Bottom Ash Data

2025 Week 21

The following analytical report represents bottom ash composite results for week 21 of 2025 (May 18, 2025 to May 24, 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	:	**VA25B2351**			
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	:	----	Date Samples Received	:	27-May-2025 13:25
C-O-C number	:	----	Date Analysis Commenced	:	28-May-2025
Sampler	:	----	Issue Date	:	03-Jun-2025 09:11
Site	:	Metro Van Ash Sampling Program			
Quote number	:	VA25-VISI100-001			
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
Kim Jensen	Department Manager - Metals	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-2521-A-1	BA-2521-A-2	BA-2521-A-3	BA-2521-A-4	BA-2521-A-5
					Client sampling date / time	21-May-2025 09:00	21-May-2025 09:00	21-May-2025 09:00	21-May-2025 09:00	21-May-2025 09:00
						VA25B2351-001	VA25B2351-002	VA25B2351-003	VA25B2351-004	VA25B2351-005
						Result	Result	Result	Result	Result
Physical Tests										
Moisture	----	E144/VA	0.25	%		26.8	25.0	26.6	26.1	26.8
pH (1:2 soil:water)	----	E108/VA	0.10	pH units		10.23	10.15	10.30	10.34	10.31
Metals										
Aluminum	7429-90-5	E440/VA	50	mg/kg		42000	40400	33100	44900	35700
Antimony	7440-36-0	E440/VA	0.10	mg/kg		120	140	120	115	130
Arsenic	7440-38-2	E440/VA	0.10	mg/kg		17.6	18.2	17.8	19.6	18.4
Barium	7440-39-3	E440/VA	0.50	mg/kg		528	589	434	442	443
Beryllium	7440-41-7	E440/VA	0.10	mg/kg		0.38	0.33	0.34	0.32	0.39
Bismuth	7440-69-9	E440/VA	0.20	mg/kg		8.67	8.40	8.90	7.94	8.12
Boron	7440-42-8	E440/VA	5.0	mg/kg		186	215	158	134	170
Cadmium	7440-43-9	E440/VA	0.020	mg/kg		9.79	7.78	13.7	7.93	7.11
Calcium	7440-70-2	E440/VA	50	mg/kg		140000	128000	134000	130000	136000
Chromium	7440-47-3	E440/VA	0.50	mg/kg		212	442	185	166	155
Cobalt	7440-48-4	E440/VA	0.10	mg/kg		112	94.3	102	148	69.3
Copper	7440-50-8	E440/VA	0.50	mg/kg		2310	6370	2310	1450	1550
Iron	7439-89-6	E440/VA	50	mg/kg		49900	60600	52700	64300	59200
Lead	7439-92-1	E440/VA	0.50	mg/kg		296	850	7280	370	356
Lithium	7439-93-2	E440/VA	2.0	mg/kg		44.5	29.0	27.8	29.8	28.3
Magnesium	7439-95-4	E440/VA	20	mg/kg		12800	13100	14400	13100	13400
Manganese	7439-96-5	E440/VA	1.0	mg/kg		955	1100	796	1230	915
Mercury	7439-97-6	E510/VA	0.0500	mg/kg		0.0610	0.0787	<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-2521-A-1	BA-2521-A-2	BA-2521-A-3	BA-2521-A-4	BA-2521-A-5
					Client sampling date / time	21-May-2025 09:00	21-May-2025 09:00	21-May-2025 09:00	21-May-2025 09:00	21-May-2025 09:00
						VA25B2351-001	VA25B2351-002	VA25B2351-003	VA25B2351-004	VA25B2351-005
						Result	Result	Result	Result	Result
Metals										
Molybdenum	7439-98-7	E440/VA	0.10	mg/kg		18.1	45.0	20.6	17.0	22.1
Nickel	7440-02-0	E440/VA	0.50	mg/kg		190	414	155	267	257
Phosphorus	7723-14-0	E440/VA	50	mg/kg		12700	11100	12200	10800	11400
Potassium	7440-09-7	E440/VA	100	mg/kg		6820	5980	5620	6540	6520
Selenium	7782-49-2	E440/VA	0.20	mg/kg		0.50	0.57	0.59	0.48	0.64
Silver	7440-22-4	E440/VA	0.10	mg/kg		5.67	22.1	8.02	4.63	5.15
Sodium	7440-23-5	E440/VA	50	mg/kg		19100	16000	15300	18700	17900
Strontium	7440-24-6	E440/VA	0.50	mg/kg		304	265	307	272	287
Sulfur	7704-34-9	E440/VA	1000	mg/kg		12200	13000	12400	12500	13300
Thallium	7440-28-0	E440/VA	0.050	mg/kg		<0.050	<0.050	0.061	<0.050	<0.050
Tin	7440-31-5	E440/VA	2.0	mg/kg		99.4	132	283	98.5	104
Titanium	7440-32-6	E440/VA	1.0	mg/kg		245	284	183	302	246
Tungsten	7440-33-7	E440/VA	0.50	mg/kg		24.1	17.7	14.8	20.8	17.0
Uranium	7440-61-1	E440/VA	0.050	mg/kg		2.20	1.98	1.94	1.84	2.14
Vanadium	7440-62-2	E440/VA	0.20	mg/kg		38.7	35.4	32.2	34.2	41.0
Zinc	7440-66-6	E440/VA	2.0	mg/kg		3840	6950	5740	3800	4060
Zirconium	7440-67-7	E440/VA	1.0	mg/kg		1.9	2.1	3.3	3.2	2.6
TCLP Metals										
pH, TCLP 1st preliminary	----	EPP444/VA	0.010	pH units		11.22	11.23	11.23	11.28	11.34
pH, TCLP 2nd preliminary	----	EPP444/VA	0.010	pH units		1.94	2.02	1.99	2.22	2.03
pH, TCLP extraction fluid initial	----	EPP444/VA	0.010	pH units		4.96	4.96	4.96	4.96	4.96

Analytical Results

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

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BA-2521-A-1	BA-2521-A-2	BA-2521-A-3	BA-2521-A-4	BA-2521-A-5
					Client sampling date / time	21-May-2025 09:00	21-May-2025 09:00	21-May-2025 09:00	21-May-2025 09:00	21-May-2025 09:00
						VA25B2351-001	VA25B2351-002	VA25B2351-003	VA25B2351-004	VA25B2351-005
						Result	Result	Result	Result	Result
TCLP Metals										
pH, TCLP final	----	EPP444/VA	0.010	pH units		9.65	9.54	9.72	9.68	10.02
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		0.69	0.74	0.71	0.70	0.71
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		744	767	761	752	769
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		0.799	0.728	0.763	0.733	0.788
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		3.8	6.5	5.1	5.9	3.2
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	BA-2521-A-1	BA-2521-A-2	BA-2521-A-3	BA-2521-A-4	BA-2521-A-5
Client sample ID									
Client sampling date / time					21-May-2025 09:00	21-May-2025 09:00	21-May-2025 09:00	21-May-2025 09:00	21-May-2025 09:00
					VA25B2351-001	VA25B2351-002	VA25B2351-003	VA25B2351-004	VA25B2351-005
					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	BA-2521-A-6	BA-2521-A-7	BA-2521-A-8	BA-2521-A-9	BA-2521-A-10
Client sample ID									
Client sampling date / time					21-May-2025 09:00	21-May-2025 09:00	21-May-2025 09:00	21-May-2025 09:00	21-May-2025 09:00
					VA25B2351-006	VA25B2351-007	VA25B2351-008	VA25B2351-009	VA25B2351-010
					Result	Result	Result	Result	Result
Physical Tests									
Moisture	----	E144/VA	0.25	%	25.8	25.7	24.6	26.0	25.2
pH (1:2 soil:water)	----	E108/VA	0.10	pH units	10.30	10.33	10.33	10.33	10.28
Metals									
Aluminum	7429-90-5	E440/VA	50	mg/kg	33000	42200	56900	35000	36800
Antimony	7440-36-0	E440/VA	0.10	mg/kg	138	98.0	112	121	112
Arsenic	7440-38-2	E440/VA	0.10	mg/kg	18.4	15.0	22.3	24.5	18.3
Barium	7440-39-3	E440/VA	0.50	mg/kg	485	565	622	494	491
Beryllium	7440-41-7	E440/VA	0.10	mg/kg	0.35	0.31	0.33	1.34	0.31
Bismuth	7440-69-9	E440/VA	0.20	mg/kg	10.4	8.29	7.36	8.70	13.0
Boron	7440-42-8	E440/VA	5.0	mg/kg	159	175	294	142	176
Cadmium	7440-43-9	E440/VA	0.020	mg/kg	9.23	7.20	6.89	8.42	10.7
Calcium	7440-70-2	E440/VA	50	mg/kg	135000	120000	131000	124000	130000

Analytical Results

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

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BA-2521-A-6	BA-2521-A-7	BA-2521-A-8	BA-2521-A-9	BA-2521-A-10
					Client sampling date / time	21-May-2025 09:00	21-May-2025 09:00	21-May-2025 09:00	21-May-2025 09:00	21-May-2025 09:00
						VA25B2351-006	VA25B2351-007	VA25B2351-008	VA25B2351-009	VA25B2351-010
						Result	Result	Result	Result	Result
Metals										
Chromium	7440-47-3	E440/VA	0.50	mg/kg		176	300	204	612	177
Cobalt	7440-48-4	E440/VA	0.10	mg/kg		103	88.6	174	75.4	44.5
Copper	7440-50-8	E440/VA	0.50	mg/kg		12500	2320	2170	15600	5710
Iron	7439-89-6	E440/VA	50	mg/kg		48300	67500	57600	68500	64100
Lead	7439-92-1	E440/VA	0.50	mg/kg		1000	817	2320	1120	460
Lithium	7439-93-2	E440/VA	2.0	mg/kg		38.6	25.8	30.9	28.1	27.3
Magnesium	7439-95-4	E440/VA	20	mg/kg		13300	12300	12600	13900	13600
Manganese	7439-96-5	E440/VA	1.0	mg/kg		1140	909	1090	999	904
Mercury	7439-97-6	E510/VA	0.0500	mg/kg		0.0512	<0.0500	<0.0500	<0.0500	0.0918
Molybdenum	7439-98-7	E440/VA	0.10	mg/kg		17.0	19.9	17.0	19.8	16.9
Nickel	7440-02-0	E440/VA	0.50	mg/kg		234	207	209	571	164
Phosphorus	7723-14-0	E440/VA	50	mg/kg		11600	9980	11000	10800	12000
Potassium	7440-09-7	E440/VA	100	mg/kg		6040	5380	5380	5610	5680
Selenium	7782-49-2	E440/VA	0.20	mg/kg		0.59	0.48	0.54	0.53	0.78
Silver	7440-22-4	E440.Ag/VA	0.10	mg/kg		----	----	----	4.89	----
Silver	7440-22-4	E440/VA	0.10	mg/kg		7.68	5.62	5.32	----	9.84
Sodium	7440-23-5	E440/VA	50	mg/kg		15900	16200	16200	15200	16300
Strontium	7440-24-6	E440/VA	0.50	mg/kg		364	277	292	309	265
Sulfur	7704-34-9	E440/VA	1000	mg/kg		13300	11200	12000	12000	16900
Thallium	7440-28-0	E440/VA	0.050	mg/kg		<0.050	<0.050	<0.050	0.064	<0.050
Tin	7440-31-5	E440/VA	2.0	mg/kg		125	121	114	146	105

Analytical Results

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

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BA-2521-A-6	BA-2521-A-7	BA-2521-A-8	BA-2521-A-9	BA-2521-A-10
					Client sampling date / time	21-May-2025 09:00	21-May-2025 09:00	21-May-2025 09:00	21-May-2025 09:00	21-May-2025 09:00
						VA25B2351-006	VA25B2351-007	VA25B2351-008	VA25B2351-009	VA25B2351-010
						Result	Result	Result	Result	Result
Metals										
Titanium	7440-32-6	E440/VA	1.0	mg/kg		216	234	364	228	207
Tungsten	7440-33-7	E440/VA	0.50	mg/kg		15.6	13.1	13.4	19.5	12.9
Uranium	7440-61-1	E440/VA	0.050	mg/kg		2.06	1.72	1.90	1.81	1.97
Vanadium	7440-62-2	E440/VA	0.20	mg/kg		32.4	31.6	32.5	32.7	36.9
Zinc	7440-66-6	E440/VA	2.0	mg/kg		4240	3240	4100	14000	4310
Zirconium	7440-67-7	E440/VA	1.0	mg/kg		3.0	5.0	4.0	2.8	3.2
TCLP Metals										
pH, TCLP 1st preliminary	----	EPP444/VA	0.010	pH units		11.33	11.27	11.29	11.30	11.26
pH, TCLP 2nd preliminary	----	EPP444/VA	0.010	pH units		2.00	2.07	2.15	2.06	2.42
pH, TCLP extraction fluid initial	----	EPP444/VA	0.010	pH units		4.96	4.96	4.96	4.96	4.96
pH, TCLP final	----	EPP444/VA	0.010	pH units		9.56	9.95	9.54	9.78	9.90
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		0.76	0.71	0.73	0.74	0.72
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		731	755	797	785	798
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		0.768	0.818	0.793	0.707	0.793

Analytical Results

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

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BA-2521-A-6	BA-2521-A-7	BA-2521-A-8	BA-2521-A-9	BA-2521-A-10
					Client sampling date / time	21-May-2025 09:00	21-May-2025 09:00	21-May-2025 09:00	21-May-2025 09:00	21-May-2025 09:00
						VA25B2351-006	VA25B2351-007	VA25B2351-008	VA25B2351-009	VA25B2351-010
						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		5.3	3.1	4.4	5.9	3.8
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-2521-A-11	BA-2521-A-12	----	----	----
					Client sampling date / time	21-May-2025 09:00	21-May-2025 09:00	----	----	----
						VA25B2351-011	VA25B2351-012	----	----	----
						Result	Result	----	----	----
Physical Tests										
Moisture	----	E144/VA	0.25	%		25.8	25.7	----	----	----
pH (1:2 soil:water)	----	E108/VA	0.10	pH units		10.43	10.36	----	----	----

