

CERTIFICATE OF ANALYSIS (GUIDELINE EVALUATION)

Work Order	: VA25A0931	Page	: 1 of 6
Client	: Lafarge Canada Inc.	Laboratory	: ALS Environmental - Vancouver
Contact	: Louise Bantok	Account Manager	: Gulraj Dhanaua
Address	: 2300 Rogers Ave Coquitlam BC Canada V3K 5X6	Address	: 8081 Lougheed Highway Burnaby, British Columbia Canada V5A 1W9
Telephone	: ----	Telephone	: +1 604 253 4188
Project	: VAID - Texada	Date Samples Received	: 15-Jan-2025 10:35
PO	: 4501936438	Date Analysis Commenced	: 16-Jan-2025
C-O-C number	: ----	Issue Date	: 20-Jan-2025 09:16
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.

Signatories	Position	Laboratory Department
Kim Jensen	Department Manager - Metals	Metals, Burnaby, British Columbia
Owen Cheng		Metals, 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.

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

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

>: 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/SME LTER	VA5- SITE #5 SELLENTIN @STURT BAY RD	VA6- SITE #6 WALL ST PUMPHOUSE	VA7- SITE #7 COPPER QUEEN @ALLADIN
				Sampling date/time	14-Jan-2025 07:55	14-Jan-2025 08:20	14-Jan-2025 08:30	14-Jan-2025 08:40	14-Jan-2025 08:10	14-Jan-2025 09:00	14-Jan-2025 09:15
				Sub-Matrix	Water	Water	Water	Water	Water	Water	Water
Analyte	CAS Number	Method/Lab	Unit		VA25A0931-001	VA25A0931-002	VA25A0931-003	VA25A0931-004	VA25A0931-005	VA25A0931-006	VA25A0931-007
Physical Tests											
Hardness (as CaCO3), from total Ca/Mg	----	EC100A/VA	mg/L		114	114	115	112	112	114	112
Total Metals											
Aluminum, total	7429-90-5	E420/VA	mg/L		0.0316	0.0284	0.0320	0.0274	0.0306	0.0282	0.0286
Antimony, total	7440-36-0	E420/VA	mg/L		0.00151	0.00151	0.00151	0.00153	0.00153	0.00152	0.00152
Arsenic, total	7440-38-2	E420/VA	mg/L		0.00306	0.00303	0.00309	0.00297	0.00315	0.00297	0.00290
Barium, total	7440-39-3	E420/VA	mg/L		0.00590	0.00606	0.00612	0.00623	0.00608	0.00603	0.00599
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	<0.000050
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		0.0000172	<0.0000100 ^{DLM}	<0.0000050	<0.0000100 ^{DLM}	<0.0000050	<0.0000050	<0.0000050
Calcium, total	7440-70-2	E420/VA	mg/L		41.7	41.4	41.8	40.9	40.6	41.4	40.9
Cesium, total	7440-46-2	E420/VA	mg/L		0.000032	0.000032	0.000033	0.000029	0.000032	0.000031	0.000034
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		0.00625	0.00568	0.00443	0.00734	0.00418	0.00414	0.0192
Iron, total	7439-89-6	E420/VA	mg/L		0.042	0.056	0.043	0.055	0.048	0.043	0.064
Lead, total	7439-92-1	E420/VA	mg/L		0.000223	0.000105	0.000116	0.000378	0.000065	0.000136	0.000168
Lithium, total	7439-93-2	E420/VA	mg/L		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Magnesium, total	7439-95-4	E420/VA	mg/L		2.46	2.48	2.50	2.51	2.56	2.53	2.49
Manganese, total	7439-96-5	E420/VA	mg/L		0.00321	0.00350	0.00334	0.00238	0.00331	0.00293	0.00316
Mercury, total	7439-97-6	E508/VA	mg/L		<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Molybdenum, total	7439-98-7	E420/VA	mg/L		0.0124	0.0124	0.0124	0.0124	0.0122	0.0124	0.0122
Nickel, total	7440-02-0	E420/VA	mg/L		<0.00050	0.00054	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Phosphorus, total	7723-14-0	E420/VA	mg/L		<0.050	0.064	<0.050	<0.050	<0.050	<0.050	<0.050
Potassium, total	7440-09-7	E420/VA	mg/L		0.327	0.340	0.338	0.339	0.342	0.335	0.334
Rubidium, total	7440-17-7	E420/VA	mg/L		0.00043	0.00038	0.00040	0.00045	0.00042	0.00042	0.00040



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/SME LTER	VA5- SITE #5 SELLENTIN @STURT BAY RD	VA6- SITE #6 WALL ST PUMPHOUSE	VA7- SITE #7 COPPER QUEEN @ALLADIN
				Sampling date/time	14-Jan-2025 07:55	14-Jan-2025 08:20	14-Jan-2025 08:30	14-Jan-2025 08:40	14-Jan-2025 08:10	14-Jan-2025 09:00	14-Jan-2025 09:15
				Sub-Matrix	Water	Water	Water	Water	Water	Water	Water
Analyte	CAS Number	Method/Lab	Unit		VA25A0931-001	VA25A0931-002	VA25A0931-003	VA25A0931-004	VA25A0931-005	VA25A0931-006	VA25A0931-007
Total Metals											
Selenium, total	7782-49-2	E420/VA	mg/L		0.00102	0.00107	0.00104	0.00114	0.00106	0.00103	0.000997
Silicon, total	7440-21-3	E420/VA	mg/L		3.62	3.80	3.66	3.68	3.64	3.66	3.68
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		6.37	6.59	6.43	6.62	6.72	6.64	6.52
Strontium, total	7440-24-6	E420/VA	mg/L		0.190	0.189	0.190	0.190	0.189	0.190	0.186
Sulfur, total	7704-34-9	E420/VA	mg/L		14.0	14.4	14.0	14.0	13.7	13.8	14.2
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		<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<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		0.00063	0.00054	0.00061	0.00058	0.00064	0.00058	0.00059
Tungsten, total	7440-33-7	E420/VA	mg/L		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Uranium, total	7440-61-1	E420/VA	mg/L		0.00986	0.00967	0.00969	0.00987	0.00989	0.00968	0.00987
Vanadium, total	7440-62-2	E420/VA	mg/L		0.00111	0.00108	0.00113	0.00111	0.00117	0.00109	0.00112
Zinc, total	7440-66-6	E420/VA	mg/L		0.0040	0.0403	0.0034	0.0098	0.0057	0.0035	0.0177
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.

Please refer to the Accreditation section for an explanation of analyte accreditations.



