MB	05/30/25 12:35		MOHAN	OK
15	PB168222BS	PB168222BS	LCS	05/30/25 12:42		MOHAN	OK
16	Q2136-01	OR-646-COMP-52	SAM	05/30/25 12:44		MOHAN	OK
17	Q2137-01	MOO-25-0151	SAM	05/30/25 12:46		MOHAN	OK
18	Q2139-01	BELL-25-0010	SAM	05/30/25 12:48		MOHAN	OK

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QC Batch ID # LB135958

Review By	MOHAN	Review On	6/2/2025 10:14:34 AM
Supervise By	jaswal	Supervise On	6/2/2025 4:46:20 PM
STD. NAME	STD REF.#		
ICAL Standard	MP85798,MP85799,MP85800,MP85801,MP85802,MP85803		
ICV Standard	MP85804		
CCV Standard	MP85806		
ICSA Standard			
CRI Standard	MP85808		
LCS Standard			
Chk Standard	MP85805,MP85807,MP85809,MP85811		

19	Q2141-01	VNJ-215	SAM	05/30/25 12:51		MOHAN	OK
20	Q2146-01	TP04-MHN-WC	SAM	05/30/25 12:53		MOHAN	OK
21	CCV80	CCV80	CCV	05/30/25 12:55		MOHAN	OK
22	CCB80	CCB80	CCB	05/30/25 12:58		MOHAN	OK
23	Q2150-01	TP-44	SAM	05/30/25 13:05		MOHAN	OK
24	Q2150-01DUP	TP-44DUP	DUP	05/30/25 13:07		MOHAN	OK
25	Q2150-01MS	TP-44MS	MS	05/30/25 13:12		MOHAN	OK
26	Q2150-01MSD	TP-44MSD	MSD	05/30/25 13:15		MOHAN	OK
27	Q2150-02	TP-42	SAM	05/30/25 13:17		MOHAN	OK
28	Q2150-03	TP-39	SAM	05/30/25 13:19		MOHAN	OK
29	Q2150-04	TP-48	SAM	05/30/25 13:22		MOHAN	OK
30	Q2150-05	TP-47	SAM	05/30/25 13:24		MOHAN	OK
31	Q2150-06	TP-50	SAM	05/30/25 13:26		MOHAN	OK
32	Q2150-07	TP-51	SAM	05/30/25 13:28		MOHAN	OK
33	CCV81	CCV81	CCV	05/30/25 13:31		MOHAN	OK
34	CCB81	CCB81	CCB	05/30/25 13:37		MOHAN	OK
35	Q2150-08	TP-52	SAM	05/30/25 13:40		MOHAN	OK
36	Q2150-09	TP-54	SAM	05/30/25 13:42		MOHAN	OK
37	Q2150-10	TP-53	SAM	05/30/25 13:44		MOHAN	OK
38	Q2151-01	WC-1	SAM	05/30/25 13:47		MOHAN	OK

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QC Batch ID # LB135958

Review By	MOHAN	Review On	6/2/2025 10:14:34 AM
Supervise By	jaswal	Supervise On	6/2/2025 4:46:20 PM
STD. NAME	STD REF.#		
ICAL Standard	MP85798,MP85799,MP85800,MP85801,MP85802,MP85803		
ICV Standard	MP85804		
CCV Standard	MP85806		
ICSA Standard			
CRI Standard	MP85808		
LCS Standard			
Chk Standard	MP85805,MP85807,MP85809,MP85811		

39	Q2155-01	446	SAM	05/30/25 13:49		MOHAN	OK
40	Q2155-02	447-SOLID	SAM	05/30/25 13:51		MOHAN	OK
41	Q2157-01	291	SAM	05/30/25 13:53		MOHAN	OK
42	Q2150-01L	TP-44L	SD	05/30/25 13:56		MOHAN	OK
43	Q2150-01A	TP-44A	PS	05/30/25 13:58		MOHAN	OK
44	CCV82	CCV82	CCV	05/30/25 14:00		MOHAN	OK
45	CCB82	CCB82	CCB	05/30/25 14:02		MOHAN	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB135981

