

Date: 16-SEP-19
PO No.: 1517879
WO No.: L2343128

LSD:

Project Ref: LORD BEACONSFIELD

Sample ID: RM. 002 DF Sampled By: Robin Lenay Date Collected: 06-SEP-19 Lab Sample ID: L2343128-1

Matrix: Water

Vancouver BC V5L 3L4 ATTN: Stephen Thomas			watrix: wate	er	PAGE	1 of 10
Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals Lead (Pb)-Total	0.00143		mg/L	0.005		11-SEP-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 Edward Ngai	guidelines on con ter Quality	ventional treatm	ent and slow sand			ase see

Account Manager





Date: 16-SEP-19
PO No.: 1517879
WO No.: L2343128

LSD:

Project Ref: LORD BEACONSFIELD

Sample ID: RM. 007 DF
Sampled By: Robin Lenay
Date Collected: 06-SEP-19
Lab Sample ID: L2343128-2

Matrix: Water

Vancouver BC V5L 3L4 ATTN: Stephen Thomas			Watrix. Wate	ei	PAGE	2 of 10
Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals Lead (Pb)-Total	0.000643		mg/L	0.005		11-SEP-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 CDWQC	juidelines on con ter Quality	ventional treatm	ent and slow sand			ase see

Account Manager





Date: 16-SEP-19 PO No.: 1517879 WO No.: L2343128

LSD:

Project Ref: LORD BEACONSFIELD

Sample ID: LORR 095 DF Sampled By: Robin Lenay Date Collected: 06-SEP-19 Lab Sample ID: L2343128-3

Matrix: Water

		watrix. wat	er	PAGE	3 of 10
Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
0.000308		mg/L	0.005		11-SEP-19
guidelines on con iter Quality	ventional treatm	ent and slow sand			ase see
	0.000308 JUNE 2019 If present as N guidelines on conter Quality	0.000308 JUNE 2019 If present as Nitrate then the liquidelines on conventional treatmeter Quality	Result Qualifier Units of Measure 0.000308 mg/L JUNE 2019 If present as Nitrate then the limit is 10mg/L < or guidelines on conventional treatment and slow sand	Qualifier Measure MAC 0.000308 mg/L 0.005 JUNE 2019 If present as Nitrate then the limit is 10mg/L < or N.D. = less than deguidelines on conventional treatment and slow sand or diatomaceous eter Quality	Result Qualifier Units of CDWQG Aesthetic Objective 0.000308 mg/L 0.005 JUNE 2019 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 pleter Quality

Account Manager





Date: 16-SEP-19
PO No.: 1517879
WO No.: L2343128

LSD:

Project Ref: LORD BEACONSFIELD

Sample ID: RM. 101 DF Sampled By: Robin Lenay Date Collected: 06-SEP-19 Lab Sample ID: L2343128-4

Matrix: Water

Vancouver BC V5L 3L4 ATTN: Stephen Thomas			Wattik. Watt	əi	PAGE	4 of 10
Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals Lead (Pb)-Total	0.000294		mg/L	0.005		11-SEP-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 cor Iter Quality	ventional treatm	ent and slow sand			ase see
Approved by Edward Ngai	_					

Account Manager





Date: 16-SEP-19
PO No.: 1517879
WO No.: L2343128

LSD:

Project Ref: LORD BEACONSFIELD

Sample ID: RM. 102 DF
Sampled By: Robin Lenay
Date Collected: 06-SEP-19
Lab Sample ID: L2343128-5

Matrix: Water

Vancouver BC V5L 3L4 ATTN: Stephen Thomas			Watrix. Wate	31	PAGE	5 of 10
Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals Lead (Pb)-Total	0.000849		mg/L	0.005		11-SEP-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 con ter Quality	ventional treatm	ent and slow sand			ase see

Account Manager





Date: 16-SEP-19
PO No.: 1517879
WO No.: L2343128

LSD:

Project Ref: LORD BEACONSFIELD

Sample ID: RM. 106 DF Sampled By: Robin Lenay Date Collected: 06-SEP-19 Lab Sample ID: L2343128-6

Matrix: Water

Vancouver BC V5L 3L4 ATTN: Stephen Thomas			watrix: wate	er	PAGE	6 of 10
Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals Lead (Pb)-Total	0.000410		mg/L	0.005		11-SEP-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 Edward Ngai	guidelines on con ter Quality	ventional treatm	ent and slow sand			ise see

Account Manager





Date: 16-SEP-19 PO No.: 1517879 WO No.: L2343128

LSD:

Project Ref: LORD BEACONSFIELD

Sample ID: RM. 206 DF
Sampled By: Robin Lenay
Date Collected: 06-SEP-19
Lab Sample ID: L2343128-7

Matrix: Water

Vancouver BC V5L 3L4 ATTN: Stephen Thomas			Wattik. Watt	3 1	PAGE	7 of 10
Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals Lead (Pb)-Total	0.000494		mg/L	0.005		11-SEP-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 Edward Ngai Account Manager						





Date: 16-SEP-19 PO No.: 1517879 WO No.: L2343128

LSD:

Project Ref: LORD BEACONSFIELD

Sample ID: RM. 201 DF Sampled By: Robin Lenay Date Collected: 06-SEP-19 Lab Sample ID: L2343128-8

Matrix: Water

Vancouver BC V5L 3L4 ATTN: Stephen Thomas			watrix: wate	er	PAGE	8 of 10
Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals Lead (Pb)-Total	0.000395		mg/L	0.005		11-SEP-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 Edward Ngai	guidelines on con ter Quality	ventional treatm	ent and slow sand			ise see

Account Manager





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

Date: 16-SEP-19
PO No.: 1517879
WO No.: L2343128

LSD:

Project Ref: LORD BEACONSFIELD

Sample ID: RM. 202 DF Sampled By: Robin Lenay Date Collected: 06-SEP-19 Lab Sample ID: L2343128-9

Matrix: Water

Vancouver BC V5L 3L4 ATTN: Stephen Thomas			Watrix. Wate	ei	PAGE	9 of 10
Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals Lead (Pb)-Total	0.00201		mg/L	0.005		11-SEP-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 Edward Ngai	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.

Manganese* Criteria limit is 0.12 mg/L. Possible neurological effects in infants.

*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.

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.

Environmental www.alsglobal.com

Chain of Custody (COC) / Analytical Request Form



L2343128-COFC

COC Number: 17 - 756170

Page

of

Canada Toll Free: 1 800 668 9878

Report To Contact and company name below will appear on the final report	Report Format / Distribution	Select Service Level Below - Contact your AM to confirm all E&P TATs (surcharges may apply)					
company: Vancouver School Board	Select Report Format: PDF EXCEL EDD (DIGITAL)	Regular [R] 🔀 Standard TAT if received by 3 pm - business days - no surcharges apply					
Contact Stephen Thomas	Quality Control (QC) Report with Report X YES NO	है 4 day [P4-20%] 🗍 🧯 1	Business day [E - 100%]	1			
Phone: 604-713-5637	Compare Results to Criteria on Report - provide details below if box checked	불 [3 day [P3-25%]	ame Day, Weekend or Statutory holiday [E2 -200%	-			
Company address below will appear on the final report	Select Distribution: EMAIL MAIL FAX	ិ គ្លី 2 day [P2-50%]	aboratory opening fees may apply)]	1			
Street: 1549 Clack D1.	Email 1 or Fax SS Thomas @ VSb. bc. ca	Date and Time Required for all E&P TATs:	dd-mmm-yy hh:mm]			
City/Province: Vancouver B.C.	Email 2 RLemay @ Vsb.bc.ca	For tests that can not be performed according to the service	level selected, you will be contacted.	J			
Postal Code:	Email 3		Analysis Request	_			
Invoice To Same as Report To YES NO	Invoice Distribution		(P) or Filtered and Preserved (F/P) below	ı			
Copy of Invoice with Report YES NO	Select Invoice Distribution: EMAIL MAIL FAX	ONTAINERS		ı			
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Project Information	Oil and Gas Réquired Fields (client use)			ı			
ALS Account # / Quote #:	AFE/Cost Center: PO#	61		1			
Job#: Lord Beaconstield	Major/Minor Code: Routing Code;	ŭ		ı			
PO / AFE:	Requisitioner:	6 6 1 1 1 1 1 1 1 1 1		ļ			
LSD:	Location;			ı			
ALS Lab Work Order # (lab use only):	ALS Contact: Sampler: Robin Lenay	BB (S)	SAMPLES ON HOLE SUSPECTED HAZARD (see Special Instructions)	ı			
The second secon			AM PECTEL	ı			
	Date Time Sample Type			ı			
(This description will appear on the report)		~	U) . 5.	4			
Rm, 002 df	6-09-19 8:20 water			┨			
Rm 007 df	6-09-19 8:05 vater			4			
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Rn. 101 df	6-09-19 8:38 water			1			
Rm. 102 df	6-09-19 8:34 water			1			
Rn. 106 dt	6-09-19 8:30 wates			1			
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Rn 202 dt	6-09-19 8:42 water	· 		4			
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Special Instructions /	Specify Criteria to add on report by clicking on the drop-down list below	SAMPLE COND	ITION AS RECEIVED (lab use only)	1			
Drinking Water (DW) Samples¹ (client use)			servations Yes No				
Are samples taken from a Regulated DW System?	coeating added	Ice Packs Tce Cubes Custody	v seaf intact Yes 🔲 No 🔲	١			
	irvatives added	Cooling Initiated		╛			
Are samples for human consumption/ use?		INITIAL COOLER TEMPERATURES °C	FINAL COOLER TEMPERATURES °C	┨			
YES NO	THE PEOPLE OF TH		10	4			
SHIPMENT RELEASE (client use) Released by: Date: Time:	INITIAL SHIPMENT RECEPTION (lab use only) Received by: Date:		BHIPMENT RECEPTION (lab use only) Date: Time:	$\frac{1}{2}$			
, Jane, Inne,	300.100.07	Time: Received by:	9/6 4/199	١			
REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION	WHITE - LABORATORY COPY YELLOW	- CLIENT COPY	JUNE 2018 FRDN	Ţ			