Analytical Results

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

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BA-2521-A-11	BA-2521-A-12	----	----	----
					Client sampling date / time	21-May-2025 09:00	21-May-2025 09:00	----	----	----
						VA25B2351-011	VA25B2351-012	----	----	----
						Result	Result	----	----	----
Metals										
Aluminum	7429-90-5	E440/VA	50	mg/kg		32500	33300	----	----	----
Antimony	7440-36-0	E440/VA	0.10	mg/kg		138	128	----	----	----
Arsenic	7440-38-2	E440/VA	0.10	mg/kg		19.2	19.9	----	----	----
Barium	7440-39-3	E440/VA	0.50	mg/kg		534	419	----	----	----
Beryllium	7440-41-7	E440/VA	0.10	mg/kg		0.32	0.33	----	----	----
Bismuth	7440-69-9	E440/VA	0.20	mg/kg		10.9	9.54	----	----	----
Boron	7440-42-8	E440/VA	5.0	mg/kg		170	151	----	----	----
Cadmium	7440-43-9	E440/VA	0.020	mg/kg		9.58	9.50	----	----	----
Calcium	7440-70-2	E440/VA	50	mg/kg		139000	141000	----	----	----
Chromium	7440-47-3	E440/VA	0.50	mg/kg		191	214	----	----	----
Cobalt	7440-48-4	E440/VA	0.10	mg/kg		136	580	----	----	----
Copper	7440-50-8	E440/VA	0.50	mg/kg		3460	2190	----	----	----
Iron	7439-89-6	E440/VA	50	mg/kg		56600	54300	----	----	----
Lead	7439-92-1	E440/VA	0.50	mg/kg		964	609	----	----	----
Lithium	7439-93-2	E440/VA	2.0	mg/kg		27.6	30.2	----	----	----
Magnesium	7439-95-4	E440/VA	20	mg/kg		13800	13400	----	----	----
Manganese	7439-96-5	E440/VA	1.0	mg/kg		831	813	----	----	----
Mercury	7439-97-6	E510/VA	0.0500	mg/kg		<0.0500	<0.0500	----	----	----
Molybdenum	7439-98-7	E440/VA	0.10	mg/kg		19.3	23.0	----	----	----
Nickel	7440-02-0	E440/VA	0.50	mg/kg		523	206	----	----	----
Phosphorus	7723-14-0	E440/VA	50	mg/kg		13100	13100	----	----	----

Analytical Results

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

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BA-2521-A-11	BA-2521-A-12	----	----	----
					Client sampling date / time	21-May-2025 09:00	21-May-2025 09:00	----	----	----
						VA25B2351-011	VA25B2351-012	----	----	----
						Result	Result	----	----	----
Metals										
Potassium	7440-09-7	E440/VA	100	mg/kg		5630	5960	----	----	----
Selenium	7782-49-2	E440/VA	0.20	mg/kg		0.67	0.56	----	----	----
Silver	7440-22-4	E440/VA	0.10	mg/kg		5.95	5.06	----	----	----
Sodium	7440-23-5	E440/VA	50	mg/kg		15300	15600	----	----	----
Strontium	7440-24-6	E440/VA	0.50	mg/kg		289	312	----	----	----
Sulfur	7704-34-9	E440/VA	1000	mg/kg		13900	13400	----	----	----
Thallium	7440-28-0	E440/VA	0.050	mg/kg		<0.050	<0.050	----	----	----
Tin	7440-31-5	E440/VA	2.0	mg/kg		123	121	----	----	----
Titanium	7440-32-6	E440/VA	1.0	mg/kg		191	220	----	----	----
Tungsten	7440-33-7	E440/VA	0.50	mg/kg		242	18.4	----	----	----
Uranium	7440-61-1	E440/VA	0.050	mg/kg		2.03	2.25	----	----	----
Vanadium	7440-62-2	E440/VA	0.20	mg/kg		31.8	35.1	----	----	----
Zinc	7440-66-6	E440/VA	2.0	mg/kg		4060	5500	----	----	----
Zirconium	7440-67-7	E440/VA	1.0	mg/kg		2.0	2.5	----	----	----
TCLP Metals										
pH, TCLP 1st preliminary	----	EPP444/VA	0.010	pH units		11.29	11.25	----	----	----
pH, TCLP 2nd preliminary	----	EPP444/VA	0.010	pH units		2.31	2.10	----	----	----
pH, TCLP extraction fluid initial	----	EPP444/VA	0.010	pH units		4.96	4.96	----	----	----
pH, TCLP final	----	EPP444/VA	0.010	pH units		9.97	9.91	----	----	----
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-2521-A-11	BA-2521-A-12	----	----	----
					Client sampling date / time	21-May-2025 09:00	21-May-2025 09:00	----	----	----
						VA25B2351-011	VA25B2351-012	----	----	----
						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		0.69	0.75	----	----	----
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		748	790	----	----	----
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		0.809	0.742	----	----	----
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		4.0	4.4	----	----	----
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	: **VA25B2351**	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	: 27-May-2025 13:25
PO	: ----	Date Analysis Commenced	: 28-May-2025
C-O-C number	: ----	Issue Date	: 03-Jun-2025 09:11
Sampler	: ----		
Site	: Metro Van Ash Sampling Program		
Quote number	: VA25-VISI100-001		
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
Kim Jensen	Department Manager - Metals	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

VA25B2351-001

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

Client sample ID: BA-2521-A-1
Client sampling date / time: 21-May-2025 09:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests								
Moisture	----	26.8	0.25	%	E144/VA	-	30-May-2025	2024983
pH (1:2 soil:water)	----	10.23	0.10	pH units	E108/VA	31-May-2025	31-May-2025	2024979
Metals								
Aluminum	7429-90-5	42000	50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Antimony	7440-36-0	120	0.10	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Arsenic	7440-38-2	17.6	0.10	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Barium	7440-39-3	528	0.50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Beryllium	7440-41-7	0.38	0.10	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Bismuth	7440-69-9	8.67	0.20	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Boron	7440-42-8	186	5.0	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Cadmium	7440-43-9	9.79	0.020	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Calcium	7440-70-2	140000	50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Chromium	7440-47-3	212	0.50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Cobalt	7440-48-4	112	0.10	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Copper	7440-50-8	2310	0.50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Iron	7439-89-6	49900	50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Lead	7439-92-1	296	0.50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Lithium	7439-93-2	44.5	2.0	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Magnesium	7439-95-4	12800	20	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Manganese	7439-96-5	955	1.0	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Mercury	7439-97-6	0.0610	0.0500	mg/kg	E510/VA	31-May-2025	31-May-2025	2024980
Molybdenum	7439-98-7	18.1	0.10	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Nickel	7440-02-0	190	0.50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Phosphorus	7723-14-0	12700	50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Potassium	7440-09-7	6820	100	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Selenium	7782-49-2	0.50	0.20	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Silver	7440-22-4	5.67	0.10	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Sodium	7440-23-5	19100	50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Strontium	7440-24-6	304	0.50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Sulfur	7704-34-9	12200	1000	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Thallium	7440-28-0	<0.050	0.050	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Tin	7440-31-5	99.4	2.0	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Titanium	7440-32-6	245	1.0	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Tungsten	7440-33-7	24.1	0.50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Uranium	7440-61-1	2.20	0.050	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Vanadium	7440-62-2	38.7	0.20	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Zinc	7440-66-6	3840	2.0	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Zirconium	7440-67-7	1.9	1.0	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
TCLP Metals								
pH, TCLP 1st preliminary	----	11.22	0.010	pH units	EPP444/VA	-	28-May-2025	-
pH, TCLP 2nd preliminary	----	1.94	0.010	pH units	EPP444/VA	-	28-May-2025	-
pH, TCLP extraction fluid initial	----	4.96	0.010	pH units	EPP444/VA	-	28-May-2025	-
pH, TCLP final	----	9.65	0.010	pH units	EPP444/VA	-	28-May-2025	-
Antimony, TCLP	7440-36-0	<1.00	1.00	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Arsenic, TCLP	7440-38-2	<1.0	1.0	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990

Analytical Results

VA25B2351-001

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

Client sample ID: BA-2521-A-1
Client sampling date / time: 21-May-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	31-May-2025	01-Jun-2025	2025990
Beryllium, TCLP	7440-41-7	<0.025	0.025	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Boron, TCLP	7440-42-8	0.69	0.50	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Cadmium, TCLP	7440-43-9	<0.050	0.050	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Calcium, TCLP	7440-70-2	744	10	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Chromium, TCLP	7440-47-3	<0.25	0.25	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Cobalt, TCLP	7440-48-4	<0.050	0.050	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Copper, TCLP	7440-50-8	0.799	0.050	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Iron, TCLP	7439-89-6	<5.0	5.0	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Lead, TCLP	7439-92-1	<0.25	0.25	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Magnesium, TCLP	7439-95-4	3.8	2.5	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Mercury, TCLP	7439-97-6	<0.0010	0.0010	mg/L	E512/VA	31-May-2025	31-May-2025	2025432
Nickel, TCLP	7440-02-0	<0.25	0.25	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Selenium, TCLP	7782-49-2	<0.10	0.10	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Silver, TCLP	7440-22-4	<0.050	0.050	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Thallium, TCLP	7440-28-0	<1.0	1.0	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Uranium, TCLP	7440-61-1	<0.20	0.20	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Vanadium, TCLP	7440-62-2	<0.15	0.15	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Zinc, TCLP	7440-66-6	<0.50	0.50	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Zirconium, TCLP	7440-67-7	<10	10	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990

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

Analytical Results

VA25B2351-002

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

Client sample ID: BA-2521-A-2
Client sampling date / time: 21-May-2025 09:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests								
Moisture	----	25.0	0.25	%	E144/VA	-	30-May-2025	2024983
pH (1:2 soil:water)	----	10.15	0.10	pH units	E108/VA	31-May-2025	31-May-2025	2024979
Metals								
Aluminum	7429-90-5	40400	50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Antimony	7440-36-0	140	0.10	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Arsenic	7440-38-2	18.2	0.10	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Barium	7440-39-3	589	0.50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Beryllium	7440-41-7	0.33	0.10	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Bismuth	7440-69-9	8.40	0.20	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Boron	7440-42-8	215	5.0	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Cadmium	7440-43-9	7.78	0.020	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Calcium	7440-70-2	128000	50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Chromium	7440-47-3	442	0.50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Cobalt	7440-48-4	94.3	0.10	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Copper	7440-50-8	6370	0.50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981

Analytical Results

VA25B2351-002

Sub-Matrix:**Soil**

(Matrix: **Soil/Solid**)

Client sample ID: BA-2521-A-2

Client sampling date / time: 21-May-2025 09:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Metals								
Iron	7439-89-6	60600	50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Lead	7439-92-1	850	0.50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Lithium	7439-93-2	29.0	2.0	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Magnesium	7439-95-4	13100	20	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Manganese	7439-96-5	1100	1.0	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Mercury	7439-97-6	0.0787	0.0500	mg/kg	E510/VA	31-May-2025	31-May-2025	2024980
Molybdenum	7439-98-7	45.0	0.10	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Nickel	7440-02-0	414	0.50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Phosphorus	7723-14-0	11100	50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Potassium	7440-09-7	5980	100	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Selenium	7782-49-2	0.57	0.20	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Silver	7440-22-4	22.1	0.10	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Sodium	7440-23-5	16000	50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Strontium	7440-24-6	265	0.50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Sulfur	7704-34-9	13000	1000	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Thallium	7440-28-0	<0.050	0.050	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Tin	7440-31-5	132	2.0	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Titanium	7440-32-6	284	1.0	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Tungsten	7440-33-7	17.7	0.50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Uranium	7440-61-1	1.98	0.050	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Vanadium	7440-62-2	35.4	0.20	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Zinc	7440-66-6	6950	2.0	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Zirconium	7440-67-7	2.1	1.0	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
TCLP Metals								
pH, TCLP 1st preliminary	----	11.23	0.010	pH units	EPP444/VA	-	28-May-2025	-
pH, TCLP 2nd preliminary	----	2.02	0.010	pH units	EPP444/VA	-	28-May-2025	-
pH, TCLP extraction fluid initial	----	4.96	0.010	pH units	EPP444/VA	-	28-May-2025	-
pH, TCLP final	----	9.54	0.010	pH units	EPP444/VA	-	28-May-2025	-
Antimony, TCLP	7440-36-0	<1.00	1.00	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Arsenic, TCLP	7440-38-2	<1.0	1.0	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Barium, TCLP	7440-39-3	<2.5	2.5	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Beryllium, TCLP	7440-41-7	<0.025	0.025	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Boron, TCLP	7440-42-8	0.74	0.50	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Cadmium, TCLP	7440-43-9	<0.050	0.050	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Calcium, TCLP	7440-70-2	767	10	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Chromium, TCLP	7440-47-3	<0.25	0.25	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Cobalt, TCLP	7440-48-4	<0.050	0.050	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Copper, TCLP	7440-50-8	0.728	0.050	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Iron, TCLP	7439-89-6	<5.0	5.0	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Lead, TCLP	7439-92-1	<0.25	0.25	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Magnesium, TCLP	7439-95-4	6.5	2.5	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Mercury, TCLP	7439-97-6	<0.0010	0.0010	mg/L	E512/VA	31-May-2025	31-May-2025	2025432
Nickel, TCLP	7440-02-0	<0.25	0.25	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Selenium, TCLP	7782-49-2	<0.10	0.10	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Silver, TCLP	7440-22-4	<0.050	0.050	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990

