

Bottom Ash Data

2025 Week 50

The following analytical report represents bottom ash composite results for week 50 of 2025 (December 7, 2025 to December 13, 2025).

The bottom ash meets the conditions of Metro Vancouver's 2020 Bottom Ash Management Plan and is suitable for disposal .



CERTIFICATE OF ANALYSIS

Work Order	: VA25D3523	Laboratory	: ALS Environmental - Vancouver
Client	: Veolia Environmental Services Canada	Account Manager	: Gulraj Dhanaua
Contact	: Brian Graham	Address	: 8081 Lougheed Highway
Address	: 5150 Riverbend Dr. Burnaby British Columbia Canada V3N 4V3		: Burnaby BC Canada V5A 1W9
Telephone	: ----	E-mail	: Gulraj.Dhanaua@alsglobal.com
Project	: Veolia Weekly Bottom Ash-Suite	Telephone	: +1 604 253 4188
PO	: 1000497676	Date Samples Received	: 16-Dec-2025 14:30
C-O-C number	: ----	Date Analysis Commenced	: 17-Dec-2025
Sampler	: ----	Issue Date	: 22-Dec-2025 11:18
Site	: includes 2:1 pH)		
Quote number	: Veolia Environmental Western Canada Standing Offer		
No. of samples received	: 12		
No. of samples analysed	: 12		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

<i>Signatories</i>	<i>Position</i>	<i>Laboratory Department</i>
Robin Weeks	Supervisor - Organics Extractions	Organics, Burnaby, British Columbia
Robin Weeks	Supervisor - Organics Extractions	Metals, Burnaby, British Columbia



General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key: CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances.
LOR: Limit of Reporting (detection limit).

<i>Unit</i>	<i>Description</i>
%	percent
mg/kg	milligrams per kilogram
mg/L	milligrams per litre
pH units	pH units

<: less than.

>: greater than.

Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.



Analytical Results

Sub-Matrix: Soil
 (Matrix: Soil/Solid)

					Client sample ID	BA 2550-A-1	BA 2550-A-2	BA 2550-A-3	BA 2550-A-4	BA 2550-A-5
					Client sampling date / time	15-Dec-2025 12:00	15-Dec-2025 12:00	15-Dec-2025 12:00	15-Dec-2025 12:00	15-Dec-2025 12:00
Analyte	CAS Number	Method/Lab	LOR	Unit	VA25D3523-001	VA25D3523-002	VA25D3523-003	VA25D3523-004	VA25D3523-005	
					Result	Result	Result	Result	Result	
Physical Tests										
Moisture	----	E144/VA	0.25	%	28.1	29.2	28.0	27.2	27.2	
pH (1:2 soil:water)	----	E108/VA	0.10	pH units	11.56	11.65	11.51	11.61	11.52	
Metals										
Aluminum	7429-90-5	E440/VA	50	mg/kg	40800	31900	32600	53700	33700	
Antimony	7440-36-0	E440/VA	0.10	mg/kg	122	115	111	184	125	
Arsenic	7440-38-2	E440/VA	0.10	mg/kg	26.2	11.2	14.2	12.1	14.8	
Barium	7440-39-3	E440/VA	0.50	mg/kg	378	429	440	663	586	
Beryllium	7440-41-7	E440/VA	0.10	mg/kg	0.36	0.30	0.35	0.40	0.35	
Bismuth	7440-69-9	E440/VA	0.20	mg/kg	9.00	6.23	8.59	6.96	83.8	
Boron	7440-42-8	E440/VA	5.0	mg/kg	213	223	208	197	220	
Cadmium	7440-43-9	E440/VA	0.020	mg/kg	5.89	4.22	8.21	6.07	16.6	
Calcium	7440-70-2	E440/VA	50	mg/kg	136000	103000	136000	138000	126000	
Chromium	7440-47-3	E440/VA	0.50	mg/kg	187	127	183	330	200	
Cobalt	7440-48-4	E440/VA	0.10	mg/kg	167	82.8	117	55.3	103	
Copper	7440-50-8	E440/VA	0.50	mg/kg	2760	4770	6030	3400	4750	
Iron	7439-89-6	E440/VA	50	mg/kg	66200	39300	63800	60400	148000	
Lead	7439-92-1	E440/VA	0.50	mg/kg	412	222	297	1590	287	
Lithium	7439-93-2	E440/VA	2.0	mg/kg	37.7	26.2	38.3	111	34.5	
Magnesium	7439-95-4	E440/VA	20	mg/kg	12600	10300	12200	13200	11900	
Manganese	7439-96-5	E440/VA	1.0	mg/kg	1150	772	895	2130	1440	
Mercury	7439-97-6	E510/VA	0.0500	mg/kg	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	



Analytical Results

Sub-Matrix: Soil
 (Matrix: Soil/Solid)

					Client sample ID	BA 2550-A-1	BA 2550-A-2	BA 2550-A-3	BA 2550-A-4	BA 2550-A-5
					Client sampling date / time	15-Dec-2025 12:00	15-Dec-2025 12:00	15-Dec-2025 12:00	15-Dec-2025 12:00	15-Dec-2025 12:00
Analyte	CAS Number	Method/Lab	LOR	Unit	VA25D3523-001	VA25D3523-002	VA25D3523-003	VA25D3523-004	VA25D3523-005	
					Result	Result	Result	Result	Result	
Metals										
Molybdenum	7439-98-7	E440/VA	0.10	mg/kg	20.6	12.8	18.2	52.1	43.6	
Nickel	7440-02-0	E440/VA	0.50	mg/kg	341	129	195	295	220	
Phosphorus	7723-14-0	E440/VA	50	mg/kg	11000	8100	11600	13300	9740	
Potassium	7440-09-7	E440/VA	100	mg/kg	5310	3940	5340	5550	5040	
Selenium	7782-49-2	E440/VA	0.20	mg/kg	0.33	0.22	0.35	0.42	0.53	
Silver	7440-22-4	E440/VA	0.10	mg/kg	4.61	3.67	5.42	5.13	5.42	
Sodium	7440-23-5	E440/VA	50	mg/kg	14700	11500	14200	16500	13500	
Strontium	7440-24-6	E440/VA	0.50	mg/kg	296	254	378	297	288	
Sulfur	7704-34-9	E440/VA	1000	mg/kg	11300	8600	11800	10100	11500	
Thallium	7440-28-0	E440/VA	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	
Tin	7440-31-5	E440/VA	2.0	mg/kg	201	79.9	148	92.0	90.2	
Titanium	7440-32-6	E440/VA	1.0	mg/kg	285	209	207	359	364	
Tungsten	7440-33-7	E440/VA	0.50	mg/kg	14.1	9.83	16.3	12.3	16.8	
Uranium	7440-61-1	E440/VA	0.050	mg/kg	2.07	1.76	2.05	2.38	1.81	
Vanadium	7440-62-2	E440/VA	0.20	mg/kg	41.3	32.6	40.3	48.1	73.3	
Zinc	7440-66-6	E440/VA	2.0	mg/kg	5910	2990	37300	4490	3780	
Zirconium	7440-67-7	E440/VA	1.0	mg/kg	1.9	1.2	1.6	1.6	1.7	
TCLP Metals										
pH, TCLP 1st preliminary	----	EPP444/VA	0.010	pH units	11.63	11.67	11.74	11.85	11.80	
pH, TCLP 2nd preliminary	----	EPP444/VA	0.010	pH units	4.95	3.31	5.91	6.79	7.38	
pH, TCLP extraction fluid initial	----	EPP444/VA	0.010	pH units	4.91	4.91	2.86	2.86	2.86	



Analytical Results

Sub-Matrix: Soil
 (Matrix: Soil/Solid)

					Client sample ID	BA 2550-A-1	BA 2550-A-2	BA 2550-A-3	BA 2550-A-4	BA 2550-A-5
					Client sampling date / time	15-Dec-2025 12:00	15-Dec-2025 12:00	15-Dec-2025 12:00	15-Dec-2025 12:00	15-Dec-2025 12:00
Analyte	CAS Number	Method/Lab	LOR	Unit	VA25D3523-001	VA25D3523-002	VA25D3523-003	VA25D3523-004	VA25D3523-005	
					Result	Result	Result	Result	Result	
TCLP Metals										
pH, TCLP final	----	EPP444/VA	0.010	pH units	10.69	10.77	6.57	6.58	6.66	
Antimony, TCLP	7440-36-0	E444/VA	1.00	mg/L	<1.00	<1.00	<1.00	<1.00	<1.00	
Arsenic, TCLP	7440-38-2	E444/VA	1.0	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	
Barium, TCLP	7440-39-3	E444/VA	2.5	mg/L	<2.5	<2.5	<2.5	<2.5	<2.5	
Beryllium, TCLP	7440-41-7	E444/VA	0.025	mg/L	<0.025	<0.025	<0.025	<0.025	<0.025	
Boron, TCLP	7440-42-8	E444/VA	0.50	mg/L	0.81	0.94	2.38	2.41	2.55	
Cadmium, TCLP	7440-43-9	E444/VA	0.050	mg/L	<0.050	<0.050	0.052	0.062	0.072	
Calcium, TCLP	7440-70-2	E444/VA	10	mg/L	733	763	1850	1930	1970	
Chromium, TCLP	7440-47-3	E444/VA	0.25	mg/L	<0.25	<0.25	<0.25	<0.25	<0.25	
Cobalt, TCLP	7440-48-4	E444/VA	0.050	mg/L	<0.050	<0.050	1.33	1.98	0.942	
Copper, TCLP	7440-50-8	E444/VA	0.050	mg/L	1.02	1.01	0.805	0.882	1.04	
Iron, TCLP	7439-89-6	E444/VA	5.0	mg/L	<5.0	<5.0	<5.0	<5.0	<5.0	
Lead, TCLP	7439-92-1	E444/VA	0.25	mg/L	<0.25	<0.25	<0.25	<0.25	<0.25	
Magnesium, TCLP	7439-95-4	E444/VA	2.5	mg/L	<2.5	<2.5	126	129	135	
Mercury, TCLP	7439-97-6	E512/VA	0.0010	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	
Nickel, TCLP	7440-02-0	E444/VA	0.25	mg/L	<0.25	<0.25	0.35	0.38	0.40	
Selenium, TCLP	7782-49-2	E444/VA	0.10	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	
Silver, TCLP	7440-22-4	E444/VA	0.050	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	
Thallium, TCLP	7440-28-0	E444/VA	1.0	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	
Uranium, TCLP	7440-61-1	E444/VA	0.20	mg/L	<0.20	<0.20	<0.20	<0.20	<0.20	
Vanadium, TCLP	7440-62-2	E444/VA	0.15	mg/L	<0.15	<0.15	<0.15	<0.15	<0.15	



Analytical Results

Sub-Matrix: Soil (Matrix: Soil/Solid)					Client sample ID	BA 2550-A-1 ----	BA 2550-A-2 ----	BA 2550-A-3 ----	BA 2550-A-4 ----	BA 2550-A-5 ----
					Client sampling date / time	15-Dec-2025 12:00	15-Dec-2025 12:00	15-Dec-2025 12:00	15-Dec-2025 12:00	15-Dec-2025 12:00
Analyte	CAS Number	Method/Lab	LOR	Unit	VA25D3523-001	VA25D3523-002	VA25D3523-003	VA25D3523-004	VA25D3523-005	
					Result	Result	Result	Result	Result	
TCLP Metals										
Zinc, TCLP	7440-66-6	E444/VA	0.50	mg/L	<0.50	<0.50	21.9	16.5	16.8	
Zirconium, TCLP	7440-67-7	E444/VA	10	mg/L	<10	<10	<10	<10	<10	

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

Sub-Matrix: Soil (Matrix: Soil/Solid)					Client sample ID	BA 2550-A-6 ----	BA 2550-A-7 ----	BA 2550-A-8 ----	BA 2550-A-9 ----	BA 2550-A-10 ----
					Client sampling date / time	15-Dec-2025 12:00	15-Dec-2025 12:00	15-Dec-2025 12:00	15-Dec-2025 12:00	15-Dec-2025 12:00
Analyte	CAS Number	Method/Lab	LOR	Unit	VA25D3523-006	VA25D3523-007	VA25D3523-008	VA25D3523-009	VA25D3523-010	
					Result	Result	Result	Result	Result	
Physical Tests										
Moisture	----	E144/VA	0.25	%	27.7	26.3	27.7	29.7	28.0	
pH (1:2 soil:water)	----	E108/VA	0.10	pH units	11.43	11.25	11.28	11.52	11.54	
Metals										
Aluminum	7429-90-5	E440/VA	50	mg/kg	34500	32700	41800	38400	39600	
Antimony	7440-36-0	E440/VA	0.10	mg/kg	111	136	133	122	103	
Arsenic	7440-38-2	E440/VA	0.10	mg/kg	13.0	15.0	15.4	13.6	11.2	
Barium	7440-39-3	E440/VA	0.50	mg/kg	521	398	446	499	593	
Beryllium	7440-41-7	E440/VA	0.10	mg/kg	0.36	0.37	0.39	0.37	0.34	
Bismuth	7440-69-9	E440/VA	0.20	mg/kg	7.62	12.4	8.11	11.0	12.4	
Boron	7440-42-8	E440/VA	5.0	mg/kg	203	213	213	166	225	
Cadmium	7440-43-9	E440/VA	0.020	mg/kg	5.14	12.5	6.03	7.51	5.90	
Calcium	7440-70-2	E440/VA	50	mg/kg	135000	145000	140000	127000	116000	



Analytical Results

Sub-Matrix: Soil
 (Matrix: Soil/Solid)

					Client sample ID	BA 2550-A-6	BA 2550-A-7	BA 2550-A-8	BA 2550-A-9	BA 2550-A-10
					Client sampling date / time	15-Dec-2025 12:00	15-Dec-2025 12:00	15-Dec-2025 12:00	15-Dec-2025 12:00	15-Dec-2025 12:00
Analyte	CAS Number	Method/Lab	LOR	Unit	VA25D3523-006	VA25D3523-007	VA25D3523-008	VA25D3523-009	VA25D3523-010	
					Result	Result	Result	Result	Result	
Metals										
Chromium	7440-47-3	E440/VA	0.50	mg/kg	135	192	157	749	205	
Cobalt	7440-48-4	E440/VA	0.10	mg/kg	93.2	173	243	200	174	
Copper	7440-50-8	E440/VA	0.50	mg/kg	2470	2140	7810	5650	3280	
Iron	7439-89-6	E440/VA	50	mg/kg	58800	53100	71000	76300	65100	
Lead	7439-92-1	E440/VA	0.50	mg/kg	349	372	268	1210	245	
Lithium	7439-93-2	E440/VA	2.0	mg/kg	38.6	36.3	47.4	34.4	32.9	
Magnesium	7439-95-4	E440/VA	20	mg/kg	11500	13600	13200	11700	10900	
Manganese	7439-96-5	E440/VA	1.0	mg/kg	809	1050	1280	1470	1110	
Mercury	7439-97-6	E510/VA	0.0500	mg/kg	<0.0500	<0.0500	<0.0500	<0.0500	0.0672	
Molybdenum	7439-98-7	E440/VA	0.10	mg/kg	16.1	18.1	17.1	98.0	12.8	
Nickel	7440-02-0	E440/VA	0.50	mg/kg	204	374	185	2010	298	
Phosphorus	7723-14-0	E440/VA	50	mg/kg	10700	12900	11900	11100	10800	
Potassium	7440-09-7	E440/VA	100	mg/kg	5280	5410	5210	4790	4660	
Selenium	7782-49-2	E440/VA	0.20	mg/kg	0.25	0.38	0.36	0.28	0.24	
Silver	7440-22-4	E440/VA	0.10	mg/kg	3.88	13.3	7.63	5.20	7.97	
Sodium	7440-23-5	E440/VA	50	mg/kg	14500	14800	15100	13500	13500	
Strontium	7440-24-6	E440/VA	0.50	mg/kg	295	318	339	296	261	
Sulfur	7704-34-9	E440/VA	1000	mg/kg	11100	13000	11700	10600	9100	
Thallium	7440-28-0	E440/VA	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	
Tin	7440-31-5	E440/VA	2.0	mg/kg	111	125	128	106	87.5	
Titanium	7440-32-6	E440/VA	1.0	mg/kg	300	185	277	247	217	



Analytical Results

Sub-Matrix: Soil
 (Matrix: Soil/Solid)

					Client sample ID	BA 2550-A-6	BA 2550-A-7	BA 2550-A-8	BA 2550-A-9	BA 2550-A-10
					Client sampling date / time	15-Dec-2025 12:00	15-Dec-2025 12:00	15-Dec-2025 12:00	15-Dec-2025 12:00	15-Dec-2025 12:00
Analyte	CAS Number	Method/Lab	LOR	Unit	VA25D3523-006	VA25D3523-007	VA25D3523-008	VA25D3523-009	VA25D3523-010	
					Result	Result	Result	Result	Result	
Metals										
Tungsten	7440-33-7	E440/VA	0.50	mg/kg	11.6	17.9	14.4	14.7	8.40	
Uranium	7440-61-1	E440/VA	0.050	mg/kg	2.23	2.33	2.00	1.99	1.89	
Vanadium	7440-62-2	E440/VA	0.20	mg/kg	36.3	38.0	56.4	53.3	54.3	
Zinc	7440-66-6	E440/VA	2.0	mg/kg	2940	4140	3640	3280	2410	
Zirconium	7440-67-7	E440/VA	1.0	mg/kg	2.4	3.8	2.2	2.5	3.1	
TCLP Metals										
pH, TCLP 1st preliminary	---	EPP444/VA	0.010	pH units	11.87	11.70	11.71	11.77	11.73	
pH, TCLP 2nd preliminary	---	EPP444/VA	0.010	pH units	6.64	4.07	3.45	6.20	4.73	
pH, TCLP extraction fluid initial	---	EPP444/VA	0.010	pH units	2.86	4.91	4.91	2.86	4.91	
pH, TCLP final	---	EPP444/VA	0.010	pH units	6.48	10.62	10.66	6.68	10.88	
Antimony, TCLP	7440-36-0	E444/VA	1.00	mg/L	<1.00	<1.00	<1.00	<1.00	<1.00	
Arsenic, TCLP	7440-38-2	E444/VA	1.0	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	
Barium, TCLP	7440-39-3	E444/VA	2.5	mg/L	<2.5	<2.5	<2.5	<2.5	<2.5	
Beryllium, TCLP	7440-41-7	E444/VA	0.025	mg/L	<0.025	<0.025	<0.025	<0.025	<0.025	
Boron, TCLP	7440-42-8	E444/VA	0.50	mg/L	2.92	0.94	1.00	2.52	0.93	
Cadmium, TCLP	7440-43-9	E444/VA	0.050	mg/L	0.080	<0.050	<0.050	0.233	<0.050	
Calcium, TCLP	7440-70-2	E444/VA	10	mg/L	1950	772	772	1920	779	
Chromium, TCLP	7440-47-3	E444/VA	0.25	mg/L	<0.25	<0.25	<0.25	<0.25	<0.25	
Cobalt, TCLP	7440-48-4	E444/VA	0.050	mg/L	1.58	<0.050	<0.050	1.07	<0.050	
Copper, TCLP	7440-50-8	E444/VA	0.050	mg/L	1.18	0.979	1.02	1.08	1.03	
Iron, TCLP	7439-89-6	E444/VA	5.0	mg/L	<5.0	<5.0	<5.0	<5.0	<5.0	



