

**VANCOUVER SCHOOL BOARD Maintenance and Construction** 1549 Clark Drive

**Date:** 17-MAY-19 **PO No.:** 1517879 **WO No.:** L2273973

Project Ref: KILLARNEY SECONDARY SCHOOL

Sample ID: B111

Sampled By: Chris Carrell Date Collected: 15-MAY-19 Lab Sample ID: L2273973-1

Matrix: Water

Vancouver BC V5L 3L4 ATTN: Stephen Thomas			Matrix: Wate	er	PAGE	1 of 24
Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals Lead (Pb)-Total	0.00351		mg/L	0.005		17-MAY-19
* CDWQG for Nitrate+Nitrite-N is the limit for nitrate only * Turbidity guideline based on membrane filtration. For Summary Table of Guidelines for Canadian Drinking Wa - A blank entry designates no known limit A shaded value in the Results column exceeds CDWQ	guidelines on cor iter Quality	ventional treatm	ent and slow sand			ase see
Approved by Joanne Lee	_					

Account Manager





**Date:** 17-MAY-19 **PO No.:** 1517879 **WO No.:** L2273973

LSD:

Project Ref: KILLARNEY SECONDARY SCHOOL

Sample ID: B103
Sampled By: Chris Carrell
Date Collected: 15-MAY-19

Lab Sample ID: L2273973-2
Matrix: Water

		<b>Matrix:</b> Wate	er	PAGE	2 of 24
Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
0.000837		mg/L	0.005		17-MAY-19
guidelines on cor ater Quality	ventional treatm	ent and slow sand			se see
	0.000837  MAY 2018  7. If present as N guidelines on corter Quality	0.000837  MAY 2018  7. If present as Nitrate then the liguidelines on conventional treatmenter Quality	Result Qualifier Units of Measure  0.000837 mg/L  MAY 2018  7. If present as Nitrate then the limit is 10mg/L < or guidelines on conventional treatment and slow sand	Result Qualifier Measure MAC  0.000837 mg/L 0.005  MAY 2018  7. If present as Nitrate then the limit is 10mg/L < or N.D. = less than deguidelines on conventional treatment and slow sand or diatomaceous exter Quality	Result Qualifier Units of CDWQG Aesthetic Objective  0.000837 mg/L 0.005  MAY 2018  If present as Nitrate then the limit is 10mg/L < or N.D. = less than detection limit. guidelines on conventional treatment and slow sand or diatomaceous earth filtration pleaster Quality

Account Manager





**Date:** 17-MAY-19 **PO No.:** 1517879 **WO No.:** L2273973

LSD:

Project Ref: KILLARNEY SECONDARY SCHOOL

Sample ID: 101

Sampled By: Chris Carrell
Date Collected: 15-MAY-19
Lab Sample ID: L2273973-3

Matrix: Water

Vancouver BC V5L 3L4 ATTN: Stephen Thomas			watrix: wate	er	PAGE	3 of 24
Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals Lead (Pb)-Total	0.000072		mg/L	0.005		17-MAY-19
* CDWQG = Health Canada Guideline Limits updated  * CDWQG for Nitrate+Nitrite-N is the limit for nitrate only  * Turbidity guideline based on membrane filtration. For commany Table of Guidelines for Canadian Drinking War - A blank entry designates no known limit.  - A shaded value in the Results column exceeds CDWQ	guidelines on con ter Quality	ventional treatm	ent and slow sand			ase see

Account Manager





**Date:** 17-MAY-19 **PO No.:** 1517879 **WO No.:** L2273973

LSD:

Project Ref: KILLARNEY SECONDARY SCHOOL

Sample ID: C125
Sampled By: Chris Carrell
Date Collected: 15-MAY-19
Lab Sample ID: L2273973-4