Analytical Results

VA25B2351-002

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

Client sample ID: BA-2521-A-2
Client sampling date / time: 21-May-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	31-May-2025	01-Jun-2025	2025990
Uranium, TCLP	7440-61-1	<0.20	0.20	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Vanadium, TCLP	7440-62-2	<0.15	0.15	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Zinc, TCLP	7440-66-6	<0.50	0.50	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Zirconium, TCLP	7440-67-7	<10	10	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990

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

Analytical Results

VA25B2351-003

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

Client sample ID: BA-2521-A-3
Client sampling date / time: 21-May-2025 09:00

Analyte	*CAS Number*	*Result*	*LOR*	*Unit*	*Method/Lab*	*Prep Date*	*Analysis Date*	*QCLot*
Physical Tests								
Moisture	----	26.6	0.25	%	E144/VA	-	30-May-2025	2024983
pH (1:2 soil:water)	----	10.30	0.10	pH units	E108/VA	31-May-2025	31-May-2025	2024979
Metals								
Aluminum	7429-90-5	33100	50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Antimony	7440-36-0	120	0.10	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Arsenic	7440-38-2	17.8	0.10	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Barium	7440-39-3	434	0.50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Beryllium	7440-41-7	0.34	0.10	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Bismuth	7440-69-9	8.90	0.20	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Boron	7440-42-8	158	5.0	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Cadmium	7440-43-9	13.7	0.020	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Calcium	7440-70-2	134000	50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Chromium	7440-47-3	185	0.50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Cobalt	7440-48-4	102	0.10	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Copper	7440-50-8	2310	0.50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Iron	7439-89-6	52700	50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Lead	7439-92-1	7280	0.50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Lithium	7439-93-2	27.8	2.0	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Magnesium	7439-95-4	14400	20	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Manganese	7439-96-5	796	1.0	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Mercury	7439-97-6	<0.0500	0.0500	mg/kg	E510/VA	31-May-2025	31-May-2025	2024980
Molybdenum	7439-98-7	20.6	0.10	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Nickel	7440-02-0	155	0.50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Phosphorus	7723-14-0	12200	50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Potassium	7440-09-7	5620	100	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Selenium	7782-49-2	0.59	0.20	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Silver	7440-22-4	8.02	0.10	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Sodium	7440-23-5	15300	50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Strontium	7440-24-6	307	0.50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Sulfur	7704-34-9	12400	1000	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981

Analytical Results

VA25B2351-003

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

Client sample ID: BA-2521-A-3
Client sampling date / time: 21-May-2025 09:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Metals								
Thallium	7440-28-0	0.061	0.050	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Tin	7440-31-5	283	2.0	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Titanium	7440-32-6	183	1.0	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Tungsten	7440-33-7	14.8	0.50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Uranium	7440-61-1	1.94	0.050	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Vanadium	7440-62-2	32.2	0.20	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Zinc	7440-66-6	5740	2.0	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Zirconium	7440-67-7	3.3	1.0	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
TCLP Metals								
pH, TCLP 1st preliminary	----	11.23	0.010	pH units	EPP444/VA	-	28-May-2025	-
pH, TCLP 2nd preliminary	----	1.99	0.010	pH units	EPP444/VA	-	28-May-2025	-
pH, TCLP extraction fluid initial	----	4.96	0.010	pH units	EPP444/VA	-	28-May-2025	-
pH, TCLP final	----	9.72	0.010	pH units	EPP444/VA	-	28-May-2025	-
Antimony, TCLP	7440-36-0	<1.00	1.00	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Arsenic, TCLP	7440-38-2	<1.0	1.0	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Barium, TCLP	7440-39-3	<2.5	2.5	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Beryllium, TCLP	7440-41-7	<0.025	0.025	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Boron, TCLP	7440-42-8	0.71	0.50	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Cadmium, TCLP	7440-43-9	<0.050	0.050	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Calcium, TCLP	7440-70-2	761	10	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Chromium, TCLP	7440-47-3	<0.25	0.25	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Cobalt, TCLP	7440-48-4	<0.050	0.050	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Copper, TCLP	7440-50-8	0.763	0.050	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Iron, TCLP	7439-89-6	<5.0	5.0	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Lead, TCLP	7439-92-1	<0.25	0.25	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Magnesium, TCLP	7439-95-4	5.1	2.5	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Mercury, TCLP	7439-97-6	<0.0010	0.0010	mg/L	E512/VA	31-May-2025	31-May-2025	2025432
Nickel, TCLP	7440-02-0	<0.25	0.25	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Selenium, TCLP	7782-49-2	<0.10	0.10	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Silver, TCLP	7440-22-4	<0.050	0.050	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Thallium, TCLP	7440-28-0	<1.0	1.0	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Uranium, TCLP	7440-61-1	<0.20	0.20	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Vanadium, TCLP	7440-62-2	<0.15	0.15	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Zinc, TCLP	7440-66-6	<0.50	0.50	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Zirconium, TCLP	7440-67-7	<10	10	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990

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

Analytical Results

VA25B2351-004

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

Client sample ID: BA-2521-A-4
Client sampling date / time: 21-May-2025 09:00

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

Analytical Results

VA25B2351-004

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

Client sample ID: BA-2521-A-4
Client sampling date / time: 21-May-2025 09:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests								
Moisture	----	26.1	0.25	%	E144/VA	-	30-May-2025	2024983
pH (1:2 soil:water)	----	10.34	0.10	pH units	E108/VA	31-May-2025	31-May-2025	2024979
Metals								
Aluminum	7429-90-5	44900	50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Antimony	7440-36-0	115	0.10	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Arsenic	7440-38-2	19.6	0.10	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Barium	7440-39-3	442	0.50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Beryllium	7440-41-7	0.32	0.10	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Bismuth	7440-69-9	7.94	0.20	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Boron	7440-42-8	134	5.0	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Cadmium	7440-43-9	7.93	0.020	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Calcium	7440-70-2	130000	50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Chromium	7440-47-3	166	0.50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Cobalt	7440-48-4	148	0.10	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Copper	7440-50-8	1450	0.50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Iron	7439-89-6	64300	50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Lead	7439-92-1	370	0.50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Lithium	7439-93-2	29.8	2.0	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Magnesium	7439-95-4	13100	20	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Manganese	7439-96-5	1230	1.0	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Mercury	7439-97-6	<0.0500	0.0500	mg/kg	E510/VA	31-May-2025	31-May-2025	2024980
Molybdenum	7439-98-7	17.0	0.10	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Nickel	7440-02-0	267	0.50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Phosphorus	7723-14-0	10800	50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Potassium	7440-09-7	6540	100	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Selenium	7782-49-2	0.48	0.20	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Silver	7440-22-4	4.63	0.10	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Sodium	7440-23-5	18700	50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Strontium	7440-24-6	272	0.50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Sulfur	7704-34-9	12500	1000	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Thallium	7440-28-0	<0.050	0.050	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Tin	7440-31-5	98.5	2.0	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Titanium	7440-32-6	302	1.0	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Tungsten	7440-33-7	20.8	0.50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Uranium	7440-61-1	1.84	0.050	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Vanadium	7440-62-2	34.2	0.20	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Zinc	7440-66-6	3800	2.0	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Zirconium	7440-67-7	3.2	1.0	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
TCLP Metals								
pH, TCLP 1st preliminary	----	11.28	0.010	pH units	EPP444/VA	-	28-May-2025	-
pH, TCLP 2nd preliminary	----	2.22	0.010	pH units	EPP444/VA	-	28-May-2025	-
pH, TCLP extraction fluid initial	----	4.96	0.010	pH units	EPP444/VA	-	28-May-2025	-
pH, TCLP final	----	9.68	0.010	pH units	EPP444/VA	-	28-May-2025	-
Antimony, TCLP	7440-36-0	<1.00	1.00	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Arsenic, TCLP	7440-38-2	<1.0	1.0	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990

Analytical Results

VA25B2351-004

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

Client sample ID: BA-2521-A-4
Client sampling date / time: 21-May-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	31-May-2025	01-Jun-2025	2025990
Beryllium, TCLP	7440-41-7	<0.025	0.025	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Boron, TCLP	7440-42-8	0.70	0.50	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Cadmium, TCLP	7440-43-9	<0.050	0.050	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Calcium, TCLP	7440-70-2	752	10	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Chromium, TCLP	7440-47-3	<0.25	0.25	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Cobalt, TCLP	7440-48-4	<0.050	0.050	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Copper, TCLP	7440-50-8	0.733	0.050	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Iron, TCLP	7439-89-6	<5.0	5.0	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Lead, TCLP	7439-92-1	<0.25	0.25	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Magnesium, TCLP	7439-95-4	5.9	2.5	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Mercury, TCLP	7439-97-6	<0.0010	0.0010	mg/L	E512/VA	31-May-2025	31-May-2025	2025432
Nickel, TCLP	7440-02-0	<0.25	0.25	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Selenium, TCLP	7782-49-2	<0.10	0.10	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Silver, TCLP	7440-22-4	<0.050	0.050	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Thallium, TCLP	7440-28-0	<1.0	1.0	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Uranium, TCLP	7440-61-1	<0.20	0.20	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Vanadium, TCLP	7440-62-2	<0.15	0.15	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Zinc, TCLP	7440-66-6	<0.50	0.50	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Zirconium, TCLP	7440-67-7	<10	10	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990

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

Analytical Results

VA25B2351-005

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

Client sample ID: BA-2521-A-5
Client sampling date / time: 21-May-2025 09:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests								
Moisture	----	26.8	0.25	%	E144/VA	-	30-May-2025	2024983
pH (1:2 soil:water)	----	10.31	0.10	pH units	E108/VA	31-May-2025	31-May-2025	2024979
Metals								
Aluminum	7429-90-5	35700	50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Antimony	7440-36-0	130	0.10	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Arsenic	7440-38-2	18.4	0.10	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Barium	7440-39-3	443	0.50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Beryllium	7440-41-7	0.39	0.10	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Bismuth	7440-69-9	8.12	0.20	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Boron	7440-42-8	170	5.0	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Cadmium	7440-43-9	7.11	0.020	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Calcium	7440-70-2	136000	50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Chromium	7440-47-3	155	0.50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Cobalt	7440-48-4	69.3	0.10	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Copper	7440-50-8	1550	0.50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981

Analytical Results

VA25B2351-005

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

Client sample ID: BA-2521-A-5
Client sampling date / time: 21-May-2025 09:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Metals								
Iron	7439-89-6	59200	50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Lead	7439-92-1	356	0.50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Lithium	7439-93-2	28.3	2.0	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Magnesium	7439-95-4	13400	20	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Manganese	7439-96-5	915	1.0	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Mercury	7439-97-6	<0.0500	0.0500	mg/kg	E510/VA	31-May-2025	31-May-2025	2024980
Molybdenum	7439-98-7	22.1	0.10	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Nickel	7440-02-0	257	0.50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Phosphorus	7723-14-0	11400	50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Potassium	7440-09-7	6520	100	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Selenium	7782-49-2	0.64	0.20	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Silver	7440-22-4	5.15	0.10	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Sodium	7440-23-5	17900	50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Strontium	7440-24-6	287	0.50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Sulfur	7704-34-9	13300	1000	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Thallium	7440-28-0	<0.050	0.050	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Tin	7440-31-5	104	2.0	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Titanium	7440-32-6	246	1.0	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Tungsten	7440-33-7	17.0	0.50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Uranium	7440-61-1	2.14	0.050	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Vanadium	7440-62-2	41.0	0.20	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Zinc	7440-66-6	4060	2.0	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Zirconium	7440-67-7	2.6	1.0	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
TCLP Metals								
pH, TCLP 1st preliminary	----	11.34	0.010	pH units	EPP444/VA	-	28-May-2025	-
pH, TCLP 2nd preliminary	----	2.03	0.010	pH units	EPP444/VA	-	28-May-2025	-
pH, TCLP extraction fluid initial	----	4.96	0.010	pH units	EPP444/VA	-	28-May-2025	-
pH, TCLP final	----	10.02	0.010	pH units	EPP444/VA	-	28-May-2025	-
Antimony, TCLP	7440-36-0	<1.00	1.00	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Arsenic, TCLP	7440-38-2	<1.0	1.0	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Barium, TCLP	7440-39-3	<2.5	2.5	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Beryllium, TCLP	7440-41-7	<0.025	0.025	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Boron, TCLP	7440-42-8	0.71	0.50	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Cadmium, TCLP	7440-43-9	<0.050	0.050	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Calcium, TCLP	7440-70-2	769	10	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Chromium, TCLP	7440-47-3	<0.25	0.25	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Cobalt, TCLP	7440-48-4	<0.050	0.050	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Copper, TCLP	7440-50-8	0.788	0.050	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Iron, TCLP	7439-89-6	<5.0	5.0	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Lead, TCLP	7439-92-1	<0.25	0.25	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Magnesium, TCLP	7439-95-4	3.2	2.5	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Mercury, TCLP	7439-97-6	<0.0010	0.0010	mg/L	E512/VA	31-May-2025	31-May-2025	2025432
Nickel, TCLP	7440-02-0	<0.25	0.25	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Selenium, TCLP	7782-49-2	<0.10	0.10	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Silver, TCLP	7440-22-4	<0.050	0.050	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990

Analytical Results

VA25B2351-005

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

Client sample ID: BA-2521-A-5
Client sampling date / time: 21-May-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	31-May-2025	01-Jun-2025	2025990
Uranium, TCLP	7440-61-1	<0.20	0.20	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Vanadium, TCLP	7440-62-2	<0.15	0.15	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Zinc, TCLP	7440-66-6	<0.50	0.50	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Zirconium, TCLP	7440-67-7	<10	10	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990