Analytical Results Evaluation

Matrix: Water				Client sample ID		VA8- SITE #8 TANK OUTLET	VA9- SITE #9 WALL STREET END HDYRANT	VA10- SITE #10 MARBLE BAY & SELLENTIN ST	RAW SUPPLY	VA- DUP WALL ST PUMPHOUSE	----	----
				Sampling date/time		14-Jan-2025 07:15	14-Jan-2025 08:50	14-Jan-2025 08:05	14-Jan-2025 07:00	14-Jan-2025 09:00	----	----
				Sub-Matrix		Water	Water	Water	Water	Water	----	----
Analyte	CAS Number	Method/Lab	Unit	VA25A0931-008	VA25A0931-009	VA25A0931-010	VA25A0931-011	VA25A0931-012	-----	-----		
Physical Tests												
Hardness (as CaCO3), from total Ca/Mg		----	EC100A/VA	mg/L	113	113	111	112	113	----	----	
Total Metals												
Aluminum, total	7429-90-5	E420/VA	mg/L	0.0312	0.0266	0.0328	0.0341	0.0280	----	----		
Antimony, total	7440-36-0	E420/VA	mg/L	0.00151	0.00152	0.00151	0.00151	0.00150	----	----		
Arsenic, total	7440-38-2	E420/VA	mg/L	0.00312	0.00277	0.00331	0.00321	0.00280	----	----		
Barium, total	7440-39-3	E420/VA	mg/L	0.00601	0.00590	0.00600	0.00598	0.00602	----	----		
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	<0.0000100 ^{DLM}	<0.0000050	<0.0000050	<0.0000050	<0.0000050	----	----		
Calcium, total	7440-70-2	E420/VA	mg/L	41.2	41.3	40.1	40.9	41.2	----	----		
Cesium, total	7440-46-2	E420/VA	mg/L	0.000032	0.000031	0.000032	0.000035	0.000031	----	----		
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	0.00631	0.00687	0.00921	0.00375	0.00401	----	----		
Iron, total	7439-89-6	E420/VA	mg/L	0.043	0.046	0.043	0.046	0.044	----	----		
Lead, total	7439-92-1	E420/VA	mg/L	0.000425	0.000108	0.000836	0.000266	0.000131	----	----		
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	2.48	2.50	2.55	2.48	2.50	----	----		
Manganese, total	7439-96-5	E420/VA	mg/L	0.00371	0.00257	0.00343	0.00436	0.00287	----	----		
Mercury, total	7439-97-6	E508/VA	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	----	----		
Molybdenum, total	7439-98-7	E420/VA	mg/L	0.0123	0.0123	0.0122	0.0120	0.0123	----	----		
Nickel, total	7440-02-0	E420/VA	mg/L	<0.00050	<0.00050	0.0235	<0.00050	<0.00050	----	----		
Phosphorus, total	7723-14-0	E420/VA	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	----	----		
Potassium, total	7440-09-7	E420/VA	mg/L	0.331	0.334	0.338	0.326	0.335	----	----		
Rubidium, total	7440-17-7	E420/VA	mg/L	0.00041	0.00039	0.00046	0.00042	0.00038	----	----		
Selenium, total	7782-49-2	E420/VA	mg/L	0.00104	0.00107	0.00107	0.00110	0.000902	----	----		



Analytical Results Evaluation

Matrix: Water				Client sample ID	VA8- SITE #8 TANK OUTLET	VA9- SITE #9 WALL STREET END HDYRANT	VA10- SITE #10 MARBLE BAY & SELLENTIN ST	RAW SUPPLY	VA- DUP WALL ST PUMPHOUSE	----	----
				Sampling date/time	14-Jan-2025 07:15	14-Jan-2025 08:50	14-Jan-2025 08:05	14-Jan-2025 07:00	14-Jan-2025 09:00	----	----
				Sub-Matrix	Water	Water	Water	Water	Water	----	----
Analyte	CAS Number	Method/Lab	Unit		VA25A0931-008	VA25A0931-009	VA25A0931-010	VA25A0931-011	VA25A0931-012	-----	-----
Total Metals											
Silicon, total	7440-21-3	E420/VA	mg/L		3.53	3.57	3.60	3.54	3.68	----	----
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		6.37	6.59	6.55	2.97	6.52	----	----
Strontium, total	7440-24-6	E420/VA	mg/L		0.187	0.188	0.188	0.184	0.189	----	----
Sulfur, total	7704-34-9	E420/VA	mg/L		13.8	14.0	14.0	13.7	14.1	----	----
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	0.000011	<0.000010	----	----
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		0.00059	0.00057	0.00063	0.00074	0.00070	----	----
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		0.00966	0.00964	0.00974	0.00964	0.00983	----	----
Vanadium, total	7440-62-2	E420/VA	mg/L		0.00119	0.00106	0.00116	0.00115	0.00108	----	----
Zinc, total	7440-66-6	E420/VA	mg/L		0.0164	0.0098	0.0106	0.0094	0.0036	----	----
Zirconium, total	7440-67-7	E420/VA	mg/L		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	----	----

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Please refer to the Accreditation section for an explanation of analyte accreditations.

Key:

CERTIFICATE OF ANALYSIS

Work Order	: VA25A0931		
Client	: Lafarge Canada Inc.	Laboratory	: ALS Environmental - Vancouver
Contact	: Louise Bantok	Account Manager	: Gulraj Dhanaua
Address	: 2300 Rogers Ave Coquitlam British Columbia Canada V3K 5X6	Address	: 8081 Lougheed Highway Burnaby BC Canada V5A 1W9
Telephone	: ----	Telephone	: +1 604 253 4188
Project	: VAID - Texada	Date Samples Received	: 15-Jan-2025 10:35
PO	: 4501936438	Date Analysis Commenced	: 16-Jan-2025
C-O-C number	: ----	Issue Date	: 20-Jan-2025 09:16
Sampler	: ----		
Site	: ----		
Quote number	: Lafarge Western Canada Standing Offer 2024		
No. of samples received	: 12		
No. of samples analysed	: 12		

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- General Comments
- Analytical Results

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

Signatories

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

<i>Signatories</i>	<i>Position</i>	<i>Laboratory Department</i>
Kim Jensen	Department Manager - Metals	Metals, Burnaby, British Columbia
Owen Cheng		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
mg/L	milligrams 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

