

VANCOUVER SCHOOL BOARD
Maintenance and Construction
1549 Clark Drive
Vancouver BC V5L 3L4

Account Manager

Date: 09-MAY-19 PO No.: 1517879 WO No.: L2267538

LSD: Project Ref:

Sample ID: RM 122 Sampled By: Chris Carrell Date Collected: 03-MAY-19 Lab Sample ID: L2267538-1

Matrix: Water

Vancouver BC V5L 3L4 ATTN: Stephen Thomas			Matrix: Wate	er	PAGE	1 of 9
Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals Lead (Pb)-Total	0.00400		mg/L	0.005		06-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 iter Quality	ventional treatn	ent and slow sand			ase see
Approved by Joanne Lee	_					





Date: 09-MAY-19 **PO No.:** 1517879 **WO No.:** L2267538

LSD: Project Ref:

Sample ID: RM 117
Sampled By: Chris Carrell
Date Collected: 03-MAY-19
Lab Sample ID: L2267538-3

Matrix: Water

Vancouver BC V5L 3L4 ATTN: Stephen Thomas			watrix: wate	er	PAGE	3 of 9
Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals Lead (Pb)-Total	0.00445		mg/L	0.005		06-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 CDWQG Approved by Joanne Lee	guidelines on con ter Quality	ventional treatm	ent and slow sand			ase see

Account Manager





Date: 09-MAY-19 PO No.: 1517879 WO No.: L2267538

LSD: Project Ref:

Sample ID: RM 131
Sampled By: Chris Carrell
Date Collected: 03-MAY-19
Lab Sample ID: L2267538-5

Vancouver BC V5L 3L4 ATTN: Stephen Thomas			Matrix:	Water	PAGE	5 of 9
Test Description	Result	Qualifier	Units of Measure		Aesthetic Objective	Date Analyzed
Total Metals Lead (Pb)-Total	0.00528		mg/L	0.005		06-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 Wall-A blank entry designates no known limit. - A shaded value in the Results column exceeds CDWQ	guidelines on con iter Quality	ventional treatm	ent and slow			ase see
Approved by Joanne Lee Account Manager						





Date: 09-MAY-19 PO No.: 1517879 WO No.: L2267538

LSD: Project Ref:

Sample ID: RM 132 Sampled By: Chris Carrell Date Collected: 03-MAY-19 Lab Sample ID: L2267538-6

1549 Clark Drive Vancouver BC V5L 3L4 ATTN: Stephen Thomas		Lab	Matrix:		PAGE	6 of 9
Test Description	Result	Qualifier	Units of Measure		Aesthetic Objective	Date Analyzed
Total Metals Lead (Pb)-Total	0.00652		mg/L	0.005		06-MAY-19
* CDWQG = Health Canada Guideline Limits updated * CDWQG for Nitrate+Nitrite-N is the limit for nitrate onl * 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	. < or N.D. = less than de v sand or diatomaceous e	tection limit. Parth filtration ple	ase see
Approved by Joanne Lee Account Manager	_					





VANCOUVER SCHOOL BOARD Maintenance and Construction 1549 Clark Drive

Date: 09-MAY-19 **PO No.:** 1517879 WO No.: L2267538

LSD: Project Ref:

Sample ID: RM 145 Sampled By: Chris Carrell Date Collected: 03-MAY-19 Lab Sample ID: L2267538-7

Matrix: Water

			er	PAGE	7 of 9
Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
0.00379		mg/L	0.005		07-MAY-19
ly. If present as N guidelines on cor ater Quality	ventional treatm	ent and slow sand			ase see
	0.00379 MAY 2018 ly. If present as Norguidelines on corrater Quality	0.00379 MAY 2018 ly. If present as Nitrate then the linguidelines on conventional treatmater Quality	MAY 2018 Jy. If present as Nitrate then the limit is 10mg/L < or guidelines on conventional treatment and slow sand	Result Qualifier Measure MAC 0.00379 mg/L 0.005 MAY 2018 ly. If present as Nitrate then the limit is 10mg/L < or N.D. = less than der guidelines on conventional treatment and slow sand or diatomaceous eater Quality	Result Qualifier Units of CDWQG Aesthetic Objective 0.00379 mg/L 0.005 MAY 2018 by. 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

Account Manager





VANCOUVER SCHOOL BOARD
Maintenance and Construction
1549 Clark Drive
Vancouver BC V5L 3L4

Date: 09-MAY-19 **PO No.:** 1517879 **WO No.:** L2267538

LSD: Project Ref:

Sample ID: RM 148
Sampled By: Chris Carrell
Date Collected: 03-MAY-19
Lab Sample ID: L2267538-8

Vancouver BC V5L 3L4 ATTN: Stephen Thomas			Matrix:	Water	PAGE	8 of 9
Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals Lead (Pb)-Total	0.00615		mg/L	0.005		07-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 treatn	ent and slow			ase see
Approved by Joanne Lee Account Manager						



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.

