metrovancouver

Bottom Ash Data

2025 Week 32

The following analytical report represents bottom ash composite results for week 32 of 2025 (August 3, 2025 to August 9, 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	:	**VA25B9927**			
Client	:	**Veolia Environmental Services Canada**	Laboratory	:	ALS Environmental - Vancouver
Contact	:	Brian Graham	Account Manager	:	Gulraj Dhanaua
Address	:	5150 Riverbend Dr. Burnaby British Columbia Canada V3N 4V3	Address	:	8081 Lougheed Highway 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	:	11-Aug-2025 12:00
C-O-C number	:	----	Date Analysis Commenced	:	14-Aug-2025
Sampler	:	----	Issue Date	:	18-Aug-2025 20:36
Site	:	----			
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.

Signatories	*Position*	*Laboratory Department*
Janice Leung		Organics, Burnaby, British Columbia
Robert Nguyen		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).

Unit	*Description*
%	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)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BA 2532-A-1 ----	BA 2532-A-2 ----	BA 2532-A-3 ----	BA 2532-A-4 ----	BA 2532-A-5 ----
					Client sampling date / time	06-Aug-2025 09:00	06-Aug-2025 09:00	06-Aug-2025 09:00	06-Aug-2025 09:00	06-Aug-2025 09:00
						VA25B9927-001	VA25B9927-002	VA25B9927-003	VA25B9927-004	VA25B9927-005
						Result	Result	Result	Result	Result
Physical Tests										
Moisture	----	E144/VA	0.25	%		20.2	20.7	20.2	18.8	19.9
pH (1:2 soil:water)	----	E108/VA	0.10	pH units		10.79	10.77	10.70	10.64	10.80
Metals										
Aluminum	7429-90-5	E440/VA	50	mg/kg		30800	39200	45500	28900	30400
Antimony	7440-36-0	E440/VA	0.10	mg/kg		81.4	106	75.2	98.9	86.3
Arsenic	7440-38-2	E440/VA	0.10	mg/kg		25.4	27.4	19.7	24.9	23.5
Barium	7440-39-3	E440/VA	0.50	mg/kg		593	541	512	439	422
Beryllium	7440-41-7	E440/VA	0.10	mg/kg		0.36	0.38	0.38	0.33	0.34
Bismuth	7440-69-9	E440/VA	0.20	mg/kg		4.92	6.86	4.68	6.41	9.37
Boron	7440-42-8	E440/VA	5.0	mg/kg		213	199	172	191	187
Cadmium	7440-43-9	E440/VA	0.020	mg/kg		5.87	10.4	6.26	8.53	7.74
Calcium	7440-70-2	E440/VA	50	mg/kg		114000	134000	118000	123000	121000
Chromium	7440-47-3	E440/VA	0.50	mg/kg		200	208	164	183	287
Cobalt	7440-48-4	E440/VA	0.10	mg/kg		64.4	49.6	45.5	25.8	118
Copper	7440-50-8	E440/VA	0.50	mg/kg		5720	1800	1820	1720	1770
Iron	7439-89-6	E440/VA	50	mg/kg		58400	69400	40800	64800	46700
Lead	7439-92-1	E440/VA	0.50	mg/kg		183	256	232	1230	237
Lithium	7439-93-2	E440/VA	2.0	mg/kg		21.4	35.2	25.4	24.1	26.3
Magnesium	7439-95-4	E440/VA	20	mg/kg		11700	11800	12200	11100	11100
Manganese	7439-96-5	E440/VA	1.0	mg/kg		808	932	735	920	1080
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)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID: BA 2532-A-1 ----	BA 2532-A-2 ----	BA 2532-A-3 ----	BA 2532-A-4 ----	BA 2532-A-5 ----
					Client sampling date / time: 06-Aug-2025 09:00	06-Aug-2025 09:00	06-Aug-2025 09:00	06-Aug-2025 09:00	06-Aug-2025 09:00
					VA25B9927-001	VA25B9927-002	VA25B9927-003	VA25B9927-004	VA25B9927-005
					Result	Result	Result	Result	Result
Metals									
Molybdenum	7439-98-7	E440/VA	0.10	mg/kg	15.2	16.3	12.5	17.3	18.0
Nickel	7440-02-0	E440/VA	0.50	mg/kg	222	172	119	107	256
Phosphorus	7723-14-0	E440/VA	50	mg/kg	8510	9430	8680	8160	8200
Potassium	7440-09-7	E440/VA	100	mg/kg	5260	5760	5010	5700	5740
Selenium	7782-49-2	E440/VA	0.20	mg/kg	0.41	0.45	0.35	0.38	0.43
Silver	7440-22-4	E440/VA	0.10	mg/kg	5.77	4.55	2.60	3.83	3.68
Sodium	7440-23-5	E440/VA	50	mg/kg	14400	15300	15000	14200	14700
Strontium	7440-24-6	E440/VA	0.50	mg/kg	366	618	279	287	294
Sulfur	7704-34-9	E440/VA	1000	mg/kg	10300	12600	10400	11900	12200
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	105	139	71.6	96.5	197
Titanium	7440-32-6	E440/VA	1.0	mg/kg	289	505	380	271	216
Tungsten	7440-33-7	E440/VA	0.50	mg/kg	8.47	8.69	11.7	15.0	8.67
Uranium	7440-61-1	E440/VA	0.050	mg/kg	1.37	1.66	1.41	1.53	1.47
Vanadium	7440-62-2	E440/VA	0.20	mg/kg	226	50.1	41.7	39.5	65.9
Zinc	7440-66-6	E440/VA	2.0	mg/kg	3680	4180	2330	3330	5330
Zirconium	7440-67-7	E440/VA	1.0	mg/kg	1.4	1.5	2.2	1.9	1.8
TCLP Metals									
pH, TCLP 1st preliminary	----	EPP444/VA	0.010	pH units	11.65	11.67	11.61	11.62	11.65
pH, TCLP 2nd preliminary	----	EPP444/VA	0.010	pH units	3.30	3.37	3.37	3.98	3.72
pH, TCLP extraction fluid initial	----	EPP444/VA	0.010	pH units	4.94	4.94	4.94	4.94	4.94

Analytical Results

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

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BA 2532-A-1 ----	BA 2532-A-2 ----	BA 2532-A-3 ----	BA 2532-A-4 ----	BA 2532-A-5 ----
					Client sampling date / time	06-Aug-2025 09:00	06-Aug-2025 09:00	06-Aug-2025 09:00	06-Aug-2025 09:00	06-Aug-2025 09:00
						VA25B9927-001	VA25B9927-002	VA25B9927-003	VA25B9927-004	VA25B9927-005
						Result	Result	Result	Result	Result
TCLP Metals										
pH, TCLP final	----	EPP444/VA	0.010	pH units		10.04	10.58	10.64	10.58	10.55
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		0.97	1.02	0.91	1.07	1.07
Cadmium, TCLP	7440-43-9	E444/VA	0.050	mg/L		<0.050	<0.050	<0.050	<0.050	<0.050
Calcium, TCLP	7440-70-2	E444/VA	10	mg/L		888	901	835	947	948
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	<0.050	<0.050	<0.050
Copper, TCLP	7440-50-8	E444/VA	0.050	mg/L		0.632	0.620	0.694	0.648	0.630
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		4.0	3.6	<2.5	4.6	4.6
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	<0.25	<0.25	<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

Analytical Results

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

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BA 2532-A-1 ----	BA 2532-A-2 ----	BA 2532-A-3 ----	BA 2532-A-4 ----	BA 2532-A-5 ----
					Client sampling date / time	06-Aug-2025 09:00	06-Aug-2025 09:00	06-Aug-2025 09:00	06-Aug-2025 09:00	06-Aug-2025 09:00
						VA25B9927-001	VA25B9927-002	VA25B9927-003	VA25B9927-004	VA25B9927-005
						Result	Result	Result	Result	Result
TCLP Metals										
Zinc, TCLP	7440-66-6	E444/VA	0.50	mg/L		<0.50	<0.50	<0.50	<0.50	<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

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

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BA 2532-A-6 ----	BA 2532-A-7 ----	BA 2532-A-8 ----	BA 2532-A-9 ----	BA 2532-A-10 ----
					Client sampling date / time	06-Aug-2025 09:00	06-Aug-2025 09:00	06-Aug-2025 09:00	06-Aug-2025 09:00	06-Aug-2025 09:00
						VA25B9927-006	VA25B9927-007	VA25B9927-008	VA25B9927-009	VA25B9927-010
						Result	Result	Result	Result	Result
Physical Tests										
Moisture	----	E144/VA	0.25	%		18.7	19.6	20.4	20.3	21.6
pH (1:2 soil:water)	----	E108/VA	0.10	pH units		10.80	10.70	10.69	10.85	11.03
Metals										
Aluminum	7429-90-5	E440/VA	50	mg/kg		32300	47300	31800	34400	43000
Antimony	7440-36-0	E440/VA	0.10	mg/kg		109	80.0	94.3	86.7	142
Arsenic	7440-38-2	E440/VA	0.10	mg/kg		27.8	21.8	25.8	22.7	30.7
Barium	7440-39-3	E440/VA	0.50	mg/kg		465	495	566	550	485
Beryllium	7440-41-7	E440/VA	0.10	mg/kg		0.41	0.34	0.42	0.43	0.36
Bismuth	7440-69-9	E440/VA	0.20	mg/kg		5.87	11.0	6.42	9.65	5.63
Boron	7440-42-8	E440/VA	5.0	mg/kg		182	193	245	197	232
Cadmium	7440-43-9	E440/VA	0.020	mg/kg		7.99	6.44	7.66	8.72	9.13
Calcium	7440-70-2	E440/VA	50	mg/kg		127000	110000	129000	125000	120000

Analytical Results

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

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BA 2532-A-6 ----	BA 2532-A-7 ----	BA 2532-A-8 ----	BA 2532-A-9 ----	BA 2532-A-10 ----
					Client sampling date / time	06-Aug-2025 09:00	06-Aug-2025 09:00	06-Aug-2025 09:00	06-Aug-2025 09:00	06-Aug-2025 09:00
						VA25B9927-006	VA25B9927-007	VA25B9927-008	VA25B9927-009	VA25B9927-010
						Result	Result	Result	Result	Result
Metals										
Chromium	7440-47-3	E440/VA	0.50	mg/kg		186	146	205	160	203
Cobalt	7440-48-4	E440/VA	0.10	mg/kg		765	46.0	34.8	40.3	47.4
Copper	7440-50-8	E440/VA	0.50	mg/kg		14300	9920	2190	2790	2630
Iron	7439-89-6	E440/VA	50	mg/kg		66400	51000	70400	53700	42400
Lead	7439-92-1	E440/VA	0.50	mg/kg		235	400	234	208	285
Lithium	7439-93-2	E440/VA	2.0	mg/kg		48.5	27.3	28.2	23.6	25.1
Magnesium	7439-95-4	E440/VA	20	mg/kg		12000	10100	12400	12000	10500
Manganese	7439-96-5	E440/VA	1.0	mg/kg		717	1010	921	796	737
Mercury	7439-97-6	E510/VA	0.0500	mg/kg		<0.0500	<0.0500	<0.0500	<0.0500	<0.0500
Molybdenum	7439-98-7	E440/VA	0.10	mg/kg		16.4	14.2	29.7	15.4	17.6
Nickel	7440-02-0	E440/VA	0.50	mg/kg		152	216	154	116	462
Phosphorus	7723-14-0	E440/VA	50	mg/kg		9120	9110	8230	7220	8490
Potassium	7440-09-7	E440/VA	100	mg/kg		5300	5360	6080	5140	5390
Selenium	7782-49-2	E440/VA	0.20	mg/kg		0.47	0.41	0.52	0.34	0.37
Silver	7440-22-4	E440.Ag/VA	0.10	mg/kg		----	2.51	----	----	----
Silver	7440-22-4	E440/VA	0.10	mg/kg		3.25	----	6.76	5.28	4.48
Sodium	7440-23-5	E440/VA	50	mg/kg		14300	14700	15900	15000	14600
Strontium	7440-24-6	E440/VA	0.50	mg/kg		300	267	300	319	289
Sulfur	7704-34-9	E440/VA	1000	mg/kg		12200	11200	12700	10900	12700
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		92.4	665	133	86.1	303

Analytical Results

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

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BA 2532-A-6 ----	BA 2532-A-7 ----	BA 2532-A-8 ----	BA 2532-A-9 ----	BA 2532-A-10 ----
					Client sampling date / time	06-Aug-2025 09:00	06-Aug-2025 09:00	06-Aug-2025 09:00	06-Aug-2025 09:00	06-Aug-2025 09:00
						VA25B9927-006	VA25B9927-007	VA25B9927-008	VA25B9927-009	VA25B9927-010
						Result	Result	Result	Result	Result
Metals										
Titanium	7440-32-6	E440/VA	1.0	mg/kg		350	425	297	314	330
Tungsten	7440-33-7	E440/VA	0.50	mg/kg		8.55	195	17.3	11.5	7.29
Uranium	7440-61-1	E440/VA	0.050	mg/kg		1.53	1.39	1.66	1.42	1.49
Vanadium	7440-62-2	E440/VA	0.20	mg/kg		45.1	34.4	56.7	44.7	39.1
Zinc	7440-66-6	E440/VA	2.0	mg/kg		2930	3300	13800	2950	2470
Zirconium	7440-67-7	E440/VA	1.0	mg/kg		1.4	2.3	1.5	1.4	2.6
TCLP Metals										
pH, TCLP 1st preliminary	----	EPP444/VA	0.010	pH units		11.72	11.71	11.62	11.61	11.70
pH, TCLP 2nd preliminary	----	EPP444/VA	0.010	pH units		4.93	3.61	2.67	2.80	3.28
pH, TCLP extraction fluid initial	----	EPP444/VA	0.010	pH units		4.94	4.94	4.94	4.94	4.94
pH, TCLP final	----	EPP444/VA	0.010	pH units		10.71	10.46	10.64	10.43	10.65
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		0.90	1.08	0.93	1.10	0.98
Cadmium, TCLP	7440-43-9	E444/VA	0.050	mg/L		<0.050	<0.050	<0.050	<0.050	<0.050
Calcium, TCLP	7440-70-2	E444/VA	10	mg/L		849	908	828	969	918
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	<0.050	<0.050	<0.050
Copper, TCLP	7440-50-8	E444/VA	0.050	mg/L		0.638	0.606	0.665	0.633	0.672