Qualifier	Description
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 @STURT BAY RD
Client sampling date / time						14-Jan-2025 07:55	14-Jan-2025 08:20	14-Jan-2025 08:30	14-Jan-2025 08:40	14-Jan-2025 08:10
Analyte	CAS Number	Method/Lab	LOR	Unit		VA25A0931-001	VA25A0931-002	VA25A0931-003	VA25A0931-004	VA25A0931-005
						Result	Result	Result	Result	Result
Physical Tests										
Hardness (as CaCO ₃), from total Ca/Mg	----	EC100A/VA	0.60	mg/L		114	114	115	112	112
Total Metals										
Aluminum, total	7429-90-5	E420/VA	0.0030	mg/L		0.0316	0.0284	0.0320	0.0274	0.0306
Antimony, total	7440-36-0	E420/VA	0.00010	mg/L		0.00151	0.00151	0.00151	0.00153	0.00153
Arsenic, total	7440-38-2	E420/VA	0.00010	mg/L		0.00306	0.00303	0.00309	0.00297	0.00315
Barium, total	7440-39-3	E420/VA	0.00010	mg/L		0.00590	0.00606	0.00612	0.00623	0.00608
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		0.0000172	<0.0000100 ^{DLM}	<0.0000050	<0.0000100 ^{DLM}	<0.0000050
Calcium, total	7440-70-2	E420/VA	0.050	mg/L		41.7	41.4	41.8	40.9	40.6
Cesium, total	7440-46-2	E420/VA	0.000010	mg/L		0.000032	0.000032	0.000033	0.000029	0.000032
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		0.00625	0.00568	0.00443	0.00734	0.00418
Iron, total	7439-89-6	E420/VA	0.010	mg/L		0.042	0.056	0.043	0.055	0.048
Lead, total	7439-92-1	E420/VA	0.000050	mg/L		0.000223	0.000105	0.000116	0.000378	0.000065
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		2.46	2.48	2.50	2.51	2.56
Manganese, total	7439-96-5	E420/VA	0.00010	mg/L		0.00321	0.00350	0.00334	0.00238	0.00331
Mercury, total	7439-97-6	E508/VA	0.0000050	mg/L		<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050



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 @STURT BAY RD
Client sampling date / time						14-Jan-2025 07:55	14-Jan-2025 08:20	14-Jan-2025 08:30	14-Jan-2025 08:40	14-Jan-2025 08:10
Analyte	CAS Number	Method/Lab	LOR	Unit		VA25A0931-001	VA25A0931-002	VA25A0931-003	VA25A0931-004	VA25A0931-005
						Result	Result	Result	Result	Result
Total Metals										
Molybdenum, total	7439-98-7	E420/VA	0.000050	mg/L		0.0124	0.0124	0.0124	0.0124	0.0122
Nickel, total	7440-02-0	E420/VA	0.00050	mg/L		<0.00050	0.00054	<0.00050	<0.00050	<0.00050
Phosphorus, total	7723-14-0	E420/VA	0.050	mg/L		<0.050	0.064	<0.050	<0.050	<0.050
Potassium, total	7440-09-7	E420/VA	0.050	mg/L		0.327	0.340	0.338	0.339	0.342
Rubidium, total	7440-17-7	E420/VA	0.00020	mg/L		0.00043	0.00038	0.00040	0.00045	0.00042
Selenium, total	7782-49-2	E420/VA	0.000050	mg/L		0.00102	0.00107	0.00104	0.00114	0.00106
Silicon, total	7440-21-3	E420/VA	0.10	mg/L		3.62	3.80	3.66	3.68	3.64
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		6.37	6.59	6.43	6.62	6.72
Strontium, total	7440-24-6	E420/VA	0.00020	mg/L		0.190	0.189	0.190	0.190	0.189
Sulfur, total	7704-34-9	E420/VA	0.50	mg/L		14.0	14.4	14.0	14.0	13.7
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		0.00063	0.00054	0.00061	0.00058	0.00064
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		0.00986	0.00967	0.00969	0.00987	0.00989
Vanadium, total	7440-62-2	E420/VA	0.00050	mg/L		0.00111	0.00108	0.00113	0.00111	0.00117
Zinc, total	7440-66-6	E420/VA	0.0030	mg/L		0.0040	0.0403	0.0034	0.0098	0.0057
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 result 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 HDYRANT	VA10- SITE #10 MARBLE BAY & SELLENTIN ST
Client sampling date / time					14-Jan-2025 09:00	14-Jan-2025 09:15	14-Jan-2025 07:15	14-Jan-2025 08:50	14-Jan-2025 08:05
Analyte	CAS Number	Method/Lab	LOR	Unit	VA25A0931-006	VA25A0931-007	VA25A0931-008	VA25A0931-009	VA25A0931-010
					Result	Result	Result	Result	Result
Physical Tests									
Hardness (as CaCO ₃), from total Ca/Mg	----	EC100A/VA	0.60	mg/L	114	112	113	113	111
Total Metals									
Aluminum, total	7429-90-5	E420/VA	0.0030	mg/L	0.0282	0.0286	0.0312	0.0266	0.0328
Antimony, total	7440-36-0	E420/VA	0.00010	mg/L	0.00152	0.00152	0.00151	0.00152	0.00151
Arsenic, total	7440-38-2	E420/VA	0.00010	mg/L	0.00297	0.00290	0.00312	0.00277	0.00331
Barium, total	7440-39-3	E420/VA	0.00010	mg/L	0.00603	0.00599	0.00601	0.00590	0.00600
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	<0.0000050	<0.0000100 ^{DLM}	<0.0000050	<0.0000050
Calcium, total	7440-70-2	E420/VA	0.050	mg/L	41.4	40.9	41.2	41.3	40.1
Cesium, total	7440-46-2	E420/VA	0.000010	mg/L	0.000031	0.000034	0.000032	0.000031	0.000032
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	0.00414	0.0192	0.00631	0.00687	0.00921
Iron, total	7439-89-6	E420/VA	0.010	mg/L	0.043	0.064	0.043	0.046	0.043
Lead, total	7439-92-1	E420/VA	0.000050	mg/L	0.000136	0.000168	0.000425	0.000108	0.000836
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	2.53	2.49	2.48	2.50	2.55
Manganese, total	7439-96-5	E420/VA	0.00010	mg/L	0.00293	0.00316	0.00371	0.00257	0.00343