Matrix: Water

Vancouver BC V5L 3L4 ATTN: Stephen Thomas			watrix. wate	əi	PAGE	4 of 24
Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals Lead (Pb)-Total	0.00291		mg/L	0.005		17-MAY-19
CDWQG = Health Canada Guideline Limits updated  * CDWQG for Nitrate+Nitrite-N is the limit for nitrate only.  * Turbidity guideline based on membrane filtration. For gummary Table of Guidelines for Canadian Drinking War - A blank entry designates no known limit.  - A shaded value in the Results column exceeds CDWQC	juidelines on con ter Quality	ventional treatm	ent and slow sand			ase see

Account Manager





**Date:** 17-MAY-19 **PO No.:** 1517879 **WO No.:** L2273973

LSD:

Project Ref: KILLARNEY SECONDARY SCHOOL

Sample ID: C111

Sampled By: Chris Carrell
Date Collected: 15-MAY-19
Lab Sample ID: L2273973-5

Matrix: Water

Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
0.000455		mg/L	0.005		17-MAY-19
idelines on con er Quality	ventional treatm	ent and slow sand			se see
i	0.000455  MAY 2018  If present as Ni idelines on con r Quality	0.000455  MAY 2018  If present as Nitrate then the lir idelines on conventional treatmr Quality	0.000455 mg/L  MAY 2018  If present as Nitrate then the limit is 10mg/L < or idelines on conventional treatment and slow sand	MAY 2018  If present as Nitrate then the limit is 10mg/L < or N.D. = less than detidelines on conventional treatment and slow sand or diatomaceous er quality  May 2018	MAY 2018  If present as Nitrate then the limit is 10mg/L < or N.D. = less than detection limit. idelines on conventional treatment and slow sand or diatomaceous earth filtration plear r Quality

Account Manager





**VANCOUVER SCHOOL BOARD Maintenance and Construction** 1549 Clark Drive

**Date:** 17-MAY-19 **PO No.:** 1517879 **WO No.:** L2273973

Project Ref: KILLARNEY SECONDARY SCHOOL

Sample ID: C110 Sampled By: Chris Carrell Date Collected: 15-MAY-19 **Lab Sample ID:** L2273973-6

Matrix: Water

Vancouver BC V5L 3L4 ATTN: Stephen Thomas			Matrix: Wate	er	PAGE	6 of 24
Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals Lead (Pb)-Total	0.000313		mg/L	0.005		17-MAY-19
* CDWQG for Nitrate+Nitrite-N is the limit for nitrate only * Turbidity guideline based on membrane filtration. For Summary Table of Guidelines for Canadian Drinking Wa - A blank entry designates no known limit A shaded value in the Results column exceeds CDWQ  Approved by	guidelines on cor iter Quality	ventional treatm	ent and slow sand			ise see
Approved by Joanne Lee	_					

Account Manager





**Date:** 17-MAY-19 **PO No.:** 1517879 **WO No.:** L2273973

LSD:

Project Ref: KILLARNEY SECONDARY SCHOOL

Sample ID: C107 Sampled By: Chris Carrell Date Collected: 15-MAY-19

Matrix: Water

**Lab Sample ID:** L2273973-7

Vancouver BC V5L 3L4 ATTN: Stephen Thomas			Matrix: Wate	er	PAGE	7 of 24
Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals  Lead (Pb)-Total	0.00360		mg/L	0.005		17-MAY-19
* CDWQG = Health Canada Guideline Limits updated  * CDWQG for Nitrate+Nitrite-N is the limit for nitrate only  * Turbidity guideline based on membrane filtration. For Summary Table of Guidelines for Canadian Drinking Wa  - A blank entry designates no known limit.  - A shaded value in the Results column exceeds CDWG	guidelines on cor ater Quality	ventional treatm	ent and slow sand			se see
Approved by  Joanne Lee  Account Manager						





VANCOUVER SCHOOL BOARD
Maintenance and Construction
1549 Clark Drive
Vancouver BC V5L 3L4
ATTN: Stephen Thomas

Account Manager

**Date:** 17-MAY-19 **PO No.:** 1517879 **WO No.:** L2273973

LSD:

Project Ref: KILLARNEY SECONDARY SCHOOL

Sample ID: A130
Sampled By: Chris Carrell
Date Collected: 15-MAY-19

Matrix: Water

Lab Sample ID: L2273973-8

Vancouver BC V5L 3L4 ATTN: Stephen Thomas			<b>Matrix:</b> Wate	er	PAGE	8 of 24
Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals  Lead (Pb)-Total	0.000054		mg/L	0.005		17-MAY-19
* CDWQG = Health Canada Guideline Limits updated  * CDWQG for Nitrate+Nitrite-N is the limit for nitrate only  * Turbidity guideline based on membrane filtration. For Summary Table of Guidelines for Canadian Drinking Wa  - A blank entry designates no known limit.  - A shaded value in the Results column exceeds CDWQ	guidelines on cor iter Quality	ventional treatm	ent and slow sand			ase see
Approved by Joanne Lee	_					





**Date:** 17-MAY-19 **PO No.:** 1517879 **WO No.:** L2273973

LSD:

Project Ref: KILLARNEY SECONDARY SCHOOL

Sample ID: A120 Sampled By: Chris Carrell

**Date Collected:** 15-MAY-19 **Lab Sample ID:** L2273973-9

Matrix: Water

Vancouver BC V5L 3L4 ATTN: Stephen Thomas			Matrix: Wate	er	PAGE	9 of 24
Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals  Lead (Pb)-Total	0.00191		mg/L	0.005		17-MAY-19
* CDWQG = Health Canada Guideline Limits updated  * CDWQG for Nitrate+Nitrite-N is the limit for nitrate only  * Turbidity guideline based on membrane filtration. For Summary Table of Guidelines for Canadian Drinking Wa  - A blank entry designates no known limit.  - A shaded value in the Results column exceeds CDWC	guidelines on cor ater Quality	ventional treatm	ent and slow sand			ase see
Approved by  Joanne Lee  Account Manager						





**Date:** 17-MAY-19 **PO No.:** 1517879 **WO No.:** L2273973

LSD:

Project Ref: KILLARNEY SECONDARY SCHOOL

Sample ID: A112

Sampled By: Chris Carrell
Date Collected: 15-MAY-19
Lab Sample ID: L2273973-10

Matrix: Water

Vancouver BC V5L 3L4 ATTN: Stephen Thomas			Watrix. Wate	ei	PAGE	10 of 24
Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals Lead (Pb)-Total	0.000783		mg/L	0.005		17-MAY-19
* CDWQG = Health Canada Guideline Limits updated  * CDWQG for Nitrate+Nitrite-N is the limit for nitrate only  * Turbidity guideline based on membrane filtration. For gummary Table of Guidelines for Canadian Drinking Wa  - A blank entry designates no known limit.  - A shaded value in the Results column exceeds CDWQ	juidelines on con ter Quality	ventional treatm	ent and slow sand			ase see

Account Manager





VANCOUVER SCHOOL BOARD
Maintenance and Construction
1549 Clark Drive
Vancouver BC V5L 3L4
ATTN: Stephen Thomas

**Date:** 17-MAY-19 **PO No.:** 1517879 **WO No.:** L2273973

LSD:

Project Ref: KILLARNEY SECONDARY SCHOOL

Sample ID: D120
Sampled By: Chris Carrell
Date Collected: 15-MAY-19
Lab Sample ID: L2273973-11

Matrix: Water

Vancouver BC V5L 3L4 ATTN: Stephen Thomas			Matrix: Wate	er	PAGE	11 of 24
Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals  Lead (Pb)-Total	0.00257		mg/L	0.005		17-MAY-19
CDWQG = Health Canada Guideline Limits updated  * CDWQG for Nitrate+Nitrite-N is the limit for nitrate only  * Turbidity guideline based on membrane filtration. For Summary Table of Guidelines for Canadian Drinking Wa  - A blank entry designates no known limit.  - A shaded value in the Results column exceeds CDWG	guidelines on cor ater Quality	ventional treatm	ent and slow sand			ase see
Approved by Joanne Lee	_					