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

Analytical Results

VA25B2351-006

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

Client sample ID: BA-2521-A-6
Client sampling date / time: 21-May-2025 09:00

Analyte	*CAS Number*	*Result*	*LOR*	*Unit*	*Method/Lab*	*Prep Date*	*Analysis Date*	*QCLot*
Physical Tests								
Moisture	----	25.8	0.25	%	E144/VA	-	30-May-2025	2024983
pH (1:2 soil:water)	----	10.30	0.10	pH units	E108/VA	31-May-2025	31-May-2025	2024979
Metals								
Aluminum	7429-90-5	33000	50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Antimony	7440-36-0	138	0.10	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Arsenic	7440-38-2	18.4	0.10	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Barium	7440-39-3	485	0.50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Beryllium	7440-41-7	0.35	0.10	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Bismuth	7440-69-9	10.4	0.20	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Boron	7440-42-8	159	5.0	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Cadmium	7440-43-9	9.23	0.020	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Calcium	7440-70-2	135000	50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Chromium	7440-47-3	176	0.50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Cobalt	7440-48-4	103	0.10	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Copper	7440-50-8	12500	0.50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Iron	7439-89-6	48300	50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Lead	7439-92-1	1000	0.50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Lithium	7439-93-2	38.6	2.0	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Magnesium	7439-95-4	13300	20	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Manganese	7439-96-5	1140	1.0	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Mercury	7439-97-6	0.0512	0.0500	mg/kg	E510/VA	31-May-2025	31-May-2025	2024980
Molybdenum	7439-98-7	17.0	0.10	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Nickel	7440-02-0	234	0.50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Phosphorus	7723-14-0	11600	50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Potassium	7440-09-7	6040	100	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Selenium	7782-49-2	0.59	0.20	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Silver	7440-22-4	7.68	0.10	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Sodium	7440-23-5	15900	50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Strontium	7440-24-6	364	0.50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Sulfur	7704-34-9	13300	1000	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981

Analytical Results

VA25B2351-006

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

Client sample ID: BA-2521-A-6
Client sampling date / time: 21-May-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	31-May-2025	01-Jun-2025	2024981
Tin	7440-31-5	125	2.0	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Titanium	7440-32-6	216	1.0	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Tungsten	7440-33-7	15.6	0.50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Uranium	7440-61-1	2.06	0.050	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Vanadium	7440-62-2	32.4	0.20	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Zinc	7440-66-6	4240	2.0	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Zirconium	7440-67-7	3.0	1.0	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
TCLP Metals								
pH, TCLP 1st preliminary	----	11.33	0.010	pH units	EPP444/VA	-	28-May-2025	-
pH, TCLP 2nd preliminary	----	2.00	0.010	pH units	EPP444/VA	-	28-May-2025	-
pH, TCLP extraction fluid initial	----	4.96	0.010	pH units	EPP444/VA	-	28-May-2025	-
pH, TCLP final	----	9.56	0.010	pH units	EPP444/VA	-	28-May-2025	-
Antimony, TCLP	7440-36-0	<1.00	1.00	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Arsenic, TCLP	7440-38-2	<1.0	1.0	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Barium, TCLP	7440-39-3	<2.5	2.5	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Beryllium, TCLP	7440-41-7	<0.025	0.025	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Boron, TCLP	7440-42-8	0.76	0.50	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Cadmium, TCLP	7440-43-9	<0.050	0.050	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Calcium, TCLP	7440-70-2	731	10	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Chromium, TCLP	7440-47-3	<0.25	0.25	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Cobalt, TCLP	7440-48-4	<0.050	0.050	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Copper, TCLP	7440-50-8	0.768	0.050	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Iron, TCLP	7439-89-6	<5.0	5.0	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Lead, TCLP	7439-92-1	<0.25	0.25	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Magnesium, TCLP	7439-95-4	5.3	2.5	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Mercury, TCLP	7439-97-6	<0.0010	0.0010	mg/L	E512/VA	31-May-2025	31-May-2025	2025432
Nickel, TCLP	7440-02-0	<0.25	0.25	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Selenium, TCLP	7782-49-2	<0.10	0.10	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Silver, TCLP	7440-22-4	<0.050	0.050	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Thallium, TCLP	7440-28-0	<1.0	1.0	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Uranium, TCLP	7440-61-1	<0.20	0.20	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Vanadium, TCLP	7440-62-2	<0.15	0.15	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Zinc, TCLP	7440-66-6	<0.50	0.50	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Zirconium, TCLP	7440-67-7	<10	10	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990

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

Analytical Results

VA25B2351-007

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

Client sample ID: BA-2521-A-7
Client sampling date / time: 21-May-2025 09:00

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

Analytical Results

VA25B2351-007

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

Client sample ID: BA-2521-A-7
Client sampling date / time: 21-May-2025 09:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests								
Moisture	----	25.7	0.25	%	E144/VA	-	30-May-2025	2024983
pH (1:2 soil:water)	----	10.33	0.10	pH units	E108/VA	31-May-2025	31-May-2025	2024979
Metals								
Aluminum	7429-90-5	42200	50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Antimony	7440-36-0	98.0	0.10	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Arsenic	7440-38-2	15.0	0.10	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Barium	7440-39-3	565	0.50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Beryllium	7440-41-7	0.31	0.10	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Bismuth	7440-69-9	8.29	0.20	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Boron	7440-42-8	175	5.0	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Cadmium	7440-43-9	7.20	0.020	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Calcium	7440-70-2	120000	50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Chromium	7440-47-3	300	0.50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Cobalt	7440-48-4	88.6	0.10	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Copper	7440-50-8	2320	0.50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Iron	7439-89-6	67500	50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Lead	7439-92-1	817	0.50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Lithium	7439-93-2	25.8	2.0	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Magnesium	7439-95-4	12300	20	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Manganese	7439-96-5	909	1.0	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Mercury	7439-97-6	<0.0500	0.0500	mg/kg	E510/VA	31-May-2025	31-May-2025	2024980
Molybdenum	7439-98-7	19.9	0.10	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Nickel	7440-02-0	207	0.50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Phosphorus	7723-14-0	9980	50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Potassium	7440-09-7	5380	100	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Selenium	7782-49-2	0.48	0.20	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Silver	7440-22-4	5.62	0.10	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Sodium	7440-23-5	16200	50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Strontium	7440-24-6	277	0.50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Sulfur	7704-34-9	11200	1000	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Thallium	7440-28-0	<0.050	0.050	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Tin	7440-31-5	121	2.0	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Titanium	7440-32-6	234	1.0	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Tungsten	7440-33-7	13.1	0.50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Uranium	7440-61-1	1.72	0.050	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Vanadium	7440-62-2	31.6	0.20	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Zinc	7440-66-6	3240	2.0	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Zirconium	7440-67-7	5.0	1.0	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
TCLP Metals								
pH, TCLP 1st preliminary	----	11.27	0.010	pH units	EPP444/VA	-	28-May-2025	-
pH, TCLP 2nd preliminary	----	2.07	0.010	pH units	EPP444/VA	-	28-May-2025	-
pH, TCLP extraction fluid initial	----	4.96	0.010	pH units	EPP444/VA	-	28-May-2025	-
pH, TCLP final	----	9.95	0.010	pH units	EPP444/VA	-	28-May-2025	-
Antimony, TCLP	7440-36-0	<1.00	1.00	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Arsenic, TCLP	7440-38-2	<1.0	1.0	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990

Analytical Results

VA25B2351-007

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

Client sample ID: BA-2521-A-7
Client sampling date / time: 21-May-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	31-May-2025	01-Jun-2025	2025990
Beryllium, TCLP	7440-41-7	<0.025	0.025	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Boron, TCLP	7440-42-8	0.71	0.50	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Cadmium, TCLP	7440-43-9	<0.050	0.050	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Calcium, TCLP	7440-70-2	755	10	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Chromium, TCLP	7440-47-3	<0.25	0.25	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Cobalt, TCLP	7440-48-4	<0.050	0.050	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Copper, TCLP	7440-50-8	0.818	0.050	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Iron, TCLP	7439-89-6	<5.0	5.0	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Lead, TCLP	7439-92-1	<0.25	0.25	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Magnesium, TCLP	7439-95-4	3.1	2.5	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Mercury, TCLP	7439-97-6	<0.0010	0.0010	mg/L	E512/VA	31-May-2025	31-May-2025	2025432
Nickel, TCLP	7440-02-0	<0.25	0.25	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Selenium, TCLP	7782-49-2	<0.10	0.10	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Silver, TCLP	7440-22-4	<0.050	0.050	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Thallium, TCLP	7440-28-0	<1.0	1.0	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Uranium, TCLP	7440-61-1	<0.20	0.20	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Vanadium, TCLP	7440-62-2	<0.15	0.15	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Zinc, TCLP	7440-66-6	<0.50	0.50	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Zirconium, TCLP	7440-67-7	<10	10	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990

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

Analytical Results

VA25B2351-008

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

Client sample ID: BA-2521-A-8
Client sampling date / time: 21-May-2025 09:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests								
Moisture	----	24.6	0.25	%	E144/VA	-	30-May-2025	2024983
pH (1:2 soil:water)	----	10.33	0.10	pH units	E108/VA	31-May-2025	31-May-2025	2024979
Metals								
Aluminum	7429-90-5	56900	50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Antimony	7440-36-0	112	0.10	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Arsenic	7440-38-2	22.3	0.10	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Barium	7440-39-3	622	0.50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Beryllium	7440-41-7	0.33	0.10	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Bismuth	7440-69-9	7.36	0.20	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Boron	7440-42-8	294	5.0	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Cadmium	7440-43-9	6.89	0.020	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Calcium	7440-70-2	131000	50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Chromium	7440-47-3	204	0.50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Cobalt	7440-48-4	174	0.10	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Copper	7440-50-8	2170	0.50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981

Analytical Results

VA25B2351-008

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

Client sample ID: BA-2521-A-8
Client sampling date / time: 21-May-2025 09:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Metals								
Iron	7439-89-6	57600	50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Lead	7439-92-1	2320	0.50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Lithium	7439-93-2	30.9	2.0	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Magnesium	7439-95-4	12600	20	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Manganese	7439-96-5	1090	1.0	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Mercury	7439-97-6	<0.0500	0.0500	mg/kg	E510/VA	31-May-2025	31-May-2025	2024980
Molybdenum	7439-98-7	17.0	0.10	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Nickel	7440-02-0	209	0.50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Phosphorus	7723-14-0	11000	50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Potassium	7440-09-7	5380	100	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Selenium	7782-49-2	0.54	0.20	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Silver	7440-22-4	5.32	0.10	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Sodium	7440-23-5	16200	50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Strontium	7440-24-6	292	0.50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Sulfur	7704-34-9	12000	1000	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Thallium	7440-28-0	<0.050	0.050	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Tin	7440-31-5	114	2.0	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Titanium	7440-32-6	364	1.0	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Tungsten	7440-33-7	13.4	0.50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Uranium	7440-61-1	1.90	0.050	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Vanadium	7440-62-2	32.5	0.20	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Zinc	7440-66-6	4100	2.0	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Zirconium	7440-67-7	4.0	1.0	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
TCLP Metals								
pH, TCLP 1st preliminary	----	11.29	0.010	pH units	EPP444/VA	-	28-May-2025	-
pH, TCLP 2nd preliminary	----	2.15	0.010	pH units	EPP444/VA	-	28-May-2025	-
pH, TCLP extraction fluid initial	----	4.96	0.010	pH units	EPP444/VA	-	28-May-2025	-
pH, TCLP final	----	9.54	0.010	pH units	EPP444/VA	-	28-May-2025	-
Antimony, TCLP	7440-36-0	<1.00	1.00	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Arsenic, TCLP	7440-38-2	<1.0	1.0	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Barium, TCLP	7440-39-3	<2.5	2.5	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Beryllium, TCLP	7440-41-7	<0.025	0.025	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Boron, TCLP	7440-42-8	0.73	0.50	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Cadmium, TCLP	7440-43-9	<0.050	0.050	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Calcium, TCLP	7440-70-2	797	10	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Chromium, TCLP	7440-47-3	<0.25	0.25	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Cobalt, TCLP	7440-48-4	<0.050	0.050	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Copper, TCLP	7440-50-8	0.793	0.050	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Iron, TCLP	7439-89-6	<5.0	5.0	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Lead, TCLP	7439-92-1	<0.25	0.25	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Magnesium, TCLP	7439-95-4	4.4	2.5	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Mercury, TCLP	7439-97-6	<0.0010	0.0010	mg/L	E512/VA	31-May-2025	31-May-2025	2025432
Nickel, TCLP	7440-02-0	<0.25	0.25	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Selenium, TCLP	7782-49-2	<0.10	0.10	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Silver, TCLP	7440-22-4	<0.050	0.050	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990

Analytical Results

VA25B2351-008

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

Client sample ID: BA-2521-A-8
Client sampling date / time: 21-May-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	31-May-2025	01-Jun-2025	2025990
Uranium, TCLP	7440-61-1	<0.20	0.20	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Vanadium, TCLP	7440-62-2	<0.15	0.15	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Zinc, TCLP	7440-66-6	<0.50	0.50	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Zirconium, TCLP	7440-67-7	<10	10	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990

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

Analytical Results

VA25B2351-009

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

Client sample ID: BA-2521-A-9
Client sampling date / time: 21-May-2025 09:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests								
Moisture	----	26.0	0.25	%	E144/VA	-	30-May-2025	2024983
pH (1:2 soil:water)	----	10.33	0.10	pH units	E108/VA	31-May-2025	31-May-2025	2024979
Metals								
Aluminum	7429-90-5	35000	50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Antimony	7440-36-0	121	0.10	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Arsenic	7440-38-2	24.5	0.10	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Barium	7440-39-3	494	0.50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Beryllium	7440-41-7	1.34	0.10	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Bismuth	7440-69-9	8.70	0.20	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Boron	7440-42-8	142	5.0	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Cadmium	7440-43-9	8.42	0.020	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Calcium	7440-70-2	124000	50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Chromium	7440-47-3	612	0.50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Cobalt	7440-48-4	75.4	0.10	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Copper	7440-50-8	15600	0.50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Iron	7439-89-6	68500	50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Lead	7439-92-1	1120	0.50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Lithium	7439-93-2	28.1	2.0	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Magnesium	7439-95-4	13900	20	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Manganese	7439-96-5	999	1.0	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Mercury	7439-97-6	<0.0500	0.0500	mg/kg	E510/VA	31-May-2025	31-May-2025	2024980
Molybdenum	7439-98-7	19.8	0.10	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Nickel	7440-02-0	571	0.50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Phosphorus	7723-14-0	10800	50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Potassium	7440-09-7	5610	100	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Selenium	7782-49-2	0.53	0.20	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Silver	7440-22-4	4.89	0.30	mg/kg	E440.Ag/VA	02-Jun-2025	03-Jun-2025	2028724
Sodium	7440-23-5	15200	50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Strontium	7440-24-6	309	0.50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Sulfur	7704-34-9	12000	1000	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981