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 HDYRANT	VA10- SITE #10 MARBLE BAY & SELLENTIN ST
Client sampling date / time					14-Jan-2025 09:00	14-Jan-2025 09:15	14-Jan-2025 07:15	14-Jan-2025 08:50	14-Jan-2025 08:05
Analyte	CAS Number	Method/Lab	LOR	Unit	VA25A0931-006	VA25A0931-007	VA25A0931-008	VA25A0931-009	VA25A0931-010
					Result	Result	Result	Result	Result
Total Metals									
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	0.0124	0.0122	0.0123	0.0123	0.0122
Nickel, total	7440-02-0	E420/VA	0.00050	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	0.0235
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	0.335	0.334	0.331	0.334	0.338
Rubidium, total	7440-17-7	E420/VA	0.00020	mg/L	0.00042	0.00040	0.00041	0.00039	0.00046
Selenium, total	7782-49-2	E420/VA	0.000050	mg/L	0.00103	0.000997	0.00104	0.00107	0.00107
Silicon, total	7440-21-3	E420/VA	0.10	mg/L	3.66	3.68	3.53	3.57	3.60
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	6.64	6.52	6.37	6.59	6.55
Strontium, total	7440-24-6	E420/VA	0.00020	mg/L	0.190	0.186	0.187	0.188	0.188
Sulfur, total	7704-34-9	E420/VA	0.50	mg/L	13.8	14.2	13.8	14.0	14.0
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	0.00058	0.00059	0.00059	0.00057	0.00063
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	0.00968	0.00987	0.00966	0.00964	0.00974
Vanadium, total	7440-62-2	E420/VA	0.00050	mg/L	0.00109	0.00112	0.00119	0.00106	0.00116
Zinc, total	7440-66-6	E420/VA	0.0030	mg/L	0.0035	0.0177	0.0164	0.0098	0.0106



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 HDYRANT	VA10- SITE #10 MARBLE BAY & SELLENTIN ST
Client sampling date / time					14-Jan-2025 09:00	14-Jan-2025 09:15	14-Jan-2025 07:15	14-Jan-2025 08:50	14-Jan-2025 08:05
Analyte	CAS Number	Method/Lab	LOR	Unit	VA25A0931-006	VA25A0931-007	VA25A0931-008	VA25A0931-009	VA25A0931-010
					Result	Result	Result	Result	Result
Total Metals									
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 result qualifiers detected.

Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

Client sample ID					RAW SUPPLY	VA- DUP WALL ST PUMPHOUSE	----	----	----
Client sampling date / time					14-Jan-2025 07:00	14-Jan-2025 09:00	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	VA25A0931-011	VA25A0931-012	----	----	----
					Result	Result	----	----	----

Physical Tests

Hardness (as CaCO ₃), from total Ca/Mg	----	EC100A/VA	0.60	mg/L	112	113	----	----	----
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Total Metals

Aluminum, total	7429-90-5	E420/VA	0.0030	mg/L	0.0341	0.0280	----	----	----
Antimony, total	7440-36-0	E420/VA	0.00010	mg/L	0.00151	0.00150	----	----	----
Arsenic, total	7440-38-2	E420/VA	0.00010	mg/L	0.00321	0.00280	----	----	----
Barium, total	7440-39-3	E420/VA	0.00010	mg/L	0.00598	0.00602	----	----	----
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	<0.0000050	<0.0000050	----	----	----
Calcium, total	7440-70-2	E420/VA	0.050	mg/L	40.9	41.2	----	----	----
Cesium, total	7440-46-2	E420/VA	0.000010	mg/L	0.000035	0.000031	----	----	----
Chromium, total	7440-47-3	E420/VA	0.00050	mg/L	<0.00050	<0.00050	----	----	----



Analytical Results

Sub-Matrix: Water

(Matrix: Water)

					Client sample ID	RAW SUPPLY	VA- DUP WALL ST PUMPHOUSE	----	----	----
					Client sampling date / time	14-Jan-2025 07:00	14-Jan-2025 09:00	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	VA25A0931-011	VA25A0931-012	----	----	----	----
					Result	Result	----	----	----	----
Total Metals										
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	0.00375	0.00401	----	----	----	----
Iron, total	7439-89-6	E420/VA	0.010	mg/L	0.046	0.044	----	----	----	----
Lead, total	7439-92-1	E420/VA	0.000050	mg/L	0.000266	0.000131	----	----	----	----
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	2.48	2.50	----	----	----	----
Manganese, total	7439-96-5	E420/VA	0.00010	mg/L	0.00436	0.00287	----	----	----	----
Mercury, total	7439-97-6	E508/VA	0.0000050	mg/L	<0.0000050	<0.0000050	----	----	----	----
Molybdenum, total	7439-98-7	E420/VA	0.000050	mg/L	0.0120	0.0123	----	----	----	----
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	0.326	0.335	----	----	----	----
Rubidium, total	7440-17-7	E420/VA	0.00020	mg/L	0.00042	0.00038	----	----	----	----
Selenium, total	7782-49-2	E420/VA	0.000050	mg/L	0.00110	0.000902	----	----	----	----
Silicon, total	7440-21-3	E420/VA	0.10	mg/L	3.54	3.68	----	----	----	----
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	2.97	6.52	----	----	----	----
Strontium, total	7440-24-6	E420/VA	0.00020	mg/L	0.184	0.189	----	----	----	----
Sulfur, total	7704-34-9	E420/VA	0.50	mg/L	13.7	14.1	----	----	----	----
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	0.000011	<0.000010	----	----	----	----



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Client sample ID	RAW SUPPLY	VA- DUP WALL ST PUMPHOUSE	----	----	----
					Client sampling date / time	14-Jan-2025 07:00	14-Jan-2025 09:00	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	VA25A0931-011	VA25A0931-012	----	----	----	----
					Result	Result	----	----	----	----
Total Metals										
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	0.00074	0.00070	----	----	----	----
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	0.00964	0.00983	----	----	----	----
Vanadium, total	7440-62-2	E420/VA	0.00050	mg/L	0.00115	0.00108	----	----	----	----
Zinc, total	7440-66-6	E420/VA	0.0030	mg/L	0.0094	0.0036	----	----	----	----
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 result qualifiers detected.