Account Manager





**Date:** 17-MAY-19 **PO No.:** 1517879 **WO No.:** L2273973

LSD:

Project Ref: KILLARNEY SECONDARY SCHOOL

Sample ID: D123
Sampled By: Chris Carrell
Date Collected: 15-MAY-19

Lab Sample ID: L2273973-12
Matrix: Water

Vancouver BC V5L 3L4 ATTN: Stephen Thomas			Matrix: Wate	er	PAGE	12 of 24
Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals  Lead (Pb)-Total	0.00427		mg/L	0.005		17-MAY-19
* CDWQG = Health Canada Guideline Limits updated  * CDWQG for Nitrate+Nitrite-N is the limit for nitrate only  * Turbidity guideline based on membrane filtration. For Summary Table of Guidelines for Canadian Drinking Wa  - A blank entry designates no known limit.  - A shaded value in the Results column exceeds CDWC	guidelines on cor ater Quality	ventional treatm	ent and slow sand			ase see
Approved by Joanne Lee	_					

Account Manager





**Date:** 17-MAY-19 **PO No.:** 1517879 **WO No.:** L2273973

LSD:

Project Ref: KILLARNEY SECONDARY SCHOOL

Sample ID: A227

Sampled By: Chris Carrell
Date Collected: 15-MAY-19
Lab Sample ID: L2273973-13

Matrix: Water

Vancouver BC V5L 3L4 ATTN: Stephen Thomas			Wattik. Watt	əi	PAGE	13 of 24
Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals Lead (Pb)-Total	0.000107		mg/L	0.005		17-MAY-19
<ul> <li>CDWQG = Health Canada Guideline Limits updated</li> <li>* CDWQG for Nitrate+Nitrite-N is the limit for nitrate only</li> <li>* Turbidity guideline based on membrane filtration. For Summary Table of Guidelines for Canadian Drinking Wa-A blank entry designates no known limit.</li> <li>- A shaded value in the Results column exceeds CDWQ</li> </ul>	guidelines on cor iter Quality	ventional treatm	ent and slow sand			ase see
Approved by  Joanne Lee  Account Manager						





Account Manager

**Date:** 17-MAY-19 **PO No.:** 1517879 **WO No.:** L2273973

LSD:

Project Ref: KILLARNEY SECONDARY SCHOOL

Sample ID: A202

Sampled By: Chris Carrell
Date Collected: 15-MAY-19
Lab Sample ID: L2273973-14

Matrix: Water

Vancouver BC V5L 3L4 ATTN: Stephen Thomas			<b>Matrix.</b> Wate	er	PAGE	14 of 24
Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals Lead (Pb)-Total	0.00160		mg/L	0.005		17-MAY-19
* CDWQG = Health Canada Guideline Limits updated  * CDWQG for Nitrate+Nitrite-N is the limit for nitrate only  * Turbidity guideline based on membrane filtration. For summary Table of Guidelines for Canadian Drinking Wa  - A blank entry designates no known limit.  - A shaded value in the Results column exceeds CDWQ  Approved by  Joanne Lee	guidelines on cor Iter Quality	ventional treatm	ent and slow sand			ase see





**Date:** 17-MAY-19 **PO No.:** 1517879 **WO No.:** L2273973

LSD:

Project Ref: KILLARNEY SECONDARY SCHOOL

Sample ID: A208

Sampled By: Chris Carrell
Date Collected: 15-MAY-19
Lab Sample ID: L2273973-15

Matrix: Water

			PAGE	15 of 24			
Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed		
0.00239		mg/L	0.005		17-MAY-19		
guidelines on con Iter Quality	ventional treatm	ent and slow sand			se see		
	0.00239  MAY 2018  If present as N guidelines on conter Quality	0.00239  MAY 2018  If present as Nitrate then the linguidelines on conventional treatmeter Quality	0.00239 mg/L  MAY 2018  If present as Nitrate then the limit is 10mg/L < or guidelines on conventional treatment and slow sand	Qualifier Measure MAC  0.00239 mg/L 0.005  MAY 2018  If present as Nitrate then the limit is 10mg/L < or N.D. = less than defiguidelines on conventional treatment and slow sand or diatomaceous enter Quality  Output  Description:	MAY 2018  If present as Nitrate then the limit is 10mg/L < or N.D. = less than detection limit. guidelines on conventional treatment and slow sand or diatomaceous earth filtration pleater Quality  O.00239  MAC Objective  N.D. = less than detection limit. guidelines on conventional treatment and slow sand or diatomaceous earth filtration pleater Quality		

