

C.O.C.: G105095

REPORT No. B23-01982

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: 15-Feb-23

JOB/PROJECT NO.: Test A (WTP)

DATE REPORTED: 27-Feb-23

P.O. NUMBER: 460

SAMPLE MATRIX: Drinking Water

WATERWORKS NO.

			Client I.D.	Test A- Raw WTP	Test A- Raw WTP (Total)	Test A- Potable WTP	Test A- Potable (Total)
			Sample I.D.	B23-01982-1	B23-01982-2	B23-01982-3	B23-01982-4
			Date Collected	14-Feb-23	14-Feb-23	14-Feb-23	14-Feb-23
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
Hardness (as CaCO ₃)	mg/L	1	SM 3120	21-Feb-23/O	23	24	
Hardness (as CaCO ₃)	mg/L	1	SM 3120	17-Feb-23/O		23	23
Alkalinity(CaCO ₃) to pH4.5	mg/L	5	SM 2320B	16-Feb-23/O	18	16	
Bicarbonate(as CaCO ₃)	mg/L	5	SM 2320B	16-Feb-23/O	18	16	
Carbonate (as CaCO ₃)	mg/L	5	SM 2320B	16-Feb-23/O	< 5	< 5	
Hydroxide	mg/L	5	EPA 310.2	16-Feb-23/O	< 5	< 5	
Acidity (as CaCO ₃)	mg/L	5	Subcontract	20-Feb-23	< 5 ¹	9	
pH @25°C	pH Units		SM 4500H	16-Feb-23/O	7.11	7.08	
Conductivity @25°C	µmho/cm	1	SM 2510B	16-Feb-23/O	51	52	
TDS(ion sum calc.)	mg/L	1	Calc.	16-Feb-23/O	25	25	
Total Suspended Solids	mg/L	3	SM2540D	21-Feb-23/K	< 3	< 3	
Turbidity	NTU	0.1	SM 2130	16-Feb-23/O	0.3	0.5	
REDOX potential	mV		In-House	24-Feb-23/R	244	670	
Chloride	mg/L	0.5	SM4110C	15-Feb-23/O	1.2	2.8	
Sulphate	mg/L	1	SM4110C	15-Feb-23/O	3	3	
Aluminum	mg/L	0.01	SM 3120	21-Feb-23/O	< 0.01	0.01	
Aluminum	mg/L	0.01	SM 3120	17-Feb-23/O		< 0.01	< 0.01
Antimony	mg/L	0.0001	EPA 200.8	22-Feb-23/O	< 0.0001	< 0.0001	
Antimony	mg/L	0.0001	EPA 200.8	21-Feb-23/O		0.0004	0.0003
Arsenic	mg/L	0.0001	EPA 200.8	22-Feb-23/O	< 0.0001	< 0.0001	
Arsenic	mg/L	0.0001	EPA 200.8	21-Feb-23/O		< 0.0001	< 0.0001
Barium	mg/L	0.001	SM 3120	21-Feb-23/O	0.002	0.002	
Barium	mg/L	0.001	SM 3120	17-Feb-23/O		0.002	0.002
Beryllium	mg/L	0.002	SM 3120	21-Feb-23/O	< 0.002	< 0.002	
Beryllium	mg/L	0.002	SM 3120	17-Feb-23/O		< 0.002	< 0.002
Cadmium	mg/L	0.000010	EPA 200.8	22-Feb-23/O	< 0.000010	< 0.000010	



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

Tahir Yapici Ph.D
Lab Manager - Ottawa District

The analytical results reported herein refer to the samples as received. Reproduction of this analytical report in full or in part is prohibited without prior consent from

C.O.C.: G105095

REPORT No. B23-01982

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: 15-Feb-23

JOB/PROJECT NO.: Test A (WTP)

DATE REPORTED: 27-Feb-23

P.O. NUMBER: 460

SAMPLE MATRIX: Drinking Water

WATERWORKS NO.