QUALITY CONTROL INTERPRETIVE REPORT

Work Order	: VA25A0931	Page	: 1 of 7
Client	: Lafarge Canada Inc.	Laboratory	: ALS Environmental - Vancouver
Contact	: Louise Bantok	Account Manager	: Gulraj Dhanaua
Address	: 2300 Rogers Ave Coquitlam BC Canada V3K 5X6	Address	: 8081 Lougheed Highway Burnaby, British Columbia Canada V5A 1W9
Telephone	: ----	Telephone	: +1 604 253 4188
Project	: VAID - Texada	Date Samples Received	: 15-Jan-2025 10:35
PO	: 4501936438	Issue Date	: 20-Jan-2025 09:16
C-O-C number	: ----		
Sampler	: ----		
Site	: ----		
Quote number	: Lafarge Western Canada Standing Offer 2024		
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 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	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) RAW SUPPLY	E508	14-Jan-2025	17-Jan-2025	28 days	3 days	✓	17-Jan-2025	28 days	3 days	✓
Total Metals : Total Mercury in Water by CVAAS										
Glass vial - total (lab preserved) VA- DUP WALL ST PUMPHOUSE	E508	14-Jan-2025	17-Jan-2025	28 days	3 days	✓	17-Jan-2025	28 days	3 days	✓
Total Metals : Total Mercury in Water by CVAAS										
Glass vial - total (lab preserved) VA1- SITE #1 HOTEL	E508	14-Jan-2025	17-Jan-2025	28 days	3 days	✓	17-Jan-2025	28 days	3 days	✓
Total Metals : Total Mercury in Water by CVAAS										
Glass vial - total (lab preserved) VA10- SITE #10 MARBLE BAY & SELLENTIN ST	E508	14-Jan-2025	17-Jan-2025	28 days	3 days	✓	17-Jan-2025	28 days	3 days	✓
Total Metals : Total Mercury in Water by CVAAS										
Glass vial - total (lab preserved) VA2- SITE #2 EARL ST	E508	14-Jan-2025	17-Jan-2025	28 days	3 days	✓	17-Jan-2025	28 days	3 days	✓
Total Metals : Total Mercury in Water by CVAAS										
Glass vial - total (lab preserved) VA3- SITE #3 MARBLE BAY @VAN ANDA	E508	14-Jan-2025	17-Jan-2025	28 days	3 days	✓	17-Jan-2025	28 days	3 days	✓
Total Metals : Total Mercury in Water by CVAAS										
Glass vial - total (lab preserved) VA4- SITE #4 BLEWETT/SMELTER	E508	14-Jan-2025	17-Jan-2025	28 days	3 days	✓	17-Jan-2025	28 days	3 days	✓



Matrix: **Water** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method	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	14-Jan-2025	17-Jan-2025	28 days	3 days	✔	17-Jan-2025	28 days	3 days	✔
Total Metals : Total Mercury in Water by CVAAS										
Glass vial - total (lab preserved) VA6- SITE #6 WALL ST PUMPHOUSE	E508	14-Jan-2025	17-Jan-2025	28 days	3 days	✔	17-Jan-2025	28 days	3 days	✔
Total Metals : Total Mercury in Water by CVAAS										
Glass vial - total (lab preserved) VA7- SITE #7 COPPER QUEEN @ALLADIN	E508	14-Jan-2025	17-Jan-2025	28 days	3 days	✔	17-Jan-2025	28 days	3 days	✔
Total Metals : Total Mercury in Water by CVAAS										
Glass vial - total (lab preserved) VA8- SITE #8 TANK OUTLET	E508	14-Jan-2025	17-Jan-2025	28 days	3 days	✔	17-Jan-2025	28 days	3 days	✔
Total Metals : Total Mercury in Water by CVAAS										
Glass vial - total (lab preserved) VA9- SITE #9 WALL STREET END HDYRANT	E508	14-Jan-2025	17-Jan-2025	28 days	3 days	✔	17-Jan-2025	28 days	3 days	✔
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE - total (lab preserved) VA- DUP WALL ST PUMPHOUSE	E420	14-Jan-2025	16-Jan-2025	180 days	2 days	✔	17-Jan-2025	180 days	3 days	✔
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE - total (lab preserved) VA3- SITE #3 MARBLE BAY @VAN ANDA	E420	14-Jan-2025	16-Jan-2025	180 days	2 days	✔	17-Jan-2025	180 days	3 days	✔
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE - total (lab preserved) VA4- SITE #4 BLEWETT/SMELTER	E420	14-Jan-2025	16-Jan-2025	180 days	2 days	✔	17-Jan-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	14-Jan-2025	16-Jan-2025	180 days	2 days	✔	17-Jan-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) VA7- SITE #7 COPPER QUEEN @ALLADIN	E420	14-Jan-2025	16-Jan-2025	180 days	2 days	✓	17-Jan-2025	180 days	3 days	✓
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE - total (lab preserved) VA9- SITE #9 WALL STREET END HDYRANT	E420	14-Jan-2025	16-Jan-2025	180 days	2 days	✓	17-Jan-2025	180 days	3 days	✓
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE - total (lab preserved) RAW SUPPLY	E420	14-Jan-2025	16-Jan-2025	180 days	3 days	✓	17-Jan-2025	180 days	3 days	✓
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE - total (lab preserved) VA1- SITE #1 HOTEL	E420	14-Jan-2025	16-Jan-2025	180 days	3 days	✓	17-Jan-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	14-Jan-2025	16-Jan-2025	180 days	3 days	✓	17-Jan-2025	180 days	3 days	✓
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE - total (lab preserved) VA2- SITE #2 EARL ST	E420	14-Jan-2025	16-Jan-2025	180 days	3 days	✓	17-Jan-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	14-Jan-2025	16-Jan-2025	180 days	3 days	✓	17-Jan-2025	180 days	3 days	✓
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE - total (lab preserved) VA8- SITE #8 TANK OUTLET	E420	14-Jan-2025	16-Jan-2025	180 days	3 days	✓	17-Jan-2025	180 days	3 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			Count		Frequency (%)		
Analytical Methods	Method	QC Lot #	QC	Regular	Actual	Expected	Evaluation
Laboratory Duplicates (DUP)							
Total Mercury in Water by CVAAS	E508	1843756	2	36	5.5	5.0	✔
Total Metals in Water by CRC ICPMS	E420	1842077	1	17	5.8	5.0	✔
Laboratory Control Samples (LCS)							
Total Mercury in Water by CVAAS	E508	1843756	2	36	5.5	5.0	✔
Total Metals in Water by CRC ICPMS	E420	1842077	1	17	5.8	5.0	✔
Method Blanks (MB)							
Total Mercury in Water by CVAAS	E508	1843756	2	36	5.5	5.0	✔
Total Metals in Water by CRC ICPMS	E420	1842077	1	17	5.8	5.0	✔
Matrix Spikes (MS)							
Total Mercury in Water by CVAAS	E508	1843756	2	36	5.5	5.0	✔
Total Metals in Water by CRC ICPMS	E420	1842077	1	17	5.8	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
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 in 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 it is a property of water due to dissolved divalent cations. Hardness from total Ca/Mg is normally comparable to Dissolved Hardness in non-turbid waters.

QUALITY CONTROL REPORT

Work Order	: VA25A0931	Page	: 1 of 10
Client	: Lafarge Canada Inc.	Laboratory	: ALS Environmental - Vancouver
Contact	: Louise Bantok	Account Manager	: Gulraj Dhanaua
Address	: 2300 Rogers Ave Coquitlam BC Canada V3K 5X6	Address	: 8081 Lougheed Highway Burnaby, British Columbia Canada V5A 1W9
Telephone	: ----	Telephone	: +1 604 253 4188
Project	: VAID - Texada	Date Samples Received	: 15-Jan-2025 10:35
PO	: 4501936438	Date Analysis Commenced	: 16-Jan-2025
C-O-C number	: ----	Issue Date	: 20-Jan-2025 09:16
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 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.

