



Your P.O. #: COP-24-55
Your Project #: 2024-3570610-00
Site Location: ECOLE BELLE-BAIE

Attention: Mathieu Haley

CSAP Conseil scolaire acadien provincial
3435 Hwy 206
Petit de Grat, NS
Canada B0E 2L0

Report Date: 2024/11/29
Report #: R8425490
Version: 2 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C4AK414

Received: 2024/11/25, 16:55

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Bureau Veritas Bedford, 200 Bluewater Rd Suite 105, Bedford, NS, B4B 1G9

(2) Analysis performed according to Lead in Drinking Water protocol. This protocol was used for any other parameters reported in this test.

(3) The APHA Standard Method requires pH to be analyzed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the APHA Standard Method holding time.

(4) TOC / DOC present in the sample should be considered as non-purgeable TOC / DOC.

Encryption Key

Natalie MacAskill
Key Account Specialist
29 Nov 2024 16:24:39

Please direct all questions regarding this Certificate of Analysis to:

Natalie MacAskill, Key Account Specialist
Email: Natalie.MacAskill@bureauveritas.com
Phone# (902)567-1255 Ext:17

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Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Kathy Martin, Laboratory Manager responsible for Nova Scotia Environmental laboratory operations.



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SYD CHEMICAL ANALYSIS NSDEL (WATER)

Bureau Veritas ID					AJVT81		AJVV27		
Sampling Date					2024/11/25 13:10		2024/11/25 13:19		
Registration #					2024-3570610-00		2024-3570610-00		
	UNITS	MAC	AO	OG	RAW-001 (LOC 1)	RDL	TREATED-003 (LOC 2)	RDL	QC Batch

Calculated Parameters									
Hardness (CaCO3)	mg/L	-	-	-	17	1.0	ND	1.0	9787203
Nitrate (N)	mg/L	10	-	-	ND	0.050	ND	0.050	9787060
Inorganics									
Total Alkalinity (Total as CaCO3)	mg/L	-	-	-	27	2.0	53	2.0	9790903
Dissolved Chloride (Cl-)	mg/L	-	250	-	12	1.0	14	1.0	9790813
Colour	TCU	-	15	-	120	25	8.2	5.0	9791180
Total Dissolved Solids	mg/L	-	500	-	46	10	84	10	9793688
Dissolved Fluoride (F-)	mg/L	1.5	-	-	0.65	0.10	0.76	0.10	9790906
Nitrate + Nitrite (N)	mg/L	-	-	-	ND	0.050	ND	0.050	9793548
Nitrite (N)	mg/L	1	-	-	ND	0.010	ND	0.010	9790818
Nitrogen (Ammonia Nitrogen)	mg/L	-	-	-	ND	0.050	ND	0.050	9791639
Total Organic Carbon (C)	mg/L	-	-	-	ND	0.50	ND	0.50	9794042
pH	pH	-	-	7.0:10.5	7.05		9.42		9790897

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 MAC: Guideline - Summary of MAC Guidelines for Canadian Drinking Water Quality (SGCDWQ), Health Canada, September 2022
 MAC= Maximum Acceptable Concentration (MAC) - established for substances that are known or suspected to cause adverse effects on health.
 Malathion updated January 24, 2023
 Removed PFOS and 1,1 Dichloroethylene MAC August 28, 2024
 AO,OG: Guideline - Summary of AO and OG Guidelines for Canadian Drinking Water Quality (SGCDWQ), Health Canada, June 2022
 AO= Aesthetic Objectives (AO) - apply to characteristics of drinking water that can affect its acceptance by consumers or interfere with practices for supplying good quality water.
 OG-Operational Guidance Value
 SL-Screening level
 Note 1 Turbidity guideline value of 0.3 NTU based on conventional and direct filtration. For slow sand or diatomaceous earth filtration 1.0 NTU and for membrane filtration 0.1 NTU.
 Note 2 Aluminum guideline value of 0.1 mg/L is for treatment plants using aluminum-based coagulants.
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Dissolved Sulphate (SO4)	mg/L	-	500	-	2.3	2.0	4.6	2.0	9790814
Turbidity	NTU	-	0.3	-	150	1.0	0.51	0.10	9793776
Conductivity	uS/cm	-	-	-	94	1.0	170	1.0	9790900
Metals									
Total Aluminum (Al)	ug/L	2900	-	100	ND	5.0	36	5.0	9793909
Total Antimony (Sb)	ug/L	6	-	-	ND	1.0	ND	1.0	9793909
Total Arsenic (As)	ug/L	10	-	-	ND	1.0	ND	1.0	9793909
Total Barium (Ba)	ug/L	2000	-	-	1.8	1.0	ND	1.0	9793909
Total Boron (B)	ug/L	5000	-	-	64	50	73	50	9793909
Total Cadmium (Cd)	ug/L	7	-	-	ND	0.010	ND	0.010	9793909
Total Calcium (Ca)	ug/L	-	-	-	4100	100	ND	100	9793909
Total Chromium (Cr)	ug/L	50	-	-	ND	1.0	1.4	1.0	9793909
Total Copper (Cu)	ug/L	2000	1000	-	4.5	0.50	6.6	0.50	9793909
Total Iron (Fe)	ug/L	-	300	-	9300	50	ND	50	9793909

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Total Lead (Pb)	ug/L	5	-	-	ND	0.50	ND	0.50	9793909
Total Magnesium (Mg)	ug/L	-	-	-	1700	100	ND	100	9793909
Total Manganese (Mn)	ug/L	120	20	-	310 (1)	2.0	ND	2.0	9793909
Total Potassium (K)	ug/L	-	-	-	940	100	120	100	9793909
Total Selenium (Se)	ug/L	50	-	-	ND	0.50	ND	0.50	9793909
Total Sodium (Na)	ug/L	-	200000	-	12000	100	41000	100	9793909
Total Strontium (Sr)	ug/L	7000	-	-	33	2.0	ND	2.0	9793909
Total Uranium (U)	ug/L	20	-	-	0.17	0.10	ND	0.10	9793909
Total Zinc (Zn)	ug/L	-	5000	-	7.9	5.0	5.5	5.0	9793909

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 (1) EXCEEDANCE NOTED - NO ALERT REQUIRED