Review By	jaswal	Review On	6/3/2025 4:30:35 PM
Supervise By	mohan	Supervise On	6/3/2025 4:36:15 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	06/02/25 12:12		Jaswal	OK
2	S1	S1	CAL2	06/02/25 12:16		Jaswal	OK
3	S2	S2	CAL3	06/02/25 12:21		Jaswal	OK
4	S3	S3	CAL4	06/02/25 12:25		Jaswal	OK
5	S4	S4	CAL5	06/02/25 12:29		Jaswal	OK
6	S5	S5	CAL6	06/02/25 12:33		Jaswal	OK
7	ICV01	ICV01	ICV	06/02/25 12:37		Jaswal	OK
8	LLICV01	LLICV01	LLICV	06/02/25 12:59		Jaswal	OK
9	ICB01	ICB01	ICB	06/02/25 13:03		Jaswal	OK
10	CRI01	CRI01	CRDL	06/02/25 13:08		Jaswal	OK
11	ICSA01	ICSA01	ICSA	06/02/25 13:12		Jaswal	OK
12	ICSAB01	ICSAB01	ICSAB	06/02/25 13:35		Jaswal	OK
13	ICSA01DL	ICSA01DL	ICSA	06/02/25 13:45		Jaswal	OK
14	ICSAB01DL	ICSAB01DL	ICSAB	06/02/25 13:56		Jaswal	OK
15	CCV01	CCV01	CCV	06/02/25 14:14		Jaswal	OK
16	CCB01	CCB01	CCB	06/02/25 14:28		Jaswal	OK
17	Q2136-05	OR-646-COMP-52	SAM	06/02/25 14:32		Jaswal	OK
18	Q2143-01	ELI-46-36-25-58-53	SAM	06/02/25 14:37		Jaswal	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB135981

Review By	jaswal	Review On	6/3/2025 4:30:35 PM
Supervise By	mohan	Supervise On	6/3/2025 4:36:15 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	Q2143-02	ELI-57-43-35-26	SAM	06/02/25 14:41		Jaswal	OK
20	Q2146-04	TP04-MHN-WC	SAM	06/02/25 14:46		Jaswal	OK
21	Q2146-01	TP04-MHN-WC	SAM	06/02/25 14:50		Jaswal	OK
22	Q2146-01DUP	TP04-MHN-WCDUP	DUP	06/02/25 14:54		Jaswal	OK
23	Q2146-01L	TP04-MHN-WCL	SD	06/02/25 14:59		Jaswal	OK
24	Q2146-01MS	TP04-MHN-WCMS	MS	06/02/25 15:03		Jaswal	OK
25	Q2146-01MSD	TP04-MHN-WCMSD	MSD	06/02/25 15:07		Jaswal	OK
26	CCV02	CCV02	CCV	06/02/25 15:11		Jaswal	OK
27	CCB02	CCB02	CCB	06/02/25 15:16		Jaswal	OK
28	Q2146-01A	TP04-MHN-WCA	PS	06/02/25 15:20		Jaswal	OK
29	Q2102-05	LAW-25-0077	SAM	06/02/25 15:24		Jaswal	OK
30	Q2144-01	OILY-DEBRIS-COMP	SAM	06/02/25 15:28		Jaswal	OK
31	Q2144-02	OILY-DEBRIS-COMP	SAM	06/02/25 15:33		Jaswal	OK
32	Q2149-01	FILTER-CAKE	SAM	06/02/25 15:37		Jaswal	OK
33	Q2153-01	TR-04-0592025	SAM	06/02/25 15:42		Jaswal	OK
34	Q2152-01	OK-02-05292025	SAM	06/02/25 15:46		Jaswal	OK
35	Q2152-01DUP	OK-02-05292025DUP	DUP	06/02/25 15:50		Jaswal	OK
36	Q2152-01L	OK-02-05292025L	SD	06/02/25 15:54		Jaswal	OK
37	CCV03	CCV03	CCV	06/02/25 15:58		Jaswal	OK
38	CCB03	CCB03	CCB	06/02/25 16:02		Jaswal	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB135981