Analytical Results

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

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BA 2532-A-6 ----	BA 2532-A-7 ----	BA 2532-A-8 ----	BA 2532-A-9 ----	BA 2532-A-10 ----
					Client sampling date / time	06-Aug-2025 09:00	06-Aug-2025 09:00	06-Aug-2025 09:00	06-Aug-2025 09:00	06-Aug-2025 09:00
						VA25B9927-006	VA25B9927-007	VA25B9927-008	VA25B9927-009	VA25B9927-010
						Result	Result	Result	Result	Result
TCLP Metals										
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	4.9	<2.5	5.3	<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		<0.25	<0.25	<0.25	<0.25	<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		<0.50	<0.50	<0.50	<0.50	<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

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

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BA 2532-A-11 ----	BA 2532-A-12 ----	----	----	----
					Client sampling date / time	06-Aug-2025 09:00	06-Aug-2025 09:00	----	----	----
						VA25B9927-011	VA25B9927-012	----	----	----
						Result	Result	----	----	----
Physical Tests										
Moisture	----	E144/VA	0.25	%		20.2	19.5	----	----	----
pH (1:2 soil:water)	----	E108/VA	0.10	pH units		11.11	10.63	----	----	----

Analytical Results

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

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BA 2532-A-11 ----	BA 2532-A-12 ----	----	----	----
					Client sampling date / time	06-Aug-2025 09:00	06-Aug-2025 09:00	----	----	----
						VA25B9927-011	VA25B9927-012	----	----	----
						Result	Result	----	----	----
Metals										
Aluminum	7429-90-5	E440/VA	50	mg/kg		30400	37300	----	----	----
Antimony	7440-36-0	E440/VA	0.10	mg/kg		113	89.0	----	----	----
Arsenic	7440-38-2	E440/VA	0.10	mg/kg		25.6	24.0	----	----	----
Barium	7440-39-3	E440/VA	0.50	mg/kg		524	549	----	----	----
Beryllium	7440-41-7	E440/VA	0.10	mg/kg		0.41	0.68	----	----	----
Bismuth	7440-69-9	E440/VA	0.20	mg/kg		5.15	9.98	----	----	----
Boron	7440-42-8	E440/VA	5.0	mg/kg		203	182	----	----	----
Cadmium	7440-43-9	E440/VA	0.020	mg/kg		7.28	6.90	----	----	----
Calcium	7440-70-2	E440/VA	50	mg/kg		126000	115000	----	----	----
Chromium	7440-47-3	E440/VA	0.50	mg/kg		224	148	----	----	----
Cobalt	7440-48-4	E440/VA	0.10	mg/kg		81.9	120	----	----	----
Copper	7440-50-8	E440/VA	0.50	mg/kg		4000	2570	----	----	----
Iron	7439-89-6	E440/VA	50	mg/kg		61600	61700	----	----	----
Lead	7439-92-1	E440/VA	0.50	mg/kg		705	218	----	----	----
Lithium	7439-93-2	E440/VA	2.0	mg/kg		93.4	24.4	----	----	----
Magnesium	7439-95-4	E440/VA	20	mg/kg		10400	11500	----	----	----
Manganese	7439-96-5	E440/VA	1.0	mg/kg		686	853	----	----	----
Mercury	7439-97-6	E510/VA	0.0500	mg/kg		<0.0500	<0.0500	----	----	----
Molybdenum	7439-98-7	E440/VA	0.10	mg/kg		14.7	16.8	----	----	----
Nickel	7440-02-0	E440/VA	0.50	mg/kg		178	1290	----	----	----
Phosphorus	7723-14-0	E440/VA	50	mg/kg		8840	7980	----	----	----

Analytical Results

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

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BA 2532-A-11 ----	BA 2532-A-12 ----	----	----	----
					Client sampling date / time	06-Aug-2025 09:00	06-Aug-2025 09:00	----	----	----
						VA25B9927-011	VA25B9927-012	----	----	----
						Result	Result	----	----	----
Metals										
Potassium	7440-09-7	E440/VA	100	mg/kg		5060	5430	----	----	----
Selenium	7782-49-2	E440/VA	0.20	mg/kg		0.36	0.40	----	----	----
Silver	7440-22-4	E440/VA	0.10	mg/kg		3.84	3.12	----	----	----
Sodium	7440-23-5	E440/VA	50	mg/kg		14200	15600	----	----	----
Strontium	7440-24-6	E440/VA	0.50	mg/kg		287	284	----	----	----
Sulfur	7704-34-9	E440/VA	1000	mg/kg		11200	10600	----	----	----
Thallium	7440-28-0	E440/VA	0.050	mg/kg		<0.050	<0.050	----	----	----
Tin	7440-31-5	E440/VA	2.0	mg/kg		1020	91.6	----	----	----
Titanium	7440-32-6	E440/VA	1.0	mg/kg		367	555	----	----	----
Tungsten	7440-33-7	E440/VA	0.50	mg/kg		6.82	7.14	----	----	----
Uranium	7440-61-1	E440/VA	0.050	mg/kg		1.48	1.39	----	----	----
Vanadium	7440-62-2	E440/VA	0.20	mg/kg		51.6	50.5	----	----	----
Zinc	7440-66-6	E440/VA	2.0	mg/kg		4170	7450	----	----	----
Zirconium	7440-67-7	E440/VA	1.0	mg/kg		1.3	1.4	----	----	----
TCLP Metals										
pH, TCLP 1st preliminary	----	EPP444/VA	0.010	pH units		11.72	11.62	----	----	----
pH, TCLP 2nd preliminary	----	EPP444/VA	0.010	pH units		3.50	2.90	----	----	----
pH, TCLP extraction fluid initial	----	EPP444/VA	0.010	pH units		4.94	4.94	----	----	----
pH, TCLP final	----	EPP444/VA	0.010	pH units		10.79	10.64	----	----	----
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)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BA 2532-A-11 ----	BA 2532-A-12 ----	----	----	----
					Client sampling date / time	06-Aug-2025 09:00	06-Aug-2025 09:00	----	----	----
						VA25B9927-011	VA25B9927-012	----	----	----
						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		0.87	0.91	----	----	----
Cadmium, TCLP	7440-43-9	E444/VA	0.050	mg/L		<0.050	<0.050	----	----	----
Calcium, TCLP	7440-70-2	E444/VA	10	mg/L		824	817	----	----	----
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		<0.050	<0.050	----	----	----
Copper, TCLP	7440-50-8	E444/VA	0.050	mg/L		0.686	0.660	----	----	----
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		<2.5	<2.5	----	----	----
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		<0.25	<0.25	----	----	----
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		<0.50	<0.50	----	----	----
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	: **VA25B9927**	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	: 11-Aug-2025 12:00
PO	: 1000497676	Date Analysis Commenced	: 14-Aug-2025
C-O-C number	: ----	Issue Date	: 18-Aug-2025 20:35
Sampler	: ----		
Site	:		
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.

Signatories	*Position*	*Laboratory Department*
Janice Leung	Supervisor - Organics Instrumentation	Organics, Burnaby, British Columbia
Robert Nguyen	Analyst	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).
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.

Unit	*Description*
%	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

VA25B9927-001

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

Client sample ID: BA 2532-A-1
Client sampling date / time: 06-Aug-2025 09:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests								
Moisture	----	20.2	0.25	%	E144/VA	-	14-Aug-2025	2161792
pH (1:2 soil:water)	----	10.79	0.10	pH units	E108/VA	16-Aug-2025	16-Aug-2025	2161791
Metals								
Aluminum	7429-90-5	30800	50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Antimony	7440-36-0	81.4	0.10	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Arsenic	7440-38-2	25.4	0.10	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Barium	7440-39-3	593	0.50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Beryllium	7440-41-7	0.36	0.10	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Bismuth	7440-69-9	4.92	0.20	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Boron	7440-42-8	213	5.0	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Cadmium	7440-43-9	5.87	0.020	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Calcium	7440-70-2	114000	50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Chromium	7440-47-3	200	0.50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Cobalt	7440-48-4	64.4	0.10	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Copper	7440-50-8	5720	0.50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Iron	7439-89-6	58400	50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Lead	7439-92-1	183	0.50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Lithium	7439-93-2	21.4	2.0	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Magnesium	7439-95-4	11700	20	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Manganese	7439-96-5	808	1.0	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Mercury	7439-97-6	<0.0500	0.0500	mg/kg	E510/VA	16-Aug-2025	16-Aug-2025	2161789
Molybdenum	7439-98-7	15.2	0.10	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Nickel	7440-02-0	222	0.50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Phosphorus	7723-14-0	8510	50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Potassium	7440-09-7	5260	100	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Selenium	7782-49-2	0.41	0.20	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Silver	7440-22-4	5.77	0.10	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Sodium	7440-23-5	14400	50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Strontium	7440-24-6	366	0.50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Sulfur	7704-34-9	10300	1000	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Thallium	7440-28-0	<0.050	0.050	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Tin	7440-31-5	105	2.0	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Titanium	7440-32-6	289	1.0	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Tungsten	7440-33-7	8.47	0.50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Uranium	7440-61-1	1.37	0.050	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Vanadium	7440-62-2	226	0.20	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Zinc	7440-66-6	3680	2.0	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Zirconium	7440-67-7	1.4	1.0	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
TCLP Metals								
pH, TCLP 1st preliminary	----	11.65	0.010	pH units	EPP444/VA	-	16-Aug-2025	-
pH, TCLP 2nd preliminary	----	3.30	0.010	pH units	EPP444/VA	-	16-Aug-2025	-
pH, TCLP extraction fluid initial	----	4.94	0.010	pH units	EPP444/VA	-	16-Aug-2025	-
pH, TCLP final	----	10.04	0.010	pH units	EPP444/VA	-	16-Aug-2025	-
Antimony, TCLP	7440-36-0	<1.00	1.00	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Arsenic, TCLP	7440-38-2	<1.0	1.0	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450

Analytical Results

VA25B9927-001

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

Client sample ID: BA 2532-A-1
Client sampling date / time: 06-Aug-2025 09:00

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	18-Aug-2025	18-Aug-2025	2166450
Beryllium, TCLP	7440-41-7	<0.025	0.025	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Boron, TCLP	7440-42-8	0.97	0.50	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Cadmium, TCLP	7440-43-9	<0.050	0.050	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Calcium, TCLP	7440-70-2	888	10	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Chromium, TCLP	7440-47-3	<0.25	0.25	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Cobalt, TCLP	7440-48-4	<0.050	0.050	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Copper, TCLP	7440-50-8	0.632	0.050	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Iron, TCLP	7439-89-6	<5.0	5.0	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Lead, TCLP	7439-92-1	<0.25	0.25	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Magnesium, TCLP	7439-95-4	4.0	2.5	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Mercury, TCLP	7439-97-6	<0.0010	0.0010	mg/L	E512/VA	18-Aug-2025	18-Aug-2025	2166449
Nickel, TCLP	7440-02-0	<0.25	0.25	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Selenium, TCLP	7782-49-2	<0.10	0.10	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Silver, TCLP	7440-22-4	<0.050	0.050	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Thallium, TCLP	7440-28-0	<1.0	1.0	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Uranium, TCLP	7440-61-1	<0.20	0.20	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Vanadium, TCLP	7440-62-2	<0.15	0.15	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Zinc, TCLP	7440-66-6	<0.50	0.50	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Zirconium, TCLP	7440-67-7	<10	10	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450

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

Analytical Results

VA25B9927-002

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

Client sample ID: BA 2532-A-2
Client sampling date / time: 06-Aug-2025 09:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests								
Moisture	----	20.7	0.25	%	E144/VA	-	14-Aug-2025	2161792
pH (1:2 soil:water)	----	10.77	0.10	pH units	E108/VA	16-Aug-2025	16-Aug-2025	2161791
Metals								
Aluminum	7429-90-5	39200	50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Antimony	7440-36-0	106	0.10	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Arsenic	7440-38-2	27.4	0.10	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Barium	7440-39-3	541	0.50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Beryllium	7440-41-7	0.38	0.10	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Bismuth	7440-69-9	6.86	0.20	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Boron	7440-42-8	199	5.0	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Cadmium	7440-43-9	10.4	0.020	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Calcium	7440-70-2	134000	50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Chromium	7440-47-3	208	0.50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Cobalt	7440-48-4	49.6	0.10	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Copper	7440-50-8	1800	0.50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790

Analytical Results

VA25B9927-002

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

Client sample ID: BA 2532-A-2
Client sampling date / time: 06-Aug-2025 09:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Metals								
Iron	7439-89-6	69400	50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Lead	7439-92-1	256	0.50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Lithium	7439-93-2	35.2	2.0	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Magnesium	7439-95-4	11800	20	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Manganese	7439-96-5	932	1.0	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Mercury	7439-97-6	<0.0500	0.0500	mg/kg	E510/VA	16-Aug-2025	16-Aug-2025	2161789
Molybdenum	7439-98-7	16.3	0.10	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Nickel	7440-02-0	172	0.50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Phosphorus	7723-14-0	9430	50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Potassium	7440-09-7	5760	100	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Selenium	7782-49-2	0.45	0.20	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Silver	7440-22-4	4.55	0.10	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Sodium	7440-23-5	15300	50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Strontium	7440-24-6	618	0.50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Sulfur	7704-34-9	12600	1000	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Thallium	7440-28-0	<0.050	0.050	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Tin	7440-31-5	139	2.0	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Titanium	7440-32-6	505	1.0	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Tungsten	7440-33-7	8.69	0.50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Uranium	7440-61-1	1.66	0.050	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Vanadium	7440-62-2	50.1	0.20	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Zinc	7440-66-6	4180	2.0	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Zirconium	7440-67-7	1.5	1.0	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
TCLP Metals								
pH, TCLP 1st preliminary	----	11.67	0.010	pH units	EPP444/VA	-	16-Aug-2025	-
pH, TCLP 2nd preliminary	----	3.37	0.010	pH units	EPP444/VA	-	16-Aug-2025	-
pH, TCLP extraction fluid initial	----	4.94	0.010	pH units	EPP444/VA	-	16-Aug-2025	-
pH, TCLP final	----	10.58	0.010	pH units	EPP444/VA	-	16-Aug-2025	-
Antimony, TCLP	7440-36-0	<1.00	1.00	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Arsenic, TCLP	7440-38-2	<1.0	1.0	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Barium, TCLP	7440-39-3	<2.5	2.5	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Beryllium, TCLP	7440-41-7	<0.025	0.025	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Boron, TCLP	7440-42-8	1.02	0.50	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Cadmium, TCLP	7440-43-9	<0.050	0.050	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Calcium, TCLP	7440-70-2	901	10	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Chromium, TCLP	7440-47-3	<0.25	0.25	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Cobalt, TCLP	7440-48-4	<0.050	0.050	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Copper, TCLP	7440-50-8	0.620	0.050	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Iron, TCLP	7439-89-6	<5.0	5.0	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Lead, TCLP	7439-92-1	<0.25	0.25	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Magnesium, TCLP	7439-95-4	3.6	2.5	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Mercury, TCLP	7439-97-6	<0.0010	0.0010	mg/L	E512/VA	18-Aug-2025	18-Aug-2025	2166449
Nickel, TCLP	7440-02-0	<0.25	0.25	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Selenium, TCLP	7782-49-2	<0.10	0.10	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Silver, TCLP	7440-22-4	<0.050	0.050	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450

