

CERTIFICATE OF ANALYSIS (GUIDELINE EVALUATION)

Work Order	: VA25B9352		
Client	: Amrize Canada Inc.	Laboratory	: ALS Environmental - Vancouver
Contact	: Louise Bantok	Account Manager	: Gulraj Dhanaua
Address	: 2300 Rogers Ave	Address	: 8081 Lougheed Highway
	: Coquitlam British Columbia Canada V3K 5X6		: Burnaby BC Canada V5A 1W9
Telephone	: ----	Telephone	: +1 604 253 4188
Project	: VAID-Texada	Date Samples Received	: 06-Aug-2025 10:22
PO	: 4501936438	Date Analysis Commenced	: 09-Aug-2025
C-O-C number	: ----	Issue Date	: 13-Aug-2025 15:26
Sampler	: ----		
Site	: ----		
Quote number	: Lafarge Western Canada Standing Offer 2024		
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
- Guideline Comparison

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

Signatories

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

<i>Signatories</i>	<i>Position</i>	<i>Laboratory Department</i>
Ilnaz Badbezanchi		Metals, Burnaby, British Columbia
Robin Weeks		Organics, Burnaby, British Columbia



No Breaches Found

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.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to fitness for a particular purpose, or non-infringement. ALS assumes no responsibility for errors or omissions in the information. Guidelines are not adjusted for the hardness, pH or temperature of the sample (the most conservative values are used). Measurement uncertainty is not applied to test results prior to comparison with specified criteria values.

Key: LOR: Limit of Reporting (detection limit).

<i>Unit</i>	<i>Description</i>
mg/L	milligrams per litre
µg/L	micrograms per litre

>: greater than.

<: less than.

Red shading is applied where the result or the LOR is greater than the Guideline Upper Limit (or lower than the Guideline Lower Limit, if applicable).
For drinking water samples, Red shading is applied where the result for E.coli, fecal or total coliforms is greater than or equal to the Guideline Upper Limit.

Qualifiers

<i>Qualifier</i>	<i>Description</i>
DLM	Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity).



Analytical Results Evaluation

Matrix: Water

				Client sample ID	VA1-SITE#1 HOTEL ----	VA2-SITE#2 EARL ST ----	VA3-SITE#3 MARBLE BAY@ VAN ANDA ----	VA4-SITE#4 BLEWETT/SMELTE R ----	VA5-SITE#5 SELLENTIN@STU RT BAY RD ----	VA6-SITE#6 WALL ST PUMPHOUSE ----	VA7-SITE#7 COPPER QUEEN@ALLADIN ----
Client sampling date / time					05-Aug-2025 08:55	05-Aug-2025 08:15	05-Aug-2025 09:18	05-Aug-2025 09:26	05-Aug-2025 09:07	05-Aug-2025 09:40	05-Aug-2025 09:50
Sub-Matrix					Water	Water	Water	Water	Water	Water	Water
Analyte	CAS Number	Method/Lab	Unit		VA25B9352-001	VA25B9352-002	VA25B9352-003	VA25B9352-004	VA25B9352-005	VA25B9352-006	VA25B9352-007
				Result	Result	Result	Result	Result	Result	Result	Result
Physical Tests											
Hardness (as CaCO3), from total Ca/Mg	----	EC100A/VA	mg/L		115	117	116	116	115	119	118
Total Metals											
Aluminum, total	7429-90-5	E420/VA	mg/L		0.0135	0.0112	0.0128	0.0109	0.0110	0.0117	0.0100
Antimony, total	7440-36-0	E420/VA	mg/L		0.00131	0.00131	0.00135	0.00136	0.00132	0.00131	0.00134
Arsenic, total	7440-38-2	E420/VA	mg/L		0.00275	0.00269	0.00270	0.00253	0.00273	0.00275	0.00231
Barium, total	7440-39-3	E420/VA	mg/L		0.00662	0.00663	0.00655	0.00682	0.00658	0.00663	0.00684
Beryllium, total	7440-41-7	E420/VA	mg/L		<0.000100	<0.000100	<0.000100	<0.000100	<0.000100	<0.000100	<0.000100
Bismuth, total	7440-69-9	E420/VA	mg/L		<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	0.000072
Boron, total	7440-42-8	E420/VA	mg/L		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Cadmium, total	7440-43-9	E420/VA	mg/L		<0.0000050	<0.0000100 ^{DLM}	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000100 ^{DLM}
Calcium, total	7440-70-2	E420/VA	mg/L		41.7	42.4	42.1	42.4	41.8	43.0	42.8
Cesium, total	7440-46-2	E420/VA	mg/L		0.000024	0.000026	0.000023	0.000027	0.000022	0.000023	0.000024
Chromium, total	7440-47-3	E420/VA	mg/L		<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Cobalt, total	7440-48-4	E420/VA	mg/L		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Copper, total	7440-50-8	E420/VA	mg/L		0.00587	0.00478	0.00517	0.00637	0.00561	0.00557	0.0282
Iron, total	7439-89-6	E420/VA	mg/L		0.017	0.016	0.012	<0.010	0.045	<0.010	<0.010
Lead, total	7439-92-1	E420/VA	mg/L		0.000283	0.000356	0.000291	0.000598	0.000160	0.000615	0.00143
Lithium, total	7439-93-2	E420/VA	mg/L		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010



Matrix: Water

				Client sample ID	VA1-SITE#1 HOTEL ----	VA2-SITE#2 EARL ST ----	VA3-SITE#3 MARBLE BAY@ VAN ANDA ----	VA4-SITE#4 BLEWETT/SMELTE R ----	VA5-SITE#5 SELLENTIN@STU RT BAY RD ----	VA6-SITE#6 WALL ST PUMPHOUSE ----	VA7-SITE#7 COPPER QUEEN@ALLADIN ----
				Client sampling date / time	05-Aug-2025 08:55	05-Aug-2025 08:15	05-Aug-2025 09:18	05-Aug-2025 09:26	05-Aug-2025 09:07	05-Aug-2025 09:40	05-Aug-2025 09:50
				Sub-Matrix	Water	Water	Water	Water	Water	Water	Water
Analyte	CAS Number	Method/Lab	Unit		VA25B9352-001	VA25B9352-002	VA25B9352-003	VA25B9352-004	VA25B9352-005	VA25B9352-006	VA25B9352-007
				Result	Result	Result	Result	Result	Result	Result	Result
Total Metals											
Magnesium, total	7439-95-4	E420/VA	mg/L	2.61	2.77	2.56	2.54	2.63	2.76	2.71	
Manganese, total	7439-96-5	E420/VA	mg/L	0.0103	0.00317	0.00472	0.00271	0.00411	0.00302	0.00240	
Mercury, total	7439-97-6	E508/VA	mg/L	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	
Molybdenum, total	7439-98-7	E420/VA	mg/L	0.00590	0.00605	0.00587	0.00613	0.00599	0.00594	0.00508	
Nickel, total	7440-02-0	E420/VA	mg/L	<0.00050	<0.00050	0.00333	<0.00050	<0.00050	0.00068	<0.00050	
Phosphorus, total	7723-14-0	E420/VA	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	
Potassium, total	7440-09-7	E420/VA	mg/L	0.319	0.322	0.293	0.310	0.313	0.308	0.277	
Rubidium, total	7440-17-7	E420/VA	mg/L	0.00039	0.00039	0.00038	0.00039	0.00040	0.00036	0.00038	
Selenium, total	7782-49-2	E420/VA	mg/L	0.000497	0.000526	0.000589	0.000610	0.000493	0.000597	0.000468	
Silicon, total	7440-21-3	E420/VA	mg/L	2.52	2.43	2.41	2.48	2.45	2.45	2.46	
Silver, total	7440-22-4	E420/VA	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	
Sodium, total	7440-23-5	E420/VA	mg/L	11.6	12.4	9.12	10.8	11.8	10.1	5.57	
Strontium, total	7440-24-6	E420/VA	mg/L	0.179	0.178	0.177	0.188	0.181	0.174	0.180	
Sulfur, total	7704-34-9	E420/VA	mg/L	8.38	8.49	7.95	8.46	8.00	7.90	6.89	
Tellurium, total	13494-80-9	E420/VA	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	
Thallium, total	7440-28-0	E420/VA	mg/L	0.000016	0.000012	<0.000010	0.000026	0.000014	<0.000010	0.000010	
Thorium, total	7440-29-1	E420/VA	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	
Tin, total	7440-31-5	E420/VA	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	
Titanium, total	7440-32-6	E420/VA	mg/L	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	



Matrix: Water

				Client sample ID	VA1-SITE#1 HOTEL ----	VA2-SITE#2 EARL ST ----	VA3-SITE#3 MARBLE BAY@ VAN ANDA ----	VA4-SITE#4 BLEWETT/SMELTER ----	VA5-SITE#5 SELLENTIN@STUART BAY RD ----	VA6-SITE#6 WALL ST PUMPHOUSE ----	VA7-SITE#7 COPPER QUEEN@ALLADIN ----
				Client sampling date / time	05-Aug-2025 08:55	05-Aug-2025 08:15	05-Aug-2025 09:18	05-Aug-2025 09:26	05-Aug-2025 09:07	05-Aug-2025 09:40	05-Aug-2025 09:50
				Sub-Matrix	Water	Water	Water	Water	Water	Water	Water
Analyte	CAS Number	Method/Lab	Unit		VA25B9352-001	VA25B9352-002	VA25B9352-003	VA25B9352-004	VA25B9352-005	VA25B9352-006	VA25B9352-007
				Result	Result	Result	Result	Result	Result	Result	Result
Total Metals											
Tungsten, total	7440-33-7	E420/VA	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Uranium, total	7440-61-1	E420/VA	mg/L	0.00362	0.00355	0.00341	0.00337	0.00365	0.00357	0.00303	
Vanadium, total	7440-62-2	E420/VA	mg/L	0.00095	0.00091	0.00088	0.00084	0.00094	0.00091	0.00080	
Zinc, total	7440-66-6	E420/VA	mg/L	0.0036	0.0100	0.0189	0.0063	0.0085	0.0126	0.0520	
Zirconium, total	7440-67-7	E420/VA	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	

