

C.O.C.: ---

REPORT No. B23-02319

Report To:

City of Iqaluit

PO Box 460,

Iqaluit NU X0A 0H0

Attention: Emmanuel Kayode

Caduceon Environmental Laboratories

2378 Holly Lane

Ottawa Ontario K1V 7P1

Tel: 613-526-0123

Fax: 613-526-1244

DATE RECEIVED: 03-Mar-23

JOB/PROJECT NO.: Test A (WTP)

DATE REPORTED: 15-Mar-23

P.O. NUMBER: 460

SAMPLE MATRIX: Drinking Water

WATERWORKS NO.

			Client I.D.	WTP - Raw	WTP - Raw - Total Metal	WTP - Drinking	WTP - Drinking - Total Metal
			Sample I.D.	B23-02319-1	B23-02319-2	B23-02319-3	B23-02319-4
			Date Collected	01-Mar-23	03-Mar-23	03-Mar-23	03-Mar-23
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
Hardness (as CaCO ₃)	mg/L	1	SM 3120	09-Mar-23/O	23		
Hardness (as CaCO ₃)	mg/L	1	SM 3120	08-Mar-23/O		23	22
Alkalinity(CaCO ₃) to pH4.5	mg/L	5	SM 2320B	06-Mar-23/O	22		17
Bicarbonate(as CaCO ₃)	mg/L	5	SM 2320B	06-Mar-23/O	22		17
Carbonate (as CaCO ₃)	mg/L	5	SM 2320B	06-Mar-23/O	< 5		< 5
Hydroxide	mg/L	5	EPA 310.2	06-Mar-23/O	< 5		< 5
Acidity (as CaCO ₃)	mg/L	5	Subcontract	07-Mar-23	6		< 5
pH @25°C	pH Units		SM 4500H	06-Mar-23/O	7.06		6.92
Conductivity @25°C	µmho/cm	1	SM 2510B	06-Mar-23/O	54		55
TDS(ion sum calc.)	mg/L	1	Calc.	10-Mar-23/O	28		27
Total Suspended Solids	mg/L	3	SM2540D	08-Mar-23/K	< 3		< 3
Turbidity	NTU	0.1	SM 2130	06-Mar-23/O	0.4		0.3
REDOX potential	mV		In-House	08-Mar-23/R	196		296
Chloride	mg/L	0.5	SM4110C	06-Mar-23/O	1.5		3.3
Sulphate	mg/L	1	SM4110C	06-Mar-23/O	3		4
Aluminum	mg/L	0.01	SM 3120	13-Mar-23/O	< 0.01		< 0.01
Aluminum	mg/L	0.01	SM 3120	08-Mar-23/O		< 0.01	< 0.01
Antimony	mg/L	0.0001	EPA 200.8	06-Mar-23/O	0.0001		< 0.0001
Antimony	mg/L	0.0001	EPA 200.8	10-Mar-23/O		< 0.0001	0.0002
Arsenic	mg/L	0.0001	EPA 200.8	06-Mar-23/O	< 0.0001		< 0.0001
Arsenic	mg/L	0.0001	EPA 200.8	10-Mar-23/O		< 0.0001	< 0.0001
Barium	mg/L	0.001	SM 3120	09-Mar-23/O	0.002		0.002
Barium	mg/L	0.001	SM 3120	08-Mar-23/O		0.002	0.002
Beryllium	mg/L	0.002	SM 3120	13-Mar-23/O	< 0.002		< 0.002
Beryllium	mg/L	0.002	SM 3120	08-Mar-23/O		< 0.002	< 0.002
Cadmium	mg/L	0.000010	EPA 200.8	06-Mar-23/O	< 0.000010		< 0.000010

M. Dubien

R.L. = Reporting Limit

Test methods may be modified from specified reference method unless indicated by an *

Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,R-Richmond Hill,B-Barrie

Michelle Dubien

Lab Manager

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			Sample I.D.	B23-02319-1	B23-02319-2	B23-02319-3	B23-02319-4
			Date Collected	01-Mar-23	03-Mar-23	03-Mar-23	03-Mar-23
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
Cadmium	mg/L	0.000015	EPA 200.8	10-Mar-23/O	< 0.000015		< 0.000015
Chromium	mg/L	0.002	SM 3120	13-Mar-23/O	< 0.002	< 0.002	
Chromium	mg/L	0.002	SM 3120	08-Mar-23/O		0.005	< 0.002
Cobalt	mg/L	0.005	SM 3120	09-Mar-23/O	< 0.005	< 0.005	
Cobalt	mg/L	0.005	SM 3120	08-Mar-23/O		< 0.005	< 0.005
Copper	mg/L	0.002	SM 3120	09-Mar-23/O	< 0.002	0.254	
Copper	mg/L	0.002	SM 3120	08-Mar-23/O		0.004	0.237
Iron	mg/L	0.005	SM 3120	13-Mar-23/O	0.009	0.013	
Iron	mg/L	0.005	SM 3120	08-Mar-23/O		0.038	0.018
Lead	mg/L	0.00002	EPA 200.8	06-Mar-23/O	< 0.00002	0.00041	
Lead	mg/L	0.00002	EPA 200.8	10-Mar-23/O		< 0.00002	0.00044
Lithium	mg/L	0.01	SM 3120	09-Mar-23/O	0.03	< 0.01	
Lithium	mg/L	0.01	SM 3120	08-Mar-23/O		< 0.01	0.02
Manganese	mg/L	0.001	SM 3120	09-Mar-23/O	0.003	0.004	
Manganese	mg/L	0.001	SM 3120	08-Mar-23/O		0.004	0.004
Mercury	mg/L	0.00002	SM 3112 B	07-Mar-23/O	< 0.00002	< 0.00002	< 0.00002
Molybdenum	mg/L	0.01	SM 3120	13-Mar-23/O	< 0.01	< 0.01	
Molybdenum	mg/L	0.01	SM 3120	08-Mar-23/O		< 0.01	< 0.01
Nickel	mg/L	0.01	SM 3120	09-Mar-23/O	< 0.01	< 0.01	
Nickel	mg/L	0.01	SM 3120	08-Mar-23/O		< 0.01	< 0.01
Selenium	mg/L	0.001	EPA 200.8	06-Mar-23/O	< 0.001	< 0.001	
Selenium	mg/L	0.001	EPA 200.8	10-Mar-23/O		< 0.001	< 0.001
Silver	mg/L	0.0001	EPA 200.8	06-Mar-23/O	< 0.0001	< 0.0001	
Silver	mg/L	0.0001	EPA 200.8	10-Mar-23/O		< 0.0001	< 0.0001
Strontium	mg/L	0.001	SM 3120	09-Mar-23/O	0.017	0.017	
Strontium	mg/L	0.001	SM 3120	08-Mar-23/O		0.017	0.016

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			Sample I.D.	B23-02319-1	B23-02319-2	B23-02319-3	B23-02319-4
			Date Collected	01-Mar-23	03-Mar-23	03-Mar-23	03-Mar-23
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
Thallium	mg/L	0.00005	EPA 200.8	06-Mar-23/O	< 0.00005		< 0.00005
Thallium	mg/L	0.00005	EPA 200.8	10-Mar-23/O		< 0.00005	< 0.00005
Tin	mg/L	0.05	SM 3120	13-Mar-23/O	< 0.05		< 0.05
Tin	mg/L	0.05	SM 3120	08-Mar-23/O		< 0.05	< 0.05
Titanium	mg/L	0.005	SM 3120	13-Mar-23/O	< 0.005		< 0.005
Titanium	mg/L	0.005	SM 3120	08-Mar-23/O		< 0.005	< 0.005
Uranium	mg/L	0.00005	EPA 200.8	06-Mar-23/O	< 0.00005		< 0.00005
Uranium	mg/L	0.00005	EPA 200.8	10-Mar-23/O		< 0.00005	< 0.00005
Vanadium	mg/L	0.005	SM 3120	09-Mar-23/O	< 0.005		< 0.005
Vanadium	mg/L	0.005	SM 3120	08-Mar-23/O		< 0.005	< 0.005
Zinc	mg/L	0.005	SM 3120	13-Mar-23/O	< 0.005		< 0.005
Zinc	mg/L	0.005	SM 3120	08-Mar-23/O		< 0.005	0.005
Total Organic Carbon	mg/L	0.2	EPA 415.2	06-Mar-23/O	2.0		2.2
TIC	mg/L	0.5	EPA 415.1	06-Mar-23/O	6.4		5.3
Fecal Coliform	cfu/100mL	1	MOE E3371	03-Mar-23/O	0		0
Anion Sum	meq/L		Calc.	10-Mar-23/O	0.550		0.506
Cation Sum	meq/L		Calc.	10-Mar-23/O	0.512		0.540
% Difference	%		Calc.	10-Mar-23/O	3.61		3.32
Ion Ratio	AS/CS		Calc.	10-Mar-23/O	1.07		0.936
Sodium Adsorption Ratio	-		Calc.	10-Mar-23/O	0.0859		0.0813
Conductivity (calc.)	µmho/cm		Calc.	10-Mar-23/O	55		57
EC(calc.)/EC(actual)	-		Calc.	10-Mar-23/O	1.03		1.02
TDS(calc.)/EC(actual)	-		Calc.	10-Mar-23/O	0.515		0.490
Langelier Index(25°C)	S.I.		Calc.	10-Mar-23/O	-2.31		-2.52

1 Subcontracted to Testmark Labs

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