Analytical Results

VA25B9927-002

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

Client sample ID: BA 2532-A-2
Client sampling date / time: 06-Aug-2025 09:00

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	18-Aug-2025	18-Aug-2025	2166450
Uranium, TCLP	7440-61-1	<0.20	0.20	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Vanadium, TCLP	7440-62-2	<0.15	0.15	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Zinc, TCLP	7440-66-6	<0.50	0.50	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Zirconium, TCLP	7440-67-7	<10	10	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450

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

Analytical Results

VA25B9927-003

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

Client sample ID: BA 2532-A-3
Client sampling date / time: 06-Aug-2025 09:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests								
Moisture	----	20.2	0.25	%	E144/VA	-	14-Aug-2025	2161792
pH (1:2 soil:water)	----	10.70	0.10	pH units	E108/VA	16-Aug-2025	16-Aug-2025	2161791
Metals								
Aluminum	7429-90-5	45500	50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Antimony	7440-36-0	75.2	0.10	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Arsenic	7440-38-2	19.7	0.10	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Barium	7440-39-3	512	0.50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Beryllium	7440-41-7	0.38	0.10	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Bismuth	7440-69-9	4.68	0.20	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Boron	7440-42-8	172	5.0	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Cadmium	7440-43-9	6.26	0.020	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Calcium	7440-70-2	118000	50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Chromium	7440-47-3	164	0.50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Cobalt	7440-48-4	45.5	0.10	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Copper	7440-50-8	1820	0.50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Iron	7439-89-6	40800	50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Lead	7439-92-1	232	0.50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Lithium	7439-93-2	25.4	2.0	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Magnesium	7439-95-4	12200	20	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Manganese	7439-96-5	735	1.0	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Mercury	7439-97-6	<0.0500	0.0500	mg/kg	E510/VA	16-Aug-2025	16-Aug-2025	2161789
Molybdenum	7439-98-7	12.5	0.10	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Nickel	7440-02-0	119	0.50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Phosphorus	7723-14-0	8680	50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Potassium	7440-09-7	5010	100	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Selenium	7782-49-2	0.35	0.20	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Silver	7440-22-4	2.60	0.10	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Sodium	7440-23-5	15000	50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Strontium	7440-24-6	279	0.50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Sulfur	7704-34-9	10400	1000	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790

Analytical Results

VA25B9927-003

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

Client sample ID: BA 2532-A-3
Client sampling date / time: 06-Aug-2025 09:00

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	16-Aug-2025	17-Aug-2025	2161790
Tin	7440-31-5	71.6	2.0	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Titanium	7440-32-6	380	1.0	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Tungsten	7440-33-7	11.7	0.50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Uranium	7440-61-1	1.41	0.050	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Vanadium	7440-62-2	41.7	0.20	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Zinc	7440-66-6	2330	2.0	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Zirconium	7440-67-7	2.2	1.0	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
TCLP Metals								
pH, TCLP 1st preliminary	----	11.61	0.010	pH units	EPP444/VA	-	16-Aug-2025	-
pH, TCLP 2nd preliminary	----	3.37	0.010	pH units	EPP444/VA	-	16-Aug-2025	-
pH, TCLP extraction fluid initial	----	4.94	0.010	pH units	EPP444/VA	-	16-Aug-2025	-
pH, TCLP final	----	10.64	0.010	pH units	EPP444/VA	-	16-Aug-2025	-
Antimony, TCLP	7440-36-0	<1.00	1.00	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Arsenic, TCLP	7440-38-2	<1.0	1.0	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Barium, TCLP	7440-39-3	<2.5	2.5	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Beryllium, TCLP	7440-41-7	<0.025	0.025	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Boron, TCLP	7440-42-8	0.91	0.50	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Cadmium, TCLP	7440-43-9	<0.050	0.050	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Calcium, TCLP	7440-70-2	835	10	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Chromium, TCLP	7440-47-3	<0.25	0.25	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Cobalt, TCLP	7440-48-4	<0.050	0.050	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Copper, TCLP	7440-50-8	0.694	0.050	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Iron, TCLP	7439-89-6	<5.0	5.0	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Lead, TCLP	7439-92-1	<0.25	0.25	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Magnesium, TCLP	7439-95-4	<2.5	2.5	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Mercury, TCLP	7439-97-6	<0.0010	0.0010	mg/L	E512/VA	18-Aug-2025	18-Aug-2025	2166449
Nickel, TCLP	7440-02-0	<0.25	0.25	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Selenium, TCLP	7782-49-2	<0.10	0.10	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Silver, TCLP	7440-22-4	<0.050	0.050	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Thallium, TCLP	7440-28-0	<1.0	1.0	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Uranium, TCLP	7440-61-1	<0.20	0.20	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Vanadium, TCLP	7440-62-2	<0.15	0.15	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Zinc, TCLP	7440-66-6	<0.50	0.50	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Zirconium, TCLP	7440-67-7	<10	10	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450

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

Analytical Results

VA25B9927-004

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

Client sample ID: BA 2532-A-4
Client sampling date / time: 06-Aug-2025 09:00

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

Analytical Results

VA25B9927-004

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

Client sample ID: BA 2532-A-4
Client sampling date / time: 06-Aug-2025 09:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests								
Moisture	----	18.8	0.25	%	E144/VA	-	14-Aug-2025	2161792
pH (1:2 soil:water)	----	10.64	0.10	pH units	E108/VA	16-Aug-2025	16-Aug-2025	2161791
Metals								
Aluminum	7429-90-5	28900	50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Antimony	7440-36-0	98.9	0.10	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Arsenic	7440-38-2	24.9	0.10	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Barium	7440-39-3	439	0.50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Beryllium	7440-41-7	0.33	0.10	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Bismuth	7440-69-9	6.41	0.20	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Boron	7440-42-8	191	5.0	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Cadmium	7440-43-9	8.53	0.020	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Calcium	7440-70-2	123000	50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Chromium	7440-47-3	183	0.50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Cobalt	7440-48-4	25.8	0.10	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Copper	7440-50-8	1720	0.50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Iron	7439-89-6	64800	50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Lead	7439-92-1	1230	0.50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Lithium	7439-93-2	24.1	2.0	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Magnesium	7439-95-4	11100	20	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Manganese	7439-96-5	920	1.0	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Mercury	7439-97-6	<0.0500	0.0500	mg/kg	E510/VA	16-Aug-2025	16-Aug-2025	2161789
Molybdenum	7439-98-7	17.3	0.10	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Nickel	7440-02-0	107	0.50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Phosphorus	7723-14-0	8160	50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Potassium	7440-09-7	5700	100	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Selenium	7782-49-2	0.38	0.20	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Silver	7440-22-4	3.83	0.10	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Sodium	7440-23-5	14200	50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Strontium	7440-24-6	287	0.50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Sulfur	7704-34-9	11900	1000	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Thallium	7440-28-0	<0.050	0.050	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Tin	7440-31-5	96.5	2.0	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Titanium	7440-32-6	271	1.0	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Tungsten	7440-33-7	15.0	0.50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Uranium	7440-61-1	1.53	0.050	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Vanadium	7440-62-2	39.5	0.20	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Zinc	7440-66-6	3330	2.0	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Zirconium	7440-67-7	1.9	1.0	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
TCLP Metals								
pH, TCLP 1st preliminary	----	11.62	0.010	pH units	EPP444/VA	-	16-Aug-2025	-
pH, TCLP 2nd preliminary	----	3.98	0.010	pH units	EPP444/VA	-	16-Aug-2025	-
pH, TCLP extraction fluid initial	----	4.94	0.010	pH units	EPP444/VA	-	16-Aug-2025	-
pH, TCLP final	----	10.58	0.010	pH units	EPP444/VA	-	16-Aug-2025	-
Antimony, TCLP	7440-36-0	<1.00	1.00	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Arsenic, TCLP	7440-38-2	<1.0	1.0	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450

Analytical Results

VA25B9927-004

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

Client sample ID: BA 2532-A-4
Client sampling date / time: 06-Aug-2025 09:00

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	18-Aug-2025	18-Aug-2025	2166450
Beryllium, TCLP	7440-41-7	<0.025	0.025	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Boron, TCLP	7440-42-8	1.07	0.50	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Cadmium, TCLP	7440-43-9	<0.050	0.050	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Calcium, TCLP	7440-70-2	947	10	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Chromium, TCLP	7440-47-3	<0.25	0.25	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Cobalt, TCLP	7440-48-4	<0.050	0.050	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Copper, TCLP	7440-50-8	0.648	0.050	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Iron, TCLP	7439-89-6	<5.0	5.0	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Lead, TCLP	7439-92-1	<0.25	0.25	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Magnesium, TCLP	7439-95-4	4.6	2.5	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Mercury, TCLP	7439-97-6	<0.0010	0.0010	mg/L	E512/VA	18-Aug-2025	18-Aug-2025	2166449
Nickel, TCLP	7440-02-0	<0.25	0.25	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Selenium, TCLP	7782-49-2	<0.10	0.10	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Silver, TCLP	7440-22-4	<0.050	0.050	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Thallium, TCLP	7440-28-0	<1.0	1.0	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Uranium, TCLP	7440-61-1	<0.20	0.20	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Vanadium, TCLP	7440-62-2	<0.15	0.15	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Zinc, TCLP	7440-66-6	<0.50	0.50	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Zirconium, TCLP	7440-67-7	<10	10	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450

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

Analytical Results

VA25B9927-005

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

Client sample ID: BA 2532-A-5
Client sampling date / time: 06-Aug-2025 09:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests								
Moisture	----	19.9	0.25	%	E144/VA	-	14-Aug-2025	2161792
pH (1:2 soil:water)	----	10.80	0.10	pH units	E108/VA	16-Aug-2025	16-Aug-2025	2161791
Metals								
Aluminum	7429-90-5	30400	50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Antimony	7440-36-0	86.3	0.10	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Arsenic	7440-38-2	23.5	0.10	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Barium	7440-39-3	422	0.50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Beryllium	7440-41-7	0.34	0.10	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Bismuth	7440-69-9	9.37	0.20	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Boron	7440-42-8	187	5.0	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Cadmium	7440-43-9	7.74	0.020	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Calcium	7440-70-2	121000	50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Chromium	7440-47-3	287	0.50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Cobalt	7440-48-4	118	0.10	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Copper	7440-50-8	1770	0.50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790

Analytical Results

VA25B9927-005

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

Client sample ID: BA 2532-A-5
Client sampling date / time: 06-Aug-2025 09:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Metals								
Iron	7439-89-6	46700	50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Lead	7439-92-1	237	0.50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Lithium	7439-93-2	26.3	2.0	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Magnesium	7439-95-4	11100	20	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Manganese	7439-96-5	1080	1.0	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Mercury	7439-97-6	<0.0500	0.0500	mg/kg	E510/VA	16-Aug-2025	16-Aug-2025	2161789
Molybdenum	7439-98-7	18.0	0.10	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Nickel	7440-02-0	256	0.50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Phosphorus	7723-14-0	8200	50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Potassium	7440-09-7	5740	100	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Selenium	7782-49-2	0.43	0.20	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Silver	7440-22-4	3.68	0.10	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Sodium	7440-23-5	14700	50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Strontium	7440-24-6	294	0.50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Sulfur	7704-34-9	12200	1000	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Thallium	7440-28-0	<0.050	0.050	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Tin	7440-31-5	197	2.0	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Titanium	7440-32-6	216	1.0	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Tungsten	7440-33-7	8.67	0.50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Uranium	7440-61-1	1.47	0.050	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Vanadium	7440-62-2	65.9	0.20	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Zinc	7440-66-6	5330	2.0	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Zirconium	7440-67-7	1.8	1.0	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
TCLP Metals								
pH, TCLP 1st preliminary	----	11.65	0.010	pH units	EPP444/VA	-	16-Aug-2025	-
pH, TCLP 2nd preliminary	----	3.72	0.010	pH units	EPP444/VA	-	16-Aug-2025	-
pH, TCLP extraction fluid initial	----	4.94	0.010	pH units	EPP444/VA	-	16-Aug-2025	-
pH, TCLP final	----	10.55	0.010	pH units	EPP444/VA	-	16-Aug-2025	-
Antimony, TCLP	7440-36-0	<1.00	1.00	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Arsenic, TCLP	7440-38-2	<1.0	1.0	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Barium, TCLP	7440-39-3	<2.5	2.5	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Beryllium, TCLP	7440-41-7	<0.025	0.025	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Boron, TCLP	7440-42-8	1.07	0.50	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Cadmium, TCLP	7440-43-9	<0.050	0.050	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Calcium, TCLP	7440-70-2	948	10	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Chromium, TCLP	7440-47-3	<0.25	0.25	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Cobalt, TCLP	7440-48-4	<0.050	0.050	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Copper, TCLP	7440-50-8	0.630	0.050	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Iron, TCLP	7439-89-6	<5.0	5.0	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Lead, TCLP	7439-92-1	<0.25	0.25	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Magnesium, TCLP	7439-95-4	4.6	2.5	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Mercury, TCLP	7439-97-6	<0.0010	0.0010	mg/L	E512/VA	18-Aug-2025	18-Aug-2025	2166449
Nickel, TCLP	7440-02-0	<0.25	0.25	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Selenium, TCLP	7782-49-2	<0.10	0.10	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Silver, TCLP	7440-22-4	<0.050	0.050	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450

Analytical Results

VA25B9927-005

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

Client sample ID: BA 2532-A-5
Client sampling date / time: 06-Aug-2025 09:00

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	18-Aug-2025	18-Aug-2025	2166450
Uranium, TCLP	7440-61-1	<0.20	0.20	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Vanadium, TCLP	7440-62-2	<0.15	0.15	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Zinc, TCLP	7440-66-6	<0.50	0.50	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Zirconium, TCLP	7440-67-7	<10	10	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450