Review By	jaswal	Review On	6/3/2025 4:30:35 PM
Supervise By	mohan	Supervise On	6/3/2025 4:36:15 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	Q2152-01MS	OK-02-05292025MS	MS	06/02/25 16:06		Jaswal	OK
40	Q2152-01MSD	OK-02-05292025MSD	MSD	06/02/25 16:10		Jaswal	OK
41	Q2152-01A	OK-02-05292025A	PS	06/02/25 16:14		Jaswal	OK
42	Q2151-01	WC-1	SAM	06/02/25 16:18		Jaswal	OK
43	Q2151-04	WC-1	SAM	06/02/25 16:22		Jaswal	OK
44	Q2151-04DUP	WC-1DUP	DUP	06/02/25 16:27		Jaswal	OK
45	Q2151-04L	WC-1L	SD	06/02/25 16:31		Jaswal	OK
46	Q2151-04MS	WC-1MS	MS	06/02/25 16:36		Jaswal	OK
47	Q2151-04MSD	WC-1MSD	MSD	06/02/25 16:40		Jaswal	OK
48	CCV04	CCV04	CCV	06/02/25 16:49		Jaswal	OK
49	CCB04	CCB04	CCB	06/02/25 16:55		Jaswal	OK
50	Q2151-04A	WC-1A	PS	06/02/25 17:00		Jaswal	OK
51	Q2137-03DL	MOO-25-0149DL	SAM	06/02/25 17:04	Straight 5x for all elements	Jaswal	OK
52	PB168190TB	PB168190TB	MB	06/02/25 17:08		Jaswal	OK
53	PB168214BL	PB168214BL	MB	06/02/25 17:13		Jaswal	OK
54	PB168214BS	PB168214BS	LCS	06/02/25 17:17		Jaswal	OK
55	PB168215BL	PB168215BL	MB	06/02/25 17:21		Jaswal	OK
56	PB168215BS	PB168215BS	LCS	06/02/25 17:25		Jaswal	OK
57	PB168200BL	PB168200BL	MB	06/02/25 17:29		Jaswal	OK
58	PB168200BS	PB168200BS	LCS	06/02/25 17:34		Jaswal	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB135981

Review By	jaswal	Review On	6/3/2025 4:30:35 PM
Supervise By	mohan	Supervise On	6/3/2025 4:36:15 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	CCV05	CCV05	CCV	06/02/25 17:38		Jaswal	OK
60	CCB05	CCB05	CCB	06/02/25 17:42		Jaswal	OK
61	Q2150-01	TP-44	SAM	06/02/25 17:47		Jaswal	OK
62	Q2150-02	TP-42	SAM	06/02/25 17:51		Jaswal	OK
63	Q2150-03	TP-39	SAM	06/02/25 17:55		Jaswal	OK
64	Q2150-04	TP-48	SAM	06/02/25 17:59		Jaswal	OK
65	Q2150-05	TP-47	SAM	06/02/25 18:03		Jaswal	OK
66	Q2150-06	TP-50	SAM	06/02/25 18:07		Jaswal	OK
67	Q2150-07	TP-51	SAM	06/02/25 18:12		Jaswal	OK
68	Q2150-08	TP-52	SAM	06/02/25 18:16		Jaswal	OK
69	Q2150-09	TP-54	SAM	06/02/25 18:20		Jaswal	OK
70	CCV06	CCV06	CCV	06/02/25 18:24		Jaswal	OK
71	CCB06	CCB06	CCB	06/02/25 18:28		Jaswal	OK
72	Q2150-10	TP-53	SAM	06/02/25 18:33		Jaswal	OK
73	Q2133-01	MW1	SAM	06/02/25 18:37		Jaswal	OK
74	Q2133-02	MW5	SAM	06/02/25 18:41	Na oversaturated	Jaswal	Dilution
75	Q2133-03	SUPPLY	SAM	06/02/25 18:45	NOT USE	Jaswal	Not Ok
76	Q2133-03DUP	SUPPLYDUP	DUP	06/02/25 18:50	Bad injection	Jaswal	Not Ok
77	Q2133-03L	SUPPLYL	SD	06/02/25 18:54	NOT USE	Jaswal	Not Ok
78	Q2133-03MS	SUPPLYMS	MS	06/02/25 18:59	Bad injection	Jaswal	Not Ok