Analytical Results

					Client sample ID	BA 2550-A-6 ----	BA 2550-A-7 ----	BA 2550-A-8 ----	BA 2550-A-9 ----	BA 2550-A-10 ----
					Client sampling date / time	15-Dec-2025 12:00	15-Dec-2025 12:00	15-Dec-2025 12:00	15-Dec-2025 12:00	15-Dec-2025 12:00
Analyte	CAS Number	Method/Lab	LOR	Unit	VA25D3523-006	VA25D3523-007	VA25D3523-008	VA25D3523-009	VA25D3523-010	
					Result	Result	Result	Result	Result	
TCLP Metals										
Lead, TCLP	7439-92-1	E444/VA	0.25	mg/L	<0.25	<0.25	<0.25	<0.25	<0.25	
Magnesium, TCLP	7439-95-4	E444/VA	2.5	mg/L	124	<2.5	<2.5	127	<2.5	
Mercury, TCLP	7439-97-6	E512/VA	0.0010	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	
Nickel, TCLP	7440-02-0	E444/VA	0.25	mg/L	0.31	<0.25	<0.25	0.33	<0.25	
Selenium, TCLP	7782-49-2	E444/VA	0.10	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	
Silver, TCLP	7440-22-4	E444/VA	0.050	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	
Thallium, TCLP	7440-28-0	E444/VA	1.0	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	
Uranium, TCLP	7440-61-1	E444/VA	0.20	mg/L	<0.20	<0.20	<0.20	<0.20	<0.20	
Vanadium, TCLP	7440-62-2	E444/VA	0.15	mg/L	<0.15	<0.15	<0.15	<0.15	<0.15	
Zinc, TCLP	7440-66-6	E444/VA	0.50	mg/L	23.4	<0.50	<0.50	15.9	<0.50	
Zirconium, TCLP	7440-67-7	E444/VA	10	mg/L	<10	<10	<10	<10	<10	

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

					Client sample ID	BA 2550-A-11 ----	BA 2550-A-12 ----	----	----	----
					Client sampling date / time	15-Dec-2025 12:00	15-Dec-2025 12:00	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	VA25D3523-011	VA25D3523-012	----	----	----	
					Result	Result	----	----	----	
Physical Tests										
Moisture	----	E144/VA	0.25	%	29.5	26.3	----	----	----	
pH (1:2 soil:water)	----	E108/VA	0.10	pH units	11.40	11.47	----	----	----	



Analytical Results

Sub-Matrix: Soil
 (Matrix: Soil/Solid)

					Client sample ID	BA 2550-A-11	BA 2550-A-12	----	----	----
					Client sampling date / time	15-Dec-2025 12:00	15-Dec-2025 12:00	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	VA25D3523-011	VA25D3523-012	----	----	----	
					Result	Result	----	----	----	
Metals										
Aluminum	7429-90-5	E440/VA	50	mg/kg	41800	48600	----	----	----	
Antimony	7440-36-0	E440/VA	0.10	mg/kg	75.5	99.0	----	----	----	
Arsenic	7440-38-2	E440/VA	0.10	mg/kg	11.5	13.1	----	----	----	
Barium	7440-39-3	E440/VA	0.50	mg/kg	554	549	----	----	----	
Beryllium	7440-41-7	E440/VA	0.10	mg/kg	0.33	0.36	----	----	----	
Bismuth	7440-69-9	E440/VA	0.20	mg/kg	6.42	9.87	----	----	----	
Boron	7440-42-8	E440/VA	5.0	mg/kg	283	280	----	----	----	
Cadmium	7440-43-9	E440/VA	0.020	mg/kg	4.77	4.88	----	----	----	
Calcium	7440-70-2	E440/VA	50	mg/kg	122000	133000	----	----	----	
Chromium	7440-47-3	E440/VA	0.50	mg/kg	131	137	----	----	----	
Cobalt	7440-48-4	E440/VA	0.10	mg/kg	86.3	36.4	----	----	----	
Copper	7440-50-8	E440/VA	0.50	mg/kg	8530	3150	----	----	----	
Iron	7439-89-6	E440/VA	50	mg/kg	61800	43200	----	----	----	
Lead	7439-92-1	E440/VA	0.50	mg/kg	201	240	----	----	----	
Lithium	7439-93-2	E440/VA	2.0	mg/kg	58.4	30.7	----	----	----	
Magnesium	7439-95-4	E440/VA	20	mg/kg	11500	13000	----	----	----	
Manganese	7439-96-5	E440/VA	1.0	mg/kg	1410	857	----	----	----	
Mercury	7439-97-6	E510/VA	0.0500	mg/kg	<0.0500	<0.0500	----	----	----	
Molybdenum	7439-98-7	E440/VA	0.10	mg/kg	13.9	22.5	----	----	----	
Nickel	7440-02-0	E440/VA	0.50	mg/kg	258	119	----	----	----	
Phosphorus	7723-14-0	E440/VA	50	mg/kg	13200	12800	----	----	----	



Analytical Results

Sub-Matrix: Soil
 (Matrix: Soil/Solid)

					Client sample ID	BA 2550-A-11	BA 2550-A-12	----	----	----
					Client sampling date / time	15-Dec-2025 12:00	15-Dec-2025 12:00	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	VA25D3523-011	VA25D3523-012	----	----	----	
					Result	Result	----	----	----	
Metals										
Potassium	7440-09-7	E440/VA	100	mg/kg	5130	5330	----	----	----	
Selenium	7782-49-2	E440/VA	0.20	mg/kg	0.25	0.28	----	----	----	
Silver	7440-22-4	E440/VA	0.10	mg/kg	3.49	6.20	----	----	----	
Sodium	7440-23-5	E440/VA	50	mg/kg	15000	15700	----	----	----	
Strontium	7440-24-6	E440/VA	0.50	mg/kg	299	287	----	----	----	
Sulfur	7704-34-9	E440/VA	1000	mg/kg	8100	12000	----	----	----	
Thallium	7440-28-0	E440/VA	0.050	mg/kg	<0.050	<0.050	----	----	----	
Tin	7440-31-5	E440/VA	2.0	mg/kg	82.2	122	----	----	----	
Titanium	7440-32-6	E440/VA	1.0	mg/kg	215	258	----	----	----	
Tungsten	7440-33-7	E440/VA	0.50	mg/kg	10.2	9.60	----	----	----	
Uranium	7440-61-1	E440/VA	0.050	mg/kg	1.71	1.96	----	----	----	
Vanadium	7440-62-2	E440/VA	0.20	mg/kg	30.8	35.1	----	----	----	
Zinc	7440-66-6	E440/VA	2.0	mg/kg	2160	2450	----	----	----	
Zirconium	7440-67-7	E440/VA	1.0	mg/kg	4.0	3.1	----	----	----	
TCLP Metals										
pH, TCLP 1st preliminary	----	EPP444/VA	0.010	pH units	11.72	11.67	----	----	----	
pH, TCLP 2nd preliminary	----	EPP444/VA	0.010	pH units	6.43	6.05	----	----	----	
pH, TCLP extraction fluid initial	----	EPP444/VA	0.010	pH units	2.86	2.86	----	----	----	
pH, TCLP final	----	EPP444/VA	0.010	pH units	6.68	6.76	----	----	----	
Antimony, TCLP	7440-36-0	E444/VA	1.00	mg/L	<1.00	<1.00	----	----	----	
Arsenic, TCLP	7440-38-2	E444/VA	1.0	mg/L	<1.0	<1.0	----	----	----	



Analytical Results

Sub-Matrix: Soil
 (Matrix: Soil/Solid)

					Client sample ID	BA 2550-A-11	BA 2550-A-12	----	----	----
					Client sampling date / time	15-Dec-2025 12:00	15-Dec-2025 12:00	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	VA25D3523-011	VA25D3523-012	----	----	----	
					Result	Result	----	----	----	
TCLP Metals										
Barium, TCLP	7440-39-3	E444/VA	2.5	mg/L	<2.5	<2.5	----	----	----	
Beryllium, TCLP	7440-41-7	E444/VA	0.025	mg/L	<0.025	<0.025	----	----	----	
Boron, TCLP	7440-42-8	E444/VA	0.50	mg/L	2.60	2.55	----	----	----	
Cadmium, TCLP	7440-43-9	E444/VA	0.050	mg/L	0.050	0.062	----	----	----	
Calcium, TCLP	7440-70-2	E444/VA	10	mg/L	1950	1890	----	----	----	
Chromium, TCLP	7440-47-3	E444/VA	0.25	mg/L	<0.25	<0.25	----	----	----	
Cobalt, TCLP	7440-48-4	E444/VA	0.050	mg/L	1.89	0.919	----	----	----	
Copper, TCLP	7440-50-8	E444/VA	0.050	mg/L	0.946	0.990	----	----	----	
Iron, TCLP	7439-89-6	E444/VA	5.0	mg/L	<5.0	<5.0	----	----	----	
Lead, TCLP	7439-92-1	E444/VA	0.25	mg/L	<0.25	<0.25	----	----	----	
Magnesium, TCLP	7439-95-4	E444/VA	2.5	mg/L	134	129	----	----	----	
Mercury, TCLP	7439-97-6	E512/VA	0.0010	mg/L	<0.0010	<0.0010	----	----	----	
Nickel, TCLP	7440-02-0	E444/VA	0.25	mg/L	0.42	0.29	----	----	----	
Selenium, TCLP	7782-49-2	E444/VA	0.10	mg/L	<0.10	<0.10	----	----	----	
Silver, TCLP	7440-22-4	E444/VA	0.050	mg/L	<0.050	<0.050	----	----	----	
Thallium, TCLP	7440-28-0	E444/VA	1.0	mg/L	<1.0	<1.0	----	----	----	
Uranium, TCLP	7440-61-1	E444/VA	0.20	mg/L	<0.20	<0.20	----	----	----	
Vanadium, TCLP	7440-62-2	E444/VA	0.15	mg/L	<0.15	<0.15	----	----	----	
Zinc, TCLP	7440-66-6	E444/VA	0.50	mg/L	14.1	10.7	----	----	----	
Zirconium, TCLP	7440-67-7	E444/VA	10	mg/L	<10	<10	----	----	----	

Please refer to the General Comments section for an explanation of any qualifiers detected.



CERTIFICATE OF ANALYSIS

Work Order	: VA25D3523	Page	: 1 of 22
Client	: Veolia Environmental Services Canada	Laboratory	: ALS Environmental - Vancouver
Contact	: Brian Graham	Account Manager	: Gulraj Dhanaua
Address	: 5150 Riverbend Dr. Burnaby BC Canada V3N 4V3	Address	: 8081 Lougheed Highway Burnaby BC Canada V5A 1W9
Telephone	: ----	Telephone	: +1 604 253 4188
Project	: Veolia Weekly Bottom Ash-Suite	Date Samples Received	: 16-Dec-2025 14:30
PO	: 1000497676	Date Analysis	: 17-Dec-2025
C-O-C number	: ----	Commenced	
Sampler	: ----	Issue Date	: 22-Dec-2025 11:18
Site	: (includes 2:1 pH)		
Quote number	: Veolia Environmental Western Canada Standing Offer		
No. of samples received	: 12		
No. of samples analysed	: 12		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

<i>Signatories</i>	<i>Position</i>	<i>Laboratory Department</i>
Robin Weeks	Supervisor - Organics Extractions	Metals, Burnaby, British Columbia
Robin Weeks	Supervisor - Organics Extractions	Organics, Burnaby, British Columbia



General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key : CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances

LOR: Limit of Reporting (detection limit).

Measurement Uncertainty: The reported uncertainties in this report are expanded uncertainties calculated using a coverage factor of 2, which gives a level of confidence of approximately 95%.

Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

<i>Unit</i>	<i>Description</i>
%	percent
mg/kg	milligrams per kilogram
mg/L	milligrams per litre
pH units	pH units

>: greater than.

<: less than.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.



Analytical Results

VA25D3523-001

Sub-Matrix: Soil

(Matrix: Soil/Solid)

Client sample ID: BA 2550-A-1

Client sampling date / time: 15-Dec-2025 12:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QC/Lot
Physical Tests								
Moisture	----	28.1	0.25	%	E144/VA	-	17-Dec-2025	2390027
pH (1:2 soil:water)	----	11.56	0.10	pH units	E108/VA	19-Dec-2025	19-Dec-2025	2390026
Metals								
Aluminum	7429-90-5	40800	50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Antimony	7440-36-0	122	0.10	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Arsenic	7440-38-2	26.2	0.10	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Barium	7440-39-3	378	0.50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Beryllium	7440-41-7	0.36	0.10	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Bismuth	7440-69-9	9.00	0.20	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Boron	7440-42-8	213	5.0	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Cadmium	7440-43-9	5.89	0.020	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Calcium	7440-70-2	136000	50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Chromium	7440-47-3	187	0.50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Cobalt	7440-48-4	167	0.10	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Copper	7440-50-8	2760	0.50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Iron	7439-89-6	66200	50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Lead	7439-92-1	412	0.50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Lithium	7439-93-2	37.7	2.0	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Magnesium	7439-95-4	12600	20	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Manganese	7439-96-5	1150	1.0	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Mercury	7439-97-6	<0.0500	0.0500	mg/kg	E510/VA	19-Dec-2025	19-Dec-2025	2390022
Molybdenum	7439-98-7	20.6	0.10	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Nickel	7440-02-0	341	0.50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Phosphorus	7723-14-0	11000	50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Potassium	7440-09-7	5310	100	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Selenium	7782-49-2	0.33	0.20	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Silver	7440-22-4	4.61	0.10	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Sodium	7440-23-5	14700	50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Strontium	7440-24-6	296	0.50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Sulfur	7704-34-9	11300	1000	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Thallium	7440-28-0	<0.050	0.050	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Tin	7440-31-5	201	2.0	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Titanium	7440-32-6	285	1.0	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Tungsten	7440-33-7	14.1	0.50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Uranium	7440-61-1	2.07	0.050	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Vanadium	7440-62-2	41.3	0.20	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Zinc	7440-66-6	5910	2.0	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Zirconium	7440-67-7	1.9	1.0	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
TCLP Metals								
pH, TCLP 1st preliminary	----	11.63	0.010	pH units	EPP444/VA	-	18-Dec-2025	-
pH, TCLP 2nd preliminary	----	4.95	0.010	pH units	EPP444/VA	-	18-Dec-2025	-
pH, TCLP extraction fluid initial	----	4.91	0.010	pH units	EPP444/VA	-	18-Dec-2025	-
pH, TCLP final	----	10.69	0.010	pH units	EPP444/VA	-	18-Dec-2025	-
Antimony, TCLP	7440-36-0	<1.00	1.00	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659
Arsenic, TCLP	7440-38-2	<1.0	1.0	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659



Analytical Results

VA25D3523-001

Sub-Matrix: Soil

(Matrix: Soil/Solid)

Client sample ID: BA 2550-A-1

Client sampling date / time: 15-Dec-2025 12:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
TCLP Metals								
Barium, TCLP	7440-39-3	<2.5	2.5	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659
Beryllium, TCLP	7440-41-7	<0.025	0.025	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659
Boron, TCLP	7440-42-8	0.81	0.50	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659
Cadmium, TCLP	7440-43-9	<0.050	0.050	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659
Calcium, TCLP	7440-70-2	733	10	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659
Chromium, TCLP	7440-47-3	<0.25	0.25	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659
Cobalt, TCLP	7440-48-4	<0.050	0.050	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659
Copper, TCLP	7440-50-8	1.02	0.050	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659
Iron, TCLP	7439-89-6	<5.0	5.0	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659
Lead, TCLP	7439-92-1	<0.25	0.25	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659
Magnesium, TCLP	7439-95-4	<2.5	2.5	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659
Mercury, TCLP	7439-97-6	<0.0010	0.0010	mg/L	E512/VA	21-Dec-2025	21-Dec-2025	2394657
Nickel, TCLP	7440-02-0	<0.25	0.25	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659
Selenium, TCLP	7782-49-2	<0.10	0.10	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659
Silver, TCLP	7440-22-4	<0.050	0.050	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659
Thallium, TCLP	7440-28-0	<1.0	1.0	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659
Uranium, TCLP	7440-61-1	<0.20	0.20	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659
Vanadium, TCLP	7440-62-2	<0.15	0.15	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659
Zinc, TCLP	7440-66-6	<0.50	0.50	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659
Zirconium, TCLP	7440-67-7	<10	10	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Analytical Results

VA25D3523-002

Sub-Matrix: Soil

(Matrix: Soil/Solid)

Client sample ID: BA 2550-A-2

Client sampling date / time: 15-Dec-2025 12:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests								
Moisture	----	29.2	0.25	%	E144/VA	-	17-Dec-2025	2390027
pH (1:2 soil:water)	----	11.65	0.10	pH units	E108/VA	19-Dec-2025	19-Dec-2025	2390026
Metals								
Aluminum	7429-90-5	31900	50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Antimony	7440-36-0	115	0.10	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Arsenic	7440-38-2	11.2	0.10	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Barium	7440-39-3	429	0.50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Beryllium	7440-41-7	0.30	0.10	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Bismuth	7440-69-9	6.23	0.20	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Boron	7440-42-8	223	5.0	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Cadmium	7440-43-9	4.22	0.020	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Calcium	7440-70-2	103000	50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Chromium	7440-47-3	127	0.50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Cobalt	7440-48-4	82.8	0.10	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Copper	7440-50-8	4770	0.50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023



Analytical Results

VA25D3523-002

Sub-Matrix: Soil

(Matrix: Soil/Solid)

Client sample ID: BA 2550-A-2

Client sampling date / time: 15-Dec-2025 12:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QC/Lot
Metals								
Iron	7439-89-6	39300	50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Lead	7439-92-1	222	0.50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Lithium	7439-93-2	26.2	2.0	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Magnesium	7439-95-4	10300	20	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Manganese	7439-96-5	772	1.0	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Mercury	7439-97-6	<0.0500	0.0500	mg/kg	E510/VA	19-Dec-2025	19-Dec-2025	2390022
Molybdenum	7439-98-7	12.8	0.10	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Nickel	7440-02-0	129	0.50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Phosphorus	7723-14-0	8100	50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Potassium	7440-09-7	3940	100	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Selenium	7782-49-2	0.22	0.20	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Silver	7440-22-4	3.67	0.10	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Sodium	7440-23-5	11500	50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Strontium	7440-24-6	254	0.50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Sulfur	7704-34-9	8600	1000	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Thallium	7440-28-0	<0.050	0.050	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Tin	7440-31-5	79.9	2.0	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Titanium	7440-32-6	209	1.0	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Tungsten	7440-33-7	9.83	0.50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Uranium	7440-61-1	1.76	0.050	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Vanadium	7440-62-2	32.6	0.20	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Zinc	7440-66-6	2990	2.0	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Zirconium	7440-67-7	1.2	1.0	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
TCLP Metals								
pH, TCLP 1st preliminary	----	11.67	0.010	pH units	EPP444/VA	-	18-Dec-2025	-
pH, TCLP 2nd preliminary	----	3.31	0.010	pH units	EPP444/VA	-	18-Dec-2025	-
pH, TCLP extraction fluid initial	----	4.91	0.010	pH units	EPP444/VA	-	18-Dec-2025	-
pH, TCLP final	----	10.77	0.010	pH units	EPP444/VA	-	18-Dec-2025	-
Antimony, TCLP	7440-36-0	<1.00	1.00	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659
Arsenic, TCLP	7440-38-2	<1.0	1.0	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659
Barium, TCLP	7440-39-3	<2.5	2.5	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659
Beryllium, TCLP	7440-41-7	<0.025	0.025	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659
Boron, TCLP	7440-42-8	0.94	0.50	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659
Cadmium, TCLP	7440-43-9	<0.050	0.050	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659
Calcium, TCLP	7440-70-2	763	10	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659
Chromium, TCLP	7440-47-3	<0.25	0.25	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659
Cobalt, TCLP	7440-48-4	<0.050	0.050	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659
Copper, TCLP	7440-50-8	1.01	0.050	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659
Iron, TCLP	7439-89-6	<5.0	5.0	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659
Lead, TCLP	7439-92-1	<0.25	0.25	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659
Magnesium, TCLP	7439-95-4	<2.5	2.5	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659
Mercury, TCLP	7439-97-6	<0.0010	0.0010	mg/L	E512/VA	21-Dec-2025	21-Dec-2025	2394657
Nickel, TCLP	7440-02-0	<0.25	0.25	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659
Selenium, TCLP	7782-49-2	<0.10	0.10	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659
Silver, TCLP	7440-22-4	<0.050	0.050	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659