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

Analytical Results

VA25B9927-006

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

Client sample ID: BA 2532-A-6
Client sampling date / time: 06-Aug-2025 09:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests								
Moisture	----	18.7	0.25	%	E144/VA	-	14-Aug-2025	2161792
pH (1:2 soil:water)	----	10.80	0.10	pH units	E108/VA	16-Aug-2025	16-Aug-2025	2161791
Metals								
Aluminum	7429-90-5	32300	50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Antimony	7440-36-0	109	0.10	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Arsenic	7440-38-2	27.8	0.10	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Barium	7440-39-3	465	0.50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Beryllium	7440-41-7	0.41	0.10	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Bismuth	7440-69-9	5.87	0.20	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Boron	7440-42-8	182	5.0	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Cadmium	7440-43-9	7.99	0.020	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Calcium	7440-70-2	127000	50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Chromium	7440-47-3	186	0.50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Cobalt	7440-48-4	765	0.10	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Copper	7440-50-8	14300	0.50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Iron	7439-89-6	66400	50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Lead	7439-92-1	235	0.50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Lithium	7439-93-2	48.5	2.0	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Magnesium	7439-95-4	12000	20	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Manganese	7439-96-5	717	1.0	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Mercury	7439-97-6	<0.0500	0.0500	mg/kg	E510/VA	16-Aug-2025	16-Aug-2025	2161789
Molybdenum	7439-98-7	16.4	0.10	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Nickel	7440-02-0	152	0.50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Phosphorus	7723-14-0	9120	50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Potassium	7440-09-7	5300	100	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Selenium	7782-49-2	0.47	0.20	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Silver	7440-22-4	3.25	0.10	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Sodium	7440-23-5	14300	50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Strontium	7440-24-6	300	0.50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Sulfur	7704-34-9	12200	1000	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790

Analytical Results

VA25B9927-006

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

Client sample ID: BA 2532-A-6
Client sampling date / time: 06-Aug-2025 09:00

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	16-Aug-2025	17-Aug-2025	2161790
Tin	7440-31-5	92.4	2.0	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Titanium	7440-32-6	350	1.0	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Tungsten	7440-33-7	8.55	0.50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Uranium	7440-61-1	1.53	0.050	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Vanadium	7440-62-2	45.1	0.20	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Zinc	7440-66-6	2930	2.0	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Zirconium	7440-67-7	1.4	1.0	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
TCLP Metals								
pH, TCLP 1st preliminary	----	11.72	0.010	pH units	EPP444/VA	-	16-Aug-2025	-
pH, TCLP 2nd preliminary	----	4.93	0.010	pH units	EPP444/VA	-	16-Aug-2025	-
pH, TCLP extraction fluid initial	----	4.94	0.010	pH units	EPP444/VA	-	16-Aug-2025	-
pH, TCLP final	----	10.71	0.010	pH units	EPP444/VA	-	16-Aug-2025	-
Antimony, TCLP	7440-36-0	<1.00	1.00	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Arsenic, TCLP	7440-38-2	<1.0	1.0	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Barium, TCLP	7440-39-3	<2.5	2.5	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Beryllium, TCLP	7440-41-7	<0.025	0.025	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Boron, TCLP	7440-42-8	0.90	0.50	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Cadmium, TCLP	7440-43-9	<0.050	0.050	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Calcium, TCLP	7440-70-2	849	10	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Chromium, TCLP	7440-47-3	<0.25	0.25	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Cobalt, TCLP	7440-48-4	<0.050	0.050	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Copper, TCLP	7440-50-8	0.638	0.050	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Iron, TCLP	7439-89-6	<5.0	5.0	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Lead, TCLP	7439-92-1	<0.25	0.25	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Magnesium, TCLP	7439-95-4	<2.5	2.5	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Mercury, TCLP	7439-97-6	<0.0010	0.0010	mg/L	E512/VA	18-Aug-2025	18-Aug-2025	2166449
Nickel, TCLP	7440-02-0	<0.25	0.25	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Selenium, TCLP	7782-49-2	<0.10	0.10	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Silver, TCLP	7440-22-4	<0.050	0.050	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Thallium, TCLP	7440-28-0	<1.0	1.0	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Uranium, TCLP	7440-61-1	<0.20	0.20	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Vanadium, TCLP	7440-62-2	<0.15	0.15	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Zinc, TCLP	7440-66-6	<0.50	0.50	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Zirconium, TCLP	7440-67-7	<10	10	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450

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

Analytical Results

VA25B9927-007

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

Client sample ID: BA 2532-A-7
Client sampling date / time: 06-Aug-2025 09:00

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

Analytical Results

VA25B9927-007

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

Client sample ID: BA 2532-A-7
Client sampling date / time: 06-Aug-2025 09:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests								
Moisture	----	19.6	0.25	%	E144/VA	-	14-Aug-2025	2161792
pH (1:2 soil:water)	----	10.70	0.10	pH units	E108/VA	16-Aug-2025	16-Aug-2025	2161791
Metals								
Aluminum	7429-90-5	47300	50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Antimony	7440-36-0	80.0	0.10	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Arsenic	7440-38-2	21.8	0.10	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Barium	7440-39-3	495	0.50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Beryllium	7440-41-7	0.34	0.10	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Bismuth	7440-69-9	11.0	0.20	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Boron	7440-42-8	193	5.0	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Cadmium	7440-43-9	6.44	0.020	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Calcium	7440-70-2	110000	50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Chromium	7440-47-3	146	0.50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Cobalt	7440-48-4	46.0	0.10	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Copper	7440-50-8	9920	0.50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Iron	7439-89-6	51000	50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Lead	7439-92-1	400	0.50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Lithium	7439-93-2	27.3	2.0	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Magnesium	7439-95-4	10100	20	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Manganese	7439-96-5	1010	1.0	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Mercury	7439-97-6	<0.0500	0.0500	mg/kg	E510/VA	16-Aug-2025	16-Aug-2025	2161789
Molybdenum	7439-98-7	14.2	0.10	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Nickel	7440-02-0	216	0.50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Phosphorus	7723-14-0	9110	50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Potassium	7440-09-7	5360	100	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Selenium	7782-49-2	0.41	0.20	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Silver	7440-22-4	2.51	0.30	mg/kg	E440.Ag/VA	17-Aug-2025	18-Aug-2025	2165700
Sodium	7440-23-5	14700	50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Strontium	7440-24-6	267	0.50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Sulfur	7704-34-9	11200	1000	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Thallium	7440-28-0	<0.050	0.050	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Tin	7440-31-5	665	2.0	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Titanium	7440-32-6	425	1.0	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Tungsten	7440-33-7	195	0.50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Uranium	7440-61-1	1.39	0.050	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Vanadium	7440-62-2	34.4	0.20	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Zinc	7440-66-6	3300	2.0	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Zirconium	7440-67-7	2.3	1.0	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
TCLP Metals								
pH, TCLP 1st preliminary	----	11.71	0.010	pH units	EPP444/VA	-	16-Aug-2025	-
pH, TCLP 2nd preliminary	----	3.61	0.010	pH units	EPP444/VA	-	16-Aug-2025	-
pH, TCLP extraction fluid initial	----	4.94	0.010	pH units	EPP444/VA	-	16-Aug-2025	-
pH, TCLP final	----	10.46	0.010	pH units	EPP444/VA	-	16-Aug-2025	-
Antimony, TCLP	7440-36-0	<1.00	1.00	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Arsenic, TCLP	7440-38-2	<1.0	1.0	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450

Analytical Results

VA25B9927-007

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

Client sample ID: BA 2532-A-7
Client sampling date / time: 06-Aug-2025 09:00

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	18-Aug-2025	18-Aug-2025	2166450
Beryllium, TCLP	7440-41-7	<0.025	0.025	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Boron, TCLP	7440-42-8	1.08	0.50	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Cadmium, TCLP	7440-43-9	<0.050	0.050	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Calcium, TCLP	7440-70-2	908	10	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Chromium, TCLP	7440-47-3	<0.25	0.25	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Cobalt, TCLP	7440-48-4	<0.050	0.050	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Copper, TCLP	7440-50-8	0.606	0.050	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Iron, TCLP	7439-89-6	<5.0	5.0	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Lead, TCLP	7439-92-1	<0.25	0.25	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Magnesium, TCLP	7439-95-4	4.9	2.5	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Mercury, TCLP	7439-97-6	<0.0010	0.0010	mg/L	E512/VA	18-Aug-2025	18-Aug-2025	2166449
Nickel, TCLP	7440-02-0	<0.25	0.25	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Selenium, TCLP	7782-49-2	<0.10	0.10	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Silver, TCLP	7440-22-4	<0.050	0.050	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Thallium, TCLP	7440-28-0	<1.0	1.0	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Uranium, TCLP	7440-61-1	<0.20	0.20	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Vanadium, TCLP	7440-62-2	<0.15	0.15	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Zinc, TCLP	7440-66-6	<0.50	0.50	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Zirconium, TCLP	7440-67-7	<10	10	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450

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

Analytical Results

VA25B9927-008

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

Client sample ID: BA 2532-A-8
Client sampling date / time: 06-Aug-2025 09:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests								
Moisture	----	20.4	0.25	%	E144/VA	-	14-Aug-2025	2161792
pH (1:2 soil:water)	----	10.69	0.10	pH units	E108/VA	16-Aug-2025	16-Aug-2025	2161791
Metals								
Aluminum	7429-90-5	31800	50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Antimony	7440-36-0	94.3	0.10	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Arsenic	7440-38-2	25.8	0.10	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Barium	7440-39-3	566	0.50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Beryllium	7440-41-7	0.42	0.10	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Bismuth	7440-69-9	6.42	0.20	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Boron	7440-42-8	245	5.0	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Cadmium	7440-43-9	7.66	0.020	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Calcium	7440-70-2	129000	50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Chromium	7440-47-3	205	0.50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Cobalt	7440-48-4	34.8	0.10	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Copper	7440-50-8	2190	0.50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790

Analytical Results

VA25B9927-008

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

Client sample ID: BA 2532-A-8
Client sampling date / time: 06-Aug-2025 09:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Metals								
Iron	7439-89-6	70400	50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Lead	7439-92-1	234	0.50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Lithium	7439-93-2	28.2	2.0	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Magnesium	7439-95-4	12400	20	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Manganese	7439-96-5	921	1.0	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Mercury	7439-97-6	<0.0500	0.0500	mg/kg	E510/VA	16-Aug-2025	16-Aug-2025	2161789
Molybdenum	7439-98-7	29.7	0.10	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Nickel	7440-02-0	154	0.50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Phosphorus	7723-14-0	8230	50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Potassium	7440-09-7	6080	100	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Selenium	7782-49-2	0.52	0.20	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Silver	7440-22-4	6.76	0.10	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Sodium	7440-23-5	15900	50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Strontium	7440-24-6	300	0.50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Sulfur	7704-34-9	12700	1000	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Thallium	7440-28-0	<0.050	0.050	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Tin	7440-31-5	133	2.0	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Titanium	7440-32-6	297	1.0	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Tungsten	7440-33-7	17.3	0.50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Uranium	7440-61-1	1.66	0.050	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Vanadium	7440-62-2	56.7	0.20	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Zinc	7440-66-6	13800	2.0	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Zirconium	7440-67-7	1.5	1.0	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
TCLP Metals								
pH, TCLP 1st preliminary	----	11.62	0.010	pH units	EPP444/VA	-	16-Aug-2025	-
pH, TCLP 2nd preliminary	----	2.67	0.010	pH units	EPP444/VA	-	16-Aug-2025	-
pH, TCLP extraction fluid initial	----	4.94	0.010	pH units	EPP444/VA	-	16-Aug-2025	-
pH, TCLP final	----	10.64	0.010	pH units	EPP444/VA	-	16-Aug-2025	-
Antimony, TCLP	7440-36-0	<1.00	1.00	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Arsenic, TCLP	7440-38-2	<1.0	1.0	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Barium, TCLP	7440-39-3	<2.5	2.5	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Beryllium, TCLP	7440-41-7	<0.025	0.025	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Boron, TCLP	7440-42-8	0.93	0.50	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Cadmium, TCLP	7440-43-9	<0.050	0.050	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Calcium, TCLP	7440-70-2	828	10	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Chromium, TCLP	7440-47-3	<0.25	0.25	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Cobalt, TCLP	7440-48-4	<0.050	0.050	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Copper, TCLP	7440-50-8	0.665	0.050	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Iron, TCLP	7439-89-6	<5.0	5.0	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Lead, TCLP	7439-92-1	<0.25	0.25	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Magnesium, TCLP	7439-95-4	<2.5	2.5	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Mercury, TCLP	7439-97-6	<0.0010	0.0010	mg/L	E512/VA	18-Aug-2025	18-Aug-2025	2166449
Nickel, TCLP	7440-02-0	<0.25	0.25	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Selenium, TCLP	7782-49-2	<0.10	0.10	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Silver, TCLP	7440-22-4	<0.050	0.050	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450

Analytical Results

VA25B9927-008

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

Client sample ID: BA 2532-A-8
Client sampling date / time: 06-Aug-2025 09:00

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	18-Aug-2025	18-Aug-2025	2166450
Uranium, TCLP	7440-61-1	<0.20	0.20	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Vanadium, TCLP	7440-62-2	<0.15	0.15	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Zinc, TCLP	7440-66-6	<0.50	0.50	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Zirconium, TCLP	7440-67-7	<10	10	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450

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

Analytical Results

VA25B9927-009

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

Client sample ID: BA 2532-A-9
Client sampling date / time: 06-Aug-2025 09:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests								
Moisture	----	20.3	0.25	%	E144/VA	-	14-Aug-2025	2161792
pH (1:2 soil:water)	----	10.85	0.10	pH units	E108/VA	16-Aug-2025	16-Aug-2025	2161791
Metals								
Aluminum	7429-90-5	34400	50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Antimony	7440-36-0	86.7	0.10	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Arsenic	7440-38-2	22.7	0.10	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Barium	7440-39-3	550	0.50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Beryllium	7440-41-7	0.43	0.10	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Bismuth	7440-69-9	9.65	0.20	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Boron	7440-42-8	197	5.0	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Cadmium	7440-43-9	8.72	0.020	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Calcium	7440-70-2	125000	50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Chromium	7440-47-3	160	0.50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Cobalt	7440-48-4	40.3	0.10	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Copper	7440-50-8	2790	0.50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Iron	7439-89-6	53700	50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Lead	7439-92-1	208	0.50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Lithium	7439-93-2	23.6	2.0	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Magnesium	7439-95-4	12000	20	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Manganese	7439-96-5	796	1.0	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Mercury	7439-97-6	<0.0500	0.0500	mg/kg	E510/VA	16-Aug-2025	16-Aug-2025	2161789
Molybdenum	7439-98-7	15.4	0.10	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Nickel	7440-02-0	116	0.50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Phosphorus	7723-14-0	7220	50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Potassium	7440-09-7	5140	100	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Selenium	7782-49-2	0.34	0.20	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Silver	7440-22-4	5.28	0.10	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Sodium	7440-23-5	15000	50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Strontium	7440-24-6	319	0.50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Sulfur	7704-34-9	10900	1000	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790