Analytical Results

VA25B2351-009

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

Client sample ID: BA-2521-A-9
Client sampling date / time: 21-May-2025 09:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Metals								
Thallium	7440-28-0	0.064	0.050	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Tin	7440-31-5	146	2.0	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Titanium	7440-32-6	228	1.0	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Tungsten	7440-33-7	19.5	0.50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Uranium	7440-61-1	1.81	0.050	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Vanadium	7440-62-2	32.7	0.20	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Zinc	7440-66-6	14000	2.0	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Zirconium	7440-67-7	2.8	1.0	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
TCLP Metals								
pH, TCLP 1st preliminary	----	11.30	0.010	pH units	EPP444/VA	-	28-May-2025	-
pH, TCLP 2nd preliminary	----	2.06	0.010	pH units	EPP444/VA	-	28-May-2025	-
pH, TCLP extraction fluid initial	----	4.96	0.010	pH units	EPP444/VA	-	28-May-2025	-
pH, TCLP final	----	9.78	0.010	pH units	EPP444/VA	-	28-May-2025	-
Antimony, TCLP	7440-36-0	<1.00	1.00	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Arsenic, TCLP	7440-38-2	<1.0	1.0	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Barium, TCLP	7440-39-3	<2.5	2.5	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Beryllium, TCLP	7440-41-7	<0.025	0.025	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Boron, TCLP	7440-42-8	0.74	0.50	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Cadmium, TCLP	7440-43-9	<0.050	0.050	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Calcium, TCLP	7440-70-2	785	10	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Chromium, TCLP	7440-47-3	<0.25	0.25	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Cobalt, TCLP	7440-48-4	<0.050	0.050	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Copper, TCLP	7440-50-8	0.707	0.050	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Iron, TCLP	7439-89-6	<5.0	5.0	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Lead, TCLP	7439-92-1	<0.25	0.25	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Magnesium, TCLP	7439-95-4	5.9	2.5	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Mercury, TCLP	7439-97-6	<0.0010	0.0010	mg/L	E512/VA	31-May-2025	31-May-2025	2025432
Nickel, TCLP	7440-02-0	<0.25	0.25	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Selenium, TCLP	7782-49-2	<0.10	0.10	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Silver, TCLP	7440-22-4	<0.050	0.050	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Thallium, TCLP	7440-28-0	<1.0	1.0	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Uranium, TCLP	7440-61-1	<0.20	0.20	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Vanadium, TCLP	7440-62-2	<0.15	0.15	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Zinc, TCLP	7440-66-6	<0.50	0.50	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Zirconium, TCLP	7440-67-7	<10	10	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990

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

Analytical Results

VA25B2351-010

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

Client sample ID: BA-2521-A-10
Client sampling date / time: 21-May-2025 09:00

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

Analytical Results

VA25B2351-010

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

Client sample ID: BA-2521-A-10
Client sampling date / time: 21-May-2025 09:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests								
Moisture	----	25.2	0.25	%	E144/VA	-	30-May-2025	2024983
pH (1:2 soil:water)	----	10.28	0.10	pH units	E108/VA	31-May-2025	31-May-2025	2024979
Metals								
Aluminum	7429-90-5	36800	50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Antimony	7440-36-0	112	0.10	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Arsenic	7440-38-2	18.3	0.10	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Barium	7440-39-3	491	0.50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Beryllium	7440-41-7	0.31	0.10	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Bismuth	7440-69-9	13.0	0.20	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Boron	7440-42-8	176	5.0	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Cadmium	7440-43-9	10.7	0.020	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Calcium	7440-70-2	130000	50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Chromium	7440-47-3	177	0.50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Cobalt	7440-48-4	44.5	0.10	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Copper	7440-50-8	5710	0.50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Iron	7439-89-6	64100	50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Lead	7439-92-1	460	0.50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Lithium	7439-93-2	27.3	2.0	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Magnesium	7439-95-4	13600	20	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Manganese	7439-96-5	904	1.0	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Mercury	7439-97-6	0.0918	0.0500	mg/kg	E510/VA	31-May-2025	31-May-2025	2024980
Molybdenum	7439-98-7	16.9	0.10	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Nickel	7440-02-0	164	0.50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Phosphorus	7723-14-0	12000	50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Potassium	7440-09-7	5680	100	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Selenium	7782-49-2	0.78	0.20	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Silver	7440-22-4	9.84	0.10	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Sodium	7440-23-5	16300	50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Strontium	7440-24-6	265	0.50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Sulfur	7704-34-9	16900	1000	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Thallium	7440-28-0	<0.050	0.050	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Tin	7440-31-5	105	2.0	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Titanium	7440-32-6	207	1.0	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Tungsten	7440-33-7	12.9	0.50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Uranium	7440-61-1	1.97	0.050	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Vanadium	7440-62-2	36.9	0.20	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Zinc	7440-66-6	4310	2.0	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Zirconium	7440-67-7	3.2	1.0	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
TCLP Metals								
pH, TCLP 1st preliminary	----	11.26	0.010	pH units	EPP444/VA	-	28-May-2025	-
pH, TCLP 2nd preliminary	----	2.42	0.010	pH units	EPP444/VA	-	28-May-2025	-
pH, TCLP extraction fluid initial	----	4.96	0.010	pH units	EPP444/VA	-	28-May-2025	-
pH, TCLP final	----	9.90	0.010	pH units	EPP444/VA	-	28-May-2025	-
Antimony, TCLP	7440-36-0	<1.00	1.00	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Arsenic, TCLP	7440-38-2	<1.0	1.0	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990

Analytical Results

VA25B2351-010

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

Client sample ID: BA-2521-A-10
Client sampling date / time: 21-May-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	31-May-2025	01-Jun-2025	2025990
Beryllium, TCLP	7440-41-7	<0.025	0.025	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Boron, TCLP	7440-42-8	0.72	0.50	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Cadmium, TCLP	7440-43-9	<0.050	0.050	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Calcium, TCLP	7440-70-2	798	10	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Chromium, TCLP	7440-47-3	<0.25	0.25	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Cobalt, TCLP	7440-48-4	<0.050	0.050	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Copper, TCLP	7440-50-8	0.793	0.050	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Iron, TCLP	7439-89-6	<5.0	5.0	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Lead, TCLP	7439-92-1	<0.25	0.25	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Magnesium, TCLP	7439-95-4	3.8	2.5	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Mercury, TCLP	7439-97-6	<0.0010	0.0010	mg/L	E512/VA	31-May-2025	31-May-2025	2025432
Nickel, TCLP	7440-02-0	<0.25	0.25	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Selenium, TCLP	7782-49-2	<0.10	0.10	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Silver, TCLP	7440-22-4	<0.050	0.050	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Thallium, TCLP	7440-28-0	<1.0	1.0	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Uranium, TCLP	7440-61-1	<0.20	0.20	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Vanadium, TCLP	7440-62-2	<0.15	0.15	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Zinc, TCLP	7440-66-6	<0.50	0.50	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Zirconium, TCLP	7440-67-7	<10	10	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990

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

Analytical Results

VA25B2351-011

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

Client sample ID: BA-2521-A-11
Client sampling date / time: 21-May-2025 09:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests								
Moisture	----	25.8	0.25	%	E144/VA	-	30-May-2025	2024983
pH (1:2 soil:water)	----	10.43	0.10	pH units	E108/VA	31-May-2025	31-May-2025	2024979
Metals								
Aluminum	7429-90-5	32500	50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Antimony	7440-36-0	138	0.10	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Arsenic	7440-38-2	19.2	0.10	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Barium	7440-39-3	534	0.50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Beryllium	7440-41-7	0.32	0.10	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Bismuth	7440-69-9	10.9	0.20	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Boron	7440-42-8	170	5.0	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Cadmium	7440-43-9	9.58	0.020	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Calcium	7440-70-2	139000	50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Chromium	7440-47-3	191	0.50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Cobalt	7440-48-4	136	0.10	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Copper	7440-50-8	3460	0.50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981

Analytical Results

VA25B2351-011

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

Client sample ID: BA-2521-A-11
Client sampling date / time: 21-May-2025 09:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Metals								
Iron	7439-89-6	56600	50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Lead	7439-92-1	964	0.50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Lithium	7439-93-2	27.6	2.0	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Magnesium	7439-95-4	13800	20	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Manganese	7439-96-5	831	1.0	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Mercury	7439-97-6	<0.0500	0.0500	mg/kg	E510/VA	31-May-2025	31-May-2025	2024980
Molybdenum	7439-98-7	19.3	0.10	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Nickel	7440-02-0	523	0.50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Phosphorus	7723-14-0	13100	50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Potassium	7440-09-7	5630	100	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Selenium	7782-49-2	0.67	0.20	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Silver	7440-22-4	5.95	0.10	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Sodium	7440-23-5	15300	50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Strontium	7440-24-6	289	0.50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Sulfur	7704-34-9	13900	1000	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Thallium	7440-28-0	<0.050	0.050	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Tin	7440-31-5	123	2.0	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Titanium	7440-32-6	191	1.0	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Tungsten	7440-33-7	242	0.50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Uranium	7440-61-1	2.03	0.050	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Vanadium	7440-62-2	31.8	0.20	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Zinc	7440-66-6	4060	2.0	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Zirconium	7440-67-7	2.0	1.0	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
TCLP Metals								
pH, TCLP 1st preliminary	----	11.29	0.010	pH units	EPP444/VA	-	28-May-2025	-
pH, TCLP 2nd preliminary	----	2.31	0.010	pH units	EPP444/VA	-	28-May-2025	-
pH, TCLP extraction fluid initial	----	4.96	0.010	pH units	EPP444/VA	-	28-May-2025	-
pH, TCLP final	----	9.97	0.010	pH units	EPP444/VA	-	28-May-2025	-
Antimony, TCLP	7440-36-0	<1.00	1.00	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Arsenic, TCLP	7440-38-2	<1.0	1.0	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Barium, TCLP	7440-39-3	<2.5	2.5	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Beryllium, TCLP	7440-41-7	<0.025	0.025	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Boron, TCLP	7440-42-8	0.69	0.50	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Cadmium, TCLP	7440-43-9	<0.050	0.050	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Calcium, TCLP	7440-70-2	748	10	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Chromium, TCLP	7440-47-3	<0.25	0.25	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Cobalt, TCLP	7440-48-4	<0.050	0.050	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Copper, TCLP	7440-50-8	0.809	0.050	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Iron, TCLP	7439-89-6	<5.0	5.0	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Lead, TCLP	7439-92-1	<0.25	0.25	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Magnesium, TCLP	7439-95-4	4.0	2.5	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Mercury, TCLP	7439-97-6	<0.0010	0.0010	mg/L	E512/VA	31-May-2025	31-May-2025	2025432
Nickel, TCLP	7440-02-0	<0.25	0.25	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Selenium, TCLP	7782-49-2	<0.10	0.10	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Silver, TCLP	7440-22-4	<0.050	0.050	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990

Analytical Results

VA25B2351-011

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

Client sample ID: BA-2521-A-11
Client sampling date / time: 21-May-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	31-May-2025	01-Jun-2025	2025990
Uranium, TCLP	7440-61-1	<0.20	0.20	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Vanadium, TCLP	7440-62-2	<0.15	0.15	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Zinc, TCLP	7440-66-6	<0.50	0.50	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Zirconium, TCLP	7440-67-7	<10	10	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990

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

Analytical Results

VA25B2351-012

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

Client sample ID: BA-2521-A-12
Client sampling date / time: 21-May-2025 09:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests								
Moisture	----	25.7	0.25	%	E144/VA	-	30-May-2025	2024983
pH (1:2 soil:water)	----	10.36	0.10	pH units	E108/VA	31-May-2025	31-May-2025	2024979
Metals								
Aluminum	7429-90-5	33300	50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Antimony	7440-36-0	128	0.10	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Arsenic	7440-38-2	19.9	0.10	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Barium	7440-39-3	419	0.50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Beryllium	7440-41-7	0.33	0.10	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Bismuth	7440-69-9	9.54	0.20	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Boron	7440-42-8	151	5.0	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Cadmium	7440-43-9	9.50	0.020	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Calcium	7440-70-2	141000	50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Chromium	7440-47-3	214	0.50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Cobalt	7440-48-4	580	0.10	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Copper	7440-50-8	2190	0.50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Iron	7439-89-6	54300	50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Lead	7439-92-1	609	0.50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Lithium	7439-93-2	30.2	2.0	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Magnesium	7439-95-4	13400	20	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Manganese	7439-96-5	813	1.0	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Mercury	7439-97-6	<0.0500	0.0500	mg/kg	E510/VA	31-May-2025	31-May-2025	2024980
Molybdenum	7439-98-7	23.0	0.10	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Nickel	7440-02-0	206	0.50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Phosphorus	7723-14-0	13100	50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Potassium	7440-09-7	5960	100	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Selenium	7782-49-2	0.56	0.20	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Silver	7440-22-4	5.06	0.10	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Sodium	7440-23-5	15600	50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Strontium	7440-24-6	312	0.50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Sulfur	7704-34-9	13400	1000	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981