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

Matrix: Water

				Client sample ID	VA8-SITE#8 TANK OUTLET ----	VA9-SITE#9-WALL STREET END HYDRANT ----	VA10-SITE#10-MARBLE BAY & SELLENTIN ST ----	RAW SUPPLY ----	VA-DUP ----	----	----
				Client sampling date / time	05-Aug-2025 08:50	05-Aug-2025 09:33	05-Aug-2025 09:03	05-Aug-2025 08:45	05-Aug-2025 08:55	----	----
				Sub-Matrix	Water	Water	Water	Water	Water	----	----
Analyte	CAS Number	Method/Lab	Unit		VA25B9352-008	VA25B9352-009	VA25B9352-010	VA25B9352-011	VA25B9352-012	----	----
				Result	Result	Result	Result	Result	Result	----	----
Physical Tests											
Hardness (as CaCO3), from total Ca/Mg	----	EC100A/VA	mg/L	118	117	117	117	118	----	----	
Total Metals											
Aluminum, total	7429-90-5	E420/VA	mg/L	0.0109	0.0116	0.0119	0.0115	0.0115	----	----	
Antimony, total	7440-36-0	E420/VA	mg/L	0.00136	0.00130	0.00130	0.00135	0.00131	----	----	
Arsenic, total	7440-38-2	E420/VA	mg/L	0.00273	0.00297	0.00272	0.00344	0.00267	----	----	



Matrix: Water

				Client sample ID	VA8-SITE#8 TANK OUTLET ----	VA9-SITE#9-WALL STREET END HYDRANT ----	VA10-SITE#10- MARBLE BAY & SELLENTIN ST ----	RAW SUPPLY ----	VA-DUP ----	----	----
				Client sampling date / time	05-Aug-2025 08:50	05-Aug-2025 09:33	05-Aug-2025 09:03	05-Aug-2025 08:45	05-Aug-2025 08:55	----	----
				Sub-Matrix	Water	Water	Water	Water	Water	----	----
Analyte	CAS Number	Method/Lab	Unit		VA25B9352-008	VA25B9352-009	VA25B9352-010	VA25B9352-011	VA25B9352-012	----	----
				Result	Result	Result	Result	Result	Result	----	----
Total Metals											
Barium, total	7440-39-3	E420/VA	mg/L	0.00645	0.00641	0.00664	0.00708	0.00682	----	----	
Beryllium, total	7440-41-7	E420/VA	mg/L	<0.000100	<0.000100	<0.000100	<0.000100	<0.000100	----	----	
Bismuth, total	7440-69-9	E420/VA	mg/L	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	----	----	
Boron, total	7440-42-8	E420/VA	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	----	----	
Cadmium, total	7440-43-9	E420/VA	mg/L	<0.0000050	<0.0000050	<0.0000100 ^{DLM}	<0.000010 ^{DLM} 0	<0.0000050	----	----	
Calcium, total	7440-70-2	E420/VA	mg/L	43.0	42.4	42.2	42.0	42.6	----	----	
Cesium, total	7440-46-2	E420/VA	mg/L	0.000021	0.000022	0.000022	0.000021	0.000023	----	----	
Chromium, total	7440-47-3	E420/VA	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	----	----	
Cobalt, total	7440-48-4	E420/VA	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	----	----	
Copper, total	7440-50-8	E420/VA	mg/L	0.00520	0.0116	0.00691	0.00167	0.00604	----	----	
Iron, total	7439-89-6	E420/VA	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	----	----	
Lead, total	7439-92-1	E420/VA	mg/L	0.000599	0.000199	0.000939	0.000170	0.000288	----	----	
Lithium, total	7439-93-2	E420/VA	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	----	----	
Magnesium, total	7439-95-4	E420/VA	mg/L	2.68	2.63	2.82	2.85	2.80	----	----	
Manganese, total	7439-96-5	E420/VA	mg/L	0.00316	0.00256	0.00309	0.00819	0.00382	----	----	
Mercury, total	7439-97-6	E508/VA	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.000005 0	<0.0000050	----	----	
Molybdenum, total	7439-98-7	E420/VA	mg/L	0.00590	0.00560	0.00597	0.0111	0.00611	----	----	
Nickel, total	7440-02-0	E420/VA	mg/L	<0.00050	<0.00050	0.00544	<0.00050	<0.00050	----	----	
Phosphorus, total	7723-14-0	E420/VA	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	----	----	



Matrix: Water

				Client sample ID	VA8-SITE#8 TANK OUTLET ----	VA9-SITE#9-WALL STREET END HYDRANT ----	VA10-SITE#10- MARBLE BAY & SELLENTIN ST ----	RAW SUPPLY ----	VA-DUP ----	----	----
				Client sampling date / time	05-Aug-2025 08:50	05-Aug-2025 09:33	05-Aug-2025 09:03	05-Aug-2025 08:45	05-Aug-2025 08:55	----	----
				Sub-Matrix	Water	Water	Water	Water	Water	----	----
Analyte	CAS Number	Method/Lab	Unit		VA25B9352-008	VA25B9352-009	VA25B9352-010	VA25B9352-011	VA25B9352-012	----	----
				Result	Result	Result	Result	Result	Result	----	----
Total Metals											
Potassium, total	7440-09-7	E420/VA	mg/L	0.290	0.296	0.317	0.274	0.310	----	----	
Rubidium, total	7440-17-7	E420/VA	mg/L	0.00039	0.00038	0.00041	0.00037	0.00037	----	----	
Selenium, total	7782-49-2	E420/VA	mg/L	0.000570	0.000545	0.000540	0.000787	0.000511	----	----	
Silicon, total	7440-21-3	E420/VA	mg/L	2.46	2.50	2.54	2.44	2.45	----	----	
Silver, total	7440-22-4	E420/VA	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	----	----	
Sodium, total	7440-23-5	E420/VA	mg/L	8.88	9.09	11.4	3.36	11.7	----	----	
Strontium, total	7440-24-6	E420/VA	mg/L	0.178	0.182	0.181	0.180	0.177	----	----	
Sulfur, total	7704-34-9	E420/VA	mg/L	7.98	8.34	8.19	12.9	8.13	----	----	
Tellurium, total	13494-80-9	E420/VA	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	----	----	
Thallium, total	7440-28-0	E420/VA	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	0.000012	----	----	
Thorium, total	7440-29-1	E420/VA	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	----	----	
Tin, total	7440-31-5	E420/VA	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	----	----	
Titanium, total	7440-32-6	E420/VA	mg/L	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	----	----	
Tungsten, total	7440-33-7	E420/VA	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	----	----	
Uranium, total	7440-61-1	E420/VA	mg/L	0.00359	0.00307	0.00360	0.00847	0.00358	----	----	
Vanadium, total	7440-62-2	E420/VA	mg/L	0.00091	0.00100	0.00088	0.00123	0.00088	----	----	
Zinc, total	7440-66-6	E420/VA	mg/L	0.0075	0.0089	0.0130	0.0039	0.0037	----	----	
Zirconium, total	7440-67-7	E420/VA	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	----	----	



Matrix: Water

				Client sample ID	VA8-SITE#8 TANK OUTLET ----	VA9-SITE#9-WALL STREET END HYDRANT ----	VA10-SITE#10- MARBLE BAY & SELLENTIN ST ----	RAW SUPPLY ----	VA-DUP ----	----	----
				Client sampling date / time	05-Aug-2025 08:50	05-Aug-2025 09:33	05-Aug-2025 09:03	05-Aug-2025 08:45	05-Aug-2025 08:55	----	----
				Sub-Matrix	Water	Water	Water	Water	Water	----	----
Analyte	CAS Number	Method/Lab	Unit		VA25B9352-008	VA25B9352-009	VA25B9352-010	VA25B9352-011	VA25B9352-012	----	----
				Result	Result	Result	Result	Result	Result	----	----
Volatile Organic Compounds [THMs]											
Bromodichloromethane	75-27-4	E611B/VA	µg/L	5.7	7.1	----	----	----	----	----	----
Bromoform	75-25-2	E611B/VA	µg/L	<1.0	<1.0	----	----	----	----	----	----
Chloroform	67-66-3	E611B/VA	µg/L	90.5	132	----	----	----	----	----	----
Dibromochloromethane	124-48-1	E611B/VA	µg/L	<1.0	<1.0	----	----	----	----	----	----
Trihalomethanes [THMs], total	----	E611B/VA	µg/L	96.2	139	----	----	----	----	----	----
Volatile Organic Compounds [THMs] Surrogates											
Bromofluorobenzene, 4-	460-00-4	E611B/VA	%	103	102	----	----	----	----	----	----
Difluorobenzene, 1,4-	540-36-3	E611B/VA	%	104	104	----	----	----	----	----	----

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



Summary of Guideline Limits



CERTIFICATE OF ANALYSIS

Work Order	: VA25B9352	Laboratory	: ALS Environmental - Vancouver
Client	: Amrize Canada Inc.	Account Manager	: Gulraj Dhanaua
Contact	: Louise Bantok	Address	: 8081 Lougheed Highway
Address	: 2300 Rogers Ave Coquitlam British Columbia Canada V3K 5X6		: Burnaby BC Canada V5A 1W9
Telephone	: ----	E-mail	: Gulraj.Dhanaua@alsglobal.com
Project	: VAID-Texada	Telephone	: +1 604 253 4188
PO	: 4501936438	Date Samples Received	: 06-Aug-2025 10:22
C-O-C number	: ----	Date Analysis Commenced	: 09-Aug-2025
Sampler	: ----	Issue Date	: 13-Aug-2025 15:26
Site	: ----		
Quote number	: Lafarge Western Canada Standing Offer 2024		
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
- Surrogate Control Limits

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

Signatories

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

<i>Signatories</i>	<i>Position</i>	<i>Laboratory Department</i>
Ilnaz Badbezanchi		Metals, Burnaby, British Columbia
Robin Weeks		Organics, Burnaby, British Columbia



General Comments

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

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

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

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

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

<i>Unit</i>	<i>Description</i>
mg/L	milligrams per litre
µg/L	micrograms per litre

<: 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.