Analytical Results

VA25B9927-009

Sub-Matrix:**Soil** *Client sample ID:* BA 2532-A-9

(Matrix: **Soil/Solid**) *Client sampling date / time:* 06-Aug-2025 09:00

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	16-Aug-2025	17-Aug-2025	2161790
Tin	7440-31-5	86.1	2.0	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Titanium	7440-32-6	314	1.0	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Tungsten	7440-33-7	11.5	0.50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Uranium	7440-61-1	1.42	0.050	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Vanadium	7440-62-2	44.7	0.20	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Zinc	7440-66-6	2950	2.0	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Zirconium	7440-67-7	1.4	1.0	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
TCLP Metals								
pH, TCLP 1st preliminary	----	11.61	0.010	pH units	EPP444/VA	-	16-Aug-2025	-
pH, TCLP 2nd preliminary	----	2.80	0.010	pH units	EPP444/VA	-	16-Aug-2025	-
pH, TCLP extraction fluid initial	----	4.94	0.010	pH units	EPP444/VA	-	16-Aug-2025	-
pH, TCLP final	----	10.43	0.010	pH units	EPP444/VA	-	16-Aug-2025	-
Antimony, TCLP	7440-36-0	<1.00	1.00	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Arsenic, TCLP	7440-38-2	<1.0	1.0	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Barium, TCLP	7440-39-3	<2.5	2.5	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Beryllium, TCLP	7440-41-7	<0.025	0.025	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Boron, TCLP	7440-42-8	1.10	0.50	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Cadmium, TCLP	7440-43-9	<0.050	0.050	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Calcium, TCLP	7440-70-2	969	10	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Chromium, TCLP	7440-47-3	<0.25	0.25	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Cobalt, TCLP	7440-48-4	<0.050	0.050	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Copper, TCLP	7440-50-8	0.633	0.050	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Iron, TCLP	7439-89-6	<5.0	5.0	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Lead, TCLP	7439-92-1	<0.25	0.25	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Magnesium, TCLP	7439-95-4	5.3	2.5	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Mercury, TCLP	7439-97-6	<0.0010	0.0010	mg/L	E512/VA	18-Aug-2025	18-Aug-2025	2166449
Nickel, TCLP	7440-02-0	<0.25	0.25	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Selenium, TCLP	7782-49-2	<0.10	0.10	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Silver, TCLP	7440-22-4	<0.050	0.050	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Thallium, TCLP	7440-28-0	<1.0	1.0	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Uranium, TCLP	7440-61-1	<0.20	0.20	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Vanadium, TCLP	7440-62-2	<0.15	0.15	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Zinc, TCLP	7440-66-6	<0.50	0.50	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Zirconium, TCLP	7440-67-7	<10	10	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450

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

Analytical Results

VA25B9927-010

Sub-Matrix:**Soil** *Client sample ID:* BA 2532-A-10

(Matrix: **Soil/Solid**) *Client sampling date / time:* 06-Aug-2025 09:00

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

Analytical Results

VA25B9927-010

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

Client sample ID: BA 2532-A-10
Client sampling date / time: 06-Aug-2025 09:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests								
Moisture	----	21.6	0.25	%	E144/VA	-	14-Aug-2025	2161792
pH (1:2 soil:water)	----	11.03	0.10	pH units	E108/VA	16-Aug-2025	16-Aug-2025	2161791
Metals								
Aluminum	7429-90-5	43000	50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Antimony	7440-36-0	142	0.10	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Arsenic	7440-38-2	30.7	0.10	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Barium	7440-39-3	485	0.50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Beryllium	7440-41-7	0.36	0.10	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Bismuth	7440-69-9	5.63	0.20	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Boron	7440-42-8	232	5.0	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Cadmium	7440-43-9	9.13	0.020	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Calcium	7440-70-2	120000	50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Chromium	7440-47-3	203	0.50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Cobalt	7440-48-4	47.4	0.10	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Copper	7440-50-8	2630	0.50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Iron	7439-89-6	42400	50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Lead	7439-92-1	285	0.50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Lithium	7439-93-2	25.1	2.0	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Magnesium	7439-95-4	10500	20	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Manganese	7439-96-5	737	1.0	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Mercury	7439-97-6	<0.0500	0.0500	mg/kg	E510/VA	16-Aug-2025	16-Aug-2025	2161789
Molybdenum	7439-98-7	17.6	0.10	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Nickel	7440-02-0	462	0.50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Phosphorus	7723-14-0	8490	50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Potassium	7440-09-7	5390	100	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Selenium	7782-49-2	0.37	0.20	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Silver	7440-22-4	4.48	0.10	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Sodium	7440-23-5	14600	50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Strontium	7440-24-6	289	0.50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Sulfur	7704-34-9	12700	1000	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Thallium	7440-28-0	<0.050	0.050	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Tin	7440-31-5	303	2.0	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Titanium	7440-32-6	330	1.0	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Tungsten	7440-33-7	7.29	0.50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Uranium	7440-61-1	1.49	0.050	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Vanadium	7440-62-2	39.1	0.20	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Zinc	7440-66-6	2470	2.0	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Zirconium	7440-67-7	2.6	1.0	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
TCLP Metals								
pH, TCLP 1st preliminary	----	11.70	0.010	pH units	EPP444/VA	-	16-Aug-2025	-
pH, TCLP 2nd preliminary	----	3.28	0.010	pH units	EPP444/VA	-	16-Aug-2025	-
pH, TCLP extraction fluid initial	----	4.94	0.010	pH units	EPP444/VA	-	16-Aug-2025	-
pH, TCLP final	----	10.65	0.010	pH units	EPP444/VA	-	16-Aug-2025	-
Antimony, TCLP	7440-36-0	<1.00	1.00	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Arsenic, TCLP	7440-38-2	<1.0	1.0	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450

Analytical Results

VA25B9927-010

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

Client sample ID: BA 2532-A-10
Client sampling date / time: 06-Aug-2025 09:00

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	18-Aug-2025	18-Aug-2025	2166450
Beryllium, TCLP	7440-41-7	<0.025	0.025	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Boron, TCLP	7440-42-8	0.98	0.50	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Cadmium, TCLP	7440-43-9	<0.050	0.050	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Calcium, TCLP	7440-70-2	918	10	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Chromium, TCLP	7440-47-3	<0.25	0.25	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Cobalt, TCLP	7440-48-4	<0.050	0.050	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Copper, TCLP	7440-50-8	0.672	0.050	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Iron, TCLP	7439-89-6	<5.0	5.0	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Lead, TCLP	7439-92-1	<0.25	0.25	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Magnesium, TCLP	7439-95-4	<2.5	2.5	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Mercury, TCLP	7439-97-6	<0.0010	0.0010	mg/L	E512/VA	18-Aug-2025	18-Aug-2025	2166449
Nickel, TCLP	7440-02-0	<0.25	0.25	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Selenium, TCLP	7782-49-2	<0.10	0.10	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Silver, TCLP	7440-22-4	<0.050	0.050	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Thallium, TCLP	7440-28-0	<1.0	1.0	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Uranium, TCLP	7440-61-1	<0.20	0.20	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Vanadium, TCLP	7440-62-2	<0.15	0.15	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Zinc, TCLP	7440-66-6	<0.50	0.50	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Zirconium, TCLP	7440-67-7	<10	10	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450

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

Analytical Results

VA25B9927-011

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

Client sample ID: BA 2532-A-11
Client sampling date / time: 06-Aug-2025 09:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests								
Moisture	----	20.2	0.25	%	E144/VA	-	14-Aug-2025	2161792
pH (1:2 soil:water)	----	11.11	0.10	pH units	E108/VA	16-Aug-2025	16-Aug-2025	2161791
Metals								
Aluminum	7429-90-5	30400	50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Antimony	7440-36-0	113	0.10	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Arsenic	7440-38-2	25.6	0.10	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Barium	7440-39-3	524	0.50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Beryllium	7440-41-7	0.41	0.10	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Bismuth	7440-69-9	5.15	0.20	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Boron	7440-42-8	203	5.0	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Cadmium	7440-43-9	7.28	0.020	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Calcium	7440-70-2	126000	50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Chromium	7440-47-3	224	0.50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Cobalt	7440-48-4	81.9	0.10	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Copper	7440-50-8	4000	0.50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790

Analytical Results

VA25B9927-011

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

Client sample ID: BA 2532-A-11
Client sampling date / time: 06-Aug-2025 09:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Metals								
Iron	7439-89-6	61600	50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Lead	7439-92-1	705	0.50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Lithium	7439-93-2	93.4	2.0	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Magnesium	7439-95-4	10400	20	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Manganese	7439-96-5	686	1.0	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Mercury	7439-97-6	<0.0500	0.0500	mg/kg	E510/VA	16-Aug-2025	16-Aug-2025	2161789
Molybdenum	7439-98-7	14.7	0.10	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Nickel	7440-02-0	178	0.50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Phosphorus	7723-14-0	8840	50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Potassium	7440-09-7	5060	100	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Selenium	7782-49-2	0.36	0.20	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Silver	7440-22-4	3.84	0.10	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Sodium	7440-23-5	14200	50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Strontium	7440-24-6	287	0.50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Sulfur	7704-34-9	11200	1000	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Thallium	7440-28-0	<0.050	0.050	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Tin	7440-31-5	1020	2.0	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Titanium	7440-32-6	367	1.0	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Tungsten	7440-33-7	6.82	0.50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Uranium	7440-61-1	1.48	0.050	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Vanadium	7440-62-2	51.6	0.20	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Zinc	7440-66-6	4170	2.0	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Zirconium	7440-67-7	1.3	1.0	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
TCLP Metals								
pH, TCLP 1st preliminary	----	11.72	0.010	pH units	EPP444/VA	-	16-Aug-2025	-
pH, TCLP 2nd preliminary	----	3.50	0.010	pH units	EPP444/VA	-	16-Aug-2025	-
pH, TCLP extraction fluid initial	----	4.94	0.010	pH units	EPP444/VA	-	16-Aug-2025	-
pH, TCLP final	----	10.79	0.010	pH units	EPP444/VA	-	16-Aug-2025	-
Antimony, TCLP	7440-36-0	<1.00	1.00	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Arsenic, TCLP	7440-38-2	<1.0	1.0	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Barium, TCLP	7440-39-3	<2.5	2.5	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Beryllium, TCLP	7440-41-7	<0.025	0.025	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Boron, TCLP	7440-42-8	0.87	0.50	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Cadmium, TCLP	7440-43-9	<0.050	0.050	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Calcium, TCLP	7440-70-2	824	10	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Chromium, TCLP	7440-47-3	<0.25	0.25	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Cobalt, TCLP	7440-48-4	<0.050	0.050	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Copper, TCLP	7440-50-8	0.686	0.050	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Iron, TCLP	7439-89-6	<5.0	5.0	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Lead, TCLP	7439-92-1	<0.25	0.25	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Magnesium, TCLP	7439-95-4	<2.5	2.5	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Mercury, TCLP	7439-97-6	<0.0010	0.0010	mg/L	E512/VA	18-Aug-2025	18-Aug-2025	2166449
Nickel, TCLP	7440-02-0	<0.25	0.25	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Selenium, TCLP	7782-49-2	<0.10	0.10	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Silver, TCLP	7440-22-4	<0.050	0.050	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450

Analytical Results

VA25B9927-011

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

Client sample ID: BA 2532-A-11
Client sampling date / time: 06-Aug-2025 09:00

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	18-Aug-2025	18-Aug-2025	2166450
Uranium, TCLP	7440-61-1	<0.20	0.20	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Vanadium, TCLP	7440-62-2	<0.15	0.15	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Zinc, TCLP	7440-66-6	<0.50	0.50	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Zirconium, TCLP	7440-67-7	<10	10	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450

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

Analytical Results

VA25B9927-012

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

Client sample ID: BA 2532-A-12
Client sampling date / time: 06-Aug-2025 09:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests								
Moisture	----	19.5	0.25	%	E144/VA	-	14-Aug-2025	2161792
pH (1:2 soil:water)	----	10.63	0.10	pH units	E108/VA	16-Aug-2025	16-Aug-2025	2161791
Metals								
Aluminum	7429-90-5	37300	50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Antimony	7440-36-0	89.0	0.10	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Arsenic	7440-38-2	24.0	0.10	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Barium	7440-39-3	549	0.50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Beryllium	7440-41-7	0.68	0.10	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Bismuth	7440-69-9	9.98	0.20	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Boron	7440-42-8	182	5.0	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Cadmium	7440-43-9	6.90	0.020	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Calcium	7440-70-2	115000	50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Chromium	7440-47-3	148	0.50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Cobalt	7440-48-4	120	0.10	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Copper	7440-50-8	2570	0.50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Iron	7439-89-6	61700	50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Lead	7439-92-1	218	0.50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Lithium	7439-93-2	24.4	2.0	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Magnesium	7439-95-4	11500	20	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Manganese	7439-96-5	853	1.0	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Mercury	7439-97-6	<0.0500	0.0500	mg/kg	E510/VA	16-Aug-2025	16-Aug-2025	2161789
Molybdenum	7439-98-7	16.8	0.10	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Nickel	7440-02-0	1290	0.50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Phosphorus	7723-14-0	7980	50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Potassium	7440-09-7	5430	100	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Selenium	7782-49-2	0.40	0.20	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Silver	7440-22-4	3.12	0.10	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Sodium	7440-23-5	15600	50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Strontium	7440-24-6	284	0.50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Sulfur	7704-34-9	10600	1000	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790

Analytical Results

VA25B9927-012

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

Client sample ID: BA 2532-A-12
Client sampling date / time: 06-Aug-2025 09:00

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	16-Aug-2025	17-Aug-2025	2161790
Tin	7440-31-5	91.6	2.0	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Titanium	7440-32-6	555	1.0	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Tungsten	7440-33-7	7.14	0.50	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Uranium	7440-61-1	1.39	0.050	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Vanadium	7440-62-2	50.5	0.20	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Zinc	7440-66-6	7450	2.0	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
Zirconium	7440-67-7	1.4	1.0	mg/kg	E440/VA	16-Aug-2025	17-Aug-2025	2161790
TCLP Metals								
pH, TCLP 1st preliminary	----	11.62	0.010	pH units	EPP444/VA	-	16-Aug-2025	-
pH, TCLP 2nd preliminary	----	2.90	0.010	pH units	EPP444/VA	-	16-Aug-2025	-
pH, TCLP extraction fluid initial	----	4.94	0.010	pH units	EPP444/VA	-	16-Aug-2025	-
pH, TCLP final	----	10.64	0.010	pH units	EPP444/VA	-	16-Aug-2025	-
Antimony, TCLP	7440-36-0	<1.00	1.00	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Arsenic, TCLP	7440-38-2	<1.0	1.0	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Barium, TCLP	7440-39-3	<2.5	2.5	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Beryllium, TCLP	7440-41-7	<0.025	0.025	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Boron, TCLP	7440-42-8	0.91	0.50	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Cadmium, TCLP	7440-43-9	<0.050	0.050	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Calcium, TCLP	7440-70-2	817	10	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Chromium, TCLP	7440-47-3	<0.25	0.25	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Cobalt, TCLP	7440-48-4	<0.050	0.050	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Copper, TCLP	7440-50-8	0.660	0.050	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Iron, TCLP	7439-89-6	<5.0	5.0	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Lead, TCLP	7439-92-1	<0.25	0.25	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Magnesium, TCLP	7439-95-4	<2.5	2.5	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Mercury, TCLP	7439-97-6	<0.0010	0.0010	mg/L	E512/VA	18-Aug-2025	18-Aug-2025	2166449
Nickel, TCLP	7440-02-0	<0.25	0.25	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Selenium, TCLP	7782-49-2	<0.10	0.10	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Silver, TCLP	7440-22-4	<0.050	0.050	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Thallium, TCLP	7440-28-0	<1.0	1.0	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Uranium, TCLP	7440-61-1	<0.20	0.20	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Vanadium, TCLP	7440-62-2	<0.15	0.15	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Zinc, TCLP	7440-66-6	<0.50	0.50	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450
Zirconium, TCLP	7440-67-7	<10	10	mg/L	E444/VA	18-Aug-2025	18-Aug-2025	2166450