Signatories	Position	Laboratory Department
Kim Jensen	Department Manager - Metals	Vancouver Metals, Burnaby, British Columbia
Owen Cheng		Vancouver Metals, Burnaby, British Columbia

Page : 2 of 10
Work Order : VA25A0931
Client : Lafarge 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: 1842077)											
VA25A0973-001	Anonymous	Aluminum, total	7429-90-5	E420	0.0150	mg/L	0.0194	0.0154	0.0040	Diff <2x LOR	----
		Antimony, total	7440-36-0	E420	0.00050	mg/L	0.00395	0.00398	0.00004	Diff <2x LOR	----
		Arsenic, total	7440-38-2	E420	0.00050	mg/L	0.0121	0.0119	1.56%	20%	----
		Barium, total	7440-39-3	E420	0.00050	mg/L	0.0185	0.0186	0.382%	20%	----
		Beryllium, total	7440-41-7	E420	0.000100	mg/L	<0.000100	<0.000100	0	Diff <2x LOR	----
		Bismuth, total	7440-69-9	E420	0.000250	mg/L	<0.000250	<0.000250	0	Diff <2x LOR	----
		Boron, total	7440-42-8	E420	0.050	mg/L	1.93	1.91	1.05%	20%	----
		Cadmium, total	7440-43-9	E420	0.0000600	mg/L	<0.0000600	<0.0000600	0	Diff <2x LOR	----
		Calcium, total	7440-70-2	E420	0.250	mg/L	302	298	1.41%	20%	----
		Cesium, total	7440-46-2	E420	0.000050	mg/L	0.000116	0.000112	0.000004	Diff <2x LOR	----
		Chromium, total	7440-47-3	E420	0.00250	mg/L	<0.00250	<0.00250	0	Diff <2x LOR	----
		Cobalt, total	7440-48-4	E420	0.00050	mg/L	<0.00050	<0.00050	0	Diff <2x LOR	----
		Copper, total	7440-50-8	E420	0.00250	mg/L	0.0641	0.0634	0.990%	20%	----
		Iron, total	7439-89-6	E420	0.050	mg/L	<0.050	<0.050	0	Diff <2x LOR	----
		Lead, total	7439-92-1	E420	0.000250	mg/L	<0.000250	<0.000250	0	Diff <2x LOR	----
		Lithium, total	7439-93-2	E420	0.0050	mg/L	0.0258	0.0250	0.0008	Diff <2x LOR	----
		Magnesium, total	7439-95-4	E420	0.0250	mg/L	562	555	1.21%	20%	----
		Manganese, total	7439-96-5	E420	0.00050	mg/L	0.00208	0.00193	0.00015	Diff <2x LOR	----
		Molybdenum, total	7439-98-7	E420	0.000250	mg/L	0.0791	0.0803	1.47%	20%	----
		Nickel, total	7440-02-0	E420	0.00250	mg/L	0.00725	0.00707	0.00019	Diff <2x LOR	----
		Phosphorus, total	7723-14-0	E420	0.250	mg/L	<0.250	<0.250	0	Diff <2x LOR	----
		Potassium, total	7440-09-7	E420	0.250	mg/L	91.8	90.0	1.93%	20%	----
		Rubidium, total	7440-17-7	E420	0.00100	mg/L	0.0766	0.0767	0.0607%	20%	----
		Selenium, total	7782-49-2	E420	0.000250	mg/L	0.0152	0.0153	1.25%	20%	----
		Silicon, total	7440-21-3	E420	0.50	mg/L	6.43	6.51	1.11%	20%	----
		Silver, total	7440-22-4	E420	0.000050	mg/L	<0.000050	<0.000050	0	Diff <2x LOR	----
		Sodium, total	7440-23-5	E420	0.250	mg/L	1100	1080	1.93%	20%	----
		Strontium, total	7440-24-6	E420	0.00100	mg/L	10.5	10.7	2.18%	20%	----
		Sulfur, total	7704-34-9	E420	2.50	mg/L	1660	1650	0.673%	20%	----
		Tellurium, total	13494-80-9	E420	0.00100	mg/L	<0.00100	<0.00100	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: 1842077) - continued											
VA25A0973-001	Anonymous	Thallium, total	7440-28-0	E420	0.000050	mg/L	<0.000050	<0.000050	0	Diff <2x LOR	----
		Thorium, total	7440-29-1	E420	0.000050	mg/L	<0.000050	<0.000050	0	Diff <2x LOR	----
		Tin, total	7440-31-5	E420	0.000050	mg/L	<0.000050	<0.000050	0	Diff <2x LOR	----
		Titanium, total	7440-32-6	E420	0.00150	mg/L	<0.00150	<0.00150	0	Diff <2x LOR	----
		Tungsten, total	7440-33-7	E420	0.000050	mg/L	<0.000050	<0.000050	0	Diff <2x LOR	----
		Uranium, total	7440-61-1	E420	0.000050	mg/L	0.0203	0.0199	2.17%	20%	----
		Vanadium, total	7440-62-2	E420	0.00250	mg/L	0.00882	0.00879	0.00003	Diff <2x LOR	----
		Zinc, total	7440-66-6	E420	0.0150	mg/L	<0.0150	<0.0150	0	Diff <2x LOR	----
		Zirconium, total	7440-67-7	E420	0.00100	mg/L	<0.00100	<0.00100	0	Diff <2x LOR	----
Total Metals (QC Lot: 1843756)											
VA25A0776-001	Anonymous	Mercury, total	7439-97-6	E508	0.0000050	mg/L	0.0000248	0.0000248	0.00000004	Diff <2x LOR	----
Total Metals (QC Lot: 1843757)											
VA25A0931-004	VA4- SITE #4 BLEWETT/SMELTER	Mercury, total	7439-97-6	E508	0.0000050	mg/L	<0.0000050	<0.0000050	0	Diff <2x LOR	----



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: 1842077)						
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: 1842077) - 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: 1843756)						
Mercury, total	7439-97-6	E508	0.000005	mg/L	<0.0000050	----
Total Metals (QCLot: 1843757)						
Mercury, total	7439-97-6	E508	0.000005	mg/L	<0.0000050	----