Analytical Results

VA25B2351-012

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

Client sample ID: BA-2521-A-12
Client sampling date / time: 21-May-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	31-May-2025	01-Jun-2025	2024981
Tin	7440-31-5	121	2.0	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Titanium	7440-32-6	220	1.0	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Tungsten	7440-33-7	18.4	0.50	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Uranium	7440-61-1	2.25	0.050	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Vanadium	7440-62-2	35.1	0.20	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Zinc	7440-66-6	5500	2.0	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
Zirconium	7440-67-7	2.5	1.0	mg/kg	E440/VA	31-May-2025	01-Jun-2025	2024981
TCLP Metals								
pH, TCLP 1st preliminary	----	11.25	0.010	pH units	EPP444/VA	-	28-May-2025	-
pH, TCLP 2nd preliminary	----	2.10	0.010	pH units	EPP444/VA	-	28-May-2025	-
pH, TCLP extraction fluid initial	----	4.96	0.010	pH units	EPP444/VA	-	28-May-2025	-
pH, TCLP final	----	9.91	0.010	pH units	EPP444/VA	-	28-May-2025	-
Antimony, TCLP	7440-36-0	<1.00	1.00	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Arsenic, TCLP	7440-38-2	<1.0	1.0	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Barium, TCLP	7440-39-3	<2.5	2.5	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Beryllium, TCLP	7440-41-7	<0.025	0.025	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Boron, TCLP	7440-42-8	0.75	0.50	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Cadmium, TCLP	7440-43-9	<0.050	0.050	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Calcium, TCLP	7440-70-2	790	10	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Chromium, TCLP	7440-47-3	<0.25	0.25	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Cobalt, TCLP	7440-48-4	<0.050	0.050	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Copper, TCLP	7440-50-8	0.742	0.050	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Iron, TCLP	7439-89-6	<5.0	5.0	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Lead, TCLP	7439-92-1	<0.25	0.25	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Magnesium, TCLP	7439-95-4	4.4	2.5	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Mercury, TCLP	7439-97-6	<0.0010	0.0010	mg/L	E512/VA	31-May-2025	31-May-2025	2025432
Nickel, TCLP	7440-02-0	<0.25	0.25	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Selenium, TCLP	7782-49-2	<0.10	0.10	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Silver, TCLP	7440-22-4	<0.050	0.050	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Thallium, TCLP	7440-28-0	<1.0	1.0	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Uranium, TCLP	7440-61-1	<0.20	0.20	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Vanadium, TCLP	7440-62-2	<0.15	0.15	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Zinc, TCLP	7440-66-6	<0.50	0.50	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990
Zirconium, TCLP	7440-67-7	<10	10	mg/L	E444/VA	31-May-2025	01-Jun-2025	2025990

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	: **VA25B2351**	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	: 27-May-2025 13:25
PO	: ----	Issue Date	: 03-Jun-2025 09:11
C-O-C number	: ----		
Sampler	: ----		
Site	: Metro Van Ash Sampling Program		
Quote number	: VA25-VISI100-001		
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	VA25B2351-001	BA-2521-A-1	Arsenic	7440-38-2	E440	32.6 % DUP-H	30%	Duplicate RPD does not meet the DQO for this test.
Metals	VA25B2351-001	BA-2521-A-1	Bismuth	7440-69-9	E440	110 % DUP-H	30%	Duplicate RPD does not meet the DQO for this test.
Metals	VA25B2351-001	BA-2521-A-1	Boron	7440-42-8	E440	44.3 % DUP-H	30%	Duplicate RPD does not meet the DQO for this test.
Metals	VA25B2351-001	BA-2521-A-1	Cobalt	7440-48-4	E440	65.0 % DUP-H	30%	Duplicate RPD does not meet the DQO for this test.
Metals	VA25B2351-001	BA-2521-A-1	Lithium	7439-93-2	E440	55.1 % DUP-H	30%	Duplicate RPD does not meet the DQO for this test.
Metals	VA25B2351-001	BA-2521-A-1	Tungsten	7440-33-7	E440	58.0 % 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-2521-A-9	E440.Ag	21-May-2025	02-Jun-2025	180 days	12 days	✓	03-Jun-2025	180 days	12 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag BA-2521-A-1	E510	21-May-2025	31-May-2025	28 days	10 days	✓	31-May-2025	28 days	0 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag BA-2521-A-10	E510	21-May-2025	31-May-2025	28 days	10 days	✓	31-May-2025	28 days	0 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag BA-2521-A-11	E510	21-May-2025	31-May-2025	28 days	10 days	✓	31-May-2025	28 days	0 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag BA-2521-A-12	E510	21-May-2025	31-May-2025	28 days	10 days	✓	31-May-2025	28 days	0 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag BA-2521-A-2	E510	21-May-2025	31-May-2025	28 days	10 days	✓	31-May-2025	28 days	0 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag BA-2521-A-3	E510	21-May-2025	31-May-2025	28 days	10 days	✓	31-May-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-2521-A-4	E510	21-May-2025	31-May-2025	28 days	10 days	✓	31-May-2025	28 days	0 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag BA-2521-A-5	E510	21-May-2025	31-May-2025	28 days	10 days	✓	31-May-2025	28 days	0 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag BA-2521-A-6	E510	21-May-2025	31-May-2025	28 days	10 days	✓	31-May-2025	28 days	0 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag BA-2521-A-7	E510	21-May-2025	31-May-2025	28 days	10 days	✓	31-May-2025	28 days	0 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag BA-2521-A-8	E510	21-May-2025	31-May-2025	28 days	10 days	✓	31-May-2025	28 days	0 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
LDPE bag BA-2521-A-9	E510	21-May-2025	31-May-2025	28 days	10 days	✓	31-May-2025	28 days	0 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
LDPE bag BA-2521-A-1	E440	21-May-2025	31-May-2025	180 days	10 days	✓	01-Jun-2025	180 days	10 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
LDPE bag BA-2521-A-10	E440	21-May-2025	31-May-2025	180 days	10 days	✓	01-Jun-2025	180 days	10 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
LDPE bag BA-2521-A-11	E440	21-May-2025	31-May-2025	180 days	10 days	✓	01-Jun-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-2521-A-12	E440	21-May-2025	31-May-2025	180 days	10 days	✓	01-Jun-2025	180 days	10 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
LDPE bag BA-2521-A-2	E440	21-May-2025	31-May-2025	180 days	10 days	✓	01-Jun-2025	180 days	10 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
LDPE bag BA-2521-A-3	E440	21-May-2025	31-May-2025	180 days	10 days	✓	01-Jun-2025	180 days	10 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
LDPE bag BA-2521-A-4	E440	21-May-2025	31-May-2025	180 days	10 days	✓	01-Jun-2025	180 days	10 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
LDPE bag BA-2521-A-5	E440	21-May-2025	31-May-2025	180 days	10 days	✓	01-Jun-2025	180 days	10 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
LDPE bag BA-2521-A-6	E440	21-May-2025	31-May-2025	180 days	10 days	✓	01-Jun-2025	180 days	10 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
LDPE bag BA-2521-A-7	E440	21-May-2025	31-May-2025	180 days	10 days	✓	01-Jun-2025	180 days	10 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
LDPE bag BA-2521-A-8	E440	21-May-2025	31-May-2025	180 days	10 days	✓	01-Jun-2025	180 days	10 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
LDPE bag BA-2521-A-9	E440	21-May-2025	31-May-2025	180 days	10 days	✓	01-Jun-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-2521-A-1	E144	21-May-2025	----	----	----		30-May-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag BA-2521-A-10	E144	21-May-2025	----	----	----		30-May-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag BA-2521-A-11	E144	21-May-2025	----	----	----		30-May-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag BA-2521-A-12	E144	21-May-2025	----	----	----		30-May-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag BA-2521-A-2	E144	21-May-2025	----	----	----		30-May-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag BA-2521-A-3	E144	21-May-2025	----	----	----		30-May-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag BA-2521-A-4	E144	21-May-2025	----	----	----		30-May-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag BA-2521-A-5	E144	21-May-2025	----	----	----		30-May-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag BA-2521-A-6	E144	21-May-2025	----	----	----		30-May-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-2521-A-7	E144	21-May-2025	----	----	----		30-May-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag BA-2521-A-8	E144	21-May-2025	----	----	----		30-May-2025	----	----	
Physical Tests : Moisture Content by Gravimetry										
LDPE bag BA-2521-A-9	E144	21-May-2025	----	----	----		30-May-2025	----	----	
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)										
LDPE bag BA-2521-A-1	E108	21-May-2025	31-May-2025	30 days	10 days	✓	31-May-2025	30 days	10 days	✓
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)										
LDPE bag BA-2521-A-10	E108	21-May-2025	31-May-2025	30 days	10 days	✓	31-May-2025	30 days	10 days	✓
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)										
LDPE bag BA-2521-A-11	E108	21-May-2025	31-May-2025	30 days	10 days	✓	31-May-2025	30 days	10 days	✓
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)										