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

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QUALITY CONTROL INTERPRETIVE REPORT

Work Order	: **VA25B9927**	Page	: 1 of 16
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	: 11-Aug-2025 12:00
PO	: 1000497676	Issue Date	: 18-Aug-2025 20:35
C-O-C number	: ----		
Sampler	: ----		
Site	:		
Quote number	: Veolia Environmental Western Canada Standing Offer		
No. of samples received	: 12		
No. of samples analysed	: 12		

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 Service 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.
- No Laboratory Control Sample (LCS) outliers occur
- No Matrix Spike outliers occur.
- Duplicate outliers occur - please see following pages for full details.
- 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	VA25B9927-001	BA 2532-A-1	Copper	7440-50-8	E440	82.8 % DUP-H	30%	Duplicate RPD does not meet the DQO for this test.
Metals	VA25B9927-001	BA 2532-A-1	Lead	7439-92-1	E440	175 % DUP-H	40%	Duplicate RPD does not meet the DQO for this test.
Metals	VA25B9927-001	BA 2532-A-1	Lithium	7439-93-2	E440	47.9 % DUP-H	30%	Duplicate RPD does not meet the DQO for this test.
Metals	VA25B9927-001	BA 2532-A-1	Manganese	7439-96-5	E440	159 % DUP-H	30%	Duplicate RPD does not meet the DQO for this test.
Metals	VA25B9927-001	BA 2532-A-1	Nickel	7440-02-0	E440	46.7 % DUP-H	30%	Duplicate RPD does not meet the DQO for this test.
Metals	VA25B9927-001	BA 2532-A-1	Vanadium	7440-62-2	E440	143 % DUP-H	30%	Duplicate RPD does not meet the DQO for this test.

Result Qualifiers

Qualifier	*Description*
DUP-H	*Duplicate results outside ALS DQO, due to sample heterogeneity.*

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 / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Metals : High Silver in Soil/Solid by CRC ICPMS										
LDPE bag BA 2532-A-7	E440.Ag	06-Aug-2025	17-Aug-2025	180 days	11 days	✓	18-Aug-2025	180 days	11 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag BA 2532-A-1	E510	06-Aug-2025	16-Aug-2025	28 days	10 days	✓	16-Aug-2025	28 days	0 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag BA 2532-A-10	E510	06-Aug-2025	16-Aug-2025	28 days	10 days	✓	16-Aug-2025	28 days	0 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag BA 2532-A-11	E510	06-Aug-2025	16-Aug-2025	28 days	10 days	✓	16-Aug-2025	28 days	0 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag BA 2532-A-12	E510	06-Aug-2025	16-Aug-2025	28 days	10 days	✓	16-Aug-2025	28 days	0 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag BA 2532-A-2	E510	06-Aug-2025	16-Aug-2025	28 days	10 days	✓	16-Aug-2025	28 days	0 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag BA 2532-A-3	E510	06-Aug-2025	16-Aug-2025	28 days	10 days	✓	16-Aug-2025	28 days	0 days	✓

Matrix: **Soil/Solid**

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

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag BA 2532-A-4	E510	06-Aug-2025	16-Aug-2025	28 days	10 days	✓	16-Aug-2025	28 days	0 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag BA 2532-A-5	E510	06-Aug-2025	16-Aug-2025	28 days	10 days	✓	16-Aug-2025	28 days	0 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag BA 2532-A-6	E510	06-Aug-2025	16-Aug-2025	28 days	10 days	✓	16-Aug-2025	28 days	0 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag BA 2532-A-7	E510	06-Aug-2025	16-Aug-2025	28 days	10 days	✓	16-Aug-2025	28 days	0 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag BA 2532-A-8	E510	06-Aug-2025	16-Aug-2025	28 days	10 days	✓	16-Aug-2025	28 days	0 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag BA 2532-A-9	E510	06-Aug-2025	16-Aug-2025	28 days	10 days	✓	16-Aug-2025	28 days	0 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
LDPE bag BA 2532-A-1	E440	06-Aug-2025	16-Aug-2025	180 days	10 days	✓	17-Aug-2025	180 days	10 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
LDPE bag BA 2532-A-10	E440	06-Aug-2025	16-Aug-2025	180 days	10 days	✓	17-Aug-2025	180 days	10 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
LDPE bag BA 2532-A-11	E440	06-Aug-2025	16-Aug-2025	180 days	10 days	✓	17-Aug-2025	180 days	10 days	✓

Matrix: **Soil/Solid**

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

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Metals : Metals in Soil/Solid by CRC ICPMS										
LDPE bag BA 2532-A-12	E440	06-Aug-2025	16-Aug-2025	180 days	10 days	✓	17-Aug-2025	180 days	10 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
LDPE bag BA 2532-A-2	E440	06-Aug-2025	16-Aug-2025	180 days	10 days	✓	17-Aug-2025	180 days	10 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
LDPE bag BA 2532-A-3	E440	06-Aug-2025	16-Aug-2025	180 days	10 days	✓	17-Aug-2025	180 days	10 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
LDPE bag BA 2532-A-4	E440	06-Aug-2025	16-Aug-2025	180 days	10 days	✓	17-Aug-2025	180 days	10 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
LDPE bag BA 2532-A-5	E440	06-Aug-2025	16-Aug-2025	180 days	10 days	✓	17-Aug-2025	180 days	10 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
LDPE bag BA 2532-A-6	E440	06-Aug-2025	16-Aug-2025	180 days	10 days	✓	17-Aug-2025	180 days	10 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
LDPE bag BA 2532-A-7	E440	06-Aug-2025	16-Aug-2025	180 days	10 days	✓	17-Aug-2025	180 days	10 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
LDPE bag BA 2532-A-8	E440	06-Aug-2025	16-Aug-2025	180 days	10 days	✓	17-Aug-2025	180 days	10 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
LDPE bag BA 2532-A-9	E440	06-Aug-2025	16-Aug-2025	180 days	10 days	✓	17-Aug-2025	180 days	10 days	✓

Matrix: **Soil/Solid**

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

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Physical Tests : Moisture Content by Gravimetry										
LDPE bag BA 2532-A-1	E144	06-Aug-2025	----	----	----		14-Aug-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag BA 2532-A-10	E144	06-Aug-2025	----	----	----		14-Aug-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag BA 2532-A-11	E144	06-Aug-2025	----	----	----		14-Aug-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag BA 2532-A-12	E144	06-Aug-2025	----	----	----		14-Aug-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag BA 2532-A-2	E144	06-Aug-2025	----	----	----		14-Aug-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag BA 2532-A-3	E144	06-Aug-2025	----	----	----		14-Aug-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag BA 2532-A-4	E144	06-Aug-2025	----	----	----		14-Aug-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag BA 2532-A-5	E144	06-Aug-2025	----	----	----		14-Aug-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag BA 2532-A-6	E144	06-Aug-2025	----	----	----		14-Aug-2025	----	----	

Matrix: **Soil/Solid**

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

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Physical Tests : Moisture Content by Gravimetry										
LDPE bag BA 2532-A-7	E144	06-Aug-2025	----	----	----		14-Aug-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag BA 2532-A-8	E144	06-Aug-2025	----	----	----		14-Aug-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag BA 2532-A-9	E144	06-Aug-2025	----	----	----		14-Aug-2025	----	----	
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)										
LDPE bag BA 2532-A-1	E108	06-Aug-2025	16-Aug-2025	30 days	10 days	✓	16-Aug-2025	30 days	10 days	✓
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)										
LDPE bag BA 2532-A-10	E108	06-Aug-2025	16-Aug-2025	30 days	10 days	✓	16-Aug-2025	30 days	10 days	✓
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)										
LDPE bag BA 2532-A-11	E108	06-Aug-2025	16-Aug-2025	30 days	10 days	✓	16-Aug-2025	30 days	10 days	✓
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)										
LDPE bag BA 2532-A-12	E108	06-Aug-2025	16-Aug-2025	30 days	10 days	✓	16-Aug-2025	30 days	10 days	✓
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)										
LDPE bag BA 2532-A-2	E108	06-Aug-2025	16-Aug-2025	30 days	10 days	✓	16-Aug-2025	30 days	10 days	✓
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)										
LDPE bag BA 2532-A-3	E108	06-Aug-2025	16-Aug-2025	30 days	10 days	✓	16-Aug-2025	30 days	10 days	✓

Matrix: **Soil/Solid**

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

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)										
LDPE bag BA 2532-A-4	E108	06-Aug-2025	16-Aug-2025	30 days	10 days	✓	16-Aug-2025	30 days	10 days	✓
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)										
LDPE bag BA 2532-A-5	E108	06-Aug-2025	16-Aug-2025	30 days	10 days	✓	16-Aug-2025	30 days	10 days	✓
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)										
LDPE bag BA 2532-A-6	E108	06-Aug-2025	16-Aug-2025	30 days	10 days	✓	16-Aug-2025	30 days	10 days	✓
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)										
LDPE bag BA 2532-A-7	E108	06-Aug-2025	16-Aug-2025	30 days	10 days	✓	16-Aug-2025	30 days	10 days	✓
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)										
LDPE bag BA 2532-A-8	E108	06-Aug-2025	16-Aug-2025	30 days	10 days	✓	16-Aug-2025	30 days	10 days	✓
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)										
LDPE bag BA 2532-A-9	E108	06-Aug-2025	16-Aug-2025	30 days	10 days	✓	16-Aug-2025	30 days	10 days	✓
TCLP Metals : Mercury by CVAAS (TCLP)										
Glass vial - total (lab preserved) BA 2532-A-1	E512	16-Aug-2025	18-Aug-2025	38 days	12 days	✓	18-Aug-2025	38 days	12 days	✓
TCLP Metals : Mercury by CVAAS (TCLP)										
Glass vial - total (lab preserved) BA 2532-A-10	E512	16-Aug-2025	18-Aug-2025	38 days	12 days	✓	18-Aug-2025	38 days	12 days	✓
TCLP Metals : Mercury by CVAAS (TCLP)										
Glass vial - total (lab preserved) BA 2532-A-11	E512	16-Aug-2025	18-Aug-2025	38 days	12 days	✓	18-Aug-2025	38 days	12 days	✓

Matrix: **Soil/Solid**

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

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
TCLP Metals : Mercury by CVAAS (TCLP)										
Glass vial - total (lab preserved) BA 2532-A-12	E512	16-Aug-2025	18-Aug-2025	38 days	12 days	✓	18-Aug-2025	38 days	12 days	✓
TCLP Metals : Mercury by CVAAS (TCLP)										
Glass vial - total (lab preserved) BA 2532-A-2	E512	16-Aug-2025	18-Aug-2025	38 days	12 days	✓	18-Aug-2025	38 days	12 days	✓
TCLP Metals : Mercury by CVAAS (TCLP)										
Glass vial - total (lab preserved) BA 2532-A-3	E512	16-Aug-2025	18-Aug-2025	38 days	12 days	✓	18-Aug-2025	38 days	12 days	✓
TCLP Metals : Mercury by CVAAS (TCLP)										
Glass vial - total (lab preserved) BA 2532-A-4	E512	16-Aug-2025	18-Aug-2025	38 days	12 days	✓	18-Aug-2025	38 days	12 days	✓
TCLP Metals : Mercury by CVAAS (TCLP)										
Glass vial - total (lab preserved) BA 2532-A-5	E512	16-Aug-2025	18-Aug-2025	38 days	12 days	✓	18-Aug-2025	38 days	12 days	✓
TCLP Metals : Mercury by CVAAS (TCLP)										
Glass vial - total (lab preserved) BA 2532-A-6	E512	16-Aug-2025	18-Aug-2025	38 days	12 days	✓	18-Aug-2025	38 days	12 days	✓
TCLP Metals : Mercury by CVAAS (TCLP)										
Glass vial - total (lab preserved) BA 2532-A-7	E512	16-Aug-2025	18-Aug-2025	38 days	12 days	✓	18-Aug-2025	38 days	12 days	✓
TCLP Metals : Mercury by CVAAS (TCLP)										
Glass vial - total (lab preserved) BA 2532-A-8	E512	16-Aug-2025	18-Aug-2025	38 days	12 days	✓	18-Aug-2025	38 days	12 days	✓
TCLP Metals : Mercury by CVAAS (TCLP)										
Glass vial - total (lab preserved) BA 2532-A-9	E512	16-Aug-2025	18-Aug-2025	38 days	12 days	✓	18-Aug-2025	38 days	12 days	✓