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB135981

Review By	jaswal	Review On	6/3/2025 4:30:35 PM
Supervise By	mohan	Supervise On	6/3/2025 4:36:15 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	Q2133-03MSD	SUPPLYMSD	MSD	06/02/25 19:03	NOT USE	Jaswal	Not Ok
80	Q2133-03A	SUPPLYA	PS	06/02/25 19:07	NOT USE	Jaswal	Not Ok
81	CCV07	CCV07	CCV	06/02/25 19:11		Jaswal	OK
82	CCB07	CCB07	CCB	06/02/25 19:15		Jaswal	OK
83	Q2134-01	MW10	SAM	06/02/25 19:19	Mn high	Jaswal	Dilution
84	Q2101-01	TP-1-MHE	SAM	06/02/25 19:24	NOT USE	Jaswal	Not Ok
85	Q2101-01DUP	TP-1-MHEDUP	DUP	06/02/25 19:28	Need to Confirm	Jaswal	Not Ok
86	Q2101-01L	TP-1-MHEL	SD	06/02/25 19:32	NOT USE	Jaswal	Not Ok
87	Q2101-01MS	TP-1-MHEMS	MS	06/02/25 19:36	MS/MSD fail for all elements	Jaswal	Not Ok
88	Q2101-01MSD	TP-1-MHEMSD	MSD	06/02/25 19:40	MS/MSD fail for all elements	Jaswal	Not Ok
89	Q2101-01A	TP-1-MHEA	PS	06/02/25 19:45	NOT USE	Jaswal	Not Ok
90	Q2159-01	TP05-MHO-WC	SAM	06/02/25 19:49		Jaswal	OK
91	Q2160-01	TP04-MHG-WC	SAM	06/02/25 19:53		Jaswal	OK
92	CCV08	CCV08	CCV	06/02/25 19:57		Jaswal	OK
93	CCB08	CCB08	CCB	06/02/25 20:01		Jaswal	OK
94	Q2172-01	TP06-MHQ	SAM	06/02/25 20:06	NOT USE	Jaswal	Not Ok
95	Q2172-01DUP	TP06-MHQDUP	DUP	06/02/25 20:10	NOT USE	Jaswal	Not Ok
96	Q2172-01L	TP06-MHQL	SD	06/02/25 20:14	NOT USE	Jaswal	Not Ok
97	Q2172-01MS	TP06-MHQMS	MS	06/02/25 20:18	Bad injection	Jaswal	Not Ok

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB135981

Review By	jaswal	Review On	6/3/2025 4:30:35 PM
Supervise By	mohan	Supervise On	6/3/2025 4:36:15 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	Q2172-01MSD	TP06-MHQMSD	MSD	06/02/25 20:23	NOT USE	Jaswal	Not Ok
99	Q2172-01A	TP06-MHQA	PS	06/02/25 20:27	NOT USE	Jaswal	Not Ok
100	Q2173-01	OR-400-CF-402B-CO	SAM	06/02/25 20:32		Jaswal	OK
101	Q2173-07	OR-400-CF-402B-CO	SAM	06/02/25 20:36	Bad injection	Jaswal	Not Ok
102	Q2173-13	OR-400-CF-402B-CO	SAM	06/02/25 20:41	Bad injection	Jaswal	Not Ok
103	CCV09	CCV09	CCV	06/02/25 20:45		Jaswal	OK
104	CCB09	CCB09	CCB	06/02/25 20:49		Jaswal	OK
105	PB168236BL	PB168236BL	MB	06/02/25 20:54	NOT USE	Jaswal	Not Ok
106	PB168236BS	PB168236BS	LCS	06/02/25 20:58	NOT USE	Jaswal	Not Ok
107	Q2175-02	52725	SAM	06/02/25 21:02	NOT USE	Jaswal	Not Ok
108	CCV10	CCV10	CCV	06/02/25 21:06	CCV fail for all aparemters	Jaswal	OK
109	CCB10	CCB10	CCB	06/02/25 21:11		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: 05/30/2025 Time : 09:40 Temp : 96 °C

End Digest Date: 05/30/2025 Time : 11:47 Temp : 96 °C

Digestion tube ID: M6054

Block thermometer ID: MET-DIG. #3

Dig Technician Signature: *[Signature]*

Supervisor Signature: *[Signature]*

Temp : 1. 96°C 2. N/A

Standard Name	MLS USED	STD REF. # FROM LOG
LFS-1	1.00	M6007
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	M6162
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
05/30/25 12:47	SKM m of. dig	SO (metall 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
PB168215BL	PBS215	N/A	2.00	100	Colorless	Colorless	Fine	N/A	N/A	1
PB168215BS	LCS215	N/A	2.00	100	Colorless	Colorless	Fine	N/A	M6007,M6016	2
Q2150-01	TP-44	N/A	2.10	100	Brown	Yellow	Medium	N/A	N/A	3
Q2150-02	TP-42	N/A	2.18	100	Brown	Yellow	Medium	N/A	N/A	4
Q2150-03	TP-39	N/A	2.10	100	Brown	Yellow	Medium	N/A	N/A	5
Q2150-04	TP-48	N/A	2.11	100	Brown	Yellow	Medium	N/A	N/A	6
Q2150-05	TP-47	N/A	2.18	100	Brown	Yellow	Medium	N/A	N/A	7
Q2150-06	TP-50	N/A	2.44	100	Brown	Yellow	Medium	N/A	N/A	8
Q2150-07	TP-51	N/A	2.19	100	Brown	Yellow	Medium	N/A	N/A	9
Q2150-08	TP-52	N/A	2.25	100	Brown	Yellow	Medium	N/A	N/A	10
Q2150-09	TP-54	N/A	2.08	100	Brown	Yellow	Medium	N/A	N/A	11
Q2150-10	TP-53	N/A	2.12	100	Brown	Yellow	Medium	N/A	N/A	12
Q2151-01	WC-1	N/A	2.26	100	Brown	Yellow	Medium	N/A	N/A	13
Q2152-01	OK-02-05292025	N/A	2.45	100	Brown	Yellow	Medium	N/A	N/A	14
Q2152-01MS	OK-02-05292025MS	N/A	2.21	100	Brown	Yellow	Medium	N/A	M6007,M6016	16
Q2152-01MSD	OK-02-05292025MSD	N/A	2.25	100	Brown	Yellow	Medium	N/A	M6007,M6016	17
Q2152-01DUP	OK-02-05292025DUP	N/A	2.22	100	Brown	Yellow	Medium	N/A	N/A	15
Q2153-01	TR-04-0592025	N/A	2.12	100	Brown	Yellow	Medium	N/A	N/A	18