Analytical Results

VA25D3523-002

Sub-Matrix: Soil

(Matrix: Soil/Solid)

Client sample ID: BA 2550-A-2

Client sampling date / time: 15-Dec-2025 12:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
TCLP Metals								
Thallium, TCLP	7440-28-0	<1.0	1.0	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659
Uranium, TCLP	7440-61-1	<0.20	0.20	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659
Vanadium, TCLP	7440-62-2	<0.15	0.15	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659
Zinc, TCLP	7440-66-6	<0.50	0.50	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659
Zirconium, TCLP	7440-67-7	<10	10	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Analytical Results

VA25D3523-003

Sub-Matrix: Soil

(Matrix: Soil/Solid)

Client sample ID: BA 2550-A-3

Client sampling date / time: 15-Dec-2025 12:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests								
Moisture	----	28.0	0.25	%	E144/VA	-	17-Dec-2025	2390027
pH (1:2 soil:water)	----	11.51	0.10	pH units	E108/VA	19-Dec-2025	19-Dec-2025	2390026
Metals								
Aluminum	7429-90-5	32600	50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Antimony	7440-36-0	111	0.10	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Arsenic	7440-38-2	14.2	0.10	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Barium	7440-39-3	440	0.50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Beryllium	7440-41-7	0.35	0.10	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Bismuth	7440-69-9	8.59	0.20	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Boron	7440-42-8	208	5.0	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Cadmium	7440-43-9	8.21	0.020	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Calcium	7440-70-2	136000	50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Chromium	7440-47-3	183	0.50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Cobalt	7440-48-4	117	0.10	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Copper	7440-50-8	6030	0.50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Iron	7439-89-6	63800	50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Lead	7439-92-1	297	0.50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Lithium	7439-93-2	38.3	2.0	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Magnesium	7439-95-4	12200	20	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Manganese	7439-96-5	895	1.0	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Mercury	7439-97-6	<0.0500	0.0500	mg/kg	E510/VA	19-Dec-2025	19-Dec-2025	2390022
Molybdenum	7439-98-7	18.2	0.10	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Nickel	7440-02-0	195	0.50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Phosphorus	7723-14-0	11600	50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Potassium	7440-09-7	5340	100	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Selenium	7782-49-2	0.35	0.20	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Silver	7440-22-4	5.42	0.10	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Sodium	7440-23-5	14200	50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Strontium	7440-24-6	378	0.50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Sulfur	7704-34-9	11800	1000	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023



Analytical Results

VA25D3523-003

Sub-Matrix: Soil

(Matrix: Soil/Solid)

Client sample ID: BA 2550-A-3

Client sampling date / time: 15-Dec-2025 12:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Metals								
Thallium	7440-28-0	<0.050	0.050	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Tin	7440-31-5	148	2.0	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Titanium	7440-32-6	207	1.0	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Tungsten	7440-33-7	16.3	0.50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Uranium	7440-61-1	2.05	0.050	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Vanadium	7440-62-2	40.3	0.20	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Zinc	7440-66-6	37300	2.0	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Zirconium	7440-67-7	1.6	1.0	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
TCLP Metals								
pH, TCLP 1st preliminary	----	11.74	0.010	pH units	EPP444/VA	-	18-Dec-2025	-
pH, TCLP 2nd preliminary	----	5.91	0.010	pH units	EPP444/VA	-	18-Dec-2025	-
pH, TCLP extraction fluid initial	----	2.86	0.010	pH units	EPP444/VA	-	18-Dec-2025	-
pH, TCLP final	----	6.57	0.010	pH units	EPP444/VA	-	18-Dec-2025	-
Antimony, TCLP	7440-36-0	<1.00	1.00	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Arsenic, TCLP	7440-38-2	<1.0	1.0	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Barium, TCLP	7440-39-3	<2.5	2.5	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Beryllium, TCLP	7440-41-7	<0.025	0.025	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Boron, TCLP	7440-42-8	2.38	0.50	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Cadmium, TCLP	7440-43-9	0.052	0.050	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Calcium, TCLP	7440-70-2	1850	10	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Chromium, TCLP	7440-47-3	<0.25	0.25	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Cobalt, TCLP	7440-48-4	1.33	0.050	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Copper, TCLP	7440-50-8	0.805	0.050	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Iron, TCLP	7439-89-6	<5.0	5.0	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Lead, TCLP	7439-92-1	<0.25	0.25	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Magnesium, TCLP	7439-95-4	126	2.5	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Mercury, TCLP	7439-97-6	<0.0010	0.0010	mg/L	E512/VA	21-Dec-2025	21-Dec-2025	2394658
Nickel, TCLP	7440-02-0	0.35	0.25	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Selenium, TCLP	7782-49-2	<0.10	0.10	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Silver, TCLP	7440-22-4	<0.050	0.050	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Thallium, TCLP	7440-28-0	<1.0	1.0	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Uranium, TCLP	7440-61-1	<0.20	0.20	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Vanadium, TCLP	7440-62-2	<0.15	0.15	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Zinc, TCLP	7440-66-6	21.9	0.50	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Zirconium, TCLP	7440-67-7	<10	10	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Analytical Results

VA25D3523-004

Sub-Matrix: Soil

(Matrix: Soil/Solid)

Client sample ID: BA 2550-A-4

Client sampling date / time: 15-Dec-2025 12:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests								



Analytical Results

VA25D3523-004

Sub-Matrix: Soil

(Matrix: Soil/Solid)

Client sample ID: BA 2550-A-4

Client sampling date / time: 15-Dec-2025 12:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QC/LOT
Physical Tests								
Moisture	----	27.2	0.25	%	E144/VA	-	17-Dec-2025	2390027
pH (1:2 soil:water)	----	11.61	0.10	pH units	E108/VA	19-Dec-2025	19-Dec-2025	2390026
Metals								
Aluminum	7429-90-5	53700	50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Antimony	7440-36-0	184	0.10	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Arsenic	7440-38-2	12.1	0.10	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Barium	7440-39-3	663	0.50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Beryllium	7440-41-7	0.40	0.10	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Bismuth	7440-69-9	6.96	0.20	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Boron	7440-42-8	197	5.0	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Cadmium	7440-43-9	6.07	0.020	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Calcium	7440-70-2	138000	50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Chromium	7440-47-3	330	0.50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Cobalt	7440-48-4	55.3	0.10	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Copper	7440-50-8	3400	0.50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Iron	7439-89-6	60400	50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Lead	7439-92-1	1590	0.50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Lithium	7439-93-2	111	2.0	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Magnesium	7439-95-4	13200	20	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Manganese	7439-96-5	2130	1.0	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Mercury	7439-97-6	<0.0500	0.0500	mg/kg	E510/VA	19-Dec-2025	19-Dec-2025	2390022
Molybdenum	7439-98-7	52.1	0.10	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Nickel	7440-02-0	295	0.50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Phosphorus	7723-14-0	13300	50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Potassium	7440-09-7	5550	100	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Selenium	7782-49-2	0.42	0.20	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Silver	7440-22-4	5.13	0.10	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Sodium	7440-23-5	16500	50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Strontium	7440-24-6	297	0.50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Sulfur	7704-34-9	10100	1000	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Thallium	7440-28-0	<0.050	0.050	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Tin	7440-31-5	92.0	2.0	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Titanium	7440-32-6	359	1.0	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Tungsten	7440-33-7	12.3	0.50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Uranium	7440-61-1	2.38	0.050	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Vanadium	7440-62-2	48.1	0.20	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Zinc	7440-66-6	4490	2.0	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Zirconium	7440-67-7	1.6	1.0	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
TCLP Metals								
pH, TCLP 1st preliminary	----	11.85	0.010	pH units	EPP444/VA	-	18-Dec-2025	-
pH, TCLP 2nd preliminary	----	6.79	0.010	pH units	EPP444/VA	-	18-Dec-2025	-
pH, TCLP extraction fluid initial	----	2.86	0.010	pH units	EPP444/VA	-	18-Dec-2025	-
pH, TCLP final	----	6.58	0.010	pH units	EPP444/VA	-	18-Dec-2025	-
Antimony, TCLP	7440-36-0	<1.00	1.00	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Arsenic, TCLP	7440-38-2	<1.0	1.0	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660



Analytical Results

VA25D3523-004

Sub-Matrix: Soil

(Matrix: Soil/Solid)

Client sample ID: BA 2550-A-4

Client sampling date / time: 15-Dec-2025 12:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
TCLP Metals								
Barium, TCLP	7440-39-3	<2.5	2.5	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Beryllium, TCLP	7440-41-7	<0.025	0.025	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Boron, TCLP	7440-42-8	2.41	0.50	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Cadmium, TCLP	7440-43-9	0.062	0.050	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Calcium, TCLP	7440-70-2	1930	10	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Chromium, TCLP	7440-47-3	<0.25	0.25	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Cobalt, TCLP	7440-48-4	1.98	0.050	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Copper, TCLP	7440-50-8	0.882	0.050	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Iron, TCLP	7439-89-6	<5.0	5.0	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Lead, TCLP	7439-92-1	<0.25	0.25	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Magnesium, TCLP	7439-95-4	129	2.5	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Mercury, TCLP	7439-97-6	<0.0010	0.0010	mg/L	E512/VA	21-Dec-2025	21-Dec-2025	2394658
Nickel, TCLP	7440-02-0	0.38	0.25	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Selenium, TCLP	7782-49-2	<0.10	0.10	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Silver, TCLP	7440-22-4	<0.050	0.050	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Thallium, TCLP	7440-28-0	<1.0	1.0	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Uranium, TCLP	7440-61-1	<0.20	0.20	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Vanadium, TCLP	7440-62-2	<0.15	0.15	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Zinc, TCLP	7440-66-6	16.5	0.50	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Zirconium, TCLP	7440-67-7	<10	10	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Analytical Results

VA25D3523-005

Sub-Matrix: Soil

(Matrix: Soil/Solid)

Client sample ID: BA 2550-A-5

Client sampling date / time: 15-Dec-2025 12:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests								
Moisture	----	27.2	0.25	%	E144/VA	-	17-Dec-2025	2390027
pH (1:2 soil:water)	----	11.52	0.10	pH units	E108/VA	19-Dec-2025	19-Dec-2025	2390026
Metals								
Aluminum	7429-90-5	33700	50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Antimony	7440-36-0	125	0.10	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Arsenic	7440-38-2	14.8	0.10	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Barium	7440-39-3	586	0.50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Beryllium	7440-41-7	0.35	0.10	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Bismuth	7440-69-9	83.8	0.20	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Boron	7440-42-8	220	5.0	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Cadmium	7440-43-9	16.6	0.020	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Calcium	7440-70-2	126000	50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Chromium	7440-47-3	200	0.50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Cobalt	7440-48-4	103	0.10	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Copper	7440-50-8	4750	0.50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023



Analytical Results

VA25D3523-005

Sub-Matrix: Soil

(Matrix: Soil/Solid)

Client sample ID: BA 2550-A-5

Client sampling date / time: 15-Dec-2025 12:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QC/Lot
Metals								
Iron	7439-89-6	148000	50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Lead	7439-92-1	287	0.50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Lithium	7439-93-2	34.5	2.0	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Magnesium	7439-95-4	11900	20	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Manganese	7439-96-5	1440	1.0	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Mercury	7439-97-6	<0.0500	0.0500	mg/kg	E510/VA	19-Dec-2025	19-Dec-2025	2390022
Molybdenum	7439-98-7	43.6	0.10	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Nickel	7440-02-0	220	0.50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Phosphorus	7723-14-0	9740	50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Potassium	7440-09-7	5040	100	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Selenium	7782-49-2	0.53	0.20	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Silver	7440-22-4	5.42	0.10	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Sodium	7440-23-5	13500	50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Strontium	7440-24-6	288	0.50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Sulfur	7704-34-9	11500	1000	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Thallium	7440-28-0	<0.050	0.050	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Tin	7440-31-5	90.2	2.0	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Titanium	7440-32-6	364	1.0	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Tungsten	7440-33-7	16.8	0.50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Uranium	7440-61-1	1.81	0.050	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Vanadium	7440-62-2	73.3	0.20	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Zinc	7440-66-6	3780	2.0	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Zirconium	7440-67-7	1.7	1.0	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
TCLP Metals								
pH, TCLP 1st preliminary	----	11.80	0.010	pH units	EPP444/VA	-	18-Dec-2025	-
pH, TCLP 2nd preliminary	----	7.38	0.010	pH units	EPP444/VA	-	18-Dec-2025	-
pH, TCLP extraction fluid initial	----	2.86	0.010	pH units	EPP444/VA	-	18-Dec-2025	-
pH, TCLP final	----	6.66	0.010	pH units	EPP444/VA	-	18-Dec-2025	-
Antimony, TCLP	7440-36-0	<1.00	1.00	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Arsenic, TCLP	7440-38-2	<1.0	1.0	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Barium, TCLP	7440-39-3	<2.5	2.5	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Beryllium, TCLP	7440-41-7	<0.025	0.025	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Boron, TCLP	7440-42-8	2.55	0.50	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Cadmium, TCLP	7440-43-9	0.072	0.050	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Calcium, TCLP	7440-70-2	1970	10	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Chromium, TCLP	7440-47-3	<0.25	0.25	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Cobalt, TCLP	7440-48-4	0.942	0.050	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Copper, TCLP	7440-50-8	1.04	0.050	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Iron, TCLP	7439-89-6	<5.0	5.0	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Lead, TCLP	7439-92-1	<0.25	0.25	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Magnesium, TCLP	7439-95-4	135	2.5	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Mercury, TCLP	7439-97-6	<0.0010	0.0010	mg/L	E512/VA	21-Dec-2025	21-Dec-2025	2394658
Nickel, TCLP	7440-02-0	0.40	0.25	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Selenium, TCLP	7782-49-2	<0.10	0.10	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Silver, TCLP	7440-22-4	<0.050	0.050	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660



Analytical Results

VA25D3523-005

Sub-Matrix: Soil

(Matrix: Soil/Solid)

Client sample ID: BA 2550-A-5

Client sampling date / time: 15-Dec-2025 12:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
TCLP Metals								
Thallium, TCLP	7440-28-0	<1.0	1.0	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Uranium, TCLP	7440-61-1	<0.20	0.20	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Vanadium, TCLP	7440-62-2	<0.15	0.15	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Zinc, TCLP	7440-66-6	16.8	0.50	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Zirconium, TCLP	7440-67-7	<10	10	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Analytical Results

VA25D3523-006

Sub-Matrix: Soil

(Matrix: Soil/Solid)

Client sample ID: BA 2550-A-6

Client sampling date / time: 15-Dec-2025 12:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests								
Moisture	----	27.7	0.25	%	E144/VA	-	17-Dec-2025	2390027
pH (1:2 soil:water)	----	11.43	0.10	pH units	E108/VA	19-Dec-2025	19-Dec-2025	2390026
Metals								
Aluminum	7429-90-5	34500	50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Antimony	7440-36-0	111	0.10	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Arsenic	7440-38-2	13.0	0.10	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Barium	7440-39-3	521	0.50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Beryllium	7440-41-7	0.36	0.10	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Bismuth	7440-69-9	7.62	0.20	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Boron	7440-42-8	203	5.0	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Cadmium	7440-43-9	5.14	0.020	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Calcium	7440-70-2	135000	50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Chromium	7440-47-3	135	0.50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Cobalt	7440-48-4	93.2	0.10	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Copper	7440-50-8	2470	0.50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Iron	7439-89-6	58800	50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Lead	7439-92-1	349	0.50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Lithium	7439-93-2	38.6	2.0	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Magnesium	7439-95-4	11500	20	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Manganese	7439-96-5	809	1.0	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Mercury	7439-97-6	<0.0500	0.0500	mg/kg	E510/VA	19-Dec-2025	19-Dec-2025	2390022
Molybdenum	7439-98-7	16.1	0.10	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Nickel	7440-02-0	204	0.50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Phosphorus	7723-14-0	10700	50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Potassium	7440-09-7	5280	100	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Selenium	7782-49-2	0.25	0.20	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Silver	7440-22-4	3.88	0.10	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Sodium	7440-23-5	14500	50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Strontium	7440-24-6	295	0.50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Sulfur	7704-34-9	11100	1000	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023



Analytical Results

VA25D3523-006

Sub-Matrix: Soil

(Matrix: Soil/Solid)

Client sample ID: BA 2550-A-6

Client sampling date / time: 15-Dec-2025 12:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Metals								
Thallium	7440-28-0	<0.050	0.050	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Tin	7440-31-5	111	2.0	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Titanium	7440-32-6	300	1.0	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Tungsten	7440-33-7	11.6	0.50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Uranium	7440-61-1	2.23	0.050	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Vanadium	7440-62-2	36.3	0.20	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Zinc	7440-66-6	2940	2.0	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Zirconium	7440-67-7	2.4	1.0	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
TCLP Metals								
pH, TCLP 1st preliminary	----	11.87	0.010	pH units	EPP444/VA	-	18-Dec-2025	-
pH, TCLP 2nd preliminary	----	6.64	0.010	pH units	EPP444/VA	-	18-Dec-2025	-
pH, TCLP extraction fluid initial	----	2.86	0.010	pH units	EPP444/VA	-	18-Dec-2025	-
pH, TCLP final	----	6.48	0.010	pH units	EPP444/VA	-	18-Dec-2025	-
Antimony, TCLP	7440-36-0	<1.00	1.00	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Arsenic, TCLP	7440-38-2	<1.0	1.0	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Barium, TCLP	7440-39-3	<2.5	2.5	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Beryllium, TCLP	7440-41-7	<0.025	0.025	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Boron, TCLP	7440-42-8	2.92	0.50	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Cadmium, TCLP	7440-43-9	0.080	0.050	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Calcium, TCLP	7440-70-2	1950	10	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Chromium, TCLP	7440-47-3	<0.25	0.25	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Cobalt, TCLP	7440-48-4	1.58	0.050	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Copper, TCLP	7440-50-8	1.18	0.050	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Iron, TCLP	7439-89-6	<5.0	5.0	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Lead, TCLP	7439-92-1	<0.25	0.25	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Magnesium, TCLP	7439-95-4	124	2.5	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Mercury, TCLP	7439-97-6	<0.0010	0.0010	mg/L	E512/VA	21-Dec-2025	21-Dec-2025	2394658
Nickel, TCLP	7440-02-0	0.31	0.25	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Selenium, TCLP	7782-49-2	<0.10	0.10	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Silver, TCLP	7440-22-4	<0.050	0.050	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Thallium, TCLP	7440-28-0	<1.0	1.0	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Uranium, TCLP	7440-61-1	<0.20	0.20	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Vanadium, TCLP	7440-62-2	<0.15	0.15	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Zinc, TCLP	7440-66-6	23.4	0.50	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Zirconium, TCLP	7440-67-7	<10	10	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Analytical Results