LDPE bag BA-2521-A-12	E108	21-May-2025	31-May-2025	30 days	10 days	✓	31-May-2025	30 days	10 days	✓
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)										
LDPE bag BA-2521-A-2	E108	21-May-2025	31-May-2025	30 days	10 days	✓	31-May-2025	30 days	10 days	✓
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)										
LDPE bag BA-2521-A-3	E108	21-May-2025	31-May-2025	30 days	10 days	✓	31-May-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-2521-A-4	E108	21-May-2025	31-May-2025	30 days	10 days	✓	31-May-2025	30 days	10 days	✓
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)										
LDPE bag BA-2521-A-5	E108	21-May-2025	31-May-2025	30 days	10 days	✓	31-May-2025	30 days	10 days	✓
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)										
LDPE bag BA-2521-A-6	E108	21-May-2025	31-May-2025	30 days	10 days	✓	31-May-2025	30 days	10 days	✓
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)										
LDPE bag BA-2521-A-7	E108	21-May-2025	31-May-2025	30 days	10 days	✓	31-May-2025	30 days	10 days	✓
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)										
LDPE bag BA-2521-A-8	E108	21-May-2025	31-May-2025	30 days	10 days	✓	31-May-2025	30 days	10 days	✓
Physical Tests : pH by Meter (1:2 Soil:Water Extraction)										
LDPE bag BA-2521-A-9	E108	21-May-2025	31-May-2025	30 days	10 days	✓	31-May-2025	30 days	10 days	✓
TCLP Metals : Mercury by CVAAS (TCLP)										
Glass vial - total (lab preserved) BA-2521-A-1	E512	28-May-2025	31-May-2025	35 days	10 days	✓	31-May-2025	35 days	10 days	✓
TCLP Metals : Mercury by CVAAS (TCLP)										
Glass vial - total (lab preserved) BA-2521-A-10	E512	28-May-2025	31-May-2025	35 days	10 days	✓	31-May-2025	35 days	10 days	✓
TCLP Metals : Mercury by CVAAS (TCLP)										
Glass vial - total (lab preserved) BA-2521-A-11	E512	28-May-2025	31-May-2025	35 days	10 days	✓	31-May-2025	35 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 : Mercury by CVAAS (TCLP)										
Glass vial - total (lab preserved) BA-2521-A-12	E512	28-May-2025	31-May-2025	35 days	10 days	✓	31-May-2025	35 days	10 days	✓
TCLP Metals : Mercury by CVAAS (TCLP)										
Glass vial - total (lab preserved) BA-2521-A-2	E512	28-May-2025	31-May-2025	35 days	10 days	✓	31-May-2025	35 days	10 days	✓
TCLP Metals : Mercury by CVAAS (TCLP)										
Glass vial - total (lab preserved) BA-2521-A-3	E512	28-May-2025	31-May-2025	35 days	10 days	✓	31-May-2025	35 days	10 days	✓
TCLP Metals : Mercury by CVAAS (TCLP)										
Glass vial - total (lab preserved) BA-2521-A-4	E512	28-May-2025	31-May-2025	35 days	10 days	✓	31-May-2025	35 days	10 days	✓
TCLP Metals : Mercury by CVAAS (TCLP)										
Glass vial - total (lab preserved) BA-2521-A-5	E512	28-May-2025	31-May-2025	35 days	10 days	✓	31-May-2025	35 days	10 days	✓
TCLP Metals : Mercury by CVAAS (TCLP)										
Glass vial - total (lab preserved) BA-2521-A-6	E512	28-May-2025	31-May-2025	35 days	10 days	✓	31-May-2025	35 days	10 days	✓
TCLP Metals : Mercury by CVAAS (TCLP)										
Glass vial - total (lab preserved) BA-2521-A-7	E512	28-May-2025	31-May-2025	35 days	10 days	✓	31-May-2025	35 days	10 days	✓
TCLP Metals : Mercury by CVAAS (TCLP)										
Glass vial - total (lab preserved) BA-2521-A-8	E512	28-May-2025	31-May-2025	35 days	10 days	✓	31-May-2025	35 days	10 days	✓
TCLP Metals : Mercury by CVAAS (TCLP)										
Glass vial - total (lab preserved) BA-2521-A-9	E512	28-May-2025	31-May-2025	35 days	10 days	✓	31-May-2025	35 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 : Metals by CRC ICPMS (TCLP)										
HDPE - total (lab preserved) BA-2521-A-1	E444	28-May-2025	31-May-2025	187 days	10 days	✓	01-Jun-2025	187 days	10 days	✓
TCLP Metals : Metals by CRC ICPMS (TCLP)										
HDPE - total (lab preserved) BA-2521-A-10	E444	28-May-2025	31-May-2025	187 days	10 days	✓	01-Jun-2025	187 days	10 days	✓
TCLP Metals : Metals by CRC ICPMS (TCLP)										
HDPE - total (lab preserved) BA-2521-A-11	E444	28-May-2025	31-May-2025	187 days	10 days	✓	01-Jun-2025	187 days	10 days	✓
TCLP Metals : Metals by CRC ICPMS (TCLP)										
HDPE - total (lab preserved) BA-2521-A-12	E444	28-May-2025	31-May-2025	187 days	10 days	✓	01-Jun-2025	187 days	10 days	✓
TCLP Metals : Metals by CRC ICPMS (TCLP)										
HDPE - total (lab preserved) BA-2521-A-2	E444	28-May-2025	31-May-2025	187 days	10 days	✓	01-Jun-2025	187 days	10 days	✓
TCLP Metals : Metals by CRC ICPMS (TCLP)										
HDPE - total (lab preserved) BA-2521-A-3	E444	28-May-2025	31-May-2025	187 days	10 days	✓	01-Jun-2025	187 days	10 days	✓
TCLP Metals : Metals by CRC ICPMS (TCLP)										
HDPE - total (lab preserved) BA-2521-A-4	E444	28-May-2025	31-May-2025	187 days	10 days	✓	01-Jun-2025	187 days	10 days	✓
TCLP Metals : Metals by CRC ICPMS (TCLP)										
HDPE - total (lab preserved) BA-2521-A-5	E444	28-May-2025	31-May-2025	187 days	10 days	✓	01-Jun-2025	187 days	10 days	✓
TCLP Metals : Metals by CRC ICPMS (TCLP)										
HDPE - total (lab preserved) BA-2521-A-6	E444	28-May-2025	31-May-2025	187 days	10 days	✓	01-Jun-2025	187 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 : Metals by CRC ICPMS (TCLP)										
HDPE - total (lab preserved)										
BA-2521-A-7	E444	28-May-2025	31-May-2025	187 days	10 days	✓	01-Jun-2025	187 days	10 days	✓
TCLP Metals : Metals by CRC ICPMS (TCLP)										
HDPE - total (lab preserved)										
BA-2521-A-8	E444	28-May-2025	31-May-2025	187 days	10 days	✓	01-Jun-2025	187 days	10 days	✓
TCLP Metals : Metals by CRC ICPMS (TCLP)										
HDPE - total (lab preserved)										
BA-2521-A-9	E444	28-May-2025	31-May-2025	187 days	10 days	✓	01-Jun-2025	187 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-2521-A-1	EPP444	21-May-2025	28-May-2025	----	----		----	28 days	7 days	✓
TCLP Metals : TCLP Leachate Preparation (Metals, Inorganics, and SVOCs)										
Lab Split - Non-Volatile Leach: 28 day HT (e.g. Hg, CrVI, PFAS)										
BA-2521-A-10	EPP444	21-May-2025	28-May-2025	----	----		----	28 days	7 days	✓
TCLP Metals : TCLP Leachate Preparation (Metals, Inorganics, and SVOCs)										
Lab Split - Non-Volatile Leach: 28 day HT (e.g. Hg, CrVI, PFAS)										
BA-2521-A-11	EPP444	21-May-2025	28-May-2025	----	----		----	28 days	7 days	✓
TCLP Metals : TCLP Leachate Preparation (Metals, Inorganics, and SVOCs)										
Lab Split - Non-Volatile Leach: 28 day HT (e.g. Hg, CrVI, PFAS)										
BA-2521-A-12	EPP444	21-May-2025	28-May-2025	----	----		----	28 days	7 days	✓
TCLP Metals : TCLP Leachate Preparation (Metals, Inorganics, and SVOCs)										
Lab Split - Non-Volatile Leach: 28 day HT (e.g. Hg, CrVI, PFAS)										
BA-2521-A-2	EPP444	21-May-2025	28-May-2025	----	----		----	28 days	7 days	✓
TCLP Metals : TCLP Leachate Preparation (Metals, Inorganics, and SVOCs)										
Lab Split - Non-Volatile Leach: 28 day HT (e.g. Hg, CrVI, PFAS)										
BA-2521-A-3	EPP444	21-May-2025	28-May-2025	----	----		----	28 days	7 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-2521-A-4	EPP444	21-May-2025	28-May-2025	----	----		----	28 days	7 days	✓
TCLP Metals : TCLP Leachate Preparation (Metals, Inorganics, and SVOCs)										
Lab Split - Non-Volatile Leach: 28 day HT (e.g. Hg, CrVI, PFAS) BA-2521-A-5	EPP444	21-May-2025	28-May-2025	----	----		----	28 days	7 days	✓
TCLP Metals : TCLP Leachate Preparation (Metals, Inorganics, and SVOCs)										
Lab Split - Non-Volatile Leach: 28 day HT (e.g. Hg, CrVI, PFAS) BA-2521-A-6	EPP444	21-May-2025	28-May-2025	----	----		----	28 days	7 days	✓
TCLP Metals : TCLP Leachate Preparation (Metals, Inorganics, and SVOCs)										
Lab Split - Non-Volatile Leach: 28 day HT (e.g. Hg, CrVI, PFAS) BA-2521-A-7	EPP444	21-May-2025	28-May-2025	----	----		----	28 days	7 days	✓
TCLP Metals : TCLP Leachate Preparation (Metals, Inorganics, and SVOCs)										
Lab Split - Non-Volatile Leach: 28 day HT (e.g. Hg, CrVI, PFAS) BA-2521-A-8	EPP444	21-May-2025	28-May-2025	----	----		----	28 days	7 days	✓
TCLP Metals : TCLP Leachate Preparation (Metals, Inorganics, and SVOCs)										
Lab Split - Non-Volatile Leach: 28 day HT (e.g. Hg, CrVI, PFAS) BA-2521-A-9	EPP444	21-May-2025	28-May-2025	----	----		----	28 days	7 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	2024979	1	15	6.6	5.0	✓
Moisture Content by Gravimetry	E144	2024983	1	12	8.3	5.0	✓
Metals in Soil/Solid by CRC ICPMS	E440	2024981	1	14	7.1	5.0	✓
Metals by CRC ICPMS (TCLP)	E444	2025990	1	12	8.3	5.0	✓
Mercury in Soil/Solid by CVAAS	E510	2024980	1	14	7.1	5.0	✓
Mercury by CVAAS (TCLP)	E512	2025432	1	12	8.3	5.0	✓
Laboratory Control Samples (LCS)							
pH by Meter (1:2 Soil:Water Extraction)	E108	2024979	1	15	6.6	5.0	✓
Moisture Content by Gravimetry	E144	2024983	1	12	8.3	5.0	✓
High Silver in Soil/Solid by CRC ICPMS	E440.Ag	2028724	2	1	200.0	10.0	✓
Metals in Soil/Solid by CRC ICPMS	E440	2024981	2	14	14.2	10.0	✓
Mercury in Soil/Solid by CVAAS	E510	2024980	2	14	14.2	10.0	✓
Method Blanks (MB)							
Moisture Content by Gravimetry	E144	2024983	1	12	8.3	5.0	✓
High Silver in Soil/Solid by CRC ICPMS	E440.Ag	2028724	1	1	100.0	5.0	✓
Metals in Soil/Solid by CRC ICPMS	E440	2024981	1	14	7.1	5.0	✓
Metals by CRC ICPMS (TCLP)	E444	2025990	1	12	8.3	5.0	✓
Mercury in Soil/Solid by CVAAS	E510	2024980	1	14	7.1	5.0	✓
Mercury by CVAAS (TCLP)	E512	2025432	1	12	8.3	5.0	✓
Matrix Spikes (MS)							
Metals by CRC ICPMS (TCLP)	E444	2025990	1	12	8.3	5.0	✓
Mercury by CVAAS (TCLP)	E512	2025432	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.