Qualifiers

<i>Qualifier</i>	<i>Description</i>
DLM	Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity).



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Client sample ID	VA1-SITE#1 HOTEL ----	VA2-SITE#2 EARL ST ----	VA3-SITE#3 MARBLE BAY@ VAN ANDA ----	VA4-SITE#4 BLEWETT/SMELTE R ----	VA5-SITE#5 SELLENTIN@STU RT BAY RD ----
					Client sampling date / time	05-Aug-2025 08:55	05-Aug-2025 08:15	05-Aug-2025 09:18	05-Aug-2025 09:26	05-Aug-2025 09:07
Analyte	CAS Number	Method/Lab	LOR	Unit	VA25B9352-001	VA25B9352-002	VA25B9352-003	VA25B9352-004	VA25B9352-005	
					Result	Result	Result	Result	Result	
Physical Tests										
Hardness (as CaCO3), from total Ca/Mg	----	EC100A/VA	0.60	mg/L	115	117	116	116	115	
Total Metals										
Aluminum, total	7429-90-5	E420/VA	0.0030	mg/L	0.0135	0.0112	0.0128	0.0109	0.0110	
Antimony, total	7440-36-0	E420/VA	0.00010	mg/L	0.00131	0.00131	0.00135	0.00136	0.00132	
Arsenic, total	7440-38-2	E420/VA	0.00010	mg/L	0.00275	0.00269	0.00270	0.00253	0.00273	
Barium, total	7440-39-3	E420/VA	0.00010	mg/L	0.00662	0.00663	0.00655	0.00682	0.00658	
Beryllium, total	7440-41-7	E420/VA	0.000100	mg/L	<0.000100	<0.000100	<0.000100	<0.000100	<0.000100	
Bismuth, total	7440-69-9	E420/VA	0.000050	mg/L	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	
Boron, total	7440-42-8	E420/VA	0.010	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	
Cadmium, total	7440-43-9	E420/VA	0.0000050	mg/L	<0.0000050	<0.0000100 ^{DLM}	<0.0000050	<0.0000050	<0.0000050	
Calcium, total	7440-70-2	E420/VA	0.050	mg/L	41.7	42.4	42.1	42.4	41.8	
Cesium, total	7440-46-2	E420/VA	0.000010	mg/L	0.000024	0.000026	0.000023	0.000027	0.000022	
Chromium, total	7440-47-3	E420/VA	0.00050	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	
Cobalt, total	7440-48-4	E420/VA	0.00010	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	
Copper, total	7440-50-8	E420/VA	0.00050	mg/L	0.00587	0.00478	0.00517	0.00637	0.00561	
Iron, total	7439-89-6	E420/VA	0.010	mg/L	0.017	0.016	0.012	<0.010	0.045	
Lead, total	7439-92-1	E420/VA	0.000050	mg/L	0.000283	0.000356	0.000291	0.000598	0.000160	
Lithium, total	7439-93-2	E420/VA	0.0010	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	
Magnesium, total	7439-95-4	E420/VA	0.0050	mg/L	2.61	2.77	2.56	2.54	2.63	
Manganese, total	7439-96-5	E420/VA	0.00010	mg/L	0.0103	0.00317	0.00472	0.00271	0.00411	



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Client sample ID	VA1-SITE#1 HOTEL ----	VA2-SITE#2 EARL ST ----	VA3-SITE#3 MARBLE BAY@ VAN ANDA ----	VA4-SITE#4 BLEWETT/SMELTE R ----	VA5-SITE#5 SELLENTIN@STU RT BAY RD ----
					Client sampling date / time	05-Aug-2025 08:55	05-Aug-2025 08:15	05-Aug-2025 09:18	05-Aug-2025 09:26	05-Aug-2025 09:07
Analyte	CAS Number	Method/Lab	LOR	Unit	VA25B9352-001	VA25B9352-002	VA25B9352-003	VA25B9352-004	VA25B9352-005	
					Result	Result	Result	Result	Result	
Total Metals										
Mercury, total	7439-97-6	E508/VA	0.000050	mg/L	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	
Molybdenum, total	7439-98-7	E420/VA	0.000050	mg/L	0.00590	0.00605	0.00587	0.00613	0.00599	
Nickel, total	7440-02-0	E420/VA	0.00050	mg/L	<0.00050	<0.00050	0.00333	<0.00050	<0.00050	
Phosphorus, total	7723-14-0	E420/VA	0.050	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	
Potassium, total	7440-09-7	E420/VA	0.050	mg/L	0.319	0.322	0.293	0.310	0.313	
Rubidium, total	7440-17-7	E420/VA	0.00020	mg/L	0.00039	0.00039	0.00038	0.00039	0.00040	
Selenium, total	7782-49-2	E420/VA	0.000050	mg/L	0.000497	0.000526	0.000589	0.000610	0.000493	
Silicon, total	7440-21-3	E420/VA	0.10	mg/L	2.52	2.43	2.41	2.48	2.45	
Silver, total	7440-22-4	E420/VA	0.000010	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	
Sodium, total	7440-23-5	E420/VA	0.050	mg/L	11.6	12.4	9.12	10.8	11.8	
Strontium, total	7440-24-6	E420/VA	0.00020	mg/L	0.179	0.178	0.177	0.188	0.181	
Sulfur, total	7704-34-9	E420/VA	0.50	mg/L	8.38	8.49	7.95	8.46	8.00	
Tellurium, total	13494-80-9	E420/VA	0.00020	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	
Thallium, total	7440-28-0	E420/VA	0.000010	mg/L	0.000016	0.000012	<0.000010	0.000026	0.000014	
Thorium, total	7440-29-1	E420/VA	0.00010	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	
Tin, total	7440-31-5	E420/VA	0.00010	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	
Titanium, total	7440-32-6	E420/VA	0.00030	mg/L	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	
Tungsten, total	7440-33-7	E420/VA	0.00010	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	
Uranium, total	7440-61-1	E420/VA	0.000010	mg/L	0.00362	0.00355	0.00341	0.00337	0.00365	
Vanadium, total	7440-62-2	E420/VA	0.00050	mg/L	0.00095	0.00091	0.00088	0.00084	0.00094	



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Client sample ID	VA1-SITE#1 HOTEL ----	VA2-SITE#2 EARL ST ----	VA3-SITE#3 MARBLE BAY@ VAN ANDA ----	VA4-SITE#4 BLEWETT/SMELTE R ----	VA5-SITE#5 SELLENTIN@STU RT BAY RD ----
					Client sampling date / time	05-Aug-2025 08:55	05-Aug-2025 08:15	05-Aug-2025 09:18	05-Aug-2025 09:26	05-Aug-2025 09:07
Analyte	CAS Number	Method/Lab	LOR	Unit	VA25B9352-001	VA25B9352-002	VA25B9352-003	VA25B9352-004	VA25B9352-005	
					Result	Result	Result	Result	Result	
Total Metals										
Zinc, total	7440-66-6	E420/VA	0.0030	mg/L	0.0036	0.0100	0.0189	0.0063	0.0085	
Zirconium, total	7440-67-7	E420/VA	0.00020	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	

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

Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Client sample ID	VA6-SITE#6 WALL ST PUMPHOUSE ----	VA7-SITE#7 COPPER QUEEN@ALLADIN ----	VA8-SITE#8 TANK OUTLET ----	VA9-SITE#9-WALL STREET END HYDRANT ----	VA10-SITE#10- MARBLE BAY & SELLENTIN ST ----
					Client sampling date / time	05-Aug-2025 09:40	05-Aug-2025 09:50	05-Aug-2025 08:50	05-Aug-2025 09:33	05-Aug-2025 09:03
Analyte	CAS Number	Method/Lab	LOR	Unit	VA25B9352-006	VA25B9352-007	VA25B9352-008	VA25B9352-009	VA25B9352-010	
					Result	Result	Result	Result	Result	
Physical Tests										
Hardness (as CaCO3), from total Ca/Mg	----	EC100A/VA	0.60	mg/L	119	118	118	117	117	
Total Metals										
Aluminum, total	7429-90-5	E420/VA	0.0030	mg/L	0.0117	0.0100	0.0109	0.0116	0.0119	
Antimony, total	7440-36-0	E420/VA	0.00010	mg/L	0.00131	0.00134	0.00136	0.00130	0.00130	
Arsenic, total	7440-38-2	E420/VA	0.00010	mg/L	0.00275	0.00231	0.00273	0.00297	0.00272	
Barium, total	7440-39-3	E420/VA	0.00010	mg/L	0.00663	0.00684	0.00645	0.00641	0.00664	
Beryllium, total	7440-41-7	E420/VA	0.000100	mg/L	<0.000100	<0.000100	<0.000100	<0.000100	<0.000100	
Bismuth, total	7440-69-9	E420/VA	0.000050	mg/L	<0.000050	0.000072	<0.000050	<0.000050	<0.000050	
Boron, total	7440-42-8	E420/VA	0.010	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	
Cadmium, total	7440-43-9	E420/VA	0.0000050	mg/L	<0.0000050	<0.0000100 ^{DLM}	<0.0000050	<0.0000050	<0.0000100 ^{DLM}	
Calcium, total	7440-70-2	E420/VA	0.050	mg/L	43.0	42.8	43.0	42.4	42.2	