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

*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
Bicarbonate See Alkalinity. Report as the anion HCO3-1
Carbonate See Alkalinity. Reported at the anion CO3-2

Calcium See Hardness. Common major cation of water chemistry.

Chloride Common major anion of water chemistry.

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

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

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 alkalinity

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

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).

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

Total Dissolved Solids A measure of water salinity.

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

Manganese Elevated levels may cause staining of laundry and porcelain.

Heterotrophic

рΗ

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.

ALS Environmenta

www.alsglobal.com

Chain of Custody (COC) / Analytical Request Form

Canada Toll Free: 1 800 668 9878

L2267538-COFC

COC Number: 17 - 811841

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VANCOUVER SCHOOL BOARD
Maintenance and Construction
1549 Clark Drive
Vancouver BC V5L 3L4

Date: 14-MAY-19 PO No.: 1517879 WO No.: L2269000

LSD:

Project Ref: CHURCHILL Sample ID: RM 002 Sampled By: Chris Carnell Date Collected: 07-MAY-19 Lab Sample ID: L2269000-1

Matrix: Water

PAGE 1 of 11

ATTN: Stephen Thom	as					I AGE	
Test Descriptio	n	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals Lead (Pb)-Total		0.0162		mg/L	0.005		08-MAY-19
CDWQG = Health Canada Guide	eline Limits updated	MAY 2018					
* CDWQG for Nitrate+Nitrite-N is * Turbidity guideline based on me Summary Table of Guidelines for - A blank entry designates no kno - A shaded value in the Results of	embrane filtration. For Canadian Drinking Wa own limit.	guidelines on con iter Quality	ventional treatm	ent and slow sand	N.D. = less than de	ection limit. arth filtration plea	ase see
Approved by Joanne Lee Account Manager	<i>√</i>						





Date: 14-MAY-19 **PO No.:** 1517879 **WO No.:** L2269000

LSD:

Project Ref: CHURCHILL
Sample ID: RM 132
Sampled By: Chris Carnell
Date Collected: 07-MAY-19
Lab Sample ID: L2269000-2

Matrix: Water

		Matrix: Wate	er	PAGE	2 of 11
Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
0.00480		mg/L	0.005		08-MAY-19
guidelines on cor ater Quality	ventional treatm	ent and slow sand			se see
	0.00480 MAY 2018 If present as N guidelines on corter Quality	0.00480 MAY 2018 If present as Nitrate then the liguidelines on conventional treatmeter Quality	Result Qualifier Units of Measure 0.00480 mg/L MAY 2018 7. If present as Nitrate then the limit is 10mg/L < or guidelines on conventional treatment and slow sand	Qualifier Measure MAC 0.00480 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 0.00480 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: 14-MAY-19 PO No.: 1517879 WO No.: L2269000

LSD:

Project Ref: CHURCHILL
Sample ID: RM 110
Sampled By: Chris Carnell
Date Collected: 07-MAY-19
Lab Sample ID: L2269000-3

Matrix: Water

Vancouver BC V5L 3L4 ATTN: Stephen Thomas			watrix: wate	er	PAGE	3 of 11
Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals Lead (Pb)-Total	0.000368		mg/L	0.005		08-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:14-MAY-19PO No.:1517879WO No.:L2269000

LSD:

Project Ref: CHURCHILL
Sample ID: RM 145
Sampled By: Chris Carnell
Date Collected: 07-MAY-19
Lab Sample ID: L2269000-4

Matrix: Water

Vancouver BC V5L 3L4 ATTN: Stephen Thomas			Matrix: Wate	er	PAGE	4 of 11
Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals Lead (Pb)-Total	0.000756		mg/L	0.005		08-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 CDWQG Approved by Joanne Lee	juidelines on con ter Quality	ventional treatm	ent and slow sand			se see

Account Manager





Date: 14-MAY-19 PO No.: 1517879 WO No.: L2269000

LSD:

Project Ref: CHURCHILL
Sample ID: RM 148
Sampled By: Chris Carnell
Date Collected: 07-MAY-19
Lab Sample ID: L2269000-5