SOP ID : N/A
SDG No : NA
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: 05/30/2025 Time : 08:35 Temp : 94 °C
End Digest Date: 05/30/2025 Time : 09:05 Temp : 95 °C
Digestion tube ID: M5595
Block thermometer ID: HG-DIG#3
Dig Technician Signature: *ig*
Supervisor Signature: *rl*
Temp : 1. 94°C 2. N/A

Standard Name	MLS USED	STD REF. # FROM LOG
ICV	30mL	MP85804
CCV	30mL	MP85806
CRA	30mL	MP85808
Blank Spike	0.48mL	MP85797
Matrix Spike	0.48mL	MP85797

Chemical Used	ML/SAMPLE USED	Lot Number
AQUA REGIA	1.5mL	MP85810
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

LAB SAMPLE ID	CLIENT SAMPLE ID	Wt(g)/Vol(ml)	Comment
0.0 ppb	S0	30mL	MP85798
0.05 ppb	S0.05	N/A	N/A
0.2 ppb	S0.2	30mL	MP85799
2.5 ppb	S2.5	30mL	MP85800
5.0 ppb	S5.0	30mL	MP85801
7.5 ppb	S7.5	30mL	MP85802
10.0 ppb	S10.0	30mL	MP8580.3
ICV	ICV	30mL	MP85804
ICB	ICB	30mL	MP85805
CCV	CCV	30mL	MP85806
CCB	CCB	30mL	MP85807
CRI	CRI	30mL	MP85808
CHK STD	CHK STD	30mL	MP85809

Extraction Conformance/Non-Conformance Comments:

N/A		
Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
5/30/25 09:10	<i>ig - Dig Lab</i>	<i>ig - smitar Lab</i>
	Preparation Group	Analysis Group

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Comment	Prep Pos
PB168222BL	PBS222	0.59	35	NA	N/A	3-1
PB168222BS	LCS222	0.57	35	NA	mp85797	2
Q2136-01	OR-646-COMP-52	0.59	35	NA	N/A	3
Q2137-01	MOO-25-0151	0.58	35	NA	N/A	4
Q2139-01	BELL-25-0010	0.53	35	NA	N/A	5
Q2141-01	VNJ-215	0.57	35	NA	N/A	6
Q2146-01	TP04-MHN-WC	0.52	35	NA	N/A	7
Q2150-01	TP-44	0.58	35	NA	N/A	8
Q2150-01DUP	TP-44DUP	0.59	35	NA	N/A	9
Q2150-01MS	TP-44MS	0.53	35	NA	mp85797	10
Q2150-01MSD	TP-44MSD	0.60	35	NA	mp85797	11
Q2150-02	TP-42	0.60	35	NA	N/A	12
Q2150-03	TP-39	0.55	35	NA	N/A	13
Q2150-04	TP-48	0.56	35	NA	N/A	14
Q2150-05	TP-47	0.56	35	NA	N/A	15
Q2150-06	TP-50	0.54	35	NA	N/A	16
Q2150-07	TP-51	0.50	35	NA	N/A	17
Q2150-08	TP-52	0.60	35	NA	N/A	18
Q2150-09	TP-54	0.54	35	NA	N/A	19
Q2150-10	TP-53	0.50	35	NA	N/A	20
Q2151-01	WC-1	0.53	35	NA	N/A	21
Q2155-01	446	0.51	35	NA	N/A	22
Q2155-02	447-SOLID	0.58	35	NA	N/A	23
Q2157-01	291	0.60	35	NA	N/A	24