Matrix: **Soil/Solid**

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

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
TCLP Metals : Metals by CRC ICPMS (TCLP)										
HDPE - total (lab preserved) BA 2532-A-1	E444	16-Aug-2025	18-Aug-2025	190 days	12 days	✓	18-Aug-2025	190 days	12 days	✓
TCLP Metals : Metals by CRC ICPMS (TCLP)										
HDPE - total (lab preserved) BA 2532-A-10	E444	16-Aug-2025	18-Aug-2025	190 days	12 days	✓	18-Aug-2025	190 days	12 days	✓
TCLP Metals : Metals by CRC ICPMS (TCLP)										
HDPE - total (lab preserved) BA 2532-A-11	E444	16-Aug-2025	18-Aug-2025	190 days	12 days	✓	18-Aug-2025	190 days	12 days	✓
TCLP Metals : Metals by CRC ICPMS (TCLP)										
HDPE - total (lab preserved) BA 2532-A-12	E444	16-Aug-2025	18-Aug-2025	190 days	12 days	✓	18-Aug-2025	190 days	12 days	✓
TCLP Metals : Metals by CRC ICPMS (TCLP)										
HDPE - total (lab preserved) BA 2532-A-2	E444	16-Aug-2025	18-Aug-2025	190 days	12 days	✓	18-Aug-2025	190 days	12 days	✓
TCLP Metals : Metals by CRC ICPMS (TCLP)										
HDPE - total (lab preserved) BA 2532-A-3	E444	16-Aug-2025	18-Aug-2025	190 days	12 days	✓	18-Aug-2025	190 days	12 days	✓
TCLP Metals : Metals by CRC ICPMS (TCLP)										
HDPE - total (lab preserved) BA 2532-A-4	E444	16-Aug-2025	18-Aug-2025	190 days	12 days	✓	18-Aug-2025	190 days	12 days	✓
TCLP Metals : Metals by CRC ICPMS (TCLP)										
HDPE - total (lab preserved) BA 2532-A-5	E444	16-Aug-2025	18-Aug-2025	190 days	12 days	✓	18-Aug-2025	190 days	12 days	✓
TCLP Metals : Metals by CRC ICPMS (TCLP)										
HDPE - total (lab preserved) BA 2532-A-6	E444	16-Aug-2025	18-Aug-2025	190 days	12 days	✓	18-Aug-2025	190 days	12 days	✓

Matrix: **Soil/Solid**

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

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
TCLP Metals : Metals by CRC ICPMS (TCLP)										
HDPE - total (lab preserved)										
BA 2532-A-7	E444	16-Aug-2025	18-Aug-2025	190 days	12 days	✓	18-Aug-2025	190 days	12 days	✓
TCLP Metals : Metals by CRC ICPMS (TCLP)										
HDPE - total (lab preserved)										
BA 2532-A-8	E444	16-Aug-2025	18-Aug-2025	190 days	12 days	✓	18-Aug-2025	190 days	12 days	✓
TCLP Metals : Metals by CRC ICPMS (TCLP)										
HDPE - total (lab preserved)										
BA 2532-A-9	E444	16-Aug-2025	18-Aug-2025	190 days	12 days	✓	18-Aug-2025	190 days	12 days	✓
TCLP Metals : TCLP Leachate Preparation (Metals, Inorganics, and SVOCs)										
Lab Split - Non-Volatile Leach: 28 day HT (e.g. Hg, CrVI, PFAS)										
BA 2532-A-1	EPP444	06-Aug-2025	16-Aug-2025	----	----		----	28 days	10 days	✓
TCLP Metals : TCLP Leachate Preparation (Metals, Inorganics, and SVOCs)										
Lab Split - Non-Volatile Leach: 28 day HT (e.g. Hg, CrVI, PFAS)										
BA 2532-A-10	EPP444	06-Aug-2025	16-Aug-2025	----	----		----	28 days	10 days	✓
TCLP Metals : TCLP Leachate Preparation (Metals, Inorganics, and SVOCs)										
Lab Split - Non-Volatile Leach: 28 day HT (e.g. Hg, CrVI, PFAS)										
BA 2532-A-11	EPP444	06-Aug-2025	16-Aug-2025	----	----		----	28 days	10 days	✓
TCLP Metals : TCLP Leachate Preparation (Metals, Inorganics, and SVOCs)										
Lab Split - Non-Volatile Leach: 28 day HT (e.g. Hg, CrVI, PFAS)										
BA 2532-A-12	EPP444	06-Aug-2025	16-Aug-2025	----	----		----	28 days	10 days	✓
TCLP Metals : TCLP Leachate Preparation (Metals, Inorganics, and SVOCs)										
Lab Split - Non-Volatile Leach: 28 day HT (e.g. Hg, CrVI, PFAS)										
BA 2532-A-2	EPP444	06-Aug-2025	16-Aug-2025	----	----		----	28 days	10 days	✓
TCLP Metals : TCLP Leachate Preparation (Metals, Inorganics, and SVOCs)										
Lab Split - Non-Volatile Leach: 28 day HT (e.g. Hg, CrVI, PFAS)										
BA 2532-A-3	EPP444	06-Aug-2025	16-Aug-2025	----	----		----	28 days	10 days	✓

Matrix: **Soil/Solid**

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

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
TCLP Metals : TCLP Leachate Preparation (Metals, Inorganics, and SVOCs)										
Lab Split - Non-Volatile Leach: 28 day HT (e.g. Hg, CrVI, PFAS)										
BA 2532-A-4	EPP444	06-Aug-2025	16-Aug-2025	----	----		----	28 days	10 days	✓
TCLP Metals : TCLP Leachate Preparation (Metals, Inorganics, and SVOCs)										
Lab Split - Non-Volatile Leach: 28 day HT (e.g. Hg, CrVI, PFAS)										
BA 2532-A-5	EPP444	06-Aug-2025	16-Aug-2025	----	----		----	28 days	10 days	✓
TCLP Metals : TCLP Leachate Preparation (Metals, Inorganics, and SVOCs)										
Lab Split - Non-Volatile Leach: 28 day HT (e.g. Hg, CrVI, PFAS)										
BA 2532-A-6	EPP444	06-Aug-2025	16-Aug-2025	----	----		----	28 days	10 days	✓
TCLP Metals : TCLP Leachate Preparation (Metals, Inorganics, and SVOCs)										
Lab Split - Non-Volatile Leach: 28 day HT (e.g. Hg, CrVI, PFAS)										
BA 2532-A-7	EPP444	06-Aug-2025	16-Aug-2025	----	----		----	28 days	10 days	✓
TCLP Metals : TCLP Leachate Preparation (Metals, Inorganics, and SVOCs)										
Lab Split - Non-Volatile Leach: 28 day HT (e.g. Hg, CrVI, PFAS)										
BA 2532-A-8	EPP444	06-Aug-2025	16-Aug-2025	----	----		----	28 days	10 days	✓
TCLP Metals : TCLP Leachate Preparation (Metals, Inorganics, and SVOCs)										
Lab Split - Non-Volatile Leach: 28 day HT (e.g. Hg, CrVI, PFAS)										
BA 2532-A-9	EPP444	06-Aug-2025	16-Aug-2025	----	----		----	28 days	10 days	✓

Legend & Qualifier Definitions

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			Count		Frequency (%)		
Analytical Methods	*Method*	*QC Lot #*	*QC*	*Regular*	*Actual*	*Expected*	*Evaluation*
Laboratory Duplicates (DUP)							
pH by Meter (1:2 Soil:Water Extraction)	E108	2161791	1	12	8.3	5.0	✓
Moisture Content by Gravimetry	E144	2161792	1	12	8.3	5.0	✓
Metals in Soil/Solid by CRC ICPMS	E440	2161790	1	16	6.2	5.0	✓
Metals by CRC ICPMS (TCLP)	E444	2166450	1	12	8.3	5.0	✓
Mercury in Soil/Solid by CVAAS	E510	2161789	1	12	8.3	5.0	✓
Mercury by CVAAS (TCLP)	E512	2166449	1	12	8.3	5.0	✓
Laboratory Control Samples (LCS)							
pH by Meter (1:2 Soil:Water Extraction)	E108	2161791	1	12	8.3	5.0	✓
Moisture Content by Gravimetry	E144	2161792	1	12	8.3	5.0	✓
High Silver in Soil/Solid by CRC ICPMS	E440.Ag	2165700	2	1	200.0	10.0	✓
Metals in Soil/Solid by CRC ICPMS	E440	2161790	2	16	12.5	10.0	✓
Mercury in Soil/Solid by CVAAS	E510	2161789	2	12	16.6	10.0	✓
Method Blanks (MB)							
Moisture Content by Gravimetry	E144	2161792	1	12	8.3	5.0	✓
High Silver in Soil/Solid by CRC ICPMS	E440.Ag	2165700	1	1	100.0	5.0	✓
Metals in Soil/Solid by CRC ICPMS	E440	2161790	1	16	6.2	5.0	✓
Metals by CRC ICPMS (TCLP)	E444	2166450	1	12	8.3	5.0	✓
Mercury in Soil/Solid by CVAAS	E510	2161789	1	12	8.3	5.0	✓
Mercury by CVAAS (TCLP)	E512	2166449	1	12	8.3	5.0	✓
Matrix Spikes (MS)							
Metals by CRC ICPMS (TCLP)	E444	2166450	1	12	8.3	5.0	✓
Mercury by CVAAS (TCLP)	E512	2166449	1	12	8.3	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
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 ºC) 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.
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.
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 HNO3 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.
High Silver in Soil/Solid by CRC ICPMS	E440.Ag ALS Environmental - Vancouver	Soil/Solid	EPA 6020B (mod)	Samples are sieved through a 2 mm sieve, and digested with HNO3 and HCl. This method is intended to liberate metals that may be environmentally available. Silicate minerals are not solubilized. Dependent on sample matrix, some metals may be only partially recovered, including Al, Ba, Be, Cr, Sr, Ti, Tl, V, W, and Zr. Volatile forms of sulfur (including sulfide) may not be captured, as they may be lost during sampling, storage, or digestion. Analysis is by Collision/Reaction Cell ICPMS.
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.
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 HNO3 and HCl, followed by CVAAS analysis.
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.

Preparation Methods	Method / Lab	Matrix	Method Reference	Method Descriptions

Preparation Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
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.
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 HNO3 and HCl. This method is intended to liberate metals that may be environmentally available.
Digestion for Silver	EP440.Ag ALS Environmental - Vancouver	Soil/Solid	EPA 200.2 (mod)	Samples are dried, then sieved through a 2 mm sieve, and digested with HNO3 and HCl. This method is intended to liberate metals that may be environmentally available.
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	: **VA25B9927**	Page	: 1 of 13
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	: 11-Aug-2025 12:00
PO	: 1000497676	Date Analysis Commenced	: 14-Aug-2025
C-O-C number	: ----	Issue Date	: 18-Aug-2025 20:35
Sampler	: ----		
Site	:		
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.

Signatories	*Position*	*Laboratory Department*
Janice Leung	Supervisor - Organics Instrumentation	Vancouver Organics, Burnaby, British Columbia
Robert Nguyen	Analyst	Vancouver Metals, 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: 2161791)											
VA25B9927-001	BA 2532-A-1	pH (1:2 soil:water)	----	E108	0.10	pH units	10.79	10.61	1.7%	5%	----
Physical Tests (QC Lot: 2161792)											
VA25B9927-001	BA 2532-A-1	Moisture	----	E144	0.25	%	20.2	19.5	3.23%	20%	----
Metals (QC Lot: 2161789)											
VA25B9927-001	BA 2532-A-1	Mercury	7439-97-6	E510	0.0500	mg/kg	<0.0500	<0.0500	0	Diff <2x LOR	----
Metals (QC Lot: 2161790)											
VA25B9927-001	BA 2532-A-1	Aluminum	7429-90-5	E440	50	mg/kg	30800	32000	3.71%	40%	----
		Antimony	7440-36-0	E440	0.10	mg/kg	81.4	72.1	12.1%	30%	----
		Arsenic	7440-38-2	E440	0.10	mg/kg	25.4	20.1	23.0%	30%	----
		Barium	7440-39-3	E440	0.50	mg/kg	593	554	6.75%	40%	----
		Beryllium	7440-41-7	E440	0.10	mg/kg	0.36	0.31	0.06	Diff <2x LOR	----
		Bismuth	7440-69-9	E440	0.20	mg/kg	4.92	5.17	4.83%	30%	----
		Boron	7440-42-8	E440	5.0	mg/kg	213	164	25.6%	30%	----
		Cadmium	7440-43-9	E440	0.020	mg/kg	5.87	7.05	18.3%	30%	----
		Calcium	7440-70-2	E440	50	mg/kg	114000	117000	1.90%	30%	----
		Chromium	7440-47-3	E440	0.50	mg/kg	200	192	4.26%	30%	----
		Cobalt	7440-48-4	E440	0.10	mg/kg	64.4	76.8	17.6%	30%	----
		Copper	7440-50-8	E440	0.50	mg/kg	5720	2370	82.8%	30%	DUP-H
		Iron	7439-89-6	E440	50	mg/kg	58400	63700	8.79%	30%	----
		Lead	7439-92-1	E440	0.50	mg/kg	183	2720	175%	40%	DUP-H
		Lithium	7439-93-2	E440	2.0	mg/kg	21.4	34.8	47.9%	30%	DUP-H
		Magnesium	7439-95-4	E440	20	mg/kg	11700	9670	19.4%	30%	----
		Manganese	7439-96-5	E440	1.0	mg/kg	808	7170	159%	30%	DUP-H
		Molybdenum	7439-98-7	E440	0.10	mg/kg	15.2	12.6	18.6%	40%	----
		Nickel	7440-02-0	E440	0.50	mg/kg	222	138	46.7%	30%	DUP-H
		Phosphorus	7723-14-0	E440	50	mg/kg	8510	7480	12.9%	30%	----
		Potassium	7440-09-7	E440	100	mg/kg	5260	5120	2.67%	40%	----
		Selenium	7782-49-2	E440	0.20	mg/kg	0.41	0.39	0.02	Diff <2x LOR	----
		Silver	7440-22-4	E440	0.10	mg/kg	5.77	4.35	28.0%	40%	----
		Sodium	7440-23-5	E440	50	mg/kg	14400	14000	2.85%	40%	----

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: 2161790) - continued											
VA25B9927-001	BA 2532-A-1	Strontium	7440-24-6	E440	0.50	mg/kg	366	260	33.9%	40%	----
		Sulfur	7704-34-9	E440	1000	mg/kg	10300	10300	0.221%	30%	----
		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	105	144	30.9%	40%	----
		Titanium	7440-32-6	E440	1.0	mg/kg	289	266	8.38%	40%	----
		Tungsten	7440-33-7	E440	0.50	mg/kg	8.47	10.3	19.3%	30%	----
		Uranium	7440-61-1	E440	0.050	mg/kg	1.37	1.33	3.13%	30%	----
		Vanadium	7440-62-2	E440	0.20	mg/kg	226	37.1	143%	30%	DUP-H
		Zinc	7440-66-6	E440	2.0	mg/kg	3680	3620	1.66%	30%	----
		Zirconium	7440-67-7	E440	1.0	mg/kg	1.4	1.6	0.1	Diff <2x LOR	----
TCLP Metals (QC Lot: 2166449)											
VA25B9927-001	BA 2532-A-1	Mercury, TCLP	7439-97-6	E512	0.0010	mg/L	<0.0010	<0.0010	0	Diff <2x LOR	----
TCLP Metals (QC Lot: 2166450)											
VA25B9927-001	BA 2532-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	0.97	0.97	0.008	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	888	889	0.115%	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	0.632	0.626	0.988%	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	4.0	4.2	0.1	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	----
		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	----

Qualifiers

Qualifier	Description
DUP-H	Duplicate results outside ALS DQO, due to sample heterogeneity.