Matrix: Water

Vancouver BC V5L 3L4 ATTN: Stephen Thomas			Watrix. Wate	ai	PAGE	5 of 11
Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals Lead (Pb)-Total	0.000472		mg/L	0.005		08-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 CDWQG	juidelines on con ter Quality	ventional treatm	ent and slow sand			ase see

Account Manager





Date: 14-MAY-19 **PO No.:** 1517879 **WO No.:** L2269000

LSD:

Project Ref: CHURCHILL
Sample ID: RM 115
Sampled By: Chris Carnell
Date Collected: 07-MAY-19
Lab Sample ID: L2269000-6

Matrix: Water

Vancouver BC V5L 3L4 ATTN: Stephen Thomas			Watrix. Wate	ei	PAGE	6 of 11
Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals Lead (Pb)-Total	0.00263		mg/L	0.005		08-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 g Summary Table of Guidelines for Canadian Drinking Wa - A blank entry designates no known limit. - A shaded value in the Results column exceeds CDWQG Approved by Joanne Lee	juidelines on con ter Quality	ventional treatm	ent and slow sand			ase see

Account Manager





Date: 14-MAY-19 PO No.: 1517879 WO No.: L2269000

LSD:

Project Ref: CHURCHILL
Sample ID: RM 151
Sampled By: Chris Carnell
Date Collected: 07-MAY-19
Lab Sample ID: L2269000-7
Matrix: Water

PAGE 7 of 11

Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals Lead (Pb)-Total	0.000178		mg/L	0.005		08-MAY-19
CDWQG = Health Canada Guideline Limits updated	MAY 2018					
* 0014/00/ 10/10 11/10/10 11/10/10/10/10/10/10/10/10/10/10/10/10/1						1

- * CDWQG for Nitrate+Nitrite-N is the limit for nitrate only. If present as Nitrate then the limit is 10mg/L < or N.D. = less than detection limit.
- * Turbidity guideline based on membrane filtration. For guidelines on conventional treatment and slow sand or diatomaceous earth filtration please see Summary Table of Guidelines for Canadian Drinking Water Quality
- A blank entry designates no known limit.
- A shaded value in the Results column exceeds CDWQG MAC and/ or Aesthetic Objective.

Approved by

Joanne Lee Account Manager





Date: 14-MAY-19 PO No.: 1517879 WO No.: L2269000

LSD:

Project Ref: CHURCHILL Sample ID: RM 157 Sampled By: Chris Carnell Date Collected: 07-MAY-19 Lab Sample ID: L2269000-8

Matrix: Water

Vancouver BC V5L 3L4 ATTN: Stephen Thomas			watrix. wate	əi	PAGE	8 of 11
Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals Lead (Pb)-Total	0.000277		mg/L	0.005		08-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 Wal - 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:14-MAY-19PO No.:1517879WO No.:L2269000

LSD:

Project Ref: CHURCHILL
Sample ID: RM 158
Sampled By: Chris Carnell
Date Collected: 07-MAY-19
Lab Sample ID: L2269000-9

Matrix: Water

		watrix: wat	er	PAGE	9 of 11
Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
0.00275		mg/L	0.005		08-MAY-19
guidelines on con iter Quality	ventional treatm	ent and slow sand			ase see
	0.00275 MAY 2018 7. If present as N guidelines on conter Quality	0.00275 MAY 2018 The present as Nitrate then the linguidelines on conventional treatment of the state of th	Result Qualifier Units of Measure 0.00275 mg/L MAY 2018 7. If present as Nitrate then the limit is 10mg/L < or guidelines on conventional treatment and slow sand	MAY 2018 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 MAC MAC 0.005	Result Qualifier Units of CDWQG Aesthetic Objective 0.00275 mg/L 0.005 MAY 2018 7. 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 pleasure Quality

Account Manager





Date:14-MAY-19PO No.:1517879WO No.:L2269000

LSD:

Project Ref: CHURCHILL
Sample ID: RM 117
Sampled By: Chris Carnell
Date Collected: 07-MAY-19
Lab Sample ID: L2269000-10

Matrix: Water

		watrix: wate	er	PAGE	10 of 11
Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
0.00133		mg/L	0.005		08-MAY-19
guidelines on con iter Quality	ventional treatm	ent and slow sand			ase see
	0.00133 MAY 2018 If present as N guidelines on conter Quality	0.00133 MAY 2018 If present as Nitrate then the linguidelines on conventional treatmenter Quality	Result Qualifier Units of Measure 0.00133 mg/L MAY 2018 7. If present as Nitrate then the limit is 10mg/L < or guidelines on conventional treatment and slow sand	MAY 2018 If present as Nitrate then the limit is 10mg/L < or N.D. = less than deguidelines on conventional treatment and slow sand or diatomaceous enter Quality	Result Qualifier Units of CDWQG Aesthetic Objective 0.00133 mg/L 0.005 MAY 2018 7. 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 pleasure Quality

Account Manager



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.