VA25D3523-007

Sub-Matrix: Soil

(Matrix: Soil/Solid)

Client sample ID: BA 2550-A-7

Client sampling date / time: 15-Dec-2025 12:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests								



Analytical Results

VA25D3523-007

Sub-Matrix: Soil

(Matrix: Soil/Solid)

Client sample ID: BA 2550-A-7

Client sampling date / time: 15-Dec-2025 12:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QC/LOT
Physical Tests								
Moisture	----	26.3	0.25	%	E144/VA	-	17-Dec-2025	2390027
pH (1:2 soil:water)	----	11.25	0.10	pH units	E108/VA	19-Dec-2025	19-Dec-2025	2390026
Metals								
Aluminum	7429-90-5	32700	50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Antimony	7440-36-0	136	0.10	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Arsenic	7440-38-2	15.0	0.10	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Barium	7440-39-3	398	0.50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Beryllium	7440-41-7	0.37	0.10	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Bismuth	7440-69-9	12.4	0.20	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Boron	7440-42-8	213	5.0	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Cadmium	7440-43-9	12.5	0.020	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Calcium	7440-70-2	145000	50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Chromium	7440-47-3	192	0.50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Cobalt	7440-48-4	173	0.10	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Copper	7440-50-8	2140	0.50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Iron	7439-89-6	53100	50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Lead	7439-92-1	372	0.50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Lithium	7439-93-2	36.3	2.0	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Magnesium	7439-95-4	13600	20	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Manganese	7439-96-5	1050	1.0	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Mercury	7439-97-6	<0.0500	0.0500	mg/kg	E510/VA	19-Dec-2025	19-Dec-2025	2390022
Molybdenum	7439-98-7	18.1	0.10	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Nickel	7440-02-0	374	0.50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Phosphorus	7723-14-0	12900	50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Potassium	7440-09-7	5410	100	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Selenium	7782-49-2	0.38	0.20	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Silver	7440-22-4	13.3	0.10	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Sodium	7440-23-5	14800	50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Strontium	7440-24-6	318	0.50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Sulfur	7704-34-9	13000	1000	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Thallium	7440-28-0	<0.050	0.050	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Tin	7440-31-5	125	2.0	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Titanium	7440-32-6	185	1.0	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Tungsten	7440-33-7	17.9	0.50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Uranium	7440-61-1	2.33	0.050	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Vanadium	7440-62-2	38.0	0.20	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Zinc	7440-66-6	4140	2.0	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Zirconium	7440-67-7	3.8	1.0	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
TCLP Metals								
pH, TCLP 1st preliminary	----	11.70	0.010	pH units	EPP444/VA	-	18-Dec-2025	-
pH, TCLP 2nd preliminary	----	4.07	0.010	pH units	EPP444/VA	-	18-Dec-2025	-
pH, TCLP extraction fluid initial	----	4.91	0.010	pH units	EPP444/VA	-	18-Dec-2025	-
pH, TCLP final	----	10.62	0.010	pH units	EPP444/VA	-	18-Dec-2025	-
Antimony, TCLP	7440-36-0	<1.00	1.00	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659
Arsenic, TCLP	7440-38-2	<1.0	1.0	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659



Analytical Results

VA25D3523-007

Sub-Matrix: Soil

(Matrix: Soil/Solid)

Client sample ID: BA 2550-A-7

Client sampling date / time: 15-Dec-2025 12:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
TCLP Metals								
Barium, TCLP	7440-39-3	<2.5	2.5	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659
Beryllium, TCLP	7440-41-7	<0.025	0.025	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659
Boron, TCLP	7440-42-8	0.94	0.50	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659
Cadmium, TCLP	7440-43-9	<0.050	0.050	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659
Calcium, TCLP	7440-70-2	772	10	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659
Chromium, TCLP	7440-47-3	<0.25	0.25	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659
Cobalt, TCLP	7440-48-4	<0.050	0.050	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659
Copper, TCLP	7440-50-8	0.979	0.050	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659
Iron, TCLP	7439-89-6	<5.0	5.0	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659
Lead, TCLP	7439-92-1	<0.25	0.25	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659
Magnesium, TCLP	7439-95-4	<2.5	2.5	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659
Mercury, TCLP	7439-97-6	<0.0010	0.0010	mg/L	E512/VA	21-Dec-2025	21-Dec-2025	2394657
Nickel, TCLP	7440-02-0	<0.25	0.25	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659
Selenium, TCLP	7782-49-2	<0.10	0.10	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659
Silver, TCLP	7440-22-4	<0.050	0.050	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659
Thallium, TCLP	7440-28-0	<1.0	1.0	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659
Uranium, TCLP	7440-61-1	<0.20	0.20	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659
Vanadium, TCLP	7440-62-2	<0.15	0.15	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659
Zinc, TCLP	7440-66-6	<0.50	0.50	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659
Zirconium, TCLP	7440-67-7	<10	10	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Analytical Results

VA25D3523-008

Sub-Matrix: Soil

(Matrix: Soil/Solid)

Client sample ID: BA 2550-A-8

Client sampling date / time: 15-Dec-2025 12:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests								
Moisture	----	27.7	0.25	%	E144/VA	-	17-Dec-2025	2390027
pH (1:2 soil:water)	----	11.28	0.10	pH units	E108/VA	19-Dec-2025	19-Dec-2025	2390026
Metals								
Aluminum	7429-90-5	41800	50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Antimony	7440-36-0	133	0.10	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Arsenic	7440-38-2	15.4	0.10	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Barium	7440-39-3	446	0.50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Beryllium	7440-41-7	0.39	0.10	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Bismuth	7440-69-9	8.11	0.20	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Boron	7440-42-8	213	5.0	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Cadmium	7440-43-9	6.03	0.020	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Calcium	7440-70-2	140000	50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Chromium	7440-47-3	157	0.50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Cobalt	7440-48-4	243	0.10	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Copper	7440-50-8	7810	0.50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023



Analytical Results

VA25D3523-008

Sub-Matrix: Soil

(Matrix: Soil/Solid)

Client sample ID: BA 2550-A-8

Client sampling date / time: 15-Dec-2025 12:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QC/Lot
Metals								
Iron	7439-89-6	71000	50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Lead	7439-92-1	268	0.50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Lithium	7439-93-2	47.4	2.0	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Magnesium	7439-95-4	13200	20	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Manganese	7439-96-5	1280	1.0	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Mercury	7439-97-6	<0.0500	0.0500	mg/kg	E510/VA	19-Dec-2025	19-Dec-2025	2390022
Molybdenum	7439-98-7	17.1	0.10	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Nickel	7440-02-0	185	0.50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Phosphorus	7723-14-0	11900	50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Potassium	7440-09-7	5210	100	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Selenium	7782-49-2	0.36	0.20	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Silver	7440-22-4	7.63	0.10	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Sodium	7440-23-5	15100	50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Strontium	7440-24-6	339	0.50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Sulfur	7704-34-9	11700	1000	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Thallium	7440-28-0	<0.050	0.050	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Tin	7440-31-5	128	2.0	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Titanium	7440-32-6	277	1.0	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Tungsten	7440-33-7	14.4	0.50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Uranium	7440-61-1	2.00	0.050	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Vanadium	7440-62-2	56.4	0.20	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Zinc	7440-66-6	3640	2.0	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Zirconium	7440-67-7	2.2	1.0	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
TCLP Metals								
pH, TCLP 1st preliminary	----	11.71	0.010	pH units	EPP444/VA	-	18-Dec-2025	-
pH, TCLP 2nd preliminary	----	3.45	0.010	pH units	EPP444/VA	-	18-Dec-2025	-
pH, TCLP extraction fluid initial	----	4.91	0.010	pH units	EPP444/VA	-	18-Dec-2025	-
pH, TCLP final	----	10.66	0.010	pH units	EPP444/VA	-	18-Dec-2025	-
Antimony, TCLP	7440-36-0	<1.00	1.00	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659
Arsenic, TCLP	7440-38-2	<1.0	1.0	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659
Barium, TCLP	7440-39-3	<2.5	2.5	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659
Beryllium, TCLP	7440-41-7	<0.025	0.025	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659
Boron, TCLP	7440-42-8	1.00	0.50	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659
Cadmium, TCLP	7440-43-9	<0.050	0.050	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659
Calcium, TCLP	7440-70-2	772	10	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659
Chromium, TCLP	7440-47-3	<0.25	0.25	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659
Cobalt, TCLP	7440-48-4	<0.050	0.050	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659
Copper, TCLP	7440-50-8	1.02	0.050	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659
Iron, TCLP	7439-89-6	<5.0	5.0	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659
Lead, TCLP	7439-92-1	<0.25	0.25	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659
Magnesium, TCLP	7439-95-4	<2.5	2.5	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659
Mercury, TCLP	7439-97-6	<0.0010	0.0010	mg/L	E512/VA	21-Dec-2025	21-Dec-2025	2394657
Nickel, TCLP	7440-02-0	<0.25	0.25	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659
Selenium, TCLP	7782-49-2	<0.10	0.10	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659
Silver, TCLP	7440-22-4	<0.050	0.050	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659



Analytical Results

VA25D3523-008

Sub-Matrix: Soil

(Matrix: Soil/Solid)

Client sample ID: BA 2550-A-8

Client sampling date / time: 15-Dec-2025 12:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
TCLP Metals								
Thallium, TCLP	7440-28-0	<1.0	1.0	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659
Uranium, TCLP	7440-61-1	<0.20	0.20	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659
Vanadium, TCLP	7440-62-2	<0.15	0.15	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659
Zinc, TCLP	7440-66-6	<0.50	0.50	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659
Zirconium, TCLP	7440-67-7	<10	10	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Analytical Results

VA25D3523-009

Sub-Matrix: Soil

(Matrix: Soil/Solid)

Client sample ID: BA 2550-A-9

Client sampling date / time: 15-Dec-2025 12:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests								
Moisture	----	29.7	0.25	%	E144/VA	-	17-Dec-2025	2390027
pH (1:2 soil:water)	----	11.52	0.10	pH units	E108/VA	19-Dec-2025	19-Dec-2025	2390026
Metals								
Aluminum	7429-90-5	38400	50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Antimony	7440-36-0	122	0.10	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Arsenic	7440-38-2	13.6	0.10	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Barium	7440-39-3	499	0.50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Beryllium	7440-41-7	0.37	0.10	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Bismuth	7440-69-9	11.0	0.20	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Boron	7440-42-8	166	5.0	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Cadmium	7440-43-9	7.51	0.020	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Calcium	7440-70-2	127000	50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Chromium	7440-47-3	749	0.50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Cobalt	7440-48-4	200	0.10	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Copper	7440-50-8	5650	0.50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Iron	7439-89-6	76300	50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Lead	7439-92-1	1210	0.50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Lithium	7439-93-2	34.4	2.0	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Magnesium	7439-95-4	11700	20	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Manganese	7439-96-5	1470	1.0	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Mercury	7439-97-6	<0.0500	0.0500	mg/kg	E510/VA	19-Dec-2025	19-Dec-2025	2390022
Molybdenum	7439-98-7	98.0	0.10	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Nickel	7440-02-0	2010	0.50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Phosphorus	7723-14-0	11100	50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Potassium	7440-09-7	4790	100	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Selenium	7782-49-2	0.28	0.20	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Silver	7440-22-4	5.20	0.10	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Sodium	7440-23-5	13500	50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Strontium	7440-24-6	296	0.50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Sulfur	7704-34-9	10600	1000	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023



Analytical Results

VA25D3523-009

Sub-Matrix: Soil

(Matrix: Soil/Solid)

Client sample ID: BA 2550-A-9

Client sampling date / time: 15-Dec-2025 12:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Metals								
Thallium	7440-28-0	<0.050	0.050	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Tin	7440-31-5	106	2.0	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Titanium	7440-32-6	247	1.0	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Tungsten	7440-33-7	14.7	0.50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Uranium	7440-61-1	1.99	0.050	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Vanadium	7440-62-2	53.3	0.20	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Zinc	7440-66-6	3280	2.0	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Zirconium	7440-67-7	2.5	1.0	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
TCLP Metals								
pH, TCLP 1st preliminary	----	11.77	0.010	pH units	EPP444/VA	-	18-Dec-2025	-
pH, TCLP 2nd preliminary	----	6.20	0.010	pH units	EPP444/VA	-	18-Dec-2025	-
pH, TCLP extraction fluid initial	----	2.86	0.010	pH units	EPP444/VA	-	18-Dec-2025	-
pH, TCLP final	----	6.68	0.010	pH units	EPP444/VA	-	18-Dec-2025	-
Antimony, TCLP	7440-36-0	<1.00	1.00	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Arsenic, TCLP	7440-38-2	<1.0	1.0	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Barium, TCLP	7440-39-3	<2.5	2.5	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Beryllium, TCLP	7440-41-7	<0.025	0.025	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Boron, TCLP	7440-42-8	2.52	0.50	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Cadmium, TCLP	7440-43-9	0.233	0.050	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Calcium, TCLP	7440-70-2	1920	10	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Chromium, TCLP	7440-47-3	<0.25	0.25	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Cobalt, TCLP	7440-48-4	1.07	0.050	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Copper, TCLP	7440-50-8	1.08	0.050	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Iron, TCLP	7439-89-6	<5.0	5.0	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Lead, TCLP	7439-92-1	<0.25	0.25	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Magnesium, TCLP	7439-95-4	127	2.5	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Mercury, TCLP	7439-97-6	<0.0010	0.0010	mg/L	E512/VA	21-Dec-2025	21-Dec-2025	2394658
Nickel, TCLP	7440-02-0	0.33	0.25	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Selenium, TCLP	7782-49-2	<0.10	0.10	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Silver, TCLP	7440-22-4	<0.050	0.050	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Thallium, TCLP	7440-28-0	<1.0	1.0	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Uranium, TCLP	7440-61-1	<0.20	0.20	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Vanadium, TCLP	7440-62-2	<0.15	0.15	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Zinc, TCLP	7440-66-6	15.9	0.50	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Zirconium, TCLP	7440-67-7	<10	10	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Analytical Results

VA25D3523-010

Sub-Matrix: Soil

(Matrix: Soil/Solid)

Client sample ID: BA 2550-A-10

Client sampling date / time: 15-Dec-2025 12:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests								



Analytical Results

VA25D3523-010

Sub-Matrix: Soil

(Matrix: Soil/Solid)

Client sample ID: BA 2550-A-10

Client sampling date / time: 15-Dec-2025 12:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QC/LOT
Physical Tests								
Moisture	----	28.0	0.25	%	E144/VA	-	17-Dec-2025	2390027
pH (1:2 soil:water)	----	11.54	0.10	pH units	E108/VA	19-Dec-2025	19-Dec-2025	2390026
Metals								
Aluminum	7429-90-5	39600	50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Antimony	7440-36-0	103	0.10	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Arsenic	7440-38-2	11.2	0.10	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Barium	7440-39-3	593	0.50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Beryllium	7440-41-7	0.34	0.10	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Bismuth	7440-69-9	12.4	0.20	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Boron	7440-42-8	225	5.0	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Cadmium	7440-43-9	5.90	0.020	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Calcium	7440-70-2	116000	50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Chromium	7440-47-3	205	0.50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Cobalt	7440-48-4	174	0.10	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Copper	7440-50-8	3280	0.50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Iron	7439-89-6	65100	50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Lead	7439-92-1	245	0.50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Lithium	7439-93-2	32.9	2.0	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Magnesium	7439-95-4	10900	20	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Manganese	7439-96-5	1110	1.0	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Mercury	7439-97-6	0.0672	0.0500	mg/kg	E510/VA	19-Dec-2025	19-Dec-2025	2390022
Molybdenum	7439-98-7	12.8	0.10	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Nickel	7440-02-0	298	0.50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Phosphorus	7723-14-0	10800	50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Potassium	7440-09-7	4660	100	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Selenium	7782-49-2	0.24	0.20	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Silver	7440-22-4	7.97	0.10	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Sodium	7440-23-5	13500	50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Strontium	7440-24-6	261	0.50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Sulfur	7704-34-9	9100	1000	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Thallium	7440-28-0	<0.050	0.050	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Tin	7440-31-5	87.5	2.0	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Titanium	7440-32-6	217	1.0	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Tungsten	7440-33-7	8.40	0.50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Uranium	7440-61-1	1.89	0.050	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Vanadium	7440-62-2	54.3	0.20	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Zinc	7440-66-6	2410	2.0	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Zirconium	7440-67-7	3.1	1.0	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
TCLP Metals								
pH, TCLP 1st preliminary	----	11.73	0.010	pH units	EPP444/VA	-	18-Dec-2025	-
pH, TCLP 2nd preliminary	----	4.73	0.010	pH units	EPP444/VA	-	18-Dec-2025	-
pH, TCLP extraction fluid initial	----	4.91	0.010	pH units	EPP444/VA	-	18-Dec-2025	-
pH, TCLP final	----	10.88	0.010	pH units	EPP444/VA	-	18-Dec-2025	-
Antimony, TCLP	7440-36-0	<1.00	1.00	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659
Arsenic, TCLP	7440-38-2	<1.0	1.0	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659



Analytical Results

VA25D3523-010

Sub-Matrix: Soil

(Matrix: Soil/Solid)

Client sample ID: BA 2550-A-10

Client sampling date / time: 15-Dec-2025 12:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
TCLP Metals								
Barium, TCLP	7440-39-3	<2.5	2.5	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659
Beryllium, TCLP	7440-41-7	<0.025	0.025	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659
Boron, TCLP	7440-42-8	0.93	0.50	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659
Cadmium, TCLP	7440-43-9	<0.050	0.050	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659
Calcium, TCLP	7440-70-2	779	10	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659
Chromium, TCLP	7440-47-3	<0.25	0.25	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659
Cobalt, TCLP	7440-48-4	<0.050	0.050	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659
Copper, TCLP	7440-50-8	1.03	0.050	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659
Iron, TCLP	7439-89-6	<5.0	5.0	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659
Lead, TCLP	7439-92-1	<0.25	0.25	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659
Magnesium, TCLP	7439-95-4	<2.5	2.5	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659
Mercury, TCLP	7439-97-6	<0.0010	0.0010	mg/L	E512/VA	21-Dec-2025	21-Dec-2025	2394657
Nickel, TCLP	7440-02-0	<0.25	0.25	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659
Selenium, TCLP	7782-49-2	<0.10	0.10	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659
Silver, TCLP	7440-22-4	<0.050	0.050	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659
Thallium, TCLP	7440-28-0	<1.0	1.0	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659
Uranium, TCLP	7440-61-1	<0.20	0.20	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659
Vanadium, TCLP	7440-62-2	<0.15	0.15	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659
Zinc, TCLP	7440-66-6	<0.50	0.50	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659
Zirconium, TCLP	7440-67-7	<10	10	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394659