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Client sample ID	VA6-SITE#6 WALL ST PUMPHOUSE ----	VA7-SITE#7 COPPER QUEEN@ALLADIN ----	VA8-SITE#8 TANK OUTLET ----	VA9-SITE#9-WALL STREET END HYDRANT ----	VA10-SITE#10- MARBLE BAY & SELLENTIN ST ----
					Client sampling date / time	05-Aug-2025 09:40	05-Aug-2025 09:50	05-Aug-2025 08:50	05-Aug-2025 09:33	05-Aug-2025 09:03
Analyte	CAS Number	Method/Lab	LOR	Unit	VA25B9352-006	VA25B9352-007	VA25B9352-008	VA25B9352-009	VA25B9352-010	
					Result	Result	Result	Result	Result	
Total Metals										
Cesium, total	7440-46-2	E420/VA	0.000010	mg/L	0.000023	0.000024	0.000021	0.000022	0.000022	
Chromium, total	7440-47-3	E420/VA	0.00050	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	
Cobalt, total	7440-48-4	E420/VA	0.00010	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	
Copper, total	7440-50-8	E420/VA	0.00050	mg/L	0.00557	0.0282	0.00520	0.0116	0.00691	
Iron, total	7439-89-6	E420/VA	0.010	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	
Lead, total	7439-92-1	E420/VA	0.000050	mg/L	0.000615	0.00143	0.000599	0.000199	0.000939	
Lithium, total	7439-93-2	E420/VA	0.0010	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	
Magnesium, total	7439-95-4	E420/VA	0.0050	mg/L	2.76	2.71	2.68	2.63	2.82	
Manganese, total	7439-96-5	E420/VA	0.00010	mg/L	0.00302	0.00240	0.00316	0.00256	0.00309	
Mercury, total	7439-97-6	E508/VA	0.0000050	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	
Molybdenum, total	7439-98-7	E420/VA	0.000050	mg/L	0.00594	0.00508	0.00590	0.00560	0.00597	
Nickel, total	7440-02-0	E420/VA	0.00050	mg/L	0.00068	<0.00050	<0.00050	<0.00050	0.00544	
Phosphorus, total	7723-14-0	E420/VA	0.050	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	
Potassium, total	7440-09-7	E420/VA	0.050	mg/L	0.308	0.277	0.290	0.296	0.317	
Rubidium, total	7440-17-7	E420/VA	0.00020	mg/L	0.00036	0.00038	0.00039	0.00038	0.00041	
Selenium, total	7782-49-2	E420/VA	0.000050	mg/L	0.000597	0.000468	0.000570	0.000545	0.000540	
Silicon, total	7440-21-3	E420/VA	0.10	mg/L	2.45	2.46	2.46	2.50	2.54	
Silver, total	7440-22-4	E420/VA	0.000010	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	
Sodium, total	7440-23-5	E420/VA	0.050	mg/L	10.1	5.57	8.88	9.09	11.4	
Strontium, total	7440-24-6	E420/VA	0.00020	mg/L	0.174	0.180	0.178	0.182	0.181	



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Client sample ID	VA6-SITE#6 WALL ST PUMPHOUSE ----	VA7-SITE#7 COPPER QUEEN@ALLADIN ----	VA8-SITE#8 TANK OUTLET ----	VA9-SITE#9-WALL STREET END HYDRANT ----	VA10-SITE#10- MARBLE BAY & SELLENTIN ST ----
					Client sampling date / time	05-Aug-2025 09:40	05-Aug-2025 09:50	05-Aug-2025 08:50	05-Aug-2025 09:33	05-Aug-2025 09:03
Analyte	CAS Number	Method/Lab	LOR	Unit	VA25B9352-006	VA25B9352-007	VA25B9352-008	VA25B9352-009	VA25B9352-010	
					Result	Result	Result	Result	Result	
Total Metals										
Sulfur, total	7704-34-9	E420/VA	0.50	mg/L	7.90	6.89	7.98	8.34	8.19	
Tellurium, total	13494-80-9	E420/VA	0.00020	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	
Thallium, total	7440-28-0	E420/VA	0.000010	mg/L	<0.000010	0.000010	<0.000010	<0.000010	<0.000010	
Thorium, total	7440-29-1	E420/VA	0.00010	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	
Tin, total	7440-31-5	E420/VA	0.00010	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	
Titanium, total	7440-32-6	E420/VA	0.00030	mg/L	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	
Tungsten, total	7440-33-7	E420/VA	0.00010	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	
Uranium, total	7440-61-1	E420/VA	0.000010	mg/L	0.00357	0.00303	0.00359	0.00307	0.00360	
Vanadium, total	7440-62-2	E420/VA	0.00050	mg/L	0.00091	0.00080	0.00091	0.00100	0.00088	
Zinc, total	7440-66-6	E420/VA	0.0030	mg/L	0.0126	0.0520	0.0075	0.0089	0.0130	
Zirconium, total	7440-67-7	E420/VA	0.00020	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	
Volatile Organic Compounds [THMs]										
Bromodichloromethane	75-27-4	E611B/VA	1.0	µg/L	----	----	5.7	7.1	----	
Bromoform	75-25-2	E611B/VA	1.0	µg/L	----	----	<1.0	<1.0	----	
Chloroform	67-66-3	E611B/VA	1.0	µg/L	----	----	90.5	132	----	
Dibromochloromethane	124-48-1	E611B/VA	1.0	µg/L	----	----	<1.0	<1.0	----	
Trihalomethanes [THMs], total	----	E611B/VA	2.0	µg/L	----	----	96.2	139	----	
Volatile Organic Compounds [THMs] Surrogates										
Bromofluorobenzene, 4-	460-00-4	E611B/VA	1.0	%	----	----	103	102	----	
Difluorobenzene, 1,4-	540-36-3	E611B/VA	1.0	%	----	----	104	104	----	

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



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Client sample ID	RAW SUPPLY	VA-DUP	----	----	----
					Client sampling date / time	05-Aug-2025 08:45	05-Aug-2025 08:55	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	VA25B9352-011	VA25B9352-012	----	----	----	----
					Result	Result	----	----	----	----
Physical Tests										
Hardness (as CaCO3), from total Ca/Mg	----	EC100A/VA	0.60	mg/L	117	118	----	----	----	----
Total Metals										
Aluminum, total	7429-90-5	E420/VA	0.0030	mg/L	0.0115	0.0115	----	----	----	----
Antimony, total	7440-36-0	E420/VA	0.00010	mg/L	0.00135	0.00131	----	----	----	----
Arsenic, total	7440-38-2	E420/VA	0.00010	mg/L	0.00344	0.00267	----	----	----	----
Barium, total	7440-39-3	E420/VA	0.00010	mg/L	0.00708	0.00682	----	----	----	----
Beryllium, total	7440-41-7	E420/VA	0.000100	mg/L	<0.000100	<0.000100	----	----	----	----
Bismuth, total	7440-69-9	E420/VA	0.000050	mg/L	<0.000050	<0.000050	----	----	----	----
Boron, total	7440-42-8	E420/VA	0.010	mg/L	<0.010	<0.010	----	----	----	----
Cadmium, total	7440-43-9	E420/VA	0.0000050	mg/L	<0.0000100 ^{DLM}	<0.0000050	----	----	----	----
Calcium, total	7440-70-2	E420/VA	0.050	mg/L	42.0	42.6	----	----	----	----
Cesium, total	7440-46-2	E420/VA	0.000010	mg/L	0.000021	0.000023	----	----	----	----
Chromium, total	7440-47-3	E420/VA	0.00050	mg/L	<0.00050	<0.00050	----	----	----	----
Cobalt, total	7440-48-4	E420/VA	0.00010	mg/L	<0.00010	<0.00010	----	----	----	----
Copper, total	7440-50-8	E420/VA	0.00050	mg/L	0.00167	0.00604	----	----	----	----
Iron, total	7439-89-6	E420/VA	0.010	mg/L	<0.010	<0.010	----	----	----	----
Lead, total	7439-92-1	E420/VA	0.000050	mg/L	0.000170	0.000288	----	----	----	----
Lithium, total	7439-93-2	E420/VA	0.0010	mg/L	<0.0010	<0.0010	----	----	----	----
Magnesium, total	7439-95-4	E420/VA	0.0050	mg/L	2.85	2.80	----	----	----	----
Manganese, total	7439-96-5	E420/VA	0.00010	mg/L	0.00819	0.00382	----	----	----	----
Mercury, total	7439-97-6	E508/VA	0.0000050	mg/L	<0.0000050	<0.0000050	----	----	----	----