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

*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
Bicarbonate See Alkalinity. Report as the anion HCO3-1
Carbonate See Alkalinity. Reported at the anion CO3-2

See Hardness. Common major cation of water chemistry.

Chloride Common major anion of water chemistry.

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

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

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 alkalinity

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

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).

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

Total Dissolved Solids A measure of water salinity.

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

Manganese Elevated levels may cause staining of laundry and porcelain.

Heterotrophic

Calcium

рΗ

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

L2269000-COFC

COC Number: 17 - 828497

FINAL SHIPMENT RECEPTION (lab use only)

Received by: M

YELLOW - CLIENT COPY

Canada Toll Free: 1 800 668 9878 www.alsglobal.com Contact and company name below will appear on the final report Report To Report Forma ____ and another rever Bélow - Contact your AM to confirm all E&P TATs (surcharges may apply) Select Report Format: Van louver School **Y** PDF □ EXCEL | EDÓ (DIGITAL) Standard TAT if received by 3 pm - business days - no surcharges apply Company: Regular [R] YES NO Quality Control (QC) Report with Report 4 day [P4-20%] 1 Business day [E - 100%] Contact: Stroken Thomas Compare Results to Criteria on Report - provide details below if box checked 3 day [P3-25%] Phone: Same Day, Weekend or Statutory holiday [E2 -200% EMAIL | MAIL | FAX (Laboratory opening fees may apply)] Select Distribution: 2 day [P2-50%] Company address below will appear on the final report SS thomas @VSB, BC.CA 1549 Clark DC Street: Date and Time Required for all E&P TATs: dd-mmm-yy hh:mm City/Province: Vancovar 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 Same as Report To YES Invoice Distribution Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below ON HOLD CONTAINERS Select Invoice Distribution: EMAIL MAIL - FAX Copy of Invoice with Report YES Email 1 or Fax SS + LOWASOVSB. BC. CA Company: Contact: **Project Information** Oil and Gas Required Fields (client use) ALS Account # / Quote #: AFE/Cost Center PO# Job#: husdail Aaior/Minor Code: Routing Code: SAMPLES PO / AFE: Requisitioner ш ō LSD: _ocation: NUMBER ead Sampler/1 ALS Lab Work Order # (lab use only): ALS Contact: Sample Identification and/or Coordinates Date Time ALS Sample # Sample Type (lab use only) (This description will appear on the report) (dd-mmm-yy) (hh:mm) 2M 002 1:02 07Mav191 07May 19 11:52 57 May 19 1201 07 May 191 11:57 on May 19 12:06 Rル 07May 19 12:49 on May 19/12:56 07 May 19 1:11 07 May 19 1:14 57 May 19 17 53 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 Frozen No Are samples taken from a Regulated DW System? ice Packs 🔲 Ice Cubes 🔲 Custody seaf intact П YES NO . Cooling Initiated Are samples for human consumption/ use? INITIAL COOLER TEMPERATURES °C. FINAL COOLER TEMPERATURES °C YES | NO

INITIAL SHIPMENT RECEPTION (lab use only)

WHITE - LABORATORY COPY

Received by:

Time:

SHIPMENT RELEASE (client use)

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

Released by:



Date: 15-MAY-19 PO No.: 1517879 WO No.: L2269892

LSD:

Project Ref: CHURCHILL SECONDARY

Sample ID: A 116
Sampled By: Chris Carrell
Date Collected: 08-MAY-19
Lab Sample ID: L2269892-1

Matrix: Water

Vancouver BC V5L 3L4 ATTN: Stephen Thomas			watrix: wate	er	PAGE	1 of 12
Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals Lead (Pb)-Total	0.000136		mg/L	0.005		11-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 cor ter Quality	ventional treatm	ent and slow sand			ase see

Accou

Account Manager





Date: 15-MAY-19 PO No.: 1517879 WO No.: L2269892

LSD:

Project Ref: CHURCHILL SECONDARY

Sample ID: 231

Sampled By: Chris Carrell
Date Collected: 08-MAY-19
Lab Sample ID: L2269892-2

Matrix: Water

Vancouver BC V5L 3L4 ATTN: Stephen Thomas			Matrix: Wate	er	PAGE	2 of 12
Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals Lead (Pb)-Total	0.000688		mg/L	0.005		11-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: 15-MAY-19 PO No.: 1517879 WO No.: L2269892

LSD:

Project Ref: CHURCHILL SECONDARY

Sample ID: 201

Sampled By: Chris Carrell
Date Collected: 08-MAY-19
Lab Sample ID: L2269892-3

Matrix: Water

Vancouver BC V5L 3L4 ATTN: Stephen Thomas			watrix: wate	er	PAGE	3 of 12
Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals Lead (Pb)-Total	0.00161		mg/L	0.005		11-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	guidelines on con Iter Quality	ventional treatm	ent and slow sand			ase see
Joanne Lee						

Joanne Lee

Account Manager





Date: 15-MAY-19 PO No.: 1517879 WO No.: L2269892

LSD:

Project Ref: CHURCHILL SECONDARY

Sample ID: 213

Sampled By: Chris Carrell
Date Collected: 08-MAY-19
Lab Sample ID: L2269892-4

Matrix: Water

Vancouver BC V5L 3L4 ATTN: Stephen Thomas			watrix: wate	er	PAGE	4 of 12
Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals Lead (Pb)-Total	0.000292		mg/L	0.005		11-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 Approved by Joanne Lee	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

Date: 15-MAY-19 PO No.: 1517879 WO No.: L2269892

I SD:

Project Ref: CHURCHILL SECONDARY

Sample ID: 215

Sampled By: Chris Carrell
Date Collected: 08-MAY-19
Lab Sample ID: L2269892-5

Matrix: Water

Pocult					
Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
0.000332		mg/L	0.005		11-MAY-19
delines on conv Quality	ventional treatm	ent and slow sand			se see
1	MAY 2018 present as Ni lelines on conv	0.000332 MAY 2018 present as Nitrate then the lirelelines on conventional treatmonal quality	Qualifier Measure 0.000332 mg/L MAY 2018 present as Nitrate then the limit is 10mg/L < or lelines on conventional treatment and slow sand	0.000332 mg/L 0.005 MAY 2018 present as Nitrate then the limit is 10mg/L < or N.D. = less than detellines on conventional treatment and slow sand or diatomaceous equality	0.000332 mg/L 0.005 MAY 2018 present as Nitrate then the limit is 10mg/L < or N.D. = less than detection limit. lelines on conventional treatment and slow sand or diatomaceous earth filtration plea Quality

Account Manager





VANCOUVER SCHOOL BOARD Maintenance and Construction 1549 Clark Drive

Date: 15-MAY-19 **PO No.:** 1517879 **WO No.:** L2269892

LSD:

Project Ref: CHURCHILL SECONDARY

Sample ID: A 214 Sampled By: Chris Carrell Date Collected: 08-MAY-19 **Lab Sample ID:** L2269892-6

Matrix: Water

Vancouver BC V5L 3L4 ATTN: Stephen Thomas			watrix: wate	er	PAGE	6 of 12
Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals Lead (Pb)-Total	0.00228		mg/L	0.005		11-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	guidelines on con ter Quality	ventional treatm	ent and slow sand			se see

Account Manager





VANCOUVER SCHOOL BOARD
Maintenance and Construction
1549 Clark Drive
Vancouver BC V5L 3L4

Account Manager

Date: 15-MAY-19 **PO No.:** 1517879 **WO No.:** L2269892

LSD:

Project Ref: CHURCHILL SECONDARY

Sample ID: 331

Sampled By: Chris Carrell
Date Collected: 08-MAY-19
Lab Sample ID: L2269892-7

Matrix: Water

Vancouver BC V5L 3L4 ATTN: Stephen Thomas			Matrix: Wate	er	PAGE	7 of 12
Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals Lead (Pb)-Total	0.000518		mg/L	0.005		11-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						





VANCOUVER SCHOOL BOARD Maintenance and Construction 1549 Clark Drive

Date: 15-MAY-19 **PO No.:** 1517879 **WO No.:** L2269892

Project Ref: CHURCHILL SECONDARY

Sample ID: 313

Sampled By: Chris Carrell Date Collected: 08-MAY-19 **Lab Sample ID:** L2269892-8