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: 1842077)									
Aluminum, total	7429-90-5	E420	0.003	mg/L	2 mg/L	106	80.0	120	----
Antimony, total	7440-36-0	E420	0.0001	mg/L	1 mg/L	109	80.0	120	----
Arsenic, total	7440-38-2	E420	0.0001	mg/L	1 mg/L	112	80.0	120	----
Barium, total	7440-39-3	E420	0.0001	mg/L	0.25 mg/L	106	80.0	120	----
Beryllium, total	7440-41-7	E420	0.00002	mg/L	0.1 mg/L	108	80.0	120	----
Bismuth, total	7440-69-9	E420	0.00005	mg/L	1 mg/L	105	80.0	120	----
Boron, total	7440-42-8	E420	0.01	mg/L	1 mg/L	107	80.0	120	----
Cadmium, total	7440-43-9	E420	0.000005	mg/L	0.1 mg/L	108	80.0	120	----
Calcium, total	7440-70-2	E420	0.05	mg/L	50 mg/L	106	80.0	120	----
Cesium, total	7440-46-2	E420	0.00001	mg/L	0.05 mg/L	108	80.0	120	----
Chromium, total	7440-47-3	E420	0.0005	mg/L	0.25 mg/L	110	80.0	120	----
Cobalt, total	7440-48-4	E420	0.0001	mg/L	0.25 mg/L	107	80.0	120	----
Copper, total	7440-50-8	E420	0.0005	mg/L	0.25 mg/L	106	80.0	120	----
Iron, total	7439-89-6	E420	0.01	mg/L	1 mg/L	107	80.0	120	----
Lead, total	7439-92-1	E420	0.00005	mg/L	0.5 mg/L	106	80.0	120	----
Lithium, total	7439-93-2	E420	0.001	mg/L	0.25 mg/L	105	80.0	120	----
Magnesium, total	7439-95-4	E420	0.005	mg/L	50 mg/L	106	80.0	120	----
Manganese, total	7439-96-5	E420	0.0001	mg/L	0.25 mg/L	105	80.0	120	----
Molybdenum, total	7439-98-7	E420	0.00005	mg/L	0.25 mg/L	109	80.0	120	----
Nickel, total	7440-02-0	E420	0.0005	mg/L	0.5 mg/L	107	80.0	120	----
Phosphorus, total	7723-14-0	E420	0.05	mg/L	10 mg/L	116	80.0	120	----
Potassium, total	7440-09-7	E420	0.05	mg/L	50 mg/L	113	80.0	120	----
Rubidium, total	7440-17-7	E420	0.0002	mg/L	0.1 mg/L	112	80.0	120	----
Selenium, total	7782-49-2	E420	0.00005	mg/L	1 mg/L	112	80.0	120	----
Silicon, total	7440-21-3	E420	0.1	mg/L	10 mg/L	112	80.0	120	----
Silver, total	7440-22-4	E420	0.00001	mg/L	0.1 mg/L	101	80.0	120	----
Sodium, total	7440-23-5	E420	0.05	mg/L	50 mg/L	115	80.0	120	----
Strontium, total	7440-24-6	E420	0.0002	mg/L	0.25 mg/L	108	80.0	120	----
Sulfur, total	7704-34-9	E420	0.5	mg/L	50 mg/L	110	80.0	120	----
Tellurium, total	13494-80-9	E420	0.0002	mg/L	0.1 mg/L	109	80.0	120	----
Thallium, total	7440-28-0	E420	0.00001	mg/L	1 mg/L	110	80.0	120	----
Thorium, total	7440-29-1	E420	0.0001	mg/L	0.1 mg/L	102	80.0	120	----
Tin, total	7440-31-5	E420	0.0001	mg/L	0.5 mg/L	107	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: 1842077) - continued									
Titanium, total	7440-32-6	E420	0.0003	mg/L	0.25 mg/L	101	80.0	120	----
Tungsten, total	7440-33-7	E420	0.0001	mg/L	0.1 mg/L	106	80.0	120	----
Uranium, total	7440-61-1	E420	0.00001	mg/L	0.005 mg/L	104	80.0	120	----
Vanadium, total	7440-62-2	E420	0.0005	mg/L	0.5 mg/L	108	80.0	120	----
Zinc, total	7440-66-6	E420	0.003	mg/L	0.5 mg/L	106	80.0	120	----
Zirconium, total	7440-67-7	E420	0.0002	mg/L	0.1 mg/L	101	80.0	120	----
Total Metals (QCLot: 1843756)									
Mercury, total	7439-97-6	E508	0.000005	mg/L	0 mg/L	103	80.0	120	----
Total Metals (QCLot: 1843757)									
Mercury, total	7439-97-6	E508	0.000005	mg/L	0 mg/L	99.6	80.0	120	----



