

Report Transmission Cover Page

Bill To: Premium Springs 111 - 18677 52 Avenue Surrey, BC, Canada V3S 8E5	Project ID: Project Name: Project Location: LSD: P.O.: 1393856 Proj. Acct. code:	Lot ID: 1393856 Control Number: Date Received: Nov 26, 2019 Date Reported: Nov 29, 2019 Report Number: 2469616
Attn: David Vanandel Sampled By: Company:		

Contact	Company	Address
David Vanandel	Premium Springs	111 - 18677 52 Avenue Surrey, BC V3S 8E5 Phone: (604) 881-2211 Fax: (604) 575-2167 Email: info@premiumsprings.com

Delivery	Format	Deliverables
Email - Multiple Reports By Agreement	Legacy Crosstab in CSV	Test Report
Email - Multiple Reports By Agreement	PDF	COA
Email - Multiple Reports By Agreement	PDF	COR
Email - Multiple Reports By Agreement	PDF	Test Report
Email - Single Report	PDF	Invoice

Notes To Clients:

- Nov 26, 2019 - Upon receipt, sample 1393856-1 had exceeded recommended holding time and temperature for bacteria analysis.
- Nov 26, 2019 - Sampling time not provided.
- Nov 26, 2019 - Sample 1393856 was received in a Client container which does not meet the sample requirements for bacteria analysis as specified by the reference method..

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Analytical Report

Bill To: Premium Springs 111 - 18677 52 Avenue Surrey, BC, Canada V3S 8E5	Project ID: Project Name: Project Location: LSD: P.O.: 1393856 Proj. Acct. code:	Lot ID: 1393856 Control Number: Date Received: Nov 26, 2019 Date Reported: Nov 29, 2019 Report Number: 2469616
Attn: David Vanandel Sampled By: Company:		

Reference Number	1393856-1
Sample Date	
Sample Time	
Sample Location	
Sample Description	Spring-(Green Lid) / 16.8°C
Sample Matrix	Drinking Water


Analyte	Units	Result	Nominal Detection Limit	Guideline Limit	Guideline Comments	
Metals Extractable						
Aluminum	Extractable mg/L	0.001	0.001	0.1	Below OG	
Antimony	Extractable mg/L	<0.00002	0.00002	0.006	Below MAC	
Arsenic	Extractable mg/L	0.0025	0.0001	0.010	Below MAC	
Barium	Extractable mg/L	0.0047	0.0001	1	Below MAC	
Boron	Extractable mg/L	0.015	0.002	5	Below MAC	
Cadmium	Extractable mg/L	<0.00001	0.00001	0.005	Below MAC	
Chromium	Extractable mg/L	<0.00005	0.00005	0.05	Below MAC	
Copper	Extractable mg/L	<0.0005	0.0005	1 AO; 2 MAC	Below AO	
Lead	Extractable mg/L	0.00001	0.00001	0.005	Below MAC	
Selenium	Extractable mg/L	<0.0002	0.0002	0.05	Below MAC	
Strontium	Extractable mg/L	0.0391	0.0001	7.0	Below MAC	
Uranium	Extractable mg/L	0.00002	0.00001	0.02	Below MAC	
Vanadium	Extractable mg/L	<0.00005	0.00005			
Zinc	Extractable mg/L	0.0017	0.0005	5.0	Below AO	
Microbiological Analysis						
Total Coliforms	Enzyme Substrate Test	MPN/100 mL	<1.0	1.0	0 per 100 mL	Below MAC
Escherichia coli	Enzyme Substrate Test	MPN/100 mL	<1.0	1.0	0 per 100 mL	Below MAC
Heterotrophic Count - Aerobic	SimPlate	MPN/mL	<2.0	2		
Physical and Aggregate Properties						
Colour	True	Colour units	<5	5		
Turbidity		NTU	0.31	0.1	0.1	Above AO
Routine Water						
pH - Holding Time			Exceeded			
pH	at 25 °C		7.70	0.01	7.0-10.5	Within Range
Electrical Conductivity		µS/cm at 25 °C	118	1		
Calcium	Extractable	mg/L	13	0.01		
Iron	Extractable	mg/L	0.007	0.004	0.3	Below AO
Magnesium	Extractable	mg/L	2.5	0.02		
Manganese	Extractable	mg/L	<0.001	0.001	0.02 AO; 0.12 MAC	Below AO
Potassium	Extractable	mg/L	1.1	0.04		
Silicon	Extractable	mg/L	6.4	0.005		
Sodium	Extractable	mg/L	3.1	0.1	200	Below AO
T-Alkalinity	as CaCO3	mg/L	46	5		
Chloride	Dissolved	mg/L	1.43	0.05	250	Below AO
Fluoride	Dissolved	mg/L	<0.01	0.01	1.5	Below MAC
Nitrate - N	Dissolved	mg/L	0.09	0.01	10	Below MAC