Matrix: Water

Vancouver BC V5L 3L4 ATTN: Stephen Thomas			Watrix. Wate	31	PAGE	8 of 12
Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals Lead (Pb)-Total	0.000389		mg/L	0.005		11-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 g Summary Table of Guidelines for Canadian Drinking War - A blank entry designates no known limit. - A shaded value in the Results column exceeds CDWQC Approved by Joanne Lee	juidelines on con ter Quality	ventional treatm	ent and slow sand			ase see

Account Manager





VANCOUVER SCHOOL BOARD Maintenance and Construction 1549 Clark Drive

Date: 15-MAY-19 **PO No.:** 1517879 **WO No.:** L2269892

LSD:

Project Ref: CHURCHILL SECONDARY

Sample ID: 301

Sampled By: Chris Carrell Date Collected: 08-MAY-19 **Lab Sample ID:** L2269892-9

Matrix: Water

		watrix: wate	er	PAGE	9 of 12
Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
0.00216		mg/L	0.005		11-MAY-19
guidelines on cor iter Quality	ventional treatm	ent and slow sand			ase see
	0.00216 MAY 2018 7. If present as N guidelines on corter Quality	0.00216 MAY 2018 7. If present as Nitrate then the liguidelines on conventional treatmenter Quality	Result Qualifier Units of Measure 0.00216 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 0.00216 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 0.00216 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 pleater Quality

Account Manager





Date: 15-MAY-19 PO No.: 1517879 WO No.: L2269892

LSD:

Project Ref: CHURCHILL SECONDARY

Sample ID: 315

Sampled By: Chris Carrell
Date Collected: 08-MAY-19
Lab Sample ID: L2269892-10

Matrix: Water

Vancouver BC V5L 3L4 ATTN: Stephen Thomas			Watrix. Wate	31	PAGE	10 of 12
Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals Lead (Pb)-Total	0.000532		mg/L	0.005		11-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 g Summary Table of Guidelines for Canadian Drinking Wat - A blank entry designates no known limit A shaded value in the Results column exceeds CDWQC	uidelines on con ter Quality	ventional treatm	ent and slow sand			ase see

Account Manager





VANCOUVER SCHOOL BOARD Maintenance and Construction 1549 Clark Drive

Date: 15-MAY-19 **PO No.:** 1517879 **WO No.:** L2269892

LSD:

Project Ref: CHURCHILL SECONDARY

Sample ID: A 313 Sampled By: Chris Carrell Date Collected: 08-MAY-19 Lab Sample ID: L2269892-11

Matrix: Water

Vancouver BC V5L 3L4 ATTN: Stephen Thomas			watrix: wate	er	PAGE	11 of 12
Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals Lead (Pb)-Total	0.00272		mg/L	0.005		11-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



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.

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

*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
Bicarbonate See Alkalinity. Report as the anion HCO3-1
Carbonate See Alkalinity. Reported at the anion CO3-2

See Hardness. Common major cation of water chemistry.

Chloride Common major anion of water chemistry.

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

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

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 alkalinity

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

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).

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

Total Dissolved Solids A measure of water salinity.

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

Manganese Elevated levels may cause staining of laundry and porcelain.

Heterotrophic

Calcium

рΗ

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

COC Number: 17 - 829279

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	/ Distribution		Select Servi	ce Level Below	- Contact	your AM to d	onfirm all	E&P TATs	surcharges	may apply)		
Company:	MAGOUVE School	Board.	Select Report Format: PDF FXCEL EDD (DIGITAL)			Regular [R] Standard TAT if received by 3 pm - business days - no surcharges apply									
Contact:	Stephen Thomas		Quality Control (QC) Report with Rep	y (sys)	§ 4 day [P4-20%]										
Phone:	604713 5637		Quality Control (QC) Report with Report YES NO Compare Results to Criteria on Report - provide details below if box checked			3 day [P3-25	%] [<u></u>	Sa Sa	me Dav. We	ekend o	Statutory	holidav (I	2 -200%		
	Company address below will appear on the	e final report	Select Distribution: 🔀 EMAIL MAIL 🗍 FAX								Day, Weekend or Statutory holiday [E2 -200% atory opening fees may apply)]				
Street:	1549 Clark Dr		Email 1 or Fax SS+ho		Date and Time R	te and Time Required for all E&P TATs: dd-mmm-yy hh:mm									
City/Province:	Vancouver BC	•	Email 2		For test	s that can not be po	formed according	to the service !	evel selected, y	ou will be co	ntacted.				
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^{1.} If any water samples are taken from a Regulated Drinking Water (DW). System, please submit using an Authorized DW COC form.