Account Manager





Date: 17-MAY-19 PO No.: 1517879 WO No.: L2273973

LSD:

Project Ref: KILLARNEY SECONDARY SCHOOL

Sample ID: B212

Sampled By: Chris Carrell
Date Collected: 15-MAY-19
Lab Sample ID: L2273973-16

Matrix: Water

Vancouver BC V5L 3L4 ATTN: Stephen Thomas			watrix: wate	er	PAGE	16 of 24
Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals  Lead (Pb)-Total	0.000423		mg/L	0.005		17-MAY-19
CDWQG = Health Canada Guideline Limits updated  * CDWQG for Nitrate+Nitrite-N is the limit for nitrate only  * Turbidity guideline based on membrane filtration. For Summary Table of Guidelines for Canadian Drinking Wa  - A blank entry designates no known limit.  - A shaded value in the Results column exceeds CDWQ	guidelines on cor iter Quality	ventional treatm	ent and slow sand			se see
Approved by Joanne Lee	_					

Account Manager





**Date:** 17-MAY-19 **PO No.:** 1517879 **WO No.:** L2273973

LSD:

Project Ref: KILLARNEY SECONDARY SCHOOL

Sample ID: B202

Sampled By: Chris Carrell
Date Collected: 15-MAY-19
Lab Sample ID: L2273973-17

Matrix: Water

Vancouver BC V5L 3L4 ATTN: Stephen Thomas			watrix: wate	er	PAGE	17 of 24
Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals Lead (Pb)-Total	0.000351		mg/L	0.005		17-MAY-19
* CDWQG = Health Canada Guideline Limits updated  * CDWQG for Nitrate+Nitrite-N is the limit for nitrate only  * Turbidity guideline based on membrane filtration. For commany Table of Guidelines for Canadian Drinking War - A blank entry designates no known limit.  - A shaded value in the Results column exceeds CDWQ	guidelines on con ter Quality	ventional treatm	ent and slow sand			ase see

Account Manager





VANCOUVER SCHOOL BOARD
Maintenance and Construction
1549 Clark Drive
Vancouver BC V5L 3L4
ATTN: Stephen Thomas

**Date:** 17-MAY-19 **PO No.:** 1517879 **WO No.:** L2273973

LSD:

Project Ref: KILLARNEY SECONDARY SCHOOL

Sample ID: A327

Sampled By: Chris Carrell
Date Collected: 15-MAY-19
Lab Sample ID: L2273973-18

Matrix: Water

Vancouver BC V5L 3L4 ATTN: Stephen Thomas		PAGE	18 of 24			
Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals Lead (Pb)-Total	0.000056		mg/L	0.005		17-MAY-19
* CDWQG = Health Canada Guideline Limits updated  * CDWQG for Nitrate+Nitrite-N is the limit for nitrate only  * Turbidity guideline based on membrane filtration. For summary Table of Guidelines for Canadian Drinking Wa  - A blank entry designates no known limit.  - A shaded value in the Results column exceeds CDWQ  Approved by  Joanne Lee	guidelines on con iter Quality	ventional treatm	ent and slow sand			ase see

Account Manager





VANCOUVER SCHOOL BOARD
Maintenance and Construction
1549 Clark Drive
Vancouver BC V5L 3L4
ATTN: Stephen Thomas

**Date:** 17-MAY-19 **PO No.:** 1517879 **WO No.:** L2273973

LSD:

Project Ref: KILLARNEY SECONDARY SCHOOL

Sample ID: A302 Sampled By: Chris Carrell

Date Collected: 15-MAY-19 Lab Sample ID: L2273973-19

Matrix: Water

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Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyze
otal Metals Lead (Pb)-Total	0.000888		mg/L	0.005		17-MAY-1
DWQG = Health Canada Guideline Limits updated	MAY 2018					
CDWQG for Nitrate+Nitrite-N is the limit for nitrate only Furbidity guideline based on membrane filtration. For summary Table of Guidelines for Canadian Drinking Was blank entry designates no known limit.  A shaded value in the Results column exceeds CDWQ	guidelines on cor iter Quality	ventional treatm	ent and slow sand	N.D. = less than de d or diatomaceous e	ection limit. arth filtration plea	se see
approved by Joanne Lee						
Account Manager						





**Date:** 17-MAY-19 **PO No.:** 1517879 **WO No.:** L2273973

LSD:

Project Ref: KILLARNEY SECONDARY SCHOOL

Sample ID: A318
Sampled By: Chris Carrell
Date Collected: 15-MAY-19
Lab Sample ID: L2273973-20

Matrix: Water

Vancouver BC V5L 3L4 ATTN: Stephen Thomas	PAGE 20										
Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed					
Total Metals Lead (Pb)-Total	0.000139		mg/L	0.005		17-MAY-19					
* CDWQG = Health Canada Guideline Limits updated  * CDWQG for Nitrate+Nitrite-N is the limit for nitrate only  * Turbidity guideline based on membrane filtration. For a Summary Table of Guidelines for Canadian Drinking Wa  - A blank entry designates no known limit.  - A shaded value in the Results column exceeds CDWQ  Approved by  Joanne Lee	guidelines on con ter Quality	ventional treatm	ent and slow sand			ase see					

Joanne Lee

Account Manager





VANCOUVER SCHOOL BOARD
Maintenance and Construction
1549 Clark Drive
Vancouver BC V5L 3L4
ATTN: Stephen Thomas

Date: 17-MAY-19 PO No.: 1517879 WO No.: L2273973

LSD:

Project Ref: KILLARNEY SECONDARY SCHOOL

Sample ID: C108
Sampled By: Chris Carrell
Date Collected: 15-MAY-19
Lab Sample ID: L2273973-21

Matrix: Water

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Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals Lead (Pb)-Total	0.0247		mg/L	0.005		17-MAY-1
DWQG = Health Canada Guideline Limits updated	MAY 2018					
CDWQG for Nitrate+Nitrite-N is the limit for nitrate only Turbidity guideline based on membrane filtration. For summary Table of Guidelines for Canadian Drinking Wa A blank entry designates no known limit. A shaded value in the Results column exceeds CDWC	guidelines on cor ater Quality	ventional treatm	ent and slow sand	N.D. = less than de d or diatomaceous e	tection limit. arth filtration plea	se see
Approved by  Joanne Lee  Account Manager						





**VANCOUVER SCHOOL BOARD Maintenance and Construction** 1549 Clark Drive

**Date:** 17-MAY-19 **PO No.:** 1517879 **WO No.:** L2273973

Project Ref: KILLARNEY SECONDARY SCHOOL

Sample ID: D121

Sampled By: Chris Carrell Date Collected: 15-MAY-19 **Lab Sample ID:** L2273973-22

Matrix: Water

Vancouver BC V5L 3L4 ATTN: Stephen Thomas	PAGE										
Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed					
Total Metals Lead (Pb)-Total	0.00213		mg/L	0.005		17-MAY-19					
* CDWQG = Health Canada Guideline Limits updated  * CDWQG for Nitrate+Nitrite-N is the limit for nitrate only  * Turbidity guideline based on membrane filtration. For gummary Table of Guidelines for Canadian Drinking Wa  - A blank entry designates no known limit.  - A shaded value in the Results column exceeds CDWQ	uidelines on con ter Quality	ventional treatm	ent and slow sand			ase see					