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Client sample ID	RAW SUPPLY	VA-DUP	----	----	----
					Client sampling date / time	05-Aug-2025 08:45	05-Aug-2025 08:55	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	VA25B9352-011	VA25B9352-012	----	----	----	
					Result	Result	----	----	----	
Total Metals										
Molybdenum, total	7439-98-7	E420/VA	0.000050	mg/L	0.0111	0.00611	----	----	----	
Nickel, total	7440-02-0	E420/VA	0.00050	mg/L	<0.00050	<0.00050	----	----	----	
Phosphorus, total	7723-14-0	E420/VA	0.050	mg/L	<0.050	<0.050	----	----	----	
Potassium, total	7440-09-7	E420/VA	0.050	mg/L	0.274	0.310	----	----	----	
Rubidium, total	7440-17-7	E420/VA	0.00020	mg/L	0.00037	0.00037	----	----	----	
Selenium, total	7782-49-2	E420/VA	0.000050	mg/L	0.000787	0.000511	----	----	----	
Silicon, total	7440-21-3	E420/VA	0.10	mg/L	2.44	2.45	----	----	----	
Silver, total	7440-22-4	E420/VA	0.000010	mg/L	<0.000010	<0.000010	----	----	----	
Sodium, total	7440-23-5	E420/VA	0.050	mg/L	3.36	11.7	----	----	----	
Strontium, total	7440-24-6	E420/VA	0.00020	mg/L	0.180	0.177	----	----	----	
Sulfur, total	7704-34-9	E420/VA	0.50	mg/L	12.9	8.13	----	----	----	
Tellurium, total	13494-80-9	E420/VA	0.00020	mg/L	<0.00020	<0.00020	----	----	----	
Thallium, total	7440-28-0	E420/VA	0.000010	mg/L	<0.000010	0.000012	----	----	----	
Thorium, total	7440-29-1	E420/VA	0.00010	mg/L	<0.00010	<0.00010	----	----	----	
Tin, total	7440-31-5	E420/VA	0.00010	mg/L	<0.00010	<0.00010	----	----	----	
Titanium, total	7440-32-6	E420/VA	0.00030	mg/L	<0.00030	<0.00030	----	----	----	
Tungsten, total	7440-33-7	E420/VA	0.00010	mg/L	<0.00010	<0.00010	----	----	----	
Uranium, total	7440-61-1	E420/VA	0.000010	mg/L	0.00847	0.00358	----	----	----	
Vanadium, total	7440-62-2	E420/VA	0.00050	mg/L	0.00123	0.00088	----	----	----	
Zinc, total	7440-66-6	E420/VA	0.0030	mg/L	0.0039	0.0037	----	----	----	
Zirconium, total	7440-67-7	E420/VA	0.00020	mg/L	<0.00020	<0.00020	----	----	----	



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



QUALITY CONTROL INTERPRETIVE REPORT

<p>Work Order : VA25B9352</p> <p>Client : Amrize Canada Inc.</p> <p>Contact : Louise Bantok</p> <p>Address : 2300 Rogers Ave Coquitlam BC Canada V3K 5X6</p> <p>Telephone : ----</p> <p>Project : VAID-Texada</p> <p>PO : 4501936438</p> <p>C-O-C number : ----</p> <p>Sampler : ----</p> <p>Site : ----</p> <p>Quote number : Lafarge Western Canada Standing Offer 2024</p> <p>No. of samples received : 12</p> <p>No. of samples analysed : 12</p>	<p>Page : 1 of 8</p> <p>Laboratory : ALS Environmental - Vancouver</p> <p>Account Manager : Gulraj Dhanaua</p> <p>Address : 8081 Lougheed Highway Burnaby, British Columbia Canada V5A 1W9</p> <p>Telephone : +1 604 253 4188</p> <p>Date Samples Received : 06-Aug-2025 10:22</p> <p>Issue Date : 13-Aug-2025 15:26</p>
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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 Duplicate outliers occur.
- No Laboratory Control Sample (LCS) outliers occur
- No Matrix Spike outliers occur.
- No Test sample Surrogate recovery outliers exist.

Outliers: Reference Material (RM) Samples

- No Reference Material (RM) Sample outliers occur.

Outliers : Analysis Holding Time Compliance (Breaches)

- No Analysis Holding Time Outliers exist.

Outliers : Frequency of Quality Control Samples

- No Quality Control Sample Frequency Outliers occur.



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: **Water** 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		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Total Metals : Total Mercury in Water by CVAAS										
Glass vial - total (lab preserved) VA7-SITE#7 COPPER QUEEN@ALLADIN	E508	05-Aug-2025	11-Aug-2025	28 days	6 days	✔	11-Aug-2025	28 days	6 days	✔
Total Metals : Total Mercury in Water by CVAAS										
Glass vial - total (lab preserved) RAW SUPPLY	E508	05-Aug-2025	12-Aug-2025	28 days	7 days	✔	12-Aug-2025	28 days	7 days	✔
Total Metals : Total Mercury in Water by CVAAS										
Glass vial - total (lab preserved) VA10-SITE#10-MARBLE BAY & SELLENTIN ST	E508	05-Aug-2025	12-Aug-2025	28 days	7 days	✔	12-Aug-2025	28 days	7 days	✔
Total Metals : Total Mercury in Water by CVAAS										
Glass vial - total (lab preserved) VA1-SITE#1 HOTEL	E508	05-Aug-2025	11-Aug-2025	28 days	7 days	✔	11-Aug-2025	28 days	7 days	✔
Total Metals : Total Mercury in Water by CVAAS										
Glass vial - total (lab preserved) VA2-SITE#2 EARL ST	E508	05-Aug-2025	11-Aug-2025	28 days	7 days	✔	11-Aug-2025	28 days	7 days	✔
Total Metals : Total Mercury in Water by CVAAS										
Glass vial - total (lab preserved) VA3-SITE#3 MARBLE BAY@ VAN ANDA	E508	05-Aug-2025	11-Aug-2025	28 days	7 days	✔	11-Aug-2025	28 days	7 days	✔
Total Metals : Total Mercury in Water by CVAAS										
Glass vial - total (lab preserved) VA4-SITE#4 BLEWETT/SMELTER	E508	05-Aug-2025	11-Aug-2025	28 days	7 days	✔	11-Aug-2025	28 days	7 days	✔



Matrix: **Water** 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		Eval	Analysis Date	Holding Times		Eval	
				Rec	Actual			Rec	Actual		
Total Metals : Total Mercury in Water by CVAAS											
Glass vial - total (lab preserved) VA5-SITE#5 SELLENTIN@STURT BAY RD	E508	05-Aug-2025	11-Aug-2025	28 days	7 days	✓	11-Aug-2025	28 days	7 days	✓	
Total Metals : Total Mercury in Water by CVAAS											
Glass vial - total (lab preserved) VA6-SITE#6 WALL ST PUMPHOUSE	E508	05-Aug-2025	11-Aug-2025	28 days	7 days	✓	11-Aug-2025	28 days	7 days	✓	
Total Metals : Total Mercury in Water by CVAAS											
Glass vial - total (lab preserved) VA8-SITE#8 TANK OUTLET	E508	05-Aug-2025	12-Aug-2025	28 days	7 days	✓	12-Aug-2025	28 days	7 days	✓	
Total Metals : Total Mercury in Water by CVAAS											
Glass vial - total (lab preserved) VA9-SITE#9-WALL STREET END HYDRANT	E508	05-Aug-2025	12-Aug-2025	28 days	7 days	✓	12-Aug-2025	28 days	7 days	✓	
Total Metals : Total Mercury in Water by CVAAS											
Glass vial - total (lab preserved) VA-DUP	E508	05-Aug-2025	12-Aug-2025	28 days	7 days	✓	12-Aug-2025	28 days	7 days	✓	
Total Metals : Total Metals in Water by CRC ICPMS											
HDPE - total (lab preserved) RAW SUPPLY	E420	05-Aug-2025	08-Aug-2025	180 days	3 days	✓	09-Aug-2025	180 days	3 days	✓	
Total Metals : Total Metals in Water by CRC ICPMS											
HDPE - total (lab preserved) VA10-SITE#10-MARBLE BAY & SELLENTIN ST	E420	05-Aug-2025	08-Aug-2025	180 days	3 days	✓	09-Aug-2025	180 days	3 days	✓	
Total Metals : Total Metals in Water by CRC ICPMS											
HDPE - total (lab preserved) VA1-SITE#1 HOTEL	E420	05-Aug-2025	08-Aug-2025	180 days	3 days	✓	09-Aug-2025	180 days	3 days	✓	
Total Metals : Total Metals in Water by CRC ICPMS											
HDPE - total (lab preserved) VA2-SITE#2 EARL ST	E420	05-Aug-2025	08-Aug-2025	180 days	3 days	✓	09-Aug-2025	180 days	3 days	✓	