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Analytical Results

VA25D3523-011

Sub-Matrix: Soil

(Matrix: Soil/Solid)

Client sample ID: BA 2550-A-11

Client sampling date / time: 15-Dec-2025 12:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests								
Moisture	----	29.5	0.25	%	E144/VA	-	17-Dec-2025	2390027
pH (1:2 soil:water)	----	11.40	0.10	pH units	E108/VA	19-Dec-2025	19-Dec-2025	2390026
Metals								
Aluminum	7429-90-5	41800	50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Antimony	7440-36-0	75.5	0.10	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Arsenic	7440-38-2	11.5	0.10	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Barium	7440-39-3	554	0.50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Beryllium	7440-41-7	0.33	0.10	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Bismuth	7440-69-9	6.42	0.20	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Boron	7440-42-8	283	5.0	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Cadmium	7440-43-9	4.77	0.020	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Calcium	7440-70-2	122000	50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Chromium	7440-47-3	131	0.50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Cobalt	7440-48-4	86.3	0.10	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Copper	7440-50-8	8530	0.50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023



Analytical Results

VA25D3523-011

Sub-Matrix: Soil

(Matrix: Soil/Solid)

Client sample ID: BA 2550-A-11

Client sampling date / time: 15-Dec-2025 12:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QC/Lot
Metals								
Iron	7439-89-6	61800	50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Lead	7439-92-1	201	0.50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Lithium	7439-93-2	58.4	2.0	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Magnesium	7439-95-4	11500	20	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Manganese	7439-96-5	1410	1.0	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Mercury	7439-97-6	<0.0500	0.0500	mg/kg	E510/VA	19-Dec-2025	19-Dec-2025	2390022
Molybdenum	7439-98-7	13.9	0.10	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Nickel	7440-02-0	258	0.50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Phosphorus	7723-14-0	13200	50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Potassium	7440-09-7	5130	100	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Selenium	7782-49-2	0.25	0.20	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Silver	7440-22-4	3.49	0.10	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Sodium	7440-23-5	15000	50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Strontium	7440-24-6	299	0.50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Sulfur	7704-34-9	8100	1000	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Thallium	7440-28-0	<0.050	0.050	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Tin	7440-31-5	82.2	2.0	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Titanium	7440-32-6	215	1.0	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Tungsten	7440-33-7	10.2	0.50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Uranium	7440-61-1	1.71	0.050	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Vanadium	7440-62-2	30.8	0.20	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Zinc	7440-66-6	2160	2.0	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Zirconium	7440-67-7	4.0	1.0	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
TCLP Metals								
pH, TCLP 1st preliminary	----	11.72	0.010	pH units	EPP444/VA	-	18-Dec-2025	-
pH, TCLP 2nd preliminary	----	6.43	0.010	pH units	EPP444/VA	-	18-Dec-2025	-
pH, TCLP extraction fluid initial	----	2.86	0.010	pH units	EPP444/VA	-	18-Dec-2025	-
pH, TCLP final	----	6.68	0.010	pH units	EPP444/VA	-	18-Dec-2025	-
Antimony, TCLP	7440-36-0	<1.00	1.00	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Arsenic, TCLP	7440-38-2	<1.0	1.0	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Barium, TCLP	7440-39-3	<2.5	2.5	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Beryllium, TCLP	7440-41-7	<0.025	0.025	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Boron, TCLP	7440-42-8	2.60	0.50	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Cadmium, TCLP	7440-43-9	0.050	0.050	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Calcium, TCLP	7440-70-2	1950	10	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Chromium, TCLP	7440-47-3	<0.25	0.25	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Cobalt, TCLP	7440-48-4	1.89	0.050	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Copper, TCLP	7440-50-8	0.946	0.050	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Iron, TCLP	7439-89-6	<5.0	5.0	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Lead, TCLP	7439-92-1	<0.25	0.25	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Magnesium, TCLP	7439-95-4	134	2.5	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Mercury, TCLP	7439-97-6	<0.0010	0.0010	mg/L	E512/VA	21-Dec-2025	21-Dec-2025	2394658
Nickel, TCLP	7440-02-0	0.42	0.25	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Selenium, TCLP	7782-49-2	<0.10	0.10	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Silver, TCLP	7440-22-4	<0.050	0.050	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660



Analytical Results

VA25D3523-011

Sub-Matrix: Soil

(Matrix: Soil/Solid)

Client sample ID: BA 2550-A-11

Client sampling date / time: 15-Dec-2025 12:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
TCLP Metals								
Thallium, TCLP	7440-28-0	<1.0	1.0	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Uranium, TCLP	7440-61-1	<0.20	0.20	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Vanadium, TCLP	7440-62-2	<0.15	0.15	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Zinc, TCLP	7440-66-6	14.1	0.50	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Zirconium, TCLP	7440-67-7	<10	10	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Analytical Results

VA25D3523-012

Sub-Matrix: Soil

(Matrix: Soil/Solid)

Client sample ID: BA 2550-A-12

Client sampling date / time: 15-Dec-2025 12:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests								
Moisture	----	26.3	0.25	%	E144/VA	-	17-Dec-2025	2390027
pH (1:2 soil:water)	----	11.47	0.10	pH units	E108/VA	19-Dec-2025	19-Dec-2025	2390026
Metals								
Aluminum	7429-90-5	48600	50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Antimony	7440-36-0	99.0	0.10	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Arsenic	7440-38-2	13.1	0.10	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Barium	7440-39-3	549	0.50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Beryllium	7440-41-7	0.36	0.10	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Bismuth	7440-69-9	9.87	0.20	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Boron	7440-42-8	280	5.0	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Cadmium	7440-43-9	4.88	0.020	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Calcium	7440-70-2	133000	50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Chromium	7440-47-3	137	0.50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Cobalt	7440-48-4	36.4	0.10	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Copper	7440-50-8	3150	0.50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Iron	7439-89-6	43200	50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Lead	7439-92-1	240	0.50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Lithium	7439-93-2	30.7	2.0	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Magnesium	7439-95-4	13000	20	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Manganese	7439-96-5	857	1.0	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Mercury	7439-97-6	<0.0500	0.0500	mg/kg	E510/VA	19-Dec-2025	19-Dec-2025	2390022
Molybdenum	7439-98-7	22.5	0.10	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Nickel	7440-02-0	119	0.50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Phosphorus	7723-14-0	12800	50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Potassium	7440-09-7	5330	100	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Selenium	7782-49-2	0.28	0.20	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Silver	7440-22-4	6.20	0.10	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Sodium	7440-23-5	15700	50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Strontium	7440-24-6	287	0.50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Sulfur	7704-34-9	12000	1000	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023



Analytical Results

VA25D3523-012

Sub-Matrix: Soil

(Matrix: Soil/Solid)

Client sample ID: BA 2550-A-12

Client sampling date / time: 15-Dec-2025 12:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Metals								
Thallium	7440-28-0	<0.050	0.050	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Tin	7440-31-5	122	2.0	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Titanium	7440-32-6	258	1.0	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Tungsten	7440-33-7	9.60	0.50	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Uranium	7440-61-1	1.96	0.050	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Vanadium	7440-62-2	35.1	0.20	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Zinc	7440-66-6	2450	2.0	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
Zirconium	7440-67-7	3.1	1.0	mg/kg	E440/VA	19-Dec-2025	19-Dec-2025	2390023
TCLP Metals								
pH, TCLP 1st preliminary	----	11.67	0.010	pH units	EPP444/VA	-	18-Dec-2025	-
pH, TCLP 2nd preliminary	----	6.05	0.010	pH units	EPP444/VA	-	18-Dec-2025	-
pH, TCLP extraction fluid initial	----	2.86	0.010	pH units	EPP444/VA	-	18-Dec-2025	-
pH, TCLP final	----	6.76	0.010	pH units	EPP444/VA	-	18-Dec-2025	-
Antimony, TCLP	7440-36-0	<1.00	1.00	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Arsenic, TCLP	7440-38-2	<1.0	1.0	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Barium, TCLP	7440-39-3	<2.5	2.5	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Beryllium, TCLP	7440-41-7	<0.025	0.025	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Boron, TCLP	7440-42-8	2.55	0.50	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Cadmium, TCLP	7440-43-9	0.062	0.050	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Calcium, TCLP	7440-70-2	1890	10	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Chromium, TCLP	7440-47-3	<0.25	0.25	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Cobalt, TCLP	7440-48-4	0.919	0.050	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Copper, TCLP	7440-50-8	0.990	0.050	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Iron, TCLP	7439-89-6	<5.0	5.0	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Lead, TCLP	7439-92-1	<0.25	0.25	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Magnesium, TCLP	7439-95-4	129	2.5	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Mercury, TCLP	7439-97-6	<0.0010	0.0010	mg/L	E512/VA	21-Dec-2025	21-Dec-2025	2394658
Nickel, TCLP	7440-02-0	0.29	0.25	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Selenium, TCLP	7782-49-2	<0.10	0.10	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Silver, TCLP	7440-22-4	<0.050	0.050	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Thallium, TCLP	7440-28-0	<1.0	1.0	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Uranium, TCLP	7440-61-1	<0.20	0.20	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Vanadium, TCLP	7440-62-2	<0.15	0.15	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Zinc, TCLP	7440-66-6	10.7	0.50	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660
Zirconium, TCLP	7440-67-7	<10	10	mg/L	E444/VA	21-Dec-2025	22-Dec-2025	2394660

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Quality Control Interpretive Report

Work Order : VA25D3523

Client : Veolia Environmental Services Canada
 Contact : Brian Graham
 Address : 5150 Riverbend Dr.
 Burnaby BC Canada V3N 4V3
 Telephone : ----
 Project : Veolia Weekly Bottom Ash-Suite
 PO : 1000497676
 C-O-C number : ----
 Sampler : ----
 Site : includes 2:1 pH)
 Quote number : Veolia Environmental Western Canada Standing Offer
 No. of samples received : 12
 No. of samples analysed : 12

Laboratory : ALS Environmental - Vancouver
 Account Manager : Gulraj Dhanaua
 Address : 8081 Lougheed Highway
 Burnaby British Columbia Canada V5A 1W9
 Telephone : +1 604 253 4188
 Date Samples Received : 16-Dec-2025 14:30
 Issue Date : 22-Dec-2025 11:18

This report is automatically generated by the ALS LIMS (Laboratory Information Management System) through evaluation of Quality Control (QC) results and other QA parameters associated with this submission, and is intended to facilitate rapid data validation by auditors or reviewers. The report highlights any exceptions and outliers to ALS Data Quality Objectives, provides holding time details and exceptions, summarizes QC sample frequencies, and lists applicable methodology references and summaries.

Key

Anonymous: Refers to samples which are not part of this work order, but which formed part of the QC process lot.
 CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances.
 DQO: Data Quality Objective.
 LOR: Limit of Reporting (detection limit).
 RPD: Relative Percent Difference.

Workorder Comments

Holding times are displayed as "----" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.



Summary of Outliers

Outliers : Quality Control Samples

- No Method Blank value outliers occur.
- Duplicate outliers occur - please see following pages for full details.
- No Laboratory Control Sample (LCS) outliers occur
- No Laboratory Control Sample Duplicate (LCSD) outliers occur
- No Matrix Spike outliers occur.
- No Matrix Spike Duplicate (MSD) outliers occur.
- No Test sample Surrogate recovery outliers exist.

Outliers: Reference Material (RM) Samples

- No Reference Material (RM) Sample outliers occur.

Outliers : Analysis Holding Time Compliance (Breaches)

- No Analysis Holding Time Outliers exist.

Outliers : Frequency of Quality Control Samples

- No Quality Control Sample Frequency Outliers occur.



Outliers : Quality Control Samples

Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

Matrix : **Soil/Solid**

Analyte Group	Laboratory sample ID	Client/Ref Sample ID	Analyte	CAS Number	Method	Result	Limits	Comment
Duplicate (DUP) RPDs								
Metals	VA25D3273--001	Anonymous	Aluminum	7429-90-5	E440	94.6 % DUP-H	40%	Duplicate RPD does not meet the DQO for this test.
Metals	VA25D3273--001	Anonymous	Barium	7440-39-3	E440	64.3 % DUP-H	40%	Duplicate RPD does not meet the DQO for this test.
Metals	VA25D3273--001	Anonymous	Iron	7439-89-6	E440	71.3 % DUP-H	30%	Duplicate RPD does not meet the DQO for this test.
Metals	VA25D3273--001	Anonymous	Manganese	7439-96-5	E440	47.1 % DUP-H	30%	Duplicate RPD does not meet the DQO for this test.
Metals	VA25D3273--001	Anonymous	Titanium	7440-32-6	E440	89.9 % DUP-H	40%	Duplicate RPD does not meet the DQO for this test.
Metals	VA25D3273--001	Anonymous	Vanadium	7440-62-2	E440	0.94 % DUP-H,J	30%	Low Level DUP DQO exceeded (difference > 2 LOR).

Result Qualifiers

Qualifier

DUP-H

J

Description

Duplicate results outside ALS DQO, due to sample heterogeneity.

Duplicate results and limits are expressed in terms of absolute difference.



Analysis Holding Time Compliance

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times, which are selected to meet known provincial and/or federal requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by organizations such as CCME, US EPA, APHA Standard Methods, ASTM, or Environment Canada (where available). Dates and holding times reported below represent the first dates of extraction or analysis. If subsequent tests or dilutions exceeded holding times, qualifiers are added (refer to COA).

If samples are identified below as having been analyzed or extracted outside of recommended holding times, measurement uncertainties may be increased, and this should be taken into consideration when interpreting results.

Where actual sampling date is not provided on the chain of custody, the date of receipt with time at 00:00 is used for calculation purposes.

Where only the sample date without time is provided on the chain of custody, the sampling date at 00:00 is used for calculation purposes.

Matrix: Soil/Solid

Evaluation: ✖ = Holding time exceedance; ✔ = Within Holding Time

Analyte Group : Analytical Method		ALS Sample ID	QC Lot	Method	Sampling Date	Extraction / Preparation			Analysis			
Container	Preparation Date					Holding Times		Eval	Analysis Date	Holding Times		Eval
Client sample ID						Rec	Actual			Rec	Actual	
Metals : Mercury in Soil/Solid by CVAAS												
LDPE bag												
BA 2550-A-1	001	2390022	E510	15-Dec-2025	19-Dec-2025	28 days	4 days	✔	19-Dec-2025	28 days	0 days	✔
BA 2550-A-2	002	2390022	E510	15-Dec-2025	19-Dec-2025	28 days	4 days	✔	19-Dec-2025	28 days	0 days	✔
BA 2550-A-3	003	2390022	E510	15-Dec-2025	19-Dec-2025	28 days	4 days	✔	19-Dec-2025	28 days	0 days	✔
BA 2550-A-4	004	2390022	E510	15-Dec-2025	19-Dec-2025	28 days	4 days	✔	19-Dec-2025	28 days	0 days	✔
BA 2550-A-5	005	2390022	E510	15-Dec-2025	19-Dec-2025	28 days	4 days	✔	19-Dec-2025	28 days	0 days	✔
BA 2550-A-6	006	2390022	E510	15-Dec-2025	19-Dec-2025	28 days	4 days	✔	19-Dec-2025	28 days	0 days	✔
BA 2550-A-7	007	2390022	E510	15-Dec-2025	19-Dec-2025	28 days	4 days	✔	19-Dec-2025	28 days	0 days	✔
BA 2550-A-8	008	2390022	E510	15-Dec-2025	19-Dec-2025	28 days	4 days	✔	19-Dec-2025	28 days	0 days	✔
BA 2550-A-9	009	2390022	E510	15-Dec-2025	19-Dec-2025	28 days	4 days	✔	19-Dec-2025	28 days	0 days	✔
BA 2550-A-10	010	2390022	E510	15-Dec-2025	19-Dec-2025	28 days	4 days	✔	19-Dec-2025	28 days	0 days	✔
BA 2550-A-11	011	2390022	E510	15-Dec-2025	19-Dec-2025	28 days	4 days	✔	19-Dec-2025	28 days	0 days	✔
BA 2550-A-12	012	2390022	E510	15-Dec-2025	19-Dec-2025	28 days	4 days	✔	19-Dec-2025	28 days	0 days	✔



Matrix: Soil/Solid

Evaluation: ✖ = Holding time exceedance; ✔ = Within Holding Time

Analyte Group : Analytical Method		ALS Sample ID	QC Lot	Method	Sampling Date	Extraction / Preparation			Analysis				
Container						Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
Client sample ID							Rec	Actual			Rec	Actual	
Metals : Metals in Soil/Solid by CRC ICPMS													
LDPE bag													
BA 2550-A-1		001	2390023	E440	15-Dec-2025	19-Dec-2025	180 days	4 days	✔	19-Dec-2025	180 days	4 days	✔
BA 2550-A-2		002	2390023	E440	15-Dec-2025	19-Dec-2025	180 days	4 days	✔	19-Dec-2025	180 days	4 days	✔
BA 2550-A-3		003	2390023	E440	15-Dec-2025	19-Dec-2025	180 days	4 days	✔	19-Dec-2025	180 days	4 days	✔
BA 2550-A-4		004	2390023	E440	15-Dec-2025	19-Dec-2025	180 days	4 days	✔	19-Dec-2025	180 days	4 days	✔
BA 2550-A-5		005	2390023	E440	15-Dec-2025	19-Dec-2025	180 days	4 days	✔	19-Dec-2025	180 days	4 days	✔
BA 2550-A-6		006	2390023	E440	15-Dec-2025	19-Dec-2025	180 days	4 days	✔	19-Dec-2025	180 days	4 days	✔
BA 2550-A-7		007	2390023	E440	15-Dec-2025	19-Dec-2025	180 days	4 days	✔	19-Dec-2025	180 days	4 days	✔
BA 2550-A-8		008	2390023	E440	15-Dec-2025	19-Dec-2025	180 days	4 days	✔	19-Dec-2025	180 days	4 days	✔
BA 2550-A-9		009	2390023	E440	15-Dec-2025	19-Dec-2025	180 days	4 days	✔	19-Dec-2025	180 days	4 days	✔
BA 2550-A-10		010	2390023	E440	15-Dec-2025	19-Dec-2025	180 days	4 days	✔	19-Dec-2025	180 days	4 days	✔
BA 2550-A-11		011	2390023	E440	15-Dec-2025	19-Dec-2025	180 days	4 days	✔	19-Dec-2025	180 days	4 days	✔
BA 2550-A-12		012	2390023	E440	15-Dec-2025	19-Dec-2025	180 days	4 days	✔	19-Dec-2025	180 days	4 days	✔
Physical Tests : Moisture Content by Gravimetry													
LDPE bag													
BA 2550-A-1		001	2390027	E144	15-Dec-2025	----	----	----		17-Dec-2025	----	----	
BA 2550-A-2		002	2390027	E144	15-Dec-2025	----	----	----		17-Dec-2025	----	----	
BA 2550-A-3		003	2390027	E144	15-Dec-2025	----	----	----		17-Dec-2025	----	----	
BA 2550-A-4		004	2390027	E144	15-Dec-2025	----	----	----		17-Dec-2025	----	----	