			Client I.D.	Test A- Raw WTP	Test A- Raw WTP (Total)	Test A- Potable WTP	Test A- Potable (Total)
			Sample I.D.	B23-01982-1	B23-01982-2	B23-01982-3	B23-01982-4
			Date Collected	14-Feb-23	14-Feb-23	14-Feb-23	14-Feb-23
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
Cadmium	mg/L	0.000015	EPA 200.8	21-Feb-23/O	< 0.000015		< 0.000015
Chromium	mg/L	0.002	SM 3120	21-Feb-23/O	< 0.002	< 0.002	
Chromium	mg/L	0.002	SM 3120	17-Feb-23/O	< 0.002		< 0.002
Cobalt	mg/L	0.005	SM 3120	21-Feb-23/O	< 0.005	< 0.005	
Cobalt	mg/L	0.005	SM 3120	17-Feb-23/O	< 0.005		< 0.005
Copper	mg/L	0.002	SM 3120	21-Feb-23/O	0.002	0.133	
Copper	mg/L	0.002	SM 3120	17-Feb-23/O	< 0.002		0.126
Iron	mg/L	0.005	SM 3120	21-Feb-23/O	0.011	0.013	
Iron	mg/L	0.005	SM 3120	17-Feb-23/O		0.018	0.021
Lead	mg/L	0.00002	EPA 200.8	22-Feb-23/O	0.00012	0.00033	
Lead	mg/L	0.00002	EPA 200.8	21-Feb-23/O		0.00013	0.00052
Lithium	mg/L	0.01	SM 3120	21-Feb-23/O	< 0.01	< 0.01	
Lithium	mg/L	0.01	SM 3120	17-Feb-23/O	< 0.01		< 0.01
Manganese	mg/L	0.001	SM 3120	21-Feb-23/O	0.004	0.004	
Manganese	mg/L	0.001	SM 3120	17-Feb-23/O		0.005	0.004
Mercury	mg/L	0.00002	SM 3112 B	17-Feb-23/O	< 0.00002	< 0.00002	< 0.00002
Molybdenum	mg/L	0.01	SM 3120	21-Feb-23/O	< 0.01	< 0.01	
Molybdenum	mg/L	0.01	SM 3120	17-Feb-23/O		< 0.01	< 0.01
Nickel	mg/L	0.01	SM 3120	21-Feb-23/O	< 0.01	< 0.01	
Nickel	mg/L	0.01	SM 3120	17-Feb-23/O	< 0.01		< 0.01
Selenium	mg/L	0.001	EPA 200.8	22-Feb-23/O	< 0.001	< 0.001	
Selenium	mg/L	0.001	EPA 200.8	21-Feb-23/O		< 0.001	< 0.001
Silver	mg/L	0.0001	EPA 200.8	22-Feb-23/O	< 0.0001	< 0.0001	
Silver	mg/L	0.0001	EPA 200.8	21-Feb-23/O		< 0.0001	< 0.0001
Strontium	mg/L	0.001	SM 3120	21-Feb-23/O	0.015	0.016	
Strontium	mg/L	0.001	SM 3120	17-Feb-23/O		0.015	0.015



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

Tahir Yapici Ph.D
Lab Manager - Ottawa District

The analytical results reported herein refer to the samples as received. Reproduction of this analytical report in full or in part is prohibited without prior consent from

C.O.C.: G105095

REPORT No. B23-01982

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: 15-Feb-23

JOB/PROJECT NO.: Test A (WTP)

DATE REPORTED: 27-Feb-23

P.O. NUMBER: 460

SAMPLE MATRIX: Drinking Water

WATERWORKS NO.

			Client I.D.	Test A- Raw WTP	Test A- Raw WTP (Total)	Test A- Potable WTP	Test A- Potable (Total)
			Sample I.D.	B23-01982-1	B23-01982-2	B23-01982-3	B23-01982-4
			Date Collected	14-Feb-23	14-Feb-23	14-Feb-23	14-Feb-23
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
Thallium	mg/L	0.00005	EPA 200.8	22-Feb-23/O	< 0.00005		< 0.00005
Thallium	mg/L	0.00005	EPA 200.8	21-Feb-23/O		< 0.00005	< 0.00005
Tin	mg/L	0.05	SM 3120	21-Feb-23/O	< 0.05		< 0.05
Tin	mg/L	0.05	SM 3120	17-Feb-23/O		< 0.05	< 0.05
Titanium	mg/L	0.005	SM 3120	21-Feb-23/O	< 0.005		< 0.005
Titanium	mg/L	0.005	SM 3120	17-Feb-23/O		< 0.005	< 0.005
Uranium	mg/L	0.00005	EPA 200.8	22-Feb-23/O	< 0.00005		< 0.00005
Uranium	mg/L	0.00005	EPA 200.8	21-Feb-23/O		< 0.00005	< 0.00005
Vanadium	mg/L	0.005	SM 3120	21-Feb-23/O	< 0.005		< 0.005
Vanadium	mg/L	0.005	SM 3120	17-Feb-23/O		< 0.005	< 0.005
Zinc	mg/L	0.005	SM 3120	21-Feb-23/O	< 0.005		< 0.005
Zinc	mg/L	0.005	SM 3120	17-Feb-23/O		0.007	0.012
Total Organic Carbon	mg/L	0.2	EPA 415.2	16-Feb-23/O	1.8		1.9
TIC	mg/L	0.5	EPA 415.1	16-Feb-23/O	5.0		4.5
Fecal Coliform	cfu/100mL	1	MOE E3371	15-Feb-23/O	0		0
Anion Sum	meq/L		Calc.	16-Feb-23/O	0.465		0.468
Cation Sum	meq/L		Calc.	16-Feb-23/O	0.508		0.521
% Difference	%		Calc.	16-Feb-23/O	4.46		5.43
Ion Ratio	AS/CS		Calc.	16-Feb-23/O	0.915		0.897
Sodium Adsorption Ratio	-		Calc.	16-Feb-23/O	0.0785		0.0778
Conductivity (calc.)	µmho/cm		Calc.	16-Feb-23/O	51		53
EC(calc.)/EC(actual)	-		Calc.	16-Feb-23/O	1.01		1.02
TDS(calc.)/EC(actual)	-		Calc.	16-Feb-23/O	0.491		0.485
Langelier Index(25°C)	S.I.		Calc.	16-Feb-23/O	-2.09		-2.15

1 Subcontracted to Testmark Labs



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

Tahir Yapici Ph.D

Lab Manager - Ottawa District

The analytical results reported herein refer to the samples as received. Reproduction of this analytical report in full or in part is prohibited without prior consent from