Account Manager





Account Manager

**Date:** 17-MAY-19 **PO No.:** 1517879 **WO No.:** L2273973

LSD:

Project Ref: KILLARNEY SECONDARY SCHOOL

Sample ID: A308
Sampled By: Chris Carrell

Date Collected: 15-MAY-19 Lab Sample ID: L2273973-23

Matrix: Water

Vancouver BC V5L 3L4 ATTN: Stephen Thomas			Matrix. Wate	er	PAGE	23 of 24
Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals Lead (Pb)-Total	0.000910		mg/L	0.005		17-MAY-19
CDWQG = Health Canada Guideline Limits updated  * CDWQG for Nitrate+Nitrite-N is the limit for nitrate only  * Turbidity guideline based on membrane filtration. For Summary Table of Guidelines for Canadian Drinking Wa  - A blank entry designates no known limit.  - A shaded value in the Results column exceeds CDWQ	guidelines on cor ater Quality	ventional treatm	ent and slow sand			se see
Approved by Joanne Lee	_					



## **Guidelines & Objectives**

#### Health Canada MAC Health Related Criteria Limits

Nitrate/Nitrite-N\* Criteria limit is 10 mg/L (1.0 mg/L if present as all Nitrite-N). High concentrations may contribute to blue baby syndrome in infants.

Lead\* A cumulative body poison, uncommon in naturally occurring hard waters.

Fluoride\* Present in fluoridated water supplies at 0.8 mg/L to reduce dental caries. Elevated levels causes fluorosis (mottling of teeth).

Total Coliforms\* Criteria is 0 CFU/100mL. Adverse health effects.

Criteria is 0 CFU/100 mL. Certain E. Coli bacteria can be life threatening. E. Coli\*

\*Health Canada Canadian Drinking Water Quality Guidelines (MAC limit)

#### **Aesthetic Objective Concentration Levels**

Alkalinity Acid neutralizing capacity. Usually a measure of carbonate and bicarbonates and calculated and reported as calcium carbonate.

Balance Quality control parameter ratioing cations to anions See Alkalinity. Report as the anion HCO3-1 Bicarbonate See Alkalinity. Reported at the anion CO3-2 Carbonate

See Hardness. Common major cation of water chemistry.

Chloride Common major anion of water chemistry.

Physical test measuring water salinity (dissolved ions or solids) Conductance

Classical measure or capacity of water to precipitate soap (chiefly calcium and magnesium ions). Causes scaling tendency in Hardness

water if carbonates/bicarbonates are present (if >200 mg/L). For drinking water purposes waters with results <200 mg/L are considered acceptable, results >200 mg/L are considered poor but can be tolerated. Results >500 mg/L are unacceptable.

Hydroxide

See hardness. Common major cation of water chemistry. Elevated levels (>125 mg/L) may exert a cathartic or diuretic action. Magnesium рΗ

Measure of water acidity/alkalinity. Normal range is 7.0-8.5.

Potassium Common major cation of water chemistry.

Sodium Common major cation of water chemistry. Measure of salinity (saltiness).

Common major anion of water chemistry. Elevated levels may exert a cathartic or diuretic action. Sulphate

**Total Dissolved Solids** A measure of water salinity.

Causes staining to laundry and porcelain and astringent taste. Oxidizes to red-brown precipitate on exposure to air. Iron

Elevated levels may cause staining of laundry and porcelain. Manganese

Heterotrophic

Calcium

Plate Count Criteria is 500 cfu/mL Measure of heterotrophic bacteria present.

#### **GLOSSARY OF REPORT TERMS**

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample mg/kg wwt - milligrams per kilogram based on wet weight of sample mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory. UNLESS OTHERWISE STATED. ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.