Matrix Spike (MS) Report

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

Sub-Matrix: 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: 1842077)										
VA25A0973-002	Anonymous	Aluminum, total	7429-90-5	E420	0.887 mg/L	1 mg/L	88.7	70.0	130	----
		Antimony, total	7440-36-0	E420	0.0930 mg/L	0.1 mg/L	93.0	70.0	130	----
		Arsenic, total	7440-38-2	E420	0.0991 mg/L	0.1 mg/L	99.1	70.0	130	----
		Barium, total	7440-39-3	E420	0.0885 mg/L	0.1 mg/L	88.5	70.0	130	----
		Beryllium, total	7440-41-7	E420	0.176 mg/L	0.2 mg/L	88.2	70.0	130	----
		Bismuth, total	7440-69-9	E420	0.0396 mg/L	0.05 mg/L	79.1	70.0	130	----
		Boron, total	7440-42-8	E420	0.427 mg/L	0.5 mg/L	85.4	70.0	130	----
		Cadmium, total	7440-43-9	E420	0.0184 mg/L	0.02 mg/L	91.8	70.0	130	----
		Calcium, total	7440-70-2	E420	ND mg/L	----	ND	70.0	130	----
		Cesium, total	7440-46-2	E420	0.0479 mg/L	0.05 mg/L	95.8	70.0	130	----
		Chromium, total	7440-47-3	E420	0.187 mg/L	0.2 mg/L	93.5	70.0	130	----
		Cobalt, total	7440-48-4	E420	0.0894 mg/L	0.1 mg/L	89.4	70.0	130	----
		Copper, total	7440-50-8	E420	0.0812 mg/L	0.1 mg/L	81.2	70.0	130	----
		Iron, total	7439-89-6	E420	9.00 mg/L	10 mg/L	90.0	70.0	130	----
		Lead, total	7439-92-1	E420	0.0873 mg/L	0.1 mg/L	87.3	70.0	130	----
		Lithium, total	7439-93-2	E420	0.464 mg/L	0.5 mg/L	92.8	70.0	130	----
		Magnesium, total	7439-95-4	E420	ND mg/L	----	ND	70.0	130	----
		Manganese, total	7439-96-5	E420	0.0890 mg/L	0.1 mg/L	89.0	70.0	130	----
		Molybdenum, total	7439-98-7	E420	0.0979 mg/L	0.1 mg/L	97.9	70.0	130	----
		Nickel, total	7440-02-0	E420	0.174 mg/L	0.2 mg/L	87.0	70.0	130	----
		Phosphorus, total	7723-14-0	E420	48.8 mg/L	50 mg/L	97.5	70.0	130	----
		Potassium, total	7440-09-7	E420	ND mg/L	----	ND	70.0	130	----
		Rubidium, total	7440-17-7	E420	0.0931 mg/L	0.1 mg/L	93.1	70.0	130	----
		Selenium, total	7782-49-2	E420	0.217 mg/L	0.2 mg/L	108	70.0	130	----
		Silicon, total	7440-21-3	E420	47.2 mg/L	50 mg/L	94.3	70.0	130	----
		Silver, total	7440-22-4	E420	0.0179 mg/L	0.02 mg/L	89.4	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	ND mg/L	----	ND	70.0	130	----
		Tellurium, total	13494-80-9	E420	0.209 mg/L	0.2 mg/L	104	70.0	130	----
		Thallium, total	7440-28-0	E420	0.0172 mg/L	0.02 mg/L	86.2	70.0	130	----
		Thorium, total	7440-29-1	E420	0.0822 mg/L	0.1 mg/L	82.2	70.0	130	----
		Tin, total	7440-31-5	E420	0.0932 mg/L	0.1 mg/L	93.2	70.0	130	----
		Titanium, total	7440-32-6	E420	0.180 mg/L	0.2 mg/L	90.1	70.0	130	----
		Tungsten, total	7440-33-7	E420	0.0937 mg/L	0.1 mg/L	93.7	70.0	130	----
		Uranium, total	7440-61-1	E420	0.0179 mg/L	0.02 mg/L	89.5	70.0	130	----
		Vanadium, total	7440-62-2	E420	0.476 mg/L	0.5 mg/L	95.2	70.0	130	----
		Zinc, total	7440-66-6	E420	1.74 mg/L	2 mg/L	87.3	70.0	130	----
		Zirconium, total	7440-67-7	E420	0.208 mg/L	0.2 mg/L	104	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: 1843756)										
VA25A0857-001	Anonymous	Mercury, total	7439-97-6	E508	0.000105 mg/L	0 mg/L	105	70.0	130	----
Total Metals (QCLot: 1843757)										
VA25A0931-005	VA5- SITE #5 SELLENTIN @STURT BAY RD	Mercury, total	7439-97-6	E508	0.000101 mg/L	0 mg/L	101	70.0	130	----



Chain of Custody (COC) / Analytical Request Form

Canada Toll Free: 1 800 668 9878

www.alsglobal.com

Affix ALS barcode label here
(lab use only)

COC Number: 15 -

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Report To		Report Format / Distribution		Select Service Level Below - Please confirm all E&P T&T with your AM - surcharges will apply	
Company:	Lafarge	Select Report Format:		Regular [R]	
Contact:	Louise Bantok	Quality Control (QC) Report with Report		PRIORITY (Business Day)	EMERGENCY
Phone:	6043406320	Select Distribution:		4 day [P4]	1 Business day [E1]
Company address below will appear on the final report				3 day [P3]	Same Day, Weekend or Statutory holiday [E0]
Street:	2300 Rogers Avenue	Email 1 or Fax	contact@vananda-id.ca	Date and Time Required for all E&P T&T:	
City/Province:	Coquitlam, BC	Email 2	louis.bantok@lafargeholdim.com	For tests that can not be performed according to the service level selected, you will be contacted.	
Postal Code:	V3K 5X6	Email 3	ESdat_CA+lafargeholdim@ESdatLabSync.net	Analysis Request	
Invoice To	Same as Report To	Invoice Distribution		Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below	
	Copy of Invoice with Report	Select Invoice Distribution:			
Company:	Lafarge	Email 1 or Fax			
Contact:	Mat Kavanagh	Email 2			
Project Information		Oil and Gas Required Fields (client use)			
ALS Account # / Quote #:		AFE/Cost Center:	PO#		
Job #:	VAID - Texada	Major/Minor Code:	Routing Code:		
PO / AFE:	4501832334	Requisitioner:			
LSD:		Location:			
ALS Lab Work Order # (lab use only)		ALS Contact:	Sampler:		
ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	
	VA1 - SITE #1 HOTEL	14 01 25	7:55	Water	R R
	VA2 - SITE #2 EARL ST	14 01 25	8:20	Water	R R
	VA3 - SITE #3 MARBLE BAY @ VAN ANDA	14 01 25	8:30	Water	R R
	VA4 - SITE #4 BLEWETT/SMELTER	14 01 25	8:40	Water	R R
	VA5 - SITE #5 SELLENTIN @ STURT BAY RD	14 01 25	8:10	Water	R R
	VA6 - SITE #6 WALL ST PUMPHOUSE	14 01 25	9:00	Water	R R
	VA7 - SITE #7 COPPER QUEEN @ ALLADIN	14 01 25	9:15	Water	R R
	VA8 - SITE #8 TANK OUTLET	14 01 25	7:15	Water	R R
	VA9 - SITE #9 - WALL STREET END HYDRANT	14 01 25	8:50	Water	R R
	VA10 - SITE #10 - MARBLE BAY & SELLENTIN ST	14 01 25	8:05	Water	R R
	RAW SUPPLY	14 01 25	7:00	Water	R R
	VA-DUP Wall St Pumphouse	14 01 25	9:00	Water	R R
Drinking Water (DW) Samples ¹ (client use)		Special Instructions / Specify Criteria to add on report by clicking on the drop-down list below (electronic COC only)		SAMPLE CONDITION AS RECEIVED (lab use only)	
Are samples taken from a Regulated DW System? YES				Frozen ☒ SIF Observations Yes ☐ No ☐	
Are samples for human drinking water use? YES		Note: Samples are chlorinated. Please distribute the report to contact@vananda-id.ca		Ice Packs ☒ Ice Cubes ☐ Custody seal intact Yes ☐ No ☐	
				Cooling Initiated ☐ NO	
				INITIAL COOLER TEMPERATURES °C	
				FINAL COOLER TEMPERATURES °C	
SHIPMENT RELEASE (client use)		INITIAL SHIPMENT RECEPTION (lab use only)		FINAL SHIPMENT RECEPTION (lab use only)	
Released by:	Date:	Time:	Received by:	Date:	Time:

Environmental Division
Vancouver
Work Order Reference
VA25A0931



Telephone : +1 604 263 4188

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

Rcvd 15Jan2025

OCTOBER 2015 FRONT