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: 2161792)						
Moisture	----	E144	0.25	%	<0.25	----
Metals (QCLot: 2161789)						
Mercury	7439-97-6	E510	0.005	mg/kg	<0.0050	----
Metals (QCLot: 2161790)						
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: 2161790) - 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	----
Metals (QCLot: 2165700)						
Silver	7440-22-4	E440.Ag	0.1	mg/kg	<0.10	----
TCLP Metals (QCLot: 2166449)						
Mercury, TCLP	7439-97-6	E512	0.001	mg/L	<0.0010	----
TCLP Metals (QCLot: 2166450)						
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	----

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: 2161791)									
pH (1:2 soil:water)	----	E108	----	pH units	6 pH units	100	95.0	105	----
Physical Tests (QCLot: 2161792)									
Moisture	----	E144	0.25	%	50 %	98.6	90.0	110	----
Metals (QCLot: 2161789)									
Mercury	7439-97-6	E510	0.005	mg/kg	0.1 mg/kg	98.0	80.0	120	----
Metals (QCLot: 2161790)									
Aluminum	7429-90-5	E440	50	mg/kg	200 mg/kg	108	80.0	120	----
Antimony	7440-36-0	E440	0.1	mg/kg	100 mg/kg	102	80.0	120	----
Arsenic	7440-38-2	E440	0.1	mg/kg	100 mg/kg	107	80.0	120	----
Barium	7440-39-3	E440	0.5	mg/kg	25 mg/kg	105	80.0	120	----
Beryllium	7440-41-7	E440	0.1	mg/kg	10 mg/kg	95.2	80.0	120	----
Bismuth	7440-69-9	E440	0.2	mg/kg	100 mg/kg	89.8	80.0	120	----
Boron	7440-42-8	E440	5	mg/kg	100 mg/kg	91.0	80.0	120	----
Cadmium	7440-43-9	E440	0.02	mg/kg	10 mg/kg	99.6	80.0	120	----
Calcium	7440-70-2	E440	50	mg/kg	5000 mg/kg	96.2	80.0	120	----
Chromium	7440-47-3	E440	0.5	mg/kg	25 mg/kg	100	80.0	120	----
Cobalt	7440-48-4	E440	0.1	mg/kg	25 mg/kg	101	80.0	120	----
Copper	7440-50-8	E440	0.5	mg/kg	25 mg/kg	100	80.0	120	----
Iron	7439-89-6	E440	50	mg/kg	100 mg/kg	104	80.0	120	----
Lead	7439-92-1	E440	0.5	mg/kg	50 mg/kg	95.4	80.0	120	----
Lithium	7439-93-2	E440	2	mg/kg	25 mg/kg	95.6	80.0	120	----
Magnesium	7439-95-4	E440	20	mg/kg	5000 mg/kg	105	80.0	120	----
Manganese	7439-96-5	E440	1	mg/kg	25 mg/kg	102	80.0	120	----
Molybdenum	7439-98-7	E440	0.1	mg/kg	25 mg/kg	101	80.0	120	----
Nickel	7440-02-0	E440	0.5	mg/kg	50 mg/kg	101	80.0	120	----
Phosphorus	7723-14-0	E440	50	mg/kg	1000 mg/kg	104	80.0	120	----
Potassium	7440-09-7	E440	100	mg/kg	5000 mg/kg	102	80.0	120	----
Selenium	7782-49-2	E440	0.2	mg/kg	100 mg/kg	102	80.0	120	----
Silver	7440-22-4	E440	0.1	mg/kg	10 mg/kg	91.0	80.0	120	----
Sodium	7440-23-5	E440	50	mg/kg	5000 mg/kg	99.5	80.0	120	----
Strontium	7440-24-6	E440	0.5	mg/kg	25 mg/kg	104	80.0	120	----
Sulfur	7704-34-9	E440	1000	mg/kg	5000 mg/kg	100	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: 2161790) - continued									
Thallium	7440-28-0	E440	0.05	mg/kg	100 mg/kg	94.6	80.0	120	----
Tin	7440-31-5	E440	2	mg/kg	50 mg/kg	99.3	80.0	120	----
Titanium	7440-32-6	E440	1	mg/kg	25 mg/kg	102	80.0	120	----
Tungsten	7440-33-7	E440	0.5	mg/kg	10 mg/kg	96.8	80.0	120	----
Uranium	7440-61-1	E440	0.05	mg/kg	0.5 mg/kg	99.0	80.0	120	----
Vanadium	7440-62-2	E440	0.2	mg/kg	50 mg/kg	103	80.0	120	----
Zinc	7440-66-6	E440	2	mg/kg	50 mg/kg	97.5	80.0	120	----
Zirconium	7440-67-7	E440	1	mg/kg	10 mg/kg	106	80.0	120	----
Metals (QCLot: 2165700)									
Silver	7440-22-4	E440.Ag	0.1	mg/kg	10 mg/kg	98.6	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: 2166449)										
VA25B9927-001	BA 2532-A-1	Mercury, TCLP	7439-97-6	E512	0.0022 mg/L	0.003 mg/L	74.4	50.0	140	----
TCLP Metals (QCLot: 2166450)										
VA25B9927-001	BA 2532-A-1	Antimony, TCLP	7440-36-0	E444	5.58 mg/L	5 mg/L	112	50.0	140	----
		Arsenic, TCLP	7440-38-2	E444	5.4 mg/L	5 mg/L	109	50.0	140	----
		Barium, TCLP	7440-39-3	E444	13.3 mg/L	12.5 mg/L	107	50.0	140	----
		Beryllium, TCLP	7440-41-7	E444	0.261 mg/L	0.25 mg/L	104	50.0	140	----
		Boron, TCLP	7440-42-8	E444	10.6 mg/L	10 mg/L	106	50.0	140	----
		Cadmium, TCLP	7440-43-9	E444	0.260 mg/L	0.25 mg/L	104	50.0	140	----
		Calcium, TCLP	7440-70-2	E444	ND mg/L	----	ND	50.0	140	----
		Chromium, TCLP	7440-47-3	E444	1.29 mg/L	1.25 mg/L	103	50.0	140	----
		Cobalt, TCLP	7440-48-4	E444	0.257 mg/L	0.25 mg/L	103	50.0	140	----
		Copper, TCLP	7440-50-8	E444	2.45 mg/L	2.5 mg/L	97.8	50.0	140	----
		Iron, TCLP	7439-89-6	E444	253 mg/L	250 mg/L	101	50.0	140	----
		Lead, TCLP	7439-92-1	E444	10.4 mg/L	10 mg/L	104	50.0	140	----
		Magnesium, TCLP	7439-95-4	E444	260 mg/L	250 mg/L	104	50.0	140	----
		Nickel, TCLP	7440-02-0	E444	2.55 mg/L	2.5 mg/L	102	50.0	140	----
		Selenium, TCLP	7782-49-2	E444	5.49 mg/L	5 mg/L	110	50.0	140	----
		Silver, TCLP	7440-22-4	E444	0.095 mg/L	0.1 mg/L	95.3	50.0	140	----
		Thallium, TCLP	7440-28-0	E444	5.2 mg/L	5 mg/L	103	50.0	140	----
		Uranium, TCLP	7440-61-1	E444	5.37 mg/L	5 mg/L	107	50.0	150	----
		Vanadium, TCLP	7440-62-2	E444	0.79 mg/L	0.75 mg/L	106	50.0	140	----
		Zinc, TCLP	7440-66-6	E444	10.1 mg/L	10 mg/L	101	50.0	140	----
		Zirconium, TCLP	7440-67-7	E444	0.9 mg/L	1 mg/L	87.6	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:

					Reference Material (RM) Report				
					RM Target	Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Reference Material ID	Analyte	CAS Number	Method	Concentration	RM	Low	High	Qualifier
Metals (QCLot: 2161789)									
QC-2161789-003	MRCA-21	Mercury	7439-97-6	E510	0.068 mg/kg	94.1	70.0	130	----
Metals (QCLot: 2161790)									
QC-2161790-003	MRCA-21	Aluminum	7429-90-5	E440	22500 mg/kg	98.2	70.0	130	----
QC-2161790-003	MRCA-21	Antimony	7440-36-0	E440	24.8 mg/kg	88.9	70.0	130	----
QC-2161790-003	MRCA-21	Arsenic	7440-38-2	E440	21.2 mg/kg	95.1	70.0	130	----
QC-2161790-003	MRCA-21	Barium	7440-39-3	E440	788 mg/kg	93.3	70.0	130	----
QC-2161790-003	MRCA-21	Beryllium	7440-41-7	E440	1.82 mg/kg	97.5	70.0	130	----
QC-2161790-003	MRCA-21	Bismuth	7440-69-9	E440	1.78 mg/kg	78.4	70.0	130	----
QC-2161790-003	MRCA-21	Cadmium	7440-43-9	E440	2.15 mg/kg	91.8	70.0	130	----
QC-2161790-003	MRCA-21	Calcium	7440-70-2	E440	4900 mg/kg	96.6	70.0	130	----
QC-2161790-003	MRCA-21	Chromium	7440-47-3	E440	56.9 mg/kg	94.2	70.0	130	----
QC-2161790-003	MRCA-21	Cobalt	7440-48-4	E440	32 mg/kg	95.7	70.0	130	----
QC-2161790-003	MRCA-21	Copper	7440-50-8	E440	969 mg/kg	90.8	70.0	130	----
QC-2161790-003	MRCA-21	Iron	7439-89-6	E440	32700 mg/kg	96.8	70.0	130	----
QC-2161790-003	MRCA-21	Lead	7439-92-1	E440	919 mg/kg	87.7	70.0	130	----
QC-2161790-003	MRCA-21	Lithium	7439-93-2	E440	47.3 mg/kg	97.6	70.0	130	----
QC-2161790-003	MRCA-21	Magnesium	7439-95-4	E440	7780 mg/kg	102	70.0	130	----
QC-2161790-003	MRCA-21	Manganese	7439-96-5	E440	8640 mg/kg	93.0	70.0	130	----
QC-2161790-003	MRCA-21	Molybdenum	7439-98-7	E440	25.1 mg/kg	92.9	70.0	130	----
QC-2161790-003	MRCA-21	Nickel	7440-02-0	E440	1000 mg/kg	92.2	70.0	130	----
QC-2161790-003	MRCA-21	Phosphorus	7723-14-0	E440	660 mg/kg	97.2	70.0	130	----
QC-2161790-003	MRCA-21	Potassium	7440-09-7	E440	10800 mg/kg	95.6	70.0	130	----
QC-2161790-003	MRCA-21	Selenium	7782-49-2	E440	1.04 mg/kg	94.1	60.0	140	----
QC-2161790-003	MRCA-21	Silver	7440-22-4	E440	8.98 mg/kg	88.5	70.0	130	----
QC-2161790-003	MRCA-21	Sodium	7440-23-5	E440	1770 mg/kg	107	70.0	130	----
QC-2161790-003	MRCA-21	Strontium	7440-24-6	E440	41 mg/kg	99.3	70.0	130	----
QC-2161790-003	MRCA-21	Sulfur	7704-34-9	E440	3940 mg/kg	97.6	50.0	150	----
QC-2161790-003	MRCA-21	Thallium	7440-28-0	E440	0.907 mg/kg	89.1	70.0	130	----
QC-2161790-003	MRCA-21	Tin	7440-31-5	E440	3.79 mg/kg	91.0	40.0	160	----
QC-2161790-003	MRCA-21	Titanium	7440-32-6	E440	2790 mg/kg	101	70.0	130	----
QC-2161790-003	MRCA-21	Tungsten	7440-33-7	E440	6.99 mg/kg	101	70.0	130	----
QC-2161790-003	MRCA-21	Uranium	7440-61-1	E440	3.97 mg/kg	93.5	70.0	130	----
QC-2161790-003	MRCA-21	Vanadium	7440-62-2	E440	66.2 mg/kg	94.6	70.0	130	----

Sub-Matrix:

					Reference Material (RM) Report				
					RM Target	Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Reference Material ID	Analyte	CAS Number	Method	Concentration	RM	Low	High	Qualifier
Metals (QCLot: 2161790) - continued									
QC-2161790-003	MRCA-21	Zinc	7440-66-6	E440	828 mg/kg	92.6	70.0	130	----
QC-2161790-003	MRCA-21	Zirconium	7440-67-7	E440	6.91 mg/kg	106	70.0	130	----
Metals (QCLot: 2165700)									
QC-2165700-003	MRCA-21	Silver	7440-22-4	E440.Ag	8.98 mg/kg	99.8	70.0	130	----

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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 Request
			brent.kirkpatrick@metrovancouver.org	
			Sarah.Wellman@metrovancouver.org	

Invoice To	Same as Report ? Veolia Water Canada	Client / Project Information		Please indicate below Filtered, Preserved or both (F, P, F/P)
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:

Sample #	Sample Identification (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	MET-TCLP-VA (all metals, Hg)	MOISTURE		Chrome 6		MET-CSR+FULL-VA (all metals)							Number of Containers
	BA 2532-A-1	6 Aug 2025	9:00	Soil	X	X				X							1
	BA 2532-A-2	6 Aug 2025	9:00	Soil	X	X				X							1
	BA 2532-A-3	6 Aug 2025	9:00	Soil	X	X				X							1
	BA 2532-A-4	6 Aug 2025	9:00	Soil	X	X				X							1
	BA 2532-A-5	6 Aug 2025	9:00	Soil	X	X				X							1
	BA 2532-A-6	6 Aug 2025	9:00	Soil	X	X				X							1
	BA 2532-A-7	6 Aug 2025	9:00	Soil	X	X				X							1
	BA 2532-A-8	6 Aug 2025	9:00	Soil	X	X				X							1
	BA 2532-A-9	6 Aug 2025	9:00	Soil	X	X				X							1
	BA 2532-A-10	6 Aug 2025	9:00	Soil	X	X				X							1
	BA 2532-A-11	6 Aug 2025	9:00	Soil	X	X				X							1
	BA 2532-A-12	6 Aug 2025	9:00	Soil	X	X				X							1

Environmental Division
Vancouver
Work Order Reference
VA25B9927

Telephone : +1 604 253 4188

water Aquatic

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es with the Ter
numbers and

NT RELEASE (

SHIPMENT RECEPTION (lab use only)							SHIPMENT VERIFICATION (lab use only)			
Released by:	Date (dd-mmm-yy)	Time (hh-mm)	Received by:	Date:	Time:	Temperature:	Verified by:	Date:	Time:	Observations: Yes / No ? If Yes add SIF
	11/08/25	07:30		Aug 11	12PM	23 °C				

No Ice packs