Matrix: **Water** 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		Eval	Analysis Date	Holding Times		Eval	
				Rec	Actual			Rec	Actual		
Total Metals : Total Metals in Water by CRC ICPMS											
HDPE - total (lab preserved) VA3-SITE#3 MARBLE BAY@ VAN ANDA	E420	05-Aug-2025	08-Aug-2025	180 days	3 days	✓	09-Aug-2025	180 days	3 days	✓	
Total Metals : Total Metals in Water by CRC ICPMS											
HDPE - total (lab preserved) VA4-SITE#4 BLEWETT/SMELTER	E420	05-Aug-2025	08-Aug-2025	180 days	3 days	✓	09-Aug-2025	180 days	3 days	✓	
Total Metals : Total Metals in Water by CRC ICPMS											
HDPE - total (lab preserved) VA5-SITE#5 SELLENTIN@STURT BAY RD	E420	05-Aug-2025	08-Aug-2025	180 days	3 days	✓	09-Aug-2025	180 days	3 days	✓	
Total Metals : Total Metals in Water by CRC ICPMS											
HDPE - total (lab preserved) VA6-SITE#6 WALL ST PUMPHOUSE	E420	05-Aug-2025	08-Aug-2025	180 days	3 days	✓	09-Aug-2025	180 days	3 days	✓	
Total Metals : Total Metals in Water by CRC ICPMS											
HDPE - total (lab preserved) VA7-SITE#7 COPPER QUEEN@ALLADIN	E420	05-Aug-2025	08-Aug-2025	180 days	3 days	✓	09-Aug-2025	180 days	3 days	✓	
Total Metals : Total Metals in Water by CRC ICPMS											
HDPE - total (lab preserved) VA8-SITE#8 TANK OUTLET	E420	05-Aug-2025	08-Aug-2025	180 days	3 days	✓	09-Aug-2025	180 days	3 days	✓	
Total Metals : Total Metals in Water by CRC ICPMS											
HDPE - total (lab preserved) VA9-SITE#9-WALL STREET END HYDRANT	E420	05-Aug-2025	08-Aug-2025	180 days	3 days	✓	09-Aug-2025	180 days	3 days	✓	
Total Metals : Total Metals in Water by CRC ICPMS											
HDPE - total (lab preserved) VA-DUP	E420	05-Aug-2025	08-Aug-2025	180 days	3 days	✓	09-Aug-2025	180 days	3 days	✓	
Volatile Organic Compounds [THMs] : THMs by Headspace GC-MS											
Glass vial (sodium thiosulfate) VA8-SITE#8 TANK OUTLET	E611B	05-Aug-2025	12-Aug-2025	14 days	8 days	✓	13-Aug-2025	14 days	8 days	✓	



Matrix: **Water** 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		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Volatile Organic Compounds [THMs] : THMs by Headspace GC-MS										
Glass vial (sodium thiosulfate) VA9-SITE#9-WALL STREET END HYDRANT	E611B	05-Aug-2025	12-Aug-2025	14 days	8 days	✔	13-Aug-2025	14 days	8 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: **Water** Evaluation: ✖ = QC frequency outside specification; ✔ = QC frequency within specification.

Quality Control Sample Type	Method	QC Lot #	Count		Frequency (%)		
			QC	Regular	Actual	Expected	Evaluation
Analytical Methods							
Laboratory Duplicates (DUP)							
Total Metals in Water by CRC ICPMS	E420	2146258	1	20	5.0	5.0	✔
Total Mercury in Water by CVAAS	E508	2154437	2	40	5.0	5.0	✔
THMs by Headspace GC-MS	E611B	2156910	1	9	11.1	5.0	✔
Laboratory Control Samples (LCS)							
Total Metals in Water by CRC ICPMS	E420	2146258	1	20	5.0	5.0	✔
Total Mercury in Water by CVAAS	E508	2154437	2	40	5.0	5.0	✔
THMs by Headspace GC-MS	E611B	2156910	1	9	11.1	5.0	✔
Method Blanks (MB)							
Total Metals in Water by CRC ICPMS	E420	2146258	1	20	5.0	5.0	✔
Total Mercury in Water by CVAAS	E508	2154437	2	40	5.0	5.0	✔
THMs by Headspace GC-MS	E611B	2156910	1	9	11.1	5.0	✔
Matrix Spikes (MS)							
Total Metals in Water by CRC ICPMS	E420	2146258	1	20	5.0	5.0	✔
Total Mercury in Water by CVAAS	E508	2154437	2	40	5.0	5.0	✔
THMs by Headspace GC-MS	E611B	2156910	1	9	11.1	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
Total Metals in Water by CRC ICPMS	E420 ALS Environmental - Vancouver	Water	EPA 200.2/6020B (mod)	Water samples are digested with nitric and hydrochloric acids, and analyzed by Collision/Reaction Cell ICPMS. Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.
Total Mercury in Water by CVAAS	E508 ALS Environmental - Vancouver	Water	EPA 1631E (mod)	Water samples undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed by CVAAS
THMs by Headspace GC-MS	E611B ALS Environmental - Vancouver	Water	EPA 8260D (mod)	Volatile Organic Compounds (VOCs) are analyzed by static headspace GC-MS. Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler, causing VOCs to partition between the aqueous phase and the headspace in accordance with Henry's law.
Hardness (Calculated) from Total Ca/Mg	EC100A ALS Environmental - Vancouver	Water	APHA 2340B	"Hardness (as CaCO ₃), from total Ca/Mg" is calculated from the sum of total Calcium and Magnesium concentrations, expressed as CaCO ₃ equivalents. "Total Hardness" refers to the sum of Calcium and Magnesium Hardness. Hardness is normally or preferentially calculated from dissolved Calcium and Magnesium concentrations, because hardness is a property of water due to dissolved divalent cations. In non-turbid waters, Hardness from total Ca/Mg is normally comparable to Dissolved Hardness, but may be biased high if particulate forms of Ca or Mg are present.
Preparation Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
VOCs Preparation for Headspace Analysis	EP581 ALS Environmental - Vancouver	Water	EPA 5021A (mod)	Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler. An aliquot of the headspace is then injected into a GC-MS-FID.



QUALITY CONTROL REPORT

<p>Work Order : VA25B9352</p> <p>Client : Amrize Canada Inc.</p> <p>Contact : Louise Bantok</p> <p>Address : 2300 Rogers Ave Coquitlam BC Canada V3K 5X6</p> <p>Telephone : ----</p> <p>Project : VAID-Texada</p> <p>PO : 4501936438</p> <p>C-O-C number : ----</p> <p>Sampler : ----</p> <p>Site : ----</p> <p>Quote number : Lafarge Western Canada Standing Offer 2024</p> <p>No. of samples received : 12</p> <p>No. of samples analysed : 12</p>	<p>Page : 1 of 10</p> <p>Laboratory : ALS Environmental - Vancouver</p> <p>Account Manager : Gulraj Dhanaua</p> <p>Address : 8081 Lougheed Highway Burnaby, British Columbia Canada V5A 1W9</p> <p>Telephone : +1 604 253 4188</p> <p>Date Samples Received : 06-Aug-2025 10:22</p> <p>Date Analysis Commenced : 08-Aug-2025</p> <p>Issue Date : 13-Aug-2025 15:26</p>
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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
- Method Blank (MB) Report; Recovery and Data Quality Objectives
- Laboratory Control Sample (LCS) Report; Recovery and Data Quality Objectives

Signatories

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

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

Page : 2 of 10
Work Order : VA25B9352
Client : Amrize Canada Inc.
Project : VAID-Texada



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: Water					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
Total Metals (QC Lot: 2146258)											
KS2503101-001	Anonymous	Aluminum, total	7429-90-5	E420	0.0030	mg/L	<0.0030	<0.0030	0	Diff <2x LOR	----
		Antimony, total	7440-36-0	E420	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	----
		Arsenic, total	7440-38-2	E420	0.00010	mg/L	0.00013	0.00012	0.00002	Diff <2x LOR	----
		Barium, total	7440-39-3	E420	0.00010	mg/L	0.0615	0.0639	3.92%	20%	----
		Beryllium, total	7440-41-7	E420	0.000020	mg/L	<0.000020	<0.000020	0	Diff <2x LOR	----
		Bismuth, total	7440-69-9	E420	0.000050	mg/L	<0.000050	<0.000050	0	Diff <2x LOR	----
		Boron, total	7440-42-8	E420	0.010	mg/L	0.013	0.014	0.0005	Diff <2x LOR	----
		Cadmium, total	7440-43-9	E420	0.0000050	mg/L	<0.0000050	<0.0000050	0	Diff <2x LOR	----
		Calcium, total	7440-70-2	E420	0.050	mg/L	39.8	40.6	2.06%	20%	----
		Cesium, total	7440-46-2	E420	0.000010	mg/L	<0.000010	<0.000010	0	Diff <2x LOR	----
		Chromium, total	7440-47-3	E420	0.00050	mg/L	<0.00050	<0.00050	0	Diff <2x LOR	----
		Cobalt, total	7440-48-4	E420	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	----
		Copper, total	7440-50-8	E420	0.00050	mg/L	0.00093	0.00095	0.00002	Diff <2x LOR	----
		Iron, total	7439-89-6	E420	0.010	mg/L	<0.010	<0.010	0	Diff <2x LOR	----
		Lead, total	7439-92-1	E420	0.000050	mg/L	<0.000050	0.000056	0.000006	Diff <2x LOR	----
		Lithium, total	7439-93-2	E420	0.0010	mg/L	<0.0010	<0.0010	0	Diff <2x LOR	----
		Magnesium, total	7439-95-4	E420	0.0050	mg/L	10.7	10.4	2.08%	20%	----
		Manganese, total	7439-96-5	E420	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	----
		Molybdenum, total	7439-98-7	E420	0.000050	mg/L	0.000618	0.000647	4.62%	20%	----
		Nickel, total	7440-02-0	E420	0.00050	mg/L	<0.00050	<0.00050	0	Diff <2x LOR	----
		Phosphorus, total	7723-14-0	E420	0.050	mg/L	<0.050	<0.050	0	Diff <2x LOR	----
		Potassium, total	7440-09-7	E420	0.050	mg/L	1.32	1.34	1.46%	20%	----
		Rubidium, total	7440-17-7	E420	0.00020	mg/L	<0.00020	0.00020	0.000002	Diff <2x LOR	----
		Selenium, total	7782-49-2	E420	0.000050	mg/L	0.000103	0.000092	0.000011	Diff <2x LOR	----
		Silicon, total	7440-21-3	E420	0.10	mg/L	6.58	6.58	0.112%	20%	----
		Silver, total	7440-22-4	E420	0.000010	mg/L	<0.000010	<0.000010	0	Diff <2x LOR	----
		Sodium, total	7440-23-5	E420	0.050	mg/L	9.62	9.71	0.946%	20%	----
		Strontium, total	7440-24-6	E420	0.00020	mg/L	0.235	0.237	0.811%	20%	----
		Sulfur, total	7704-34-9	E420	0.50	mg/L	9.92	10.2	2.80%	20%	----
		Tellurium, total	13494-80-9	E420	0.00020	mg/L	<0.00020	<0.00020	0	Diff <2x LOR	----