Matrix: Soil/Solid

Evaluation: ✖ = Holding time exceedance; ✔ = Within Holding Time

Analyte Group : Analytical Method		ALS Sample ID	QC Lot	Method	Sampling Date	Extraction / Preparation			Analysis				
Container						Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
Client sample ID							Rec	Actual			Rec	Actual	
Physical Tests : Moisture Content by Gravimetry													
LDPE bag													
BA 2550-A-5		005	2390027	E144	15-Dec-2025	----	----	----		17-Dec-2025	----	----	
BA 2550-A-6		006	2390027	E144	15-Dec-2025	----	----	----		17-Dec-2025	----	----	
BA 2550-A-7		007	2390027	E144	15-Dec-2025	----	----	----		17-Dec-2025	----	----	
BA 2550-A-8		008	2390027	E144	15-Dec-2025	----	----	----		17-Dec-2025	----	----	
BA 2550-A-9		009	2390027	E144	15-Dec-2025	----	----	----		17-Dec-2025	----	----	
BA 2550-A-10		010	2390027	E144	15-Dec-2025	----	----	----		17-Dec-2025	----	----	
BA 2550-A-11		011	2390027	E144	15-Dec-2025	----	----	----		17-Dec-2025	----	----	
BA 2550-A-12		012	2390027	E144	15-Dec-2025	----	----	----		17-Dec-2025	----	----	
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)													
LDPE bag													
BA 2550-A-1		001	2390026	E108	15-Dec-2025	19-Dec-2025	30 days	4 days	✔	19-Dec-2025	30 days	4 days	✔
BA 2550-A-2		002	2390026	E108	15-Dec-2025	19-Dec-2025	30 days	4 days	✔	19-Dec-2025	30 days	4 days	✔
BA 2550-A-3		003	2390026	E108	15-Dec-2025	19-Dec-2025	30 days	4 days	✔	19-Dec-2025	30 days	4 days	✔
BA 2550-A-4		004	2390026	E108	15-Dec-2025	19-Dec-2025	30 days	4 days	✔	19-Dec-2025	30 days	4 days	✔
BA 2550-A-5		005	2390026	E108	15-Dec-2025	19-Dec-2025	30 days	4 days	✔	19-Dec-2025	30 days	4 days	✔
BA 2550-A-6		006	2390026	E108	15-Dec-2025	19-Dec-2025	30 days	4 days	✔	19-Dec-2025	30 days	4 days	✔
BA 2550-A-7		007	2390026	E108	15-Dec-2025	19-Dec-2025	30 days	4 days	✔	19-Dec-2025	30 days	4 days	✔
BA 2550-A-8		008	2390026	E108	15-Dec-2025	19-Dec-2025	30 days	4 days	✔	19-Dec-2025	30 days	4 days	✔
BA 2550-A-9		009	2390026	E108	15-Dec-2025	19-Dec-2025	30 days	4 days	✔	19-Dec-2025	30 days	4 days	✔



Matrix: Soil/Solid

Evaluation: ✖ = Holding time exceedance; ✔ = Within Holding Time

Analyte Group : Analytical Method		ALS Sample ID	QC Lot	Method	Sampling Date	Extraction / Preparation			Analysis			
Container	Preparation Date					Holding Times		Eval	Analysis Date	Holding Times		Eval
Client sample ID						Rec	Actual			Rec	Actual	
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)												
LDPE bag												
BA 2550-A-10	010	2390026	E108	15-Dec-2025	19-Dec-2025	30 days	4 days	✔	19-Dec-2025	30 days	4 days	✔
BA 2550-A-11	011	2390026	E108	15-Dec-2025	19-Dec-2025	30 days	4 days	✔	19-Dec-2025	30 days	4 days	✔
BA 2550-A-12	012	2390026	E108	15-Dec-2025	19-Dec-2025	30 days	4 days	✔	19-Dec-2025	30 days	4 days	✔
TCLP Metals : Mercury by CVAAS (TCLP)												
Glass vial - total (lab preserved)												
BA 2550-A-1	001	2394657	E512	15-Dec-2025	21-Dec-2025	28 days	6 days	✔	21-Dec-2025	28 days	6 days	✔
BA 2550-A-2	002	2394657	E512	15-Dec-2025	21-Dec-2025	28 days	6 days	✔	21-Dec-2025	28 days	6 days	✔
BA 2550-A-3	003	2394658	E512	15-Dec-2025	21-Dec-2025	28 days	6 days	✔	21-Dec-2025	28 days	6 days	✔
BA 2550-A-4	004	2394658	E512	15-Dec-2025	21-Dec-2025	28 days	6 days	✔	21-Dec-2025	28 days	6 days	✔
BA 2550-A-5	005	2394658	E512	15-Dec-2025	21-Dec-2025	28 days	6 days	✔	21-Dec-2025	28 days	6 days	✔
BA 2550-A-6	006	2394658	E512	15-Dec-2025	21-Dec-2025	28 days	6 days	✔	21-Dec-2025	28 days	6 days	✔
BA 2550-A-7	007	2394657	E512	15-Dec-2025	21-Dec-2025	28 days	6 days	✔	21-Dec-2025	28 days	6 days	✔
BA 2550-A-8	008	2394657	E512	15-Dec-2025	21-Dec-2025	28 days	6 days	✔	21-Dec-2025	28 days	6 days	✔
BA 2550-A-9	009	2394658	E512	15-Dec-2025	21-Dec-2025	28 days	6 days	✔	21-Dec-2025	28 days	6 days	✔
BA 2550-A-10	010	2394657	E512	15-Dec-2025	21-Dec-2025	28 days	6 days	✔	21-Dec-2025	28 days	6 days	✔
BA 2550-A-11	011	2394658	E512	15-Dec-2025	21-Dec-2025	28 days	6 days	✔	21-Dec-2025	28 days	6 days	✔
BA 2550-A-12	012	2394658	E512	15-Dec-2025	21-Dec-2025	28 days	6 days	✔	21-Dec-2025	28 days	6 days	✔



Matrix: Soil/Solid

Evaluation: * = Holding time exceedance; ✓ = Within Holding Time

Analyte Group : Analytical Method	ALS Sample ID	QC Lot	Method	Sampling Date	Extraction / Preparation				Analysis			
					Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
						Rec	Actual			Rec	Actual	
Container	Client sample ID											
TCLP Metals : Metals by CRC ICPMS (TCLP)												
HDPE - total (lab preserved)												
BA 2550-A-1	001	2394659	E444	15-Dec-2025	21-Dec-2025	180 days	6 days	✓	22-Dec-2025	180 days	7 days	✓
BA 2550-A-2	002	2394659	E444	15-Dec-2025	21-Dec-2025	180 days	6 days	✓	22-Dec-2025	180 days	7 days	✓
BA 2550-A-3	003	2394660	E444	15-Dec-2025	21-Dec-2025	180 days	6 days	✓	22-Dec-2025	180 days	7 days	✓
BA 2550-A-4	004	2394660	E444	15-Dec-2025	21-Dec-2025	180 days	6 days	✓	22-Dec-2025	180 days	7 days	✓
BA 2550-A-5	005	2394660	E444	15-Dec-2025	21-Dec-2025	180 days	6 days	✓	22-Dec-2025	180 days	7 days	✓
BA 2550-A-6	006	2394660	E444	15-Dec-2025	21-Dec-2025	180 days	6 days	✓	22-Dec-2025	180 days	7 days	✓
BA 2550-A-7	007	2394659	E444	15-Dec-2025	21-Dec-2025	180 days	6 days	✓	22-Dec-2025	180 days	7 days	✓
BA 2550-A-8	008	2394659	E444	15-Dec-2025	21-Dec-2025	180 days	6 days	✓	22-Dec-2025	180 days	7 days	✓
BA 2550-A-9	009	2394660	E444	15-Dec-2025	21-Dec-2025	180 days	6 days	✓	22-Dec-2025	180 days	7 days	✓
BA 2550-A-10	010	2394659	E444	15-Dec-2025	21-Dec-2025	180 days	6 days	✓	22-Dec-2025	180 days	7 days	✓
BA 2550-A-11	011	2394660	E444	15-Dec-2025	21-Dec-2025	180 days	6 days	✓	22-Dec-2025	180 days	7 days	✓
BA 2550-A-12	012	2394660	E444	15-Dec-2025	21-Dec-2025	180 days	6 days	✓	22-Dec-2025	180 days	7 days	✓
TCLP Metals : TCLP Leachate Preparation (Metals, Inorganics, and SVOCs)												
Lab Split - Non-Volatile Leach: 28 day HT (e.g. Hg, CrVI, PFAS)												
BA 2550-A-1	001		EPP444	15-Dec-2025	----	----	----		19-Dec-2025	28 days	3 days	✓
BA 2550-A-2	002		EPP444	15-Dec-2025	----	----	----		19-Dec-2025	28 days	3 days	✓
BA 2550-A-3	003		EPP444	15-Dec-2025	----	----	----		19-Dec-2025	28 days	3 days	✓
BA 2550-A-4	004		EPP444	15-Dec-2025	----	----	----		19-Dec-2025	28 days	3 days	✓



Matrix: Soil/Solid

Evaluation: ✖ = Holding time exceedance; ✔ = Within Holding Time

Analyte Group : Analytical Method		ALS Sample ID	QC Lot	Method	Sampling Date	Extraction / Preparation			Analysis				
Container	Preparation Date					Holding Times		Eval	Analysis Date	Holding Times		Eval	
Client sample ID						Rec	Actual			Rec	Actual		
TCLP Metals : TCLP Leachate Preparation (Metals, Inorganics, and SVOCs)													
Lab Split - Non-Volatile Leach: 28 day HT (e.g. Hg, CrVI, PFAS)													
BA 2550-A-5		005		EPP444	15-Dec-2025	----	----	----		19-Dec-2025	28 days	3 days	✔
BA 2550-A-6		006		EPP444	15-Dec-2025	----	----	----		19-Dec-2025	28 days	3 days	✔
BA 2550-A-7		007		EPP444	15-Dec-2025	----	----	----		19-Dec-2025	28 days	3 days	✔
BA 2550-A-8		008		EPP444	15-Dec-2025	----	----	----		19-Dec-2025	28 days	3 days	✔
BA 2550-A-9		009		EPP444	15-Dec-2025	----	----	----		19-Dec-2025	28 days	3 days	✔
BA 2550-A-10		010		EPP444	15-Dec-2025	----	----	----		19-Dec-2025	28 days	3 days	✔
BA 2550-A-11		011		EPP444	15-Dec-2025	----	----	----		19-Dec-2025	28 days	3 days	✔
BA 2550-A-12		012		EPP444	15-Dec-2025	----	----	----		19-Dec-2025	28 days	3 days	✔

Rec. HT: ALS recommended hold time (see units).



Quality Control Parameter Frequency Compliance

The following report summarizes the frequency of laboratory QC samples analyzed within the analytical batches (QC lots) in which the submitted samples were processed. The actual frequency should be greater than or equal to the expected frequency.

Matrix: Soil/Solid

Evaluation: ✖ = QC frequency outside specification; ✔ = QC frequency within specification

Quality Control Sample Type	Method	QC Lot #	Count		Frequency (%)		
			QC	Regular	Actual	Expected	Evaluation
Analytical Methods							
Laboratory Duplicates (DUP)							
pH by Meter (1:2 Soil:Water Extraction)	E108	2390026	1	18	5.6	5.0	✔
Moisture Content by Gravimetry	E144	2390027	1	12	8.3	5.0	✔
Metals in Soil/Solid by CRC ICPMS	E440	2390023	1	18	5.6	5.0	✔
Metals by CRC ICPMS (TCLP)	E444	2394659	2	12	16.7	5.0	✔
Mercury in Soil/Solid by CVAAS	E510	2390022	1	18	5.6	5.0	✔
Mercury by CVAAS (TCLP)	E512	2394657	2	12	16.7	5.0	✔
Laboratory Control Samples (LCS)							
pH by Meter (1:2 Soil:Water Extraction)	E108	2390026	1	18	5.6	5.0	✔
Moisture Content by Gravimetry	E144	2390027	1	12	8.3	5.0	✔
Metals in Soil/Solid by CRC ICPMS	E440	2390023	2	18	11.1	10.0	✔
Mercury in Soil/Solid by CVAAS	E510	2390022	2	18	11.1	10.0	✔
Method Blanks (MB)							
Moisture Content by Gravimetry	E144	2390027	1	12	8.3	5.0	✔
Metals in Soil/Solid by CRC ICPMS	E440	2390023	1	18	5.6	5.0	✔
Metals by CRC ICPMS (TCLP)	E444	2394659	2	12	16.7	5.0	✔
Mercury in Soil/Solid by CVAAS	E510	2390022	1	18	5.6	5.0	✔
Mercury by CVAAS (TCLP)	E512	2394657	2	12	16.7	5.0	✔
Matrix Spikes (MS)							
Metals by CRC ICPMS (TCLP)	E444	2394659	2	12	16.7	5.0	✔
Mercury by CVAAS (TCLP)	E512	2394657	2	12	16.7	5.0	✔



Methodology References and Summaries

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Reference methods may incorporate modifications to improve performance (indicated by "mod").

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Mercury by CVAAS (TCLP)	E512 ALS Environmental - Vancouver	Soil/Solid	EPA 1311/245.1 (mod)	An extract produced by the Toxicity Characteristic Leachate Procedure (TCLP) as per EPA 1311 is analyzed by CVAAS.
Mercury in Soil/Solid by CVAAS	E510 ALS Environmental - Vancouver	Soil/Solid	EPA 200.2/1631 Appendix (mod)	Samples are dried, then sieved through a 2 mm sieve, and digested with HNO ₃ and HCl, followed by CVAAS analysis.
Metals by CRC ICPMS (TCLP)	E444 ALS Environmental - Vancouver	Soil/Solid	EPA 1311/6020B (mod)	An extract produced by the Toxicity Characteristic Leachate Procedure (TCLP) as per EPA 1311 is analyzed by Collision/Reaction Cell ICPMS.
Metals in Soil/Solid by CRC ICPMS	E440 ALS Environmental - Vancouver	Soil/Solid	EPA 6020B (mod)	This method is intended to liberate metals that may be environmentally available. Samples are dried, then sieved through a 2 mm sieve, and digested with HNO ₃ and HCl. Dependent on sample matrix, some metals may be only partially recovered, including Al, Ba, Be, Cr, Sr, Ti, Tl, V, W, and Zr. Silicate minerals are not solubilized. Volatile forms of sulfur (including sulfide) may not be captured, as they may be lost during sampling, storage, or digestion. This method does not adequately recover elemental sulfur, and is unsuitable for assessment of elemental sulfur standards or guidelines. Analysis is by Collision/Reaction Cell ICPMS.
Moisture Content by Gravimetry	E144 ALS Environmental - Vancouver	Soil/Solid	CCME PHC in Soil - Tier 1	Moisture is measured gravimetrically by drying the sample at 105°C. Moisture content is calculated as the weight loss (due to water) divided by the wet weight of the sample, expressed as a percentage.
pH by Meter (1:2 Soil:Water Extraction)	E108 ALS Environmental - Vancouver	Soil/Solid	BC Lab Manual	pH is determined by potentiometric measurement with a pH electrode at ambient laboratory temperature (normally 20 ± 5°C), and is carried out in accordance with procedures described in the BC Lab Manual (prescriptive method). The procedure involves mixing the dried (at <60 °C) and sieved (10mesh/2mm) sample with ultra pure water at a 1:2 ratio of sediment to water. The pH is then measured by a standard pH probe.
Preparation Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
BrCl Digestion for Total Mercury (TCLP)	EP512 ALS Environmental - Vancouver	Soil/Solid	EPA 1631E (mod)	An extract from a soil/solid waste leachate is digested with BrCl.
Digestion for Metals and Mercury	EP440 ALS Environmental - Vancouver	Soil/Solid	EPA 200.2 (mod)	Samples are dried, then sieved through a 2 mm sieve, and digested with HNO ₃ and HCl. This method is intended to liberate metals that may be environmentally available.
Leach 1:2 Soil:Water for pH/EC	EP108 ALS Environmental - Vancouver	Soil/Solid	BC WLAP METHOD: PH, ELECTROMETRIC, SOIL	The procedure involves mixing the dried (at <60°C) and sieved (No. 10 / 2mm) sample with deionized/distilled water at a 1:2 ratio of sediment to water.
Metals Digestion (TCLP)	EP444 ALS Environmental - Vancouver	Soil/Solid	EPA 200.2 (mod)	An extract from the TCLP is digested with HNO ₃ and HCl to liberate "total recoverable" metals.



TCLP Leachate Preparation (Metals, Inorganics, and SVOCs)	EPP444 ALS Environmental - Vancouver	Soil/Solid	EPA 1311	Preparation of a Toxicity Characteristic Leaching Procedure (TCLP) solid sample involves particle size reduction, homogenization, then determination of appropriate extraction fluid. A measured portion of fresh subsample is placed in an extraction bottle with the appropriate extraction fluid then tumbled in a rotary extractor for 18+/- 2 hours at 23 +/- 2 C. The liquid leachate is filtered to separate from solids then bottled and prepared for analytical tests.
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QUALITY CONTROL REPORT

Work Order	: VA25D3523	Page	: 1 of 14
Client	: Veolia Environmental Services Canada	Laboratory	: ALS Environmental - Vancouver
Contact	: Brian Graham	Account Manager	: Gulraj Dhanaua
Address	: 5150 Riverbend Dr. Burnaby BC Canada V3N 4V3	Address	: 8081 Lougheed Highway Burnaby, British Columbia Canada V5A 1W9
Telephone	: ----	Telephone	: +1 604 253 4188
Project	: Veolia Weekly Bottom Ash-Suite	Date Samples Received	: 16-Dec-2025 14:30
PO	: 1000497676	Date Analysis Commenced	: 17-Dec-2025
C-O-C number	: ----	Issue Date	: 22-Dec-2025 11:18
Sampler	: ----		
Site	: includes 2:1 pH)		
Quote number	: Veolia Environmental Western Canada Standing Offer		
No. of samples received	: 12		
No. of samples analysed	: 12		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percent Difference (RPD) and Data Quality Objectives
- Matrix Spike (MS) Report; Recovery and Data Quality Objectives
- Reference Material (RM) Report; Recovery and Data Quality Objectives
- Method Blank (MB) Report; Recovery and Data Quality Objectives
- Laboratory Control Sample (LCS) Report; Recovery and Data Quality Objectives

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

<i>Signatories</i>	<i>Position</i>	<i>Laboratory Department</i>
Robin Weeks	Supervisor - Organics Extractions	Vancouver Metals, Burnaby, British Columbia
Robin Weeks	Supervisor - Organics Extractions	Vancouver Organics, Burnaby, British Columbia



General Comments

The ALS Quality Control (QC) report is optionally provided to ALS clients upon request. ALS test methods include comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined Data Quality Objectives (DQOs) to provide confidence in the accuracy of associated test results. This report contains detailed results for all QC results applicable to this sample submission. Please refer to the ALS Quality Control Interpretation report (QCI) for applicable method references and methodology summaries.

Key :

Anonymous = Refers to samples which are not part of this work order, but which formed part of the QC process lot.

CAS Number = Chemical Abstracts Service number is a unique identifier assigned to discrete substances.

DQO = Data Quality Objective.

LOR = Limit of Reporting (detection limit).

RPD = Relative Percent Difference

= Indicates a QC result that did not meet the ALS DQO.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.