### Chain of Custody (COC) / Analytical Request Form

2273973-COFC

COC Number: 17 - 829220

Canada Toll Free: 1 800 668 9878 www.alsglobal.com Report To Contact and company name below will appear on the final report Report Format \_\_ காரு அரு பார்க்க அரசு பார்க்க அரசு பார்க்க அரசு பார்க்க அரசு பார்க்க அரசு அரசு அரசு அரசு அரசு அரசு அரசு அரச N PDF Company: Vancouver School Select Report Format: poord EXCEL | | EDD (DIGITAL) Regular [R] Standard TAT if received by 3 pm - business days - no surcharges apply Stephen Thomas Quality Control (QC) Report with Report Contact: YES NO 4 day [P4-20%] Business day [E - 100%] 604-713-5637 Compare Results to Criteria on Report - provide details below if box checked Phone: 3 day [P3-25%] Same Day, Weekend or Statutory holiday [E2 -200% MAIL | MAIL ] FAX Company address below will appear on the final report Select Distribution: (Laboratory opening fees may apply) ] 2 day [P2-50%] 55 Thomas Q VSB, B(, CA 1544 Clark Dr Email 1 or Fax Date and Time Required for all E&P TATs: dd-mmm-vv hh:mm City/Province: Vancouver 1 Email 2 For tests that can not be performed according to the service level selected, you will be contacted Email 3 Postal Code: Analysis Request Invoice To YES NO Same as Report To Invoice Distribution indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below ON HOLD Copy of Invoice with Report X YES NO Select Invoice Distribution: MAIL | FAX ONTAINER Email 1 or Fax SST homas @ VSB. Br. CA Company: Contact: Email 2 **Project Information** Oil and Gas Required Fields (client use) ALS Account # / Quote #: AFE/Cost Center: Job #: Secondary School Killarneu Major/Minor Code: Routing Code: ŭ SAMPLES PO / AFE: Requisitioner: 6 SD: ocation: ALS Lab Work Order # (lab use only): Sampler: Chris Carrell ALS Contact: ALS Sample # Sample Identification and/or Coordinates Date Sample Type (lab use only) (This description will appear on the report) (dd-mmm-yy) 15-May-19 08:25 BIII Mater R 103 15-May-19 08:15 Water 15/may/19 08:10 water 101 C125 15/May / 19 | 08: 35 water 15/ May / 19 08:41 water CIII C110 15/May/ 19 08:45 water C107 15/Maa/ 19/08:49 wiater 15/May/ 19 09:16 water A 130 A120 15/May/19 09:06 water Water 15/May/ 19 09:22 A112 D120 15/mau/ 19 09:25 water D 123 15/MM/ 19/09:29 wa ter SAMPLE CONDITION AS RECEIVED (lab use only) Special Instructions / Specify Criteria to add on report by clicking on the drop-down list below Drinking Water (DW) Samples' (client use) (electronic COC only) SIF Observations No Are samples taken from a Regulated DW System? Ice Packs Ice Cubes Custody seal intact YES NO No preservatives added Cooling Initiated Are samples for human consumption/ use? INITIAL COOLER TEMPERATURES °C FINAL COOLER TEMPERATURES °C YES NO SHIPMENT RELEASE (client use) FINAL SHIPMENT RECEPTION (lab use only) INITIAL SHIPMENT RECEPTION (lab use only) Released by. Received by: Received by: Time: 14 PX REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION YELLOW - CLIENT COPY

WHITE - LABORATORY COPY



# Chain of Custody (COC) / Analytical Request Form

Canada Toll Free: 1 800 668 9878

L2273973-COFC

coc Number: 17 - 829219

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Company:	Vancouver School	Board.	Select Report Fo	rmat: V PDF	EXCEL 7 E	DD (DIGITAL)	]	Regular	[R] 🔽	Standard	TAT if rece	ived by 3 pr	n - business	days - no	surcharge	es apply		
Contact:	Stephen Thomas		Quality Control (	QC) Report with Rep	ort YES	NO NO	- F	4 day [P4	-20%] [		ည် <u>။</u> 1	Business	day [E -	100%]				
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Street:	1549 Clark Dr	•	Email 1 or Fax	SSThoma	350VSB	BCCCA		Date and Time Required for all E&P TATs: dd-mmm-yy hh:mm										
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