Sub-Matrix: Water					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
Total Metals (QC Lot: 2146258) - continued											
KS2503101-001	Anonymous	Thallium, total	7440-28-0	E420	0.000010	mg/L	<0.000010	<0.000010	0	Diff <2x LOR	----
		Thorium, total	7440-29-1	E420	0.000010	mg/L	<0.000010	<0.000010	0	Diff <2x LOR	----
		Tin, total	7440-31-5	E420	0.000010	mg/L	<0.000010	<0.000010	0	Diff <2x LOR	----
		Titanium, total	7440-32-6	E420	0.000030	mg/L	<0.000030	<0.000030	0	Diff <2x LOR	----
		Tungsten, total	7440-33-7	E420	0.000010	mg/L	<0.000010	<0.000010	0	Diff <2x LOR	----
		Uranium, total	7440-61-1	E420	0.000010	mg/L	0.000555	0.000565	1.78%	20%	----
		Vanadium, total	7440-62-2	E420	0.000050	mg/L	0.00055	0.00054	0.000008	Diff <2x LOR	----
		Zinc, total	7440-66-6	E420	0.0030	mg/L	0.0032	<0.0030	0.0002	Diff <2x LOR	----
		Zirconium, total	7440-67-7	E420	0.000020	mg/L	<0.00020	<0.00020	0	Diff <2x LOR	----
Total Metals (QC Lot: 2154437)											
FJ2502350-008	Anonymous	Mercury, total	7439-97-6	E508	0.0000050	mg/L	<0.0000050	<0.0000050	0	Diff <2x LOR	----
Total Metals (QC Lot: 2154609)											
VA25B9352-008	VA8-SITE#8 TANK OUTLET	Mercury, total	7439-97-6	E508	0.0000050	mg/L	<0.0000050	<0.0000050	0	Diff <2x LOR	----
Volatile Organic Compounds [THMs] (QC Lot: 2156910)											
KS2503036-002	Anonymous	Bromodichloromethane	75-27-4	E611B	1.0	µg/L	6.7	7.4	9.5%	30%	----
		Bromoform	75-25-2	E611B	1.0	µg/L	<1.0	<1.0	0.0%	30%	----
		Chloroform	67-66-3	E611B	1.0	µg/L	49.3	52.9	7.0%	30%	----
		Dibromochloromethane	124-48-1	E611B	1.0	µg/L	1.0	1.1	0.0%	30%	----



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: Water

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Total Metals (QCLot: 2146258)						
Aluminum, total	7429-90-5	E420	0.003	mg/L	<0.0030	---
Antimony, total	7440-36-0	E420	0.0001	mg/L	<0.00010	---
Arsenic, total	7440-38-2	E420	0.0001	mg/L	<0.00010	---
Barium, total	7440-39-3	E420	0.0001	mg/L	<0.00010	---
Beryllium, total	7440-41-7	E420	0.00002	mg/L	<0.000020	---
Bismuth, total	7440-69-9	E420	0.00005	mg/L	<0.000050	---
Boron, total	7440-42-8	E420	0.01	mg/L	<0.010	---
Cadmium, total	7440-43-9	E420	0.000005	mg/L	<0.0000050	---
Calcium, total	7440-70-2	E420	0.05	mg/L	<0.050	---
Cesium, total	7440-46-2	E420	0.00001	mg/L	<0.000010	---
Chromium, total	7440-47-3	E420	0.0005	mg/L	<0.00050	---
Cobalt, total	7440-48-4	E420	0.0001	mg/L	<0.00010	---
Copper, total	7440-50-8	E420	0.0005	mg/L	<0.00050	---
Iron, total	7439-89-6	E420	0.01	mg/L	<0.010	---
Lead, total	7439-92-1	E420	0.00005	mg/L	<0.000050	---
Lithium, total	7439-93-2	E420	0.001	mg/L	<0.0010	---
Magnesium, total	7439-95-4	E420	0.005	mg/L	<0.0050	---
Manganese, total	7439-96-5	E420	0.0001	mg/L	<0.00010	---
Molybdenum, total	7439-98-7	E420	0.00005	mg/L	<0.000050	---
Nickel, total	7440-02-0	E420	0.0005	mg/L	<0.00050	---
Phosphorus, total	7723-14-0	E420	0.05	mg/L	<0.050	---
Potassium, total	7440-09-7	E420	0.05	mg/L	<0.050	---
Rubidium, total	7440-17-7	E420	0.0002	mg/L	<0.00020	---
Selenium, total	7782-49-2	E420	0.00005	mg/L	<0.000050	---
Silicon, total	7440-21-3	E420	0.1	mg/L	<0.10	---
Silver, total	7440-22-4	E420	0.00001	mg/L	<0.000010	---
Sodium, total	7440-23-5	E420	0.05	mg/L	<0.050	---
Strontium, total	7440-24-6	E420	0.0002	mg/L	<0.00020	---
Sulfur, total	7704-34-9	E420	0.5	mg/L	<0.50	---
Tellurium, total	13494-80-9	E420	0.0002	mg/L	<0.00020	---
Thallium, total	7440-28-0	E420	0.00001	mg/L	<0.000010	---
Thorium, total	7440-29-1	E420	0.0001	mg/L	<0.00010	---



Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Total Metals (QCLot: 2146258) - continued						
Tin, total	7440-31-5	E420	0.0001	mg/L	<0.00010	----
Titanium, total	7440-32-6	E420	0.0003	mg/L	<0.00030	----
Tungsten, total	7440-33-7	E420	0.0001	mg/L	<0.00010	----
Uranium, total	7440-61-1	E420	0.00001	mg/L	<0.000010	----
Vanadium, total	7440-62-2	E420	0.0005	mg/L	<0.00050	----
Zinc, total	7440-66-6	E420	0.003	mg/L	<0.0030	----
Zirconium, total	7440-67-7	E420	0.0002	mg/L	<0.00020	----
Total Metals (QCLot: 2154437)						
Mercury, total	7439-97-6	E508	0.000005	mg/L	<0.0000050	----
Total Metals (QCLot: 2154609)						
Mercury, total	7439-97-6	E508	0.000005	mg/L	<0.0000050	----
Volatile Organic Compounds [THMs] (QCLot: 2156910)						
Bromodichloromethane	75-27-4	E611B	1	µg/L	<1.0	----
Bromoform	75-25-2	E611B	1	µg/L	<1.0	----
Chloroform	67-66-3	E611B	1	µg/L	<1.0	----
Dibromochloromethane	124-48-1	E611B	1	µg/L	<1.0	----