Laboratory Duplicate (DUP) Report

A Laboratory Duplicate (DUP) is a randomly selected intralaboratory replicate sample. Laboratory Duplicates provide information regarding method precision and sample heterogeneity. ALS DQOs for Laboratory Duplicates are expressed as test-specific limits for Relative Percent Difference (RPD), or as an absolute difference limit of 2 times the LOR for low concentration duplicates within ~ 4-10 times the LOR (cut-off is test-specific).

Sub-Matrix: Soil/Solid

					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Physical Tests (QC Lot: 2390026)											
VA25D3273-001	Anonymous	pH (1:2 soil:water)	----	E108	0.10	pH units	7.17	7.20	0.4%	5%	----
Physical Tests (QC Lot: 2390027)											
VA25D3523-001	BA 2550-A-1	Moisture	----	E144	0.25	%	28.1	28.0	0.208%	20%	----
Metals (QC Lot: 2390022)											
VA25D3273-001	Anonymous	Mercury	7439-97-6	E510	0.0500	mg/kg	<0.0500	<0.0500	0	Diff <2x LOR	----
Metals (QC Lot: 2390023)											
VA25D3273-001	Anonymous	Aluminum	7429-90-5	E440	50	mg/kg	725	259	94.6%	40%	DUP-H
		Antimony	7440-36-0	E440	0.10	mg/kg	<0.10	<0.10	0	Diff <2x LOR	----
		Arsenic	7440-38-2	E440	0.10	mg/kg	<0.10	<0.10	0	Diff <2x LOR	----
		Barium	7440-39-3	E440	0.50	mg/kg	15.4	7.92	64.3%	40%	DUP-H
		Beryllium	7440-41-7	E440	0.10	mg/kg	<0.10	<0.10	0	Diff <2x LOR	----
		Bismuth	7440-69-9	E440	0.20	mg/kg	<0.20	<0.20	0	Diff <2x LOR	----
		Boron	7440-42-8	E440	5.0	mg/kg	8.2	8.1	0.09	Diff <2x LOR	----
		Cadmium	7440-43-9	E440	0.020	mg/kg	<0.020	<0.020	0	Diff <2x LOR	----
		Calcium	7440-70-2	E440	50	mg/kg	1980	1660	17.4%	30%	----
		Chromium	7440-47-3	E440	0.50	mg/kg	<0.50	<0.50	0	Diff <2x LOR	----
		Cobalt	7440-48-4	E440	0.10	mg/kg	0.36	0.25	0.11	Diff <2x LOR	----
		Copper	7440-50-8	E440	0.50	mg/kg	7.21	7.63	5.72%	30%	----
		Iron	7439-89-6	E440	50	mg/kg	675	320	71.3%	30%	DUP-H
		Lead	7439-92-1	E440	0.50	mg/kg	<0.50	<0.50	0	Diff <2x LOR	----
		Lithium	7439-93-2	E440	2.0	mg/kg	<2.0	<2.0	0	Diff <2x LOR	----
		Magnesium	7439-95-4	E440	20	mg/kg	427	337	23.5%	30%	----
		Manganese	7439-96-5	E440	1.0	mg/kg	30.1	18.6	47.1%	30%	DUP-H
		Molybdenum	7439-98-7	E440	0.10	mg/kg	0.16	0.19	0.02	Diff <2x LOR	----
		Nickel	7440-02-0	E440	0.50	mg/kg	1.02	1.00	0.02	Diff <2x LOR	----
		Phosphorus	7723-14-0	E440	50	mg/kg	146	125	21	Diff <2x LOR	----
		Potassium	7440-09-7	E440	100	mg/kg	470	440	40	Diff <2x LOR	----
		Selenium	7782-49-2	E440	0.20	mg/kg	<0.20	<0.20	0	Diff <2x LOR	----
		Silver	7440-22-4	E440	0.10	mg/kg	<0.10	<0.10	0	Diff <2x LOR	----
		Sodium	7440-23-5	E440	50	mg/kg	171	130	41	Diff <2x LOR	----



Sub-Matrix: Soil/Solid					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Metals (QC Lot: 2390023) - continued											
VA25D3273-001	Anonymous	Strontium	7440-24-6	E440	0.50	mg/kg	35.2	35.7	1.46%	40%	----
		Sulfur	7704-34-9	E440	1000	mg/kg	<1000	<1000	0	Diff <2x LOR	----
		Thallium	7440-28-0	E440	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Tin	7440-31-5	E440	2.0	mg/kg	<2.0	<2.0	0	Diff <2x LOR	----
		Titanium	7440-32-6	E440	1.0	mg/kg	36.2	13.8	89.9%	40%	DUP-H
		Tungsten	7440-33-7	E440	0.50	mg/kg	<0.50	<0.50	0	Diff <2x LOR	----
		Uranium	7440-61-1	E440	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Vanadium	7440-62-2	E440	0.20	mg/kg	1.51	# 0.57	0.94	Diff <2x LOR	DUP-H,J
		Zinc	7440-66-6	E440	2.0	mg/kg	2.5	<2.0	0.5	Diff <2x LOR	----
Zirconium	7440-67-7	E440	1.0	mg/kg	<1.0	<1.0	0	Diff <2x LOR	----		
TCLP Metals (QC Lot: 2394657)											
VA25D3523-001	BA 2550-A-1	Mercury, TCLP	7439-97-6	E512	0.0010	mg/L	<0.0010	<0.0010	0	Diff <2x LOR	----
TCLP Metals (QC Lot: 2394658)											
VA25D3523-003	BA 2550-A-3	Mercury, TCLP	7439-97-6	E512	0.0010	mg/L	<0.0010	<0.0010	0	Diff <2x LOR	----
TCLP Metals (QC Lot: 2394659)											
VA25D3523-001	BA 2550-A-1	Antimony, TCLP	7440-36-0	E444	1.00	mg/L	<1.00	<1.00	0	Diff <2x LOR	----
		Arsenic, TCLP	7440-38-2	E444	1.0	mg/L	<1.0	<1.0	0	Diff <2x LOR	----
		Barium, TCLP	7440-39-3	E444	2.5	mg/L	<2.5	<2.5	0	Diff <2x LOR	----
		Beryllium, TCLP	7440-41-7	E444	0.025	mg/L	<0.025	<0.025	0	Diff <2x LOR	----
		Boron, TCLP	7440-42-8	E444	0.50	mg/L	0.81	0.81	0.005	Diff <2x LOR	----
		Cadmium, TCLP	7440-43-9	E444	0.050	mg/L	<0.050	<0.050	0	Diff <2x LOR	----
		Calcium, TCLP	7440-70-2	E444	10	mg/L	733	739	0.725%	30%	----
		Chromium, TCLP	7440-47-3	E444	0.25	mg/L	<0.25	<0.25	0	Diff <2x LOR	----
		Cobalt, TCLP	7440-48-4	E444	0.050	mg/L	<0.050	<0.050	0	Diff <2x LOR	----
		Copper, TCLP	7440-50-8	E444	0.050	mg/L	1.02	1.04	2.06%	30%	----
		Iron, TCLP	7439-89-6	E444	5.0	mg/L	<5.0	<5.0	0	Diff <2x LOR	----
		Lead, TCLP	7439-92-1	E444	0.25	mg/L	<0.25	<0.25	0	Diff <2x LOR	----
		Magnesium, TCLP	7439-95-4	E444	2.5	mg/L	<2.5	<2.5	0	Diff <2x LOR	----
		Nickel, TCLP	7440-02-0	E444	0.25	mg/L	<0.25	<0.25	0	Diff <2x LOR	----
		Selenium, TCLP	7782-49-2	E444	0.10	mg/L	<0.10	<0.10	0	Diff <2x LOR	----
		Silver, TCLP	7440-22-4	E444	0.050	mg/L	<0.050	<0.050	0	Diff <2x LOR	----
		Thallium, TCLP	7440-28-0	E444	1.0	mg/L	<1.0	<1.0	0	Diff <2x LOR	----
		Uranium, TCLP	7440-61-1	E444	0.20	mg/L	<0.20	<0.20	0	Diff <2x LOR	----
Vanadium, TCLP	7440-62-2	E444	0.15	mg/L	<0.15	<0.15	0	Diff <2x LOR	----		



Sub-Matrix: Soil/Solid					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
TCLP Metals (QC Lot: 2394659) - continued											
VA25D3523-001	BA 2550-A-1	Zinc, TCLP	7440-66-6	E444	0.50	mg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Zirconium, TCLP	7440-67-7	E444	10	mg/L	<10	<10	0	Diff <2x LOR	----
TCLP Metals (QC Lot: 2394660)											
VA25D3523-003	BA 2550-A-3	Antimony, TCLP	7440-36-0	E444	1.00	mg/L	<1.00	<1.00	0	Diff <2x LOR	----
		Arsenic, TCLP	7440-38-2	E444	1.0	mg/L	<1.0	<1.0	0	Diff <2x LOR	----
		Barium, TCLP	7440-39-3	E444	2.5	mg/L	<2.5	<2.5	0	Diff <2x LOR	----
		Beryllium, TCLP	7440-41-7	E444	0.025	mg/L	<0.025	<0.025	0	Diff <2x LOR	----
		Boron, TCLP	7440-42-8	E444	0.50	mg/L	2.38	2.38	0.007	Diff <2x LOR	----
		Cadmium, TCLP	7440-43-9	E444	0.050	mg/L	0.052	0.054	0.002	Diff <2x LOR	----
		Calcium, TCLP	7440-70-2	E444	10	mg/L	1850	1890	2.01%	30%	----
		Chromium, TCLP	7440-47-3	E444	0.25	mg/L	<0.25	<0.25	0	Diff <2x LOR	----
		Cobalt, TCLP	7440-48-4	E444	0.050	mg/L	1.33	1.37	2.84%	30%	----
		Copper, TCLP	7440-50-8	E444	0.050	mg/L	0.805	0.822	2.06%	30%	----
		Iron, TCLP	7439-89-6	E444	5.0	mg/L	<5.0	<5.0	0	Diff <2x LOR	----
		Lead, TCLP	7439-92-1	E444	0.25	mg/L	<0.25	<0.25	0	Diff <2x LOR	----
		Magnesium, TCLP	7439-95-4	E444	2.5	mg/L	126	133	5.20%	30%	----
		Nickel, TCLP	7440-02-0	E444	0.25	mg/L	0.35	0.35	0.007	Diff <2x LOR	----
		Selenium, TCLP	7782-49-2	E444	0.10	mg/L	<0.10	<0.10	0	Diff <2x LOR	----
		Silver, TCLP	7440-22-4	E444	0.050	mg/L	<0.050	<0.050	0	Diff <2x LOR	----
		Thallium, TCLP	7440-28-0	E444	1.0	mg/L	<1.0	<1.0	0	Diff <2x LOR	----
		Uranium, TCLP	7440-61-1	E444	0.20	mg/L	<0.20	<0.20	0	Diff <2x LOR	----
Vanadium, TCLP	7440-62-2	E444	0.15	mg/L	<0.15	<0.15	0	Diff <2x LOR	----		
Zinc, TCLP	7440-66-6	E444	0.50	mg/L	21.9	22.5	2.55%	30%	----		
Zirconium, TCLP	7440-67-7	E444	10	mg/L	<10	<10	0	Diff <2x LOR	----		

Qualifiers

Qualifier	Description
DUP-H	Duplicate results outside ALS DQO, due to sample heterogeneity.
J	Duplicate results and limits are expressed in terms of absolute difference.



Method Blank (MB) Report

A Method Blank is an analyte-free matrix that undergoes sample processing identical to that carried out for test samples. Method Blank results are used to monitor and control for potential contamination from the laboratory environment and reagents. For most tests, the DQO for Method Blanks is for the result to be < LOR.

Sub-Matrix: Soil/Solid

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Physical Tests (QCLot: 2390027)						
Moisture	---	E144	0.25	%	<0.25	---
Metals (QCLot: 2390022)						
Mercury	7439-97-6	E510	0.005	mg/kg	<0.0050	---
Metals (QCLot: 2390023)						
Aluminum	7429-90-5	E440	50	mg/kg	<50	---
Antimony	7440-36-0	E440	0.1	mg/kg	<0.10	---
Arsenic	7440-38-2	E440	0.1	mg/kg	<0.10	---
Barium	7440-39-3	E440	0.5	mg/kg	<0.50	---
Beryllium	7440-41-7	E440	0.1	mg/kg	<0.10	---
Bismuth	7440-69-9	E440	0.2	mg/kg	<0.20	---
Boron	7440-42-8	E440	5	mg/kg	<5.0	---
Cadmium	7440-43-9	E440	0.02	mg/kg	<0.020	---
Calcium	7440-70-2	E440	50	mg/kg	<50	---
Chromium	7440-47-3	E440	0.5	mg/kg	<0.50	---
Cobalt	7440-48-4	E440	0.1	mg/kg	<0.10	---
Copper	7440-50-8	E440	0.5	mg/kg	<0.50	---
Iron	7439-89-6	E440	50	mg/kg	<50	---
Lead	7439-92-1	E440	0.5	mg/kg	<0.50	---
Lithium	7439-93-2	E440	2	mg/kg	<2.0	---
Magnesium	7439-95-4	E440	20	mg/kg	<20	---
Manganese	7439-96-5	E440	1	mg/kg	<1.0	---
Molybdenum	7439-98-7	E440	0.1	mg/kg	<0.10	---
Nickel	7440-02-0	E440	0.5	mg/kg	<0.50	---
Phosphorus	7723-14-0	E440	50	mg/kg	<50	---
Potassium	7440-09-7	E440	100	mg/kg	<100	---
Selenium	7782-49-2	E440	0.2	mg/kg	<0.20	---
Silver	7440-22-4	E440	0.1	mg/kg	<0.10	---
Sodium	7440-23-5	E440	50	mg/kg	<50	---
Strontium	7440-24-6	E440	0.5	mg/kg	<0.50	---
Sulfur	7704-34-9	E440	1000	mg/kg	<1000	---
Thallium	7440-28-0	E440	0.05	mg/kg	<0.050	---
Tin	7440-31-5	E440	2	mg/kg	<2.0	---



Sub-Matrix: **Soil/Solid**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Metals (QCLot: 2390023) - continued						
Titanium	7440-32-6	E440	1	mg/kg	<1.0	----
Tungsten	7440-33-7	E440	0.5	mg/kg	<0.50	----
Uranium	7440-61-1	E440	0.05	mg/kg	<0.050	----
Vanadium	7440-62-2	E440	0.2	mg/kg	<0.20	----
Zinc	7440-66-6	E440	2	mg/kg	<2.0	----
Zirconium	7440-67-7	E440	1	mg/kg	<1.0	----
TCLP Metals (QCLot: 2394657)						
Mercury, TCLP	7439-97-6	E512	0.001	mg/L	<0.0010	----
TCLP Metals (QCLot: 2394658)						
Mercury, TCLP	7439-97-6	E512	0.001	mg/L	<0.0010	----
TCLP Metals (QCLot: 2394659)						
Antimony, TCLP	7440-36-0	E444	0.1	mg/L	<0.10	----
Arsenic, TCLP	7440-38-2	E444	1	mg/L	<1.0	----
Barium, TCLP	7440-39-3	E444	2.5	mg/L	<2.5	----
Beryllium, TCLP	7440-41-7	E444	0.025	mg/L	<0.025	----
Boron, TCLP	7440-42-8	E444	0.5	mg/L	<0.50	----
Cadmium, TCLP	7440-43-9	E444	0.05	mg/L	<0.050	----
Calcium, TCLP	7440-70-2	E444	10	mg/L	<10	----
Chromium, TCLP	7440-47-3	E444	0.25	mg/L	<0.25	----
Cobalt, TCLP	7440-48-4	E444	0.05	mg/L	<0.050	----
Copper, TCLP	7440-50-8	E444	0.05	mg/L	<0.050	----
Iron, TCLP	7439-89-6	E444	5	mg/L	<5.0	----
Lead, TCLP	7439-92-1	E444	0.25	mg/L	<0.25	----
Magnesium, TCLP	7439-95-4	E444	2.5	mg/L	<2.5	----
Nickel, TCLP	7440-02-0	E444	0.25	mg/L	<0.25	----
Selenium, TCLP	7782-49-2	E444	0.1	mg/L	<0.10	----
Silver, TCLP	7440-22-4	E444	0.05	mg/L	<0.050	----
Thallium, TCLP	7440-28-0	E444	1	mg/L	<1.0	----
Uranium, TCLP	7440-61-1	E444	0.2	mg/L	<0.20	----
Vanadium, TCLP	7440-62-2	E444	0.15	mg/L	<0.15	----
Zinc, TCLP	7440-66-6	E444	0.5	mg/L	<0.50	----
Zirconium, TCLP	7440-67-7	E444	10	mg/L	<10	----
TCLP Metals (QCLot: 2394660)						
Antimony, TCLP	7440-36-0	E444	0.1	mg/L	<0.10	----
Arsenic, TCLP	7440-38-2	E444	1	mg/L	<1.0	----



Sub-Matrix: **Soil/Solid**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
TCLP Metals (QCLot: 2394660) - continued						
Barium, TCLP	7440-39-3	E444	2.5	mg/L	<2.5	----
Beryllium, TCLP	7440-41-7	E444	0.025	mg/L	<0.025	----
Boron, TCLP	7440-42-8	E444	0.5	mg/L	<0.50	----
Cadmium, TCLP	7440-43-9	E444	0.05	mg/L	<0.050	----
Calcium, TCLP	7440-70-2	E444	10	mg/L	<10	----
Chromium, TCLP	7440-47-3	E444	0.25	mg/L	<0.25	----
Cobalt, TCLP	7440-48-4	E444	0.05	mg/L	<0.050	----
Copper, TCLP	7440-50-8	E444	0.05	mg/L	<0.050	----
Iron, TCLP	7439-89-6	E444	5	mg/L	<5.0	----
Lead, TCLP	7439-92-1	E444	0.25	mg/L	<0.25	----
Magnesium, TCLP	7439-95-4	E444	2.5	mg/L	<2.5	----
Nickel, TCLP	7440-02-0	E444	0.25	mg/L	<0.25	----
Selenium, TCLP	7782-49-2	E444	0.1	mg/L	<0.10	----
Silver, TCLP	7440-22-4	E444	0.05	mg/L	<0.050	----
Thallium, TCLP	7440-28-0	E444	1	mg/L	<1.0	----
Uranium, TCLP	7440-61-1	E444	0.2	mg/L	<0.20	----
Vanadium, TCLP	7440-62-2	E444	0.15	mg/L	<0.15	----
Zinc, TCLP	7440-66-6	E444	0.5	mg/L	<0.50	----
Zirconium, TCLP	7440-67-7	E444	10	mg/L	<10	----



Laboratory Control Sample (LCS) Report

A Laboratory Control Sample (LCS) is an analyte-free matrix that has been fortified (spiked) with test analytes at known concentration and processed in an identical manner to test samples. LCS results are expressed as percent recovery, and are used to monitor and control test method accuracy and precision, independent of test sample matrix.