QUALITY CONTROL REPORT

Work Order	: **VA25B2351**	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	: 27-May-2025 13:25
PO	: ----	Date Analysis Commenced	: 28-May-2025
C-O-C number	: ----	Issue Date	: 03-Jun-2025 09:11
Sampler	: ----		
Site	: Metro Van Ash Sampling Program		
Quote number	: VA25-VISI100-001		
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
Kim Jensen	Department Manager - Metals	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: 2024979)											
VA25B2351-001	BA-2521-A-1	pH (1:2 soil:water)	----	E108	0.10	pH units	10.23	10.31	0.8%	5%	----
Physical Tests (QC Lot: 2024983)											
VA25B2351-001	BA-2521-A-1	Moisture	----	E144	0.25	%	26.8	27.3	1.79%	20%	----
Metals (QC Lot: 2024980)											
VA25B2351-001	BA-2521-A-1	Mercury	7439-97-6	E510	0.0500	mg/kg	0.0610	0.0767	0.0157	Diff <2x LOR	----
Metals (QC Lot: 2024981)											
VA25B2351-001	BA-2521-A-1	Aluminum	7429-90-5	E440	50	mg/kg	42000	37900	10.4%	40%	----
		Antimony	7440-36-0	E440	0.10	mg/kg	120	111	8.09%	30%	----
		Arsenic	7440-38-2	E440	0.10	mg/kg	17.6	24.5	32.6%	30%	DUP-H
		Barium	7440-39-3	E440	0.50	mg/kg	528	520	1.40%	40%	----
		Beryllium	7440-41-7	E440	0.10	mg/kg	0.38	0.34	0.04	Diff <2x LOR	----
		Bismuth	7440-69-9	E440	0.20	mg/kg	8.67	29.8	110%	30%	DUP-H
		Boron	7440-42-8	E440	5.0	mg/kg	186	292	44.3%	30%	DUP-H
		Cadmium	7440-43-9	E440	0.020	mg/kg	9.79	8.05	19.5%	30%	----
		Calcium	7440-70-2	E440	50	mg/kg	140000	126000	11.1%	30%	----
		Chromium	7440-47-3	E440	0.50	mg/kg	212	174	19.7%	30%	----
		Cobalt	7440-48-4	E440	0.10	mg/kg	112	56.9	65.0%	30%	DUP-H
		Copper	7440-50-8	E440	0.50	mg/kg	2310	1960	16.1%	30%	----
		Iron	7439-89-6	E440	50	mg/kg	49900	60900	20.0%	30%	----
		Lead	7439-92-1	E440	0.50	mg/kg	296	392	28.0%	40%	----
		Lithium	7439-93-2	E440	2.0	mg/kg	44.5	25.3	55.1%	30%	DUP-H
		Magnesium	7439-95-4	E440	20	mg/kg	12800	12800	0.166%	30%	----
		Manganese	7439-96-5	E440	1.0	mg/kg	955	1150	18.7%	30%	----
		Molybdenum	7439-98-7	E440	0.10	mg/kg	18.1	16.3	10.3%	40%	----
		Nickel	7440-02-0	E440	0.50	mg/kg	190	148	25.4%	30%	----
		Phosphorus	7723-14-0	E440	50	mg/kg	12700	14400	12.2%	30%	----
		Potassium	7440-09-7	E440	100	mg/kg	6820	6060	11.8%	40%	----
		Selenium	7782-49-2	E440	0.20	mg/kg	0.50	0.56	0.07	Diff <2x LOR	----
		Silver	7440-22-4	E440	0.10	mg/kg	5.67	5.42	4.36%	40%	----
		Sodium	7440-23-5	E440	50	mg/kg	19100	17300	9.60%	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: 2024981) - continued											
VA25B2351-001	BA-2521-A-1	Strontium	7440-24-6	E440	0.50	mg/kg	304	399	27.1%	40%	----
		Sulfur	7704-34-9	E440	1000	mg/kg	12200	12400	1.75%	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	99.4	103	3.78%	40%	----
		Titanium	7440-32-6	E440	1.0	mg/kg	245	202	19.0%	40%	----
		Tungsten	7440-33-7	E440	0.50	mg/kg	24.1	13.3	58.0%	30%	DUP-H
		Uranium	7440-61-1	E440	0.050	mg/kg	2.20	1.92	13.4%	30%	----
		Vanadium	7440-62-2	E440	0.20	mg/kg	38.7	31.4	20.8%	30%	----
		Zinc	7440-66-6	E440	2.0	mg/kg	3840	3750	2.41%	30%	----
		Zirconium	7440-67-7	E440	1.0	mg/kg	1.9	2.4	0.4	Diff <2x LOR	----
TCLP Metals (QC Lot: 2025432)											
VA25B2351-001	BA-2521-A-1	Mercury, TCLP	7439-97-6	E512	0.0010	mg/L	<0.0010	<0.0010	0	Diff <2x LOR	----
TCLP Metals (QC Lot: 2025990)											
VA25B2351-001	BA-2521-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	0.69	0.70	0.010	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	744	758	1.88%	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	0.799	0.785	1.75%	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	3.8	3.6	0.2	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: 2024983)						
Moisture	----	E144	0.25	%	<0.25	----
Metals (QCLot: 2024980)						
Mercury	7439-97-6	E510	0.005	mg/kg	<0.0050	----
Metals (QCLot: 2024981)						
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: 2024981) - 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: 2028724)						
Silver	7440-22-4	E440.Ag	0.1	mg/kg	<0.10	----
TCLP Metals (QCLot: 2025432)						
Mercury, TCLP	7439-97-6	E512	0.001	mg/L	<0.0010	----
TCLP Metals (QCLot: 2025990)						
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: 2024979)									
pH (1:2 soil:water)	----	E108	----	pH units	6 pH units	100	95.0	105	----
Physical Tests (QCLot: 2024983)									
Moisture	----	E144	0.25	%	50 %	100	90.0	110	----
Metals (QCLot: 2024980)									
Mercury	7439-97-6	E510	0.005	mg/kg	0.1 mg/kg	96.1	80.0	120	----
Metals (QCLot: 2024981)									
Aluminum	7429-90-5	E440	50	mg/kg	200 mg/kg	102	80.0	120	----
Antimony	7440-36-0	E440	0.1	mg/kg	100 mg/kg	107	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	101	80.0	120	----
Bismuth	7440-69-9	E440	0.2	mg/kg	100 mg/kg	98.9	80.0	120	----
Boron	7440-42-8	E440	5	mg/kg	100 mg/kg	94.6	80.0	120	----
Cadmium	7440-43-9	E440	0.02	mg/kg	10 mg/kg	99.5	80.0	120	----
Calcium	7440-70-2	E440	50	mg/kg	5000 mg/kg	99.4	80.0	120	----
Chromium	7440-47-3	E440	0.5	mg/kg	25 mg/kg	103	80.0	120	----
Cobalt	7440-48-4	E440	0.1	mg/kg	25 mg/kg	103	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	101	80.0	120	----
Lead	7439-92-1	E440	0.5	mg/kg	50 mg/kg	99.7	80.0	120	----
Lithium	7439-93-2	E440	2	mg/kg	25 mg/kg	101	80.0	120	----
Magnesium	7439-95-4	E440	20	mg/kg	5000 mg/kg	108	80.0	120	----
Manganese	7439-96-5	E440	1	mg/kg	25 mg/kg	103	80.0	120	----
Molybdenum	7439-98-7	E440	0.1	mg/kg	25 mg/kg	104	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	103	80.0	120	----
Potassium	7440-09-7	E440	100	mg/kg	5000 mg/kg	106	80.0	120	----
Selenium	7782-49-2	E440	0.2	mg/kg	100 mg/kg	104	80.0	120	----
Silver	7440-22-4	E440	0.1	mg/kg	10 mg/kg	97.8	80.0	120	----
Sodium	7440-23-5	E440	50	mg/kg	5000 mg/kg	104	80.0	120	----
Strontium	7440-24-6	E440	0.5	mg/kg	25 mg/kg	102	80.0	120	----
Sulfur	7704-34-9	E440	1000	mg/kg	5000 mg/kg	96.4	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: 2024981) - continued									
Thallium	7440-28-0	E440	0.05	mg/kg	100 mg/kg	98.7	80.0	120	----
Tin	7440-31-5	E440	2	mg/kg	50 mg/kg	98.5	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	100.0	80.0	120	----
Uranium	7440-61-1	E440	0.05	mg/kg	0.5 mg/kg	101	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	98.0	80.0	120	----
Zirconium	7440-67-7	E440	1	mg/kg	10 mg/kg	100	80.0	120	----
Metals (QCLot: 2028724)									
Silver	7440-22-4	E440.Ag	0.1	mg/kg	10 mg/kg	90.5	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: 2025432)										
VA25B2351-001	BA-2521-A-1	Mercury, TCLP	7439-97-6	E512	0.0028 mg/L	0.003 mg/L	92.5	50.0	140	----
TCLP Metals (QCLot: 2025990)										
VA25B2351-001	BA-2521-A-1	Antimony, TCLP	7440-36-0	E444	5.13 mg/L	5 mg/L	103	50.0	140	----
		Arsenic, TCLP	7440-38-2	E444	5.1 mg/L	5 mg/L	103	50.0	140	----
		Barium, TCLP	7440-39-3	E444	12.5 mg/L	12.5 mg/L	100	50.0	140	----
		Beryllium, TCLP	7440-41-7	E444	0.226 mg/L	0.25 mg/L	90.3	50.0	140	----
		Boron, TCLP	7440-42-8	E444	9.00 mg/L	10 mg/L	90.0	50.0	140	----
		Cadmium, TCLP	7440-43-9	E444	0.233 mg/L	0.25 mg/L	93.1	50.0	140	----
		Calcium, TCLP	7440-70-2	E444	ND mg/L	----	ND	50.0	140	----
		Chromium, TCLP	7440-47-3	E444	1.20 mg/L	1.25 mg/L	96.2	50.0	140	----
		Cobalt, TCLP	7440-48-4	E444	0.244 mg/L	0.25 mg/L	97.5	50.0	140	----
		Copper, TCLP	7440-50-8	E444	2.28 mg/L	2.5 mg/L	91.0	50.0	140	----
		Iron, TCLP	7439-89-6	E444	230 mg/L	250 mg/L	92.1	50.0	140	----
		Lead, TCLP	7439-92-1	E444	8.86 mg/L	10 mg/L	88.6	50.0	140	----
		Magnesium, TCLP	7439-95-4	E444	251 mg/L	250 mg/L	100	50.0	140	----
		Nickel, TCLP	7440-02-0	E444	2.37 mg/L	2.5 mg/L	94.8	50.0	140	----
		Selenium, TCLP	7782-49-2	E444	4.91 mg/L	5 mg/L	98.2	50.0	140	----
		Silver, TCLP	7440-22-4	E444	0.082 mg/L	0.1 mg/L	82.4	50.0	140	----
		Thallium, TCLP	7440-28-0	E444	4.6 mg/L	5 mg/L	92.1	50.0	140	----
		Uranium, TCLP	7440-61-1	E444	4.45 mg/L	5 mg/L	89.0	50.0	150	----
		Vanadium, TCLP	7440-62-2	E444	0.73 mg/L	0.75 mg/L	97.6	50.0	140	----
		Zinc, TCLP	7440-66-6	E444	9.21 mg/L	10 mg/L	92.1	50.0	140	----
		Zirconium, TCLP	7440-67-7	E444	0.8 mg/L	1 mg/L	82.0	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: 2024980)									
QC-2024980-003	MRCA-21	Mercury	7439-97-6	E510	0.068 mg/kg	91.4	70.0	130	----
Metals (QCLot: 2024981)									
QC-2024981-003	MRCA-21	Aluminum	7429-90-5	E440	22500 mg/kg	101	70.0	130	----
QC-2024981-003	MRCA-21	Antimony	7440-36-0	E440	24.8 mg/kg	97.5	70.0	130	----
QC-2024981-003	MRCA-21	Arsenic	7440-38-2	E440	21.2 mg/kg	92.6	70.0	130	----
QC-2024981-003	MRCA-21	Barium	7440-39-3	E440	788 mg/kg	96.5	70.0	130	----
QC-2024981-003	MRCA-21	Beryllium	7440-41-7	E440	1.82 mg/kg	98.7	70.0	130	----
QC-2024981-003	MRCA-21	Bismuth	7440-69-9	E440	1.78 mg/kg	74.0	70.0	130	----
QC-2024981-003	MRCA-21	Cadmium	7440-43-9	E440	2.15 mg/kg	92.0	70.0	130	----
QC-2024981-003	MRCA-21	Calcium	7440-70-2	E440	4900 mg/kg	96.1	70.0	130	----
QC-2024981-003	MRCA-21	Chromium	7440-47-3	E440	56.9 mg/kg	95.1	70.0	130	----
QC-2024981-003	MRCA-21	Cobalt	7440-48-4	E440	32 mg/kg	95.1	70.0	130	----
QC-2024981-003	MRCA-21	Copper	7440-50-8	E440	969 mg/kg	95.5	70.0	130	----
QC-2024981-003	MRCA-21	Iron	7439-89-6	E440	32700 mg/kg	94.8	70.0	130	----
QC-2024981-003	MRCA-21	Lead	7439-92-1	E440	919 mg/kg	86.3	70.0	130	----
QC-2024981-003	MRCA-21	Lithium	7439-93-2	E440	47.3 mg/kg	98.1	70.0	130	----
QC-2024981-003	MRCA-21	Magnesium	7439-95-4	E440	7780 mg/kg	98.5	70.0	130	----
QC-2024981-003	MRCA-21	Manganese	7439-96-5	E440	8640 mg/kg	95.6	70.0	130	----
QC-2024981-003	MRCA-21	Molybdenum	7439-98-7	E440	25.1 mg/kg	94.0	70.0	130	----
QC-2024981-003	MRCA-21	Nickel	7440-02-0	E440	1000 mg/kg	95.6	70.0	130	----
QC-2024981-003	MRCA-21	Phosphorus	7723-14-0	E440	660 mg/kg	91.9	70.0	130	----
QC-2024981-003	MRCA-21	Potassium	7440-09-7	E440	10800 mg/kg	96.2	70.0	130	----
QC-2024981-003	MRCA-21	Selenium	7782-49-2	E440	1.04 mg/kg	105	60.0	140	----
QC-2024981-003	MRCA-21	Silver	7440-22-4	E440	8.98 mg/kg	94.5	70.0	130	----
QC-2024981-003	MRCA-21	Sodium	7440-23-5	E440	1770 mg/kg	106	70.0	130	----
QC-2024981-003	MRCA-21	Strontium	7440-24-6	E440	41 mg/kg	94.9	70.0	130	----
QC-2024981-003	MRCA-21	Sulfur	7704-34-9	E440	3940 mg/kg	87.4	50.0	150	----
QC-2024981-003	MRCA-21	Thallium	7440-28-0	E440	0.907 mg/kg	89.0	70.0	130	----
QC-2024981-003	MRCA-21	Tin	7440-31-5	E440	3.79 mg/kg	88.6	40.0	160	----
QC-2024981-003	MRCA-21	Titanium	7440-32-6	E440	2790 mg/kg	99.4	70.0	130	----
QC-2024981-003	MRCA-21	Tungsten	7440-33-7	E440	6.99 mg/kg	103	70.0	130	----
QC-2024981-003	MRCA-21	Uranium	7440-61-1	E440	3.97 mg/kg	94.6	70.0	130	----
QC-2024981-003	MRCA-21	Vanadium	7440-62-2	E440	66.2 mg/kg	93.8	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: 2024981) - continued									
QC-2024981-003	MRCA-21	Zinc	7440-66-6	E440	828 mg/kg	92.5	70.0	130	----
QC-2024981-003	MRCA-21	Zirconium	7440-67-7	E440	6.91 mg/kg	96.1	70.0	130	----
Metals (QCLot: 2028724)									
QC-2028724-003	MRCA-21	Silver	7440-22-4	E440.Ag	8.98 mg/kg	97.6	70.0	130	----

ALS Environmental

Chain of Custody / Analytical Request Form
Canada Toll Free: 1 800 668 9878
www.alsglobal.com

COC # _____

Page 1 of 1

Report To		**Report Format / Distribution**	**Service Requested** (Rush for routine analysis subject to availability)
Company:	Veolia Canada / Burnaby Waste To Energy Facility	"Veolia Email Distribution List" please	
Contact:	Brian Graham / Darcie Grace		
Address:	5150 Riverbend Drive	Email 1: Darcie.grace@veolia.com	
	Burnaby BC	Email 2: lorenzo.ilao@veolia.com	
Phone:	604-521-1025 Fax:	Email 3: karen.thornquist@veolia.com	**Analysis**
		brent.kirkpatrick@metrovancouver.org	
		Sarah.Wellman@metrovancouver.org	
Invoice To	Same as Report ? Veolia Water Canada	**Client / Project Information**	Please indicate below Filtered, 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:**

Environmental Division
Vancouver
Work Order Reference
VA25B2351

Telephone : +1 604 253 4188

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 Contai
	BA 2521-A-1	21-May-25	9:00	Soil	X	X				X							1
	BA 2521-A-2	21-May-25	9:00	Soil	X	X				X							1
	BA 2521-A-3	21-May-25	9:00	Soil	X	X				X							1
	BA 2521-A-4	21-May-25	9:00	Soil	X	X				X							1
	BA 2521-A-5	21-May-25	9:00	Soil	X	X				X							1
	BA 2521-A-6	21-May-25	9:00	Soil	X	X				X							1
	BA 2521-A-7	21-May-25	9:00	Soil	X	X				X							1
	BA 2521-A-8	21-May-25	9:00	Soil	X	X				X							1
	BA 2521-A-9	21-May-25	9:00	Soil	X	X				X							1
	BA 2521-A-10	21-May-25	9:00	Soil	X	X				X							1
	BA 2521-A-11	21-May-25	9:00	Soil	X	X				X							1
	BA 2521-A-12	21-May-25	9:00	Soil	X	X				X							1
water Aquatic																	

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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
	26/05/2025	14:45				20,20 °C	DS	27-May	13:25	

GENF 20.00 Front

ALS Environmental

Chain of Custody / Analytical Request Form
Canada Toll Free: 1 800 668 9878
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COC # _____

Page 1 of 1

Report To		**Report Format / Distribution**	**Service Requested** (Rush for routine analysis subject to availability)
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Contact:	Brian Graham / Darcie Grace		
Address:	5150 Riverbend Drive	Email 1: Darcie.grace@veolia.com	
	Burnaby BC	Email 2: lorenzo.ilao@veolia.com	
Phone:	604-521-1025 Fax:	Email 3: karen.thornquist@veolia.com	**Analysis**
		brent.kirkpatrick@metrovancouver.org	
		Sarah.Wellman@metrovancouver.org	
Invoice To	Same as Report ? Veolia Water Canada	**Client / Project Information**	Please indicate below Filtered, 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:**

Environmental Division Vancouver
Work Order Reference
VA25B2351

Telephone : +1 604 253 4188

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 Contai
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	BA 2521-A-5	21-May-25	9:00	Soil	X	X				X							1
	BA 2521-A-6	21-May-25	9:00	Soil	X	X				X							1
	BA 2521-A-7	21-May-25	9:00	Soil	X	X				X							1
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	BA 2521-A-9	21-May-25	9:00	Soil	X	X				X							1
	BA 2521-A-10	21-May-25	9:00	Soil	X	X				X							1
	BA 2521-A-11	21-May-25	9:00	Soil	X	X				X							1
	BA 2521-A-12	21-May-25	9:00	Soil	X	X				X							1
water Aquatic																	

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numbers and

NT RELEASE (c	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
	26/05/2025	14:45				20,20 °C	DS	27-May	13:25	

Bottom Ash Worksheet

Date sample composited (DD/MM/YYYY)	26/05/2025
Person doing the sampling	COREY MURAIT
Total Sample Weight before processing, kg	36.86 kg
Weight of Material >3/8", kg	12.3 kg
Weight of Material that cannot be processed to <3/8" (metal, wood, etc), kg	9.9 kg
Final Total weight of Processed Bottom Ash, kg	26.96 kg

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

Completely fill twelve (12) 500ml sample containers and label each with "Bottom Ash" and the week the ash composite is from, i.e. "June 9-15, 2019"