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Attn: David Vanandel Sampled By: Company:		

Reference Number 1393856-1
Sample Date
Sample Time
Sample Location
Sample Description Spring-(Green Lid) / 16.8°C
Sample Matrix Drinking Water

Analyte	Units	Result	Nominal Detection Limit	Guideline Limit	Guideline Comments
Routine Water - Continued					
Nitrite - N	Dissolved mg/L	<0.01	0.01	1	Below MAC
Sulfate (SO4)	Dissolved mg/L	8.7	0.1	500	Below AO
Hardness	as CaCO3 (extractable) mg/L	43	1		
Total Dissolved Solids	Extractable mg/L	75	1		

Approved by: 
 Matthew Norman, BSc, PChem
 Operations Chemist

Methodology and Notes

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Method of Analysis

Method Name	Reference	Method	Date Analysis Started	Location
Alk, pH, EC, Turb in water (BC)	APHA	* Alkalinity - Titration Method, 2320 B	Nov 27, 2019	Element Vancouver
Alk, pH, EC, Turb in water (BC)	APHA	* Conductivity, 2510 B	Nov 27, 2019	Element Vancouver
Alk, pH, EC, Turb in water (BC)	APHA	* pH - Electrometric Method, 4500-H+ B	Nov 27, 2019	Element Vancouver
Anions by IEC in water (VAN)	APHA	* Ion Chromatography with Chemical Suppression of Eluent Cond., 4110 B	Nov 27, 2019	Element Vancouver
Heterotrophic (Standard) Plate Count (Aerobic SP) - VAN	APHA	Enzyme Substrate Method, 9215 E	Nov 26, 2019	Element Vancouver
Metals SemiTrace (Extractable) in water (VAN)	US EPA	* Metals & Trace Elements by ICP-AES, 6010C	Nov 27, 2019	Element Vancouver
Total and E-Coli - Collert - DW (VAN)	APHA	Enzyme Substrate Test, APHA 9223 B	Nov 26, 2019	Element Vancouver
Trace Metals (extractable) in Water (VAN)	US EPA	* Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	Nov 27, 2019	Element Vancouver
True Color in water (VAN)	APHA	* Spectrophotometric - Single Wavelength Method, 2120 C	Nov 26, 2019	Element Vancouver
Turbidity - Water (VAN)	APHA	* Turbidity - Nephelometric Method, 2130 B	Nov 27, 2019	Element Vancouver

* Reference Method Modified

References

APHA	Standard Methods for the Examination of Water and Wastewater
US EPA	US Environmental Protection Agency Test Methods

Guidelines

Guideline Description	Health Canada GCDWQ
Guideline Source	Guidelines for Canadian Drinking Water Quality, Health Canada, June 2019
Guideline Comments	MAC = Maximum Acceptable Concentration AO = Aesthetic Objective OG = Operational Guideline for Water Treatment Plants (does not apply to private groundwater wells). Refer to Health Canada for complete guidelines at www.hc-sc.gc.ca

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The comparison of test results to guideline limits is provided for information purposes only. This is not to be taken as a statement of conformance / nonconformance to any guideline, regulation or limit. The data user is responsible for all conclusions drawn with respect to the data and is advised to consult official regulatory references when evaluating compliance.

Please direct any inquiries regarding this report to our Client Services group.
Results relate only to samples as submitted.

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