Sub-Matrix: Soil/Solid

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Physical Tests (QCLot: 2390026)									
pH (1:2 soil:water)	---	E108	---	pH units	6 pH units	99.7	95.0	105	---
Physical Tests (QCLot: 2390027)									
Moisture	---	E144	0.25	%	50 %	101	90.0	110	---
Metals (QCLot: 2390022)									
Mercury	7439-97-6	E510	0.005	mg/kg	0.1 mg/kg	83.9	80.0	120	---
Metals (QCLot: 2390023)									
Aluminum	7429-90-5	E440	50	mg/kg	200 mg/kg	99.7	80.0	120	---
Antimony	7440-36-0	E440	0.1	mg/kg	100 mg/kg	100.0	80.0	120	---
Arsenic	7440-38-2	E440	0.1	mg/kg	100 mg/kg	96.4	80.0	120	---
Barium	7440-39-3	E440	0.5	mg/kg	25 mg/kg	98.5	80.0	120	---
Beryllium	7440-41-7	E440	0.1	mg/kg	10 mg/kg	94.5	80.0	120	---
Bismuth	7440-69-9	E440	0.2	mg/kg	100 mg/kg	94.8	80.0	120	---
Boron	7440-42-8	E440	5	mg/kg	100 mg/kg	93.0	80.0	120	---
Cadmium	7440-43-9	E440	0.02	mg/kg	10 mg/kg	96.5	80.0	120	---
Calcium	7440-70-2	E440	50	mg/kg	5000 mg/kg	96.6	80.0	120	---
Chromium	7440-47-3	E440	0.5	mg/kg	25 mg/kg	95.0	80.0	120	---
Cobalt	7440-48-4	E440	0.1	mg/kg	25 mg/kg	96.6	80.0	120	---
Copper	7440-50-8	E440	0.5	mg/kg	25 mg/kg	93.2	80.0	120	---
Iron	7439-89-6	E440	50	mg/kg	100 mg/kg	101	80.0	120	---
Lead	7439-92-1	E440	0.5	mg/kg	50 mg/kg	97.8	80.0	120	---
Lithium	7439-93-2	E440	2	mg/kg	25 mg/kg	97.4	80.0	120	---
Magnesium	7439-95-4	E440	20	mg/kg	5000 mg/kg	99.0	80.0	120	---
Manganese	7439-96-5	E440	1	mg/kg	25 mg/kg	97.8	80.0	120	---
Molybdenum	7439-98-7	E440	0.1	mg/kg	25 mg/kg	96.8	80.0	120	---
Nickel	7440-02-0	E440	0.5	mg/kg	50 mg/kg	95.7	80.0	120	---
Phosphorus	7723-14-0	E440	50	mg/kg	1000 mg/kg	101	80.0	120	---
Potassium	7440-09-7	E440	100	mg/kg	5000 mg/kg	101	80.0	120	---
Selenium	7782-49-2	E440	0.2	mg/kg	100 mg/kg	96.6	80.0	120	---
Silver	7440-22-4	E440	0.1	mg/kg	10 mg/kg	95.3	80.0	120	---
Sodium	7440-23-5	E440	50	mg/kg	5000 mg/kg	97.1	80.0	120	---
Strontium	7440-24-6	E440	0.5	mg/kg	25 mg/kg	97.3	80.0	120	---
Sulfur	7704-34-9	E440	1000	mg/kg	5000 mg/kg	89.8	80.0	120	---



Sub-Matrix: Soil/Solid

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Metals (QCLot: 2390023) - continued									
Thallium	7440-28-0	E440	0.05	mg/kg	100 mg/kg	95.5	80.0	120	----
Tin	7440-31-5	E440	2	mg/kg	50 mg/kg	94.4	80.0	120	----
Titanium	7440-32-6	E440	1	mg/kg	25 mg/kg	97.4	80.0	120	----
Tungsten	7440-33-7	E440	0.5	mg/kg	10 mg/kg	96.4	80.0	120	----
Uranium	7440-61-1	E440	0.05	mg/kg	0.5 mg/kg	97.8	80.0	120	----
Vanadium	7440-62-2	E440	0.2	mg/kg	50 mg/kg	98.9	80.0	120	----
Zinc	7440-66-6	E440	2	mg/kg	50 mg/kg	94.2	80.0	120	----
Zirconium	7440-67-7	E440	1	mg/kg	10 mg/kg	93.3	80.0	120	----



Matrix Spike (MS) Report

A Matrix Spike (MS) is a randomly selected intra-laboratory replicate sample that has been fortified (spiked) with test analytes at known concentration, and processed in an identical manner to test samples. Matrix Spikes provide information regarding analyte recovery and potential matrix effects. MS DQO exceedances due to sample matrix may sometimes be unavoidable; in such cases, test results for the associated sample (or similar samples) may be subject to bias. ND – Recovery not determined, background level >= 1x spike level.

Sub-Matrix: Soil/Solid

					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
TCLP Metals (QCLot: 2394657)										
VA25D3523-001	BA 2550-A-1	Mercury, TCLP	7439-97-6	E512	0.0032 mg/L	0.003 mg/L	106	50.0	140	----
TCLP Metals (QCLot: 2394658)										
VA25D3523-003	BA 2550-A-3	Mercury, TCLP	7439-97-6	E512	0.0032 mg/L	0.003 mg/L	106	50.0	140	----
TCLP Metals (QCLot: 2394659)										
VA25D3523-001	BA 2550-A-1	Antimony, TCLP	7440-36-0	E444	4.46 mg/L	5 mg/L	89.3	50.0	140	----
		Arsenic, TCLP	7440-38-2	E444	4.4 mg/L	5 mg/L	87.9	50.0	140	----
		Barium, TCLP	7440-39-3	E444	11.2 mg/L	12.5 mg/L	89.9	50.0	140	----
		Beryllium, TCLP	7440-41-7	E444	0.218 mg/L	0.25 mg/L	87.1	50.0	140	----
		Boron, TCLP	7440-42-8	E444	8.45 mg/L	10 mg/L	84.5	50.0	140	----
		Cadmium, TCLP	7440-43-9	E444	0.215 mg/L	0.25 mg/L	85.8	50.0	140	----
		Calcium, TCLP	7440-70-2	E444	ND mg/L	----	ND	50.0	140	----
		Chromium, TCLP	7440-47-3	E444	1.08 mg/L	1.25 mg/L	86.7	50.0	140	----
		Cobalt, TCLP	7440-48-4	E444	0.215 mg/L	0.25 mg/L	86.1	50.0	140	----
		Copper, TCLP	7440-50-8	E444	2.06 mg/L	2.5 mg/L	82.2	50.0	140	----
		Iron, TCLP	7439-89-6	E444	205 mg/L	250 mg/L	82.2	50.0	140	----
		Lead, TCLP	7439-92-1	E444	8.61 mg/L	10 mg/L	86.1	50.0	140	----
		Magnesium, TCLP	7439-95-4	E444	230 mg/L	250 mg/L	92.1	50.0	140	----
		Nickel, TCLP	7440-02-0	E444	2.12 mg/L	2.5 mg/L	84.8	50.0	140	----
		Selenium, TCLP	7782-49-2	E444	4.12 mg/L	5 mg/L	82.3	50.0	140	----
		Silver, TCLP	7440-22-4	E444	0.084 mg/L	0.1 mg/L	84.2	50.0	140	----
		Thallium, TCLP	7440-28-0	E444	4.2 mg/L	5 mg/L	83.4	50.0	140	----
		Uranium, TCLP	7440-61-1	E444	4.48 mg/L	5 mg/L	89.6	50.0	150	----
		Vanadium, TCLP	7440-62-2	E444	0.67 mg/L	0.75 mg/L	89.0	50.0	140	----
		Zinc, TCLP	7440-66-6	E444	8.84 mg/L	10 mg/L	88.4	50.0	140	----
		Zirconium, TCLP	7440-67-7	E444	0.8 mg/L	1 mg/L	78.0	50.0	150	----
TCLP Metals (QCLot: 2394660)										
VA25D3523-003	BA 2550-A-3	Antimony, TCLP	7440-36-0	E444	4.48 mg/L	5 mg/L	89.7	50.0	140	----
		Arsenic, TCLP	7440-38-2	E444	4.5 mg/L	5 mg/L	90.7	50.0	140	----
		Barium, TCLP	7440-39-3	E444	11.8 mg/L	12.5 mg/L	94.4	50.0	140	----
		Beryllium, TCLP	7440-41-7	E444	0.218 mg/L	0.25 mg/L	87.0	50.0	140	----
		Boron, TCLP	7440-42-8	E444	8.65 mg/L	10 mg/L	86.5	50.0	140	----
		Cadmium, TCLP	7440-43-9	E444	0.224 mg/L	0.25 mg/L	89.5	50.0	140	----
		Calcium, TCLP	7440-70-2	E444	ND mg/L	----	ND	50.0	140	----
		Chromium, TCLP	7440-47-3	E444	1.12 mg/L	1.25 mg/L	89.8	50.0	140	----
		Cobalt, TCLP	7440-48-4	E444	ND mg/L	----	ND	50.0	140	----
		Copper, TCLP	7440-50-8	E444	2.16 mg/L	2.5 mg/L	86.3	50.0	140	----
		Iron, TCLP	7439-89-6	E444	215 mg/L	250 mg/L	86.1	50.0	140	----
		Lead, TCLP	7439-92-1	E444	8.96 mg/L	10 mg/L	89.6	50.0	140	----



Sub-Matrix: **Soil/Solid**

					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
TCLP Metals (QCLot: 2394660) - continued										
VA25D3523-003	BA 2550-A-3	Magnesium, TCLP	7439-95-4	E444	239 mg/L	250 mg/L	95.6	50.0	140	----
		Nickel, TCLP	7440-02-0	E444	2.19 mg/L	2.5 mg/L	87.6	50.0	140	----
		Selenium, TCLP	7782-49-2	E444	4.29 mg/L	5 mg/L	85.7	50.0	140	----
		Silver, TCLP	7440-22-4	E444	0.086 mg/L	0.1 mg/L	86.1	50.0	140	----
		Thallium, TCLP	7440-28-0	E444	4.4 mg/L	5 mg/L	88.9	50.0	140	----
		Uranium, TCLP	7440-61-1	E444	4.60 mg/L	5 mg/L	91.9	50.0	150	----
		Vanadium, TCLP	7440-62-2	E444	0.68 mg/L	0.75 mg/L	90.2	50.0	140	----
		Zinc, TCLP	7440-66-6	E444	ND mg/L	----	ND	50.0	140	----
		Zirconium, TCLP	7440-67-7	E444	0.8 mg/L	1 mg/L	77.3	50.0	150	----



Reference Material (RM) Report

A Reference Material (RM) is a homogenous material with known and well-established analyte concentrations. RMs are processed in an identical manner to test samples, and are used to monitor and control the accuracy and precision of a test method for a typical sample matrix. RM results are expressed as percent recovery of the target analyte concentration. RM targets may be certified target concentrations provided by the RM supplier, or may be ALS long-term mean values (for empirical test methods).

Sub-Matrix:

Laboratory sample ID	Reference Material ID	Analyte	CAS Number	Method	Reference Material (RM) Report				
					RM Target Concentration	Recovery (%) RM	Recovery Limits (%)		Qualifier
							Low	High	
Metals (QCLot: 2390022)									
QC-2390022-003	MRCA-21	Mercury	7439-97-6	E510	0.068 mg/kg	91.7	70.0	130	----
Metals (QCLot: 2390023)									
QC-2390023-003	MRCA-21	Aluminum	7429-90-5	E440	22500 mg/kg	112	70.0	130	----
QC-2390023-003	MRCA-21	Antimony	7440-36-0	E440	24.8 mg/kg	109	70.0	130	----
QC-2390023-003	MRCA-21	Arsenic	7440-38-2	E440	21.2 mg/kg	98.1	70.0	130	----
QC-2390023-003	MRCA-21	Barium	7440-39-3	E440	788 mg/kg	98.5	70.0	130	----
QC-2390023-003	MRCA-21	Beryllium	7440-41-7	E440	1.82 mg/kg	105	70.0	130	----
QC-2390023-003	MRCA-21	Bismuth	7440-69-9	E440	1.78 mg/kg	100	70.0	130	----
QC-2390023-003	MRCA-21	Cadmium	7440-43-9	E440	2.15 mg/kg	105	70.0	130	----
QC-2390023-003	MRCA-21	Calcium	7440-70-2	E440	4900 mg/kg	104	70.0	130	----
QC-2390023-003	MRCA-21	Chromium	7440-47-3	E440	56.9 mg/kg	99.6	70.0	130	----
QC-2390023-003	MRCA-21	Cobalt	7440-48-4	E440	32 mg/kg	101	70.0	130	----
QC-2390023-003	MRCA-21	Copper	7440-50-8	E440	969 mg/kg	100	70.0	130	----
QC-2390023-003	MRCA-21	Iron	7439-89-6	E440	32700 mg/kg	106	70.0	130	----
QC-2390023-003	MRCA-21	Lead	7439-92-1	E440	919 mg/kg	97.2	70.0	130	----
QC-2390023-003	MRCA-21	Lithium	7439-93-2	E440	47.3 mg/kg	110	70.0	130	----
QC-2390023-003	MRCA-21	Magnesium	7439-95-4	E440	7780 mg/kg	106	70.0	130	----
QC-2390023-003	MRCA-21	Manganese	7439-96-5	E440	8640 mg/kg	101	70.0	130	----
QC-2390023-003	MRCA-21	Molybdenum	7439-98-7	E440	25.1 mg/kg	104	70.0	130	----
QC-2390023-003	MRCA-21	Nickel	7440-02-0	E440	1000 mg/kg	102	70.0	130	----
QC-2390023-003	MRCA-21	Phosphorus	7723-14-0	E440	660 mg/kg	103	70.0	130	----
QC-2390023-003	MRCA-21	Potassium	7440-09-7	E440	10800 mg/kg	106	70.0	130	----
QC-2390023-003	MRCA-21	Selenium	7782-49-2	E440	1.04 mg/kg	105	60.0	140	----
QC-2390023-003	MRCA-21	Silver	7440-22-4	E440	8.98 mg/kg	99.1	70.0	130	----
QC-2390023-003	MRCA-21	Sodium	7440-23-5	E440	1770 mg/kg	108	70.0	130	----
QC-2390023-003	MRCA-21	Strontium	7440-24-6	E440	41 mg/kg	104	70.0	130	----
QC-2390023-003	MRCA-21	Sulfur	7704-34-9	E440	3940 mg/kg	89.1	50.0	150	----
QC-2390023-003	MRCA-21	Thallium	7440-28-0	E440	0.907 mg/kg	99.5	70.0	130	----
QC-2390023-003	MRCA-21	Tin	7440-31-5	E440	3.79 mg/kg	102	40.0	160	----
QC-2390023-003	MRCA-21	Titanium	7440-32-6	E440	2790 mg/kg	111	70.0	130	----
QC-2390023-003	MRCA-21	Tungsten	7440-33-7	E440	6.99 mg/kg	116	70.0	130	----
QC-2390023-003	MRCA-21	Uranium	7440-61-1	E440	3.97 mg/kg	103	70.0	130	----
QC-2390023-003	MRCA-21	Vanadium	7440-62-2	E440	66.2 mg/kg	103	70.0	130	----

Page : 14 of 14
 Work Order : VA25D3523
 Client : Veolia Environmental Services Canada
 Project : Veolia Weekly Bottom Ash-Suite



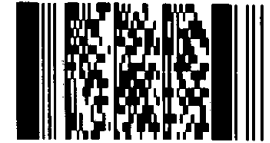
Sub-Matrix:

Laboratory sample ID	Reference Material ID	Analyte	CAS Number	Method	Reference Material (RM) Report				
					RM Target Concentration	Recovery (%) RM	Recovery Limits (%)		Qualifier
							Low	High	
Metals (QCLot: 2390023) - continued									
QC-2390023-003	MRCA-21	Zinc	7440-66-6	E440	828 mg/kg	99.5	70.0	130	----
QC-2390023-003	MRCA-21	Zirconium	7440-67-7	E440	6.91 mg/kg	101	70.0	130	----



Report To	Report Format / Distribution	Service Requested (Rush for routine analysis subject to availability)
Company: Veolia Canada / Burnaby Waste To Energy Facility	"Veolia Email Distribution List" please	
Contact: Brian Graham / Darcie Grace		
Address: 5150 Riverbend Drive.	Email 1: Darcie.grace@veolia.com	
Burnaby BC	Email 2: lorenzo.ilao@veolia.com	
Phone: 604-521-1025 Fax:	Email 3: karen.thornquist@veolia.com	Analysis
	brent.kirkpatrick@metrovancover.org	
	Sarah.Wellman@metrovancover.org	

Environmental Division
 Vancouver
 Work Order Reference
VA25D3523



Telephone: +1 604 253 4188

Invoice To Same as Report? Veolia Water Canada	Client / Project Information	Please indicate below Filtered.											
Hardcopy of Invoice with Report?	Job #: Veolia Weekly Bottom Ash - Suite												
Company: Veolia Water Canada / Burnaby Waste To Energy	PO / AFE: PO#												
Contact: Danny George, Purchaser/Darcie Grace, SHE Manager	LSD: (includes 2:1 pH)												
Address: 5150 Riverbend Drive, Burnaby BC V3N 4V3													
Phone: 604 521 1025 Fax:	Quote #:												

Lab Work Order # (lab use only)		ALS Contact:	Sampler:		MET-TCLP-VA (all metals, Hg)	MOISTURE	Chrome 6	MET-CSR+FULL-VA (all metals)						Number of Containers
Sample #	Sample Identification (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type										
BA 2550-A-1		15/12/2025	12:00	Soil	X	X		X						1
BA 2550-A-2		15/12/2025	12:00	Soil	X	X		X						1
BA 2550-A-3		15/12/2025	12:00	Soil	X	X		X						1
BA 2550-A-4		15/12/2025	12:00	Soil	X	X		X						1
BA 2550-A-5		15/12/2025	12:00	Soil	X	X		X						1
BA 2550-A-6		15/12/2025	12:00	Soil	X	X		X						1
BA 2550-A-7		15/12/2025	12:00	Soil	X	X		X						1
BA 2550-A-8		15/12/2025	12:00	Soil	X	X		X						1
BA 2550-A-9		15/12/2025	12:00	Soil	X	X		X						1
BA 2550-A-10		15/12/2025	12:00	Soil	X	X		X						1
BA 2550-A-11		15/12/2025	12:00	Soil	X	X		X						1
BA 2550-A-12		15/12/2025	12:00	Soil	X	X		X						1

Water Aquatic	
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Time may delay analyses with the Termination numbers and	
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Milopa 18

SHIPMENT RECEPTION (lab use only)				SHIPMENT VERIFICATION (lab use only)						
Released by: <i>[Signature]</i>	Date (dd-mmm-yy): 15/12/25	Time (hh:mm): 08:30	Received by:	Date:	Time:	Temperature: °C	Verified by: <i>HP</i>	Date: 12/15/25	Time: 12:30 PM	Observations: Yes / No? If Yes add SIF

EMS OPERATIONAL PROCEDURE No. BA2

Bottom Ash Sampling

Bottom Ash Worksheet

Date sample composited (DD/MM/YYYY)	13/12/2023
Person doing the sampling	V. Pascual
Total Sample Weight before processing, kg	136.5 lbs
Weight of Material >3/8", kg	30 kg LBS
Weight of Material that cannot be processed to <3/8" (metal, wood, etc), kg	27.4 LBS
Final Total weight of Processed Bottom Ash, kg	109.1 lbs

Return this form with the filled Weekly Bottom Ash Composite Sample containers

Fill twelve bags with approximately 2000g of mixed bottom ash and label each with "Bottom Ash" and the week the ash composite is from, i.e. "June 9-15, 2019"