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: Water

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Total Metals (QCLot: 2146258)									
Aluminum, total	7429-90-5	E420	0.003	mg/L	2 mg/L	99.9	80.0	120	----
Antimony, total	7440-36-0	E420	0.0001	mg/L	1 mg/L	97.7	80.0	120	----
Arsenic, total	7440-38-2	E420	0.0001	mg/L	1 mg/L	104	80.0	120	----
Barium, total	7440-39-3	E420	0.0001	mg/L	0.25 mg/L	107	80.0	120	----
Beryllium, total	7440-41-7	E420	0.00002	mg/L	0.1 mg/L	94.6	80.0	120	----
Bismuth, total	7440-69-9	E420	0.00005	mg/L	1 mg/L	104	80.0	120	----
Boron, total	7440-42-8	E420	0.01	mg/L	1 mg/L	106	80.0	120	----
Cadmium, total	7440-43-9	E420	0.000005	mg/L	0.1 mg/L	98.3	80.0	120	----
Calcium, total	7440-70-2	E420	0.05	mg/L	50 mg/L	95.8	80.0	120	----
Cesium, total	7440-46-2	E420	0.00001	mg/L	0.05 mg/L	91.7	80.0	120	----
Chromium, total	7440-47-3	E420	0.0005	mg/L	0.25 mg/L	101	80.0	120	----
Cobalt, total	7440-48-4	E420	0.0001	mg/L	0.25 mg/L	97.6	80.0	120	----
Copper, total	7440-50-8	E420	0.0005	mg/L	0.25 mg/L	97.7	80.0	120	----
Iron, total	7439-89-6	E420	0.01	mg/L	1 mg/L	90.9	80.0	120	----
Lead, total	7439-92-1	E420	0.00005	mg/L	0.5 mg/L	99.6	80.0	120	----
Lithium, total	7439-93-2	E420	0.001	mg/L	0.25 mg/L	95.1	80.0	120	----
Magnesium, total	7439-95-4	E420	0.005	mg/L	50 mg/L	99.1	80.0	120	----
Manganese, total	7439-96-5	E420	0.0001	mg/L	0.25 mg/L	99.1	80.0	120	----
Molybdenum, total	7439-98-7	E420	0.00005	mg/L	0.25 mg/L	96.7	80.0	120	----
Nickel, total	7440-02-0	E420	0.0005	mg/L	0.5 mg/L	98.6	80.0	120	----
Phosphorus, total	7723-14-0	E420	0.05	mg/L	10 mg/L	101	80.0	120	----
Potassium, total	7440-09-7	E420	0.05	mg/L	50 mg/L	95.2	80.0	120	----
Rubidium, total	7440-17-7	E420	0.0002	mg/L	0.1 mg/L	95.5	80.0	120	----
Selenium, total	7782-49-2	E420	0.00005	mg/L	1 mg/L	98.6	80.0	120	----
Silicon, total	7440-21-3	E420	0.1	mg/L	10 mg/L	99.5	80.0	120	----
Silver, total	7440-22-4	E420	0.00001	mg/L	0.1 mg/L	88.9	80.0	120	----
Sodium, total	7440-23-5	E420	0.05	mg/L	50 mg/L	103	80.0	120	----
Strontium, total	7440-24-6	E420	0.0002	mg/L	0.25 mg/L	97.9	80.0	120	----
Sulfur, total	7704-34-9	E420	0.5	mg/L	50 mg/L	82.8	80.0	120	----
Tellurium, total	13494-80-9	E420	0.0002	mg/L	0.1 mg/L	94.1	80.0	120	----
Thallium, total	7440-28-0	E420	0.00001	mg/L	1 mg/L	101	80.0	120	----
Thorium, total	7440-29-1	E420	0.0001	mg/L	0.1 mg/L	98.8	80.0	120	----
Tin, total	7440-31-5	E420	0.0001	mg/L	0.5 mg/L	96.5	80.0	120	----



Sub-Matrix: **Water**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Total Metals (QCLot: 2146258) - continued									
Titanium, total	7440-32-6	E420	0.0003	mg/L	0.25 mg/L	96.4	80.0	120	----
Tungsten, total	7440-33-7	E420	0.0001	mg/L	0.1 mg/L	102	80.0	120	----
Uranium, total	7440-61-1	E420	0.00001	mg/L	0.005 mg/L	97.2	80.0	120	----
Vanadium, total	7440-62-2	E420	0.0005	mg/L	0.5 mg/L	99.2	80.0	120	----
Zinc, total	7440-66-6	E420	0.003	mg/L	0.5 mg/L	97.4	80.0	120	----
Zirconium, total	7440-67-7	E420	0.0002	mg/L	0.1 mg/L	92.9	80.0	120	----
Total Metals (QCLot: 2154437)									
Mercury, total	7439-97-6	E508	0.000005	mg/L	0 mg/L	102	80.0	120	----
Total Metals (QCLot: 2154609)									
Mercury, total	7439-97-6	E508	0.000005	mg/L	0 mg/L	99.8	80.0	120	----
Volatile Organic Compounds [THMs] (QCLot: 2156910)									
Bromodichloromethane	75-27-4	E611B	1	µg/L	100 µg/L	88.6	70.0	130	----
Bromoform	75-25-2	E611B	1	µg/L	100 µg/L	86.1	70.0	130	----
Chloroform	67-66-3	E611B	1	µg/L	100 µg/L	93.3	70.0	130	----
Dibromochloromethane	124-48-1	E611B	1	µg/L	100 µg/L	84.4	70.0	130	----



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: **Water**

					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Total Metals (QCLot: 2146258)										
KS2503101-002	Anonymous	Aluminum, total	7429-90-5	E420	0.187 mg/L	0.2 mg/L	93.5	70.0	130	----
		Antimony, total	7440-36-0	E420	0.0182 mg/L	0.02 mg/L	91.1	70.0	130	----
		Arsenic, total	7440-38-2	E420	0.0201 mg/L	0.02 mg/L	101	70.0	130	----
		Barium, total	7440-39-3	E420	ND mg/L	----	ND	70.0	130	----
		Beryllium, total	7440-41-7	E420	0.0366 mg/L	0.04 mg/L	91.5	70.0	130	----
		Bismuth, total	7440-69-9	E420	0.00960 mg/L	0.01 mg/L	96.0	70.0	130	----
		Boron, total	7440-42-8	E420	0.096 mg/L	0.1 mg/L	95.6	70.0	130	----
		Cadmium, total	7440-43-9	E420	0.00389 mg/L	0.004 mg/L	97.2	70.0	130	----
		Calcium, total	7440-70-2	E420	ND mg/L	----	ND	70.0	130	----
		Cesium, total	7440-46-2	E420	0.00896 mg/L	0.01 mg/L	89.6	70.0	130	----
		Chromium, total	7440-47-3	E420	0.0383 mg/L	0.04 mg/L	95.7	70.0	130	----
		Cobalt, total	7440-48-4	E420	0.0187 mg/L	0.02 mg/L	93.6	70.0	130	----
		Copper, total	7440-50-8	E420	0.0179 mg/L	0.02 mg/L	89.7	70.0	130	----
		Iron, total	7439-89-6	E420	1.94 mg/L	2 mg/L	96.8	70.0	130	----
		Lead, total	7439-92-1	E420	0.0193 mg/L	0.02 mg/L	96.5	70.0	130	----
		Lithium, total	7439-93-2	E420	0.0932 mg/L	0.1 mg/L	93.2	70.0	130	----
		Magnesium, total	7439-95-4	E420	ND mg/L	----	ND	70.0	130	----
		Manganese, total	7439-96-5	E420	0.0192 mg/L	0.02 mg/L	96.1	70.0	130	----
		Molybdenum, total	7439-98-7	E420	0.0189 mg/L	0.02 mg/L	94.7	70.0	130	----
		Nickel, total	7440-02-0	E420	0.0378 mg/L	0.04 mg/L	94.6	70.0	130	----
		Phosphorus, total	7723-14-0	E420	9.56 mg/L	10 mg/L	95.6	70.0	130	----
		Potassium, total	7440-09-7	E420	3.73 mg/L	4 mg/L	93.3	70.0	130	----
		Rubidium, total	7440-17-7	E420	0.0186 mg/L	0.02 mg/L	93.1	70.0	130	----
		Selenium, total	7782-49-2	E420	0.0403 mg/L	0.04 mg/L	101	70.0	130	----
		Silicon, total	7440-21-3	E420	8.63 mg/L	10 mg/L	86.3	70.0	130	----
		Silver, total	7440-22-4	E420	0.00366 mg/L	0.004 mg/L	91.5	70.0	130	----
		Sodium, total	7440-23-5	E420	ND mg/L	----	ND	70.0	130	----
		Strontium, total	7440-24-6	E420	ND mg/L	----	ND	70.0	130	----
		Sulfur, total	7704-34-9	E420	20.4 mg/L	20 mg/L	102	70.0	130	----
		Tellurium, total	13494-80-9	E420	0.0362 mg/L	0.04 mg/L	90.6	70.0	130	----
		Thallium, total	7440-28-0	E420	0.00381 mg/L	0.004 mg/L	95.3	70.0	130	----
		Thorium, total	7440-29-1	E420	0.0160 mg/L	0.02 mg/L	80.2	70.0	130	----
		Tin, total	7440-31-5	E420	0.0185 mg/L	0.02 mg/L	92.4	70.0	130	----
		Titanium, total	7440-32-6	E420	0.0387 mg/L	0.04 mg/L	96.8	70.0	130	----
		Tungsten, total	7440-33-7	E420	0.0201 mg/L	0.02 mg/L	100	70.0	130	----
		Uranium, total	7440-61-1	E420	0.00392 mg/L	0.004 mg/L	98.0	70.0	130	----
		Vanadium, total	7440-62-2	E420	0.0974 mg/L	0.1 mg/L	97.4	70.0	130	----
		Zinc, total	7440-66-6	E420	0.373 mg/L	0.4 mg/L	93.4	70.0	130	----
		Zirconium, total	7440-67-7	E420	0.0368 mg/L	0.04 mg/L	91.9	70.0	130	----



Sub-Matrix: **Water**

					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Total Metals (QCLot: 2154437)										
KS2503097-001	Anonymous	Mercury, total	7439-97-6	E508	0.0000970 mg/L	0 mg/L	97.0	70.0	130	----
Total Metals (QCLot: 2154609)										
VA25B9352-009	VA9-SITE#9-WALL STREET END HYDRANT	Mercury, total	7439-97-6	E508	0.0000982 mg/L	0 mg/L	98.2	70.0	130	----
Volatile Organic Compounds [THMs] (QCLot: 2156910)										
VA25B9344-004	Anonymous	Bromodichloromethane	75-27-4	E611B	95.5 µg/L	100 µg/L	95.5	60.0	140	----
		Bromoform	75-25-2	E611B	92.0 µg/L	100 µg/L	92.0	60.0	140	----
		Chloroform	67-66-3	E611B	95.8 µg/L	100 µg/L	95.8	60.0	140	----
		Dibromochloromethane	124-48-1	E611B	91.3 µg/L	100 µg/L	91.3	60.0	140	----

