2025 ANNUAL REPORT

FOR THE MUNICIPALITY OF QIKIQTARJUAQ

YEAR BEING REPORTED: 2025

The following information is compiled pursuant to the requirements of Part B, Item 1 of Water Licence 3BM-QIK2427 issued to the Hamlet of Qikiqtarjuaq.

i) - iii) tabular summaries of all data generated under the "Monitoring Program"; monthly and annual quantities in cubic metres of freshwater obtained from all sources; monthly and annual quantities in cubic metres of each and all wastes discharged;

Attached are quantities of water used as reported in our On Tap Water Delivery System and the estimated discharge of sewage waste.

Month Reported	Quantity of Water Obtained from all sources (m^3)	Quantity of Sewage Waste Discharged (Estimated, m^3)	Hazardous Waste Accepted (m^3)	Non-hazardous Waste Accepted (m^3)
January	2,060.22	Same	0.58	519.80
February	1,980.80	Same	0.58	519.80
March	1,949.42	Same	0.58	519.80
April	2,020.12	Same	0.58	519.80
May	1,979.25	Same	0.58	519.80
June	1,914.26	Same	0.58	519.80
July	1,967.93	Same	0.58	519.80
August	1,821.66	Same	0.58	519.80
September	1,866.75	Same	0.58	519.80
October	2,001.45	Same	0.58	519.80
November	1,840.74	Same	0.58	519.80
December	1,995.96	Same	0.58	519.80
ANNUAL TOTAL	**23,398.56**	**Same**	**6.90**	**6,237.60**

Note: The water consumption volume is considered equal to the discharge volume because there is no meter at the end of the discharge pipe.

iv. A summary of modifications and/or major maintenance work carried out on the Water Supply and Waste Disposal Facilities, including all associated structures and facilities;

A condition assessment of the existing water supply infrastructure was completed by Dillon Consulting during a site investigation in August 2025. Dominion Divers inspected below the water line of the raw water reservoir.

v. A list of unauthorized discharges and summary of follow-up action taken;

During summer months, leachate is normally uncontrolled from the waste site since the waste site is non-engineered. The lower part of the berms of the Sewage lagoon shows signs of leaks during summer. Both types of flows are uncontrolled and run over the 1km long wetland towards the sea. GN-Transportation Infrastructure Nunavut has identified a need for a geotechnical report on the sewage lagoon and will locate funding in 2026.

No spills documented for 2025.

vi. A summary of any abandonment and restoration work completed during the year and an outline of any work anticipated for the next year;

Construction on the Land farm rehabilitation was started yet never completed due to lack of funding. There are no plans to continue construction.

vii. A summary of any studies requested by the Board that relate to waste disposal, water use or reclamation, and a brief description of any future studies planned;

The Government of Nunavut Department of Transportation and Infrastructure issued an RFP for a qualified professional engineering firm to provide a business case aimed at providing a 20-year water infrastructure solution for the Municipality of Qikiqtarjuaq. The work was awarded in 2025 and expected submission of the report is 2026.

viii. Any other details on water use or waste disposal requested by the Board by November 1st of the year being reported; and

There were no other details on water use or waste disposal requested by the Board by November 1st of the year being reported.

ix. Updates or revisions to the approved Operation and Maintenance Plans.

There are no updates or revisions to approved Operation and Maintenance Plans for 2025.

ADDITIONAL INFORMATION THAT THE LICENSEE DEEMS USEFUL:

QIK-18 was not monitored since the Land Farm is not being utilized and discharge not planned.

FOLLOW-UP REGARDING INSPECTION/COMPLIANCE CONCERNS:

The CIRNAC Inspection did not take place in 2025.

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FOR THE MUNICIPALITY OF QIKIQTARJUAQ

List of Appendices:

Appendix A: Qikiqtarjuaq Effluent Quality Limits 2025

Appendix B: Qikiqtarjuaq Laboratory Certificate of Analyses 2025

- **Certificate of Analysis, 08/13/2025, 4 pages.**
- **Certificate of Analysis, 08/13/2025, 3 pages.**

Appendix A:

QIK-6 Effluent Quality Limits

Parameter	Maximum Concentration of any grab sample	QIK-6
		2025-08-13
pH	Between 6 and 9	7.31
Total Suspended Solids	180 mg/L	65 mg/L
BOD_5	120 mg/L	86 mg/L
Oil & Grease	No visible sheen	13 mg/L
Faecal Coliforms	1 x 10^4 CFU/dL	510,000 CFU/100mL

QIK-12 Effluent Quality Limits

Parameter	Maximum Concentration of any grab sample	QIK-12
		2025-08-13
pH	Between 6 and 9	6.40
Total Suspended Solids	45 mg/L	13 mg/L
BOD_5	45 mg/L	<3 mg/L
Oil & Grease	No visible sheen	2.4 mg/L
Faecal Coliforms	1 x 10^4 CFU/dL	<2 CFU/100mL

Appendix B: Qikiqtarjuaq Laboratory Certificate of Analyses 2025

CADUCEON ENVIRONMENTAL LABORATORIES
Client committed. Quality assured. Proudly Canadian.

CERTIFICATE OF ANALYSIS

Final Report

C.O.C.: G 107427 **REPORT No: 25-025026 - Rev. 0**

Report To:
Municipality of Qikiqtarjuaq
P.O. Box 4
Qikiqtarjuaq, NU

CADUCEON Environmental Laboratories
2378 Holly Lane
Ottawa, ON K1V 7P1

Attention: Geela Kooneelusie

DATE RECEIVED: 2025-Aug-19
DATE REPORTED: 2025-Aug-27
SAMPLE MATRIX: Waste Water

CUSTOMER PROJECT:
P.O. NUMBER:

Analyses	Qty	Site Analyzed	Authorized	Date Analyzed	Lab Method	Reference Method
Anions (Liquid)	1	OTTAWA	PCURIEL	2025-Aug-19	A-IC-01	SM 4110B
BOD5 (Liquid)	1	KINGSTON	JWOLFE2	2025-Aug-21	BOD-001	SM 5210B
Cond/pH/Alk Auto (Liquid)	1	OTTAWA	SBOUDREAU	2025-Aug-19	COND-02/PH-02/A LK-02	SM 2510B/4500H/ 2320B
Fecal Coliforms (Liquid)	1	OTTAWA	HALIPDA	2025-Aug-19	FC-001	SM 9222D
ICP/MS Total (Liquid)	1	OTTAWA	GFENTON	2025-Aug-26	D-ICPMS-01	EPA 6020
ICP/OES Total (Liquid)	1	OTTAWA	SGORMAN	2025-Aug-20	D-ICP-01	SM 3120B
Mercury (Liquid)	1	OTTAWA	TBENNETT	2025-Aug-20	D-HG-02	SM 3112B
Ammonia (Liquid)	1	KINGSTON	DCASSIDY	2025-Aug-21	NH3-001	SM 4500NH3
PHC F1 (Liquid)	1	RICHMOND_HILL	FLENA	2025-Aug-21	C-VPHW-01	MECP E3421
PHC F2-4 (Liquid)	1	KINGSTON	STHOMPSON	2025-Aug-23	PHC-W-001	MECP E3421
Phenols (Liquid)	1	KINGSTON	EHINCH	2025-Aug-21	PHEN-01	MECP E3179
Total Organic Carbon (TOC)	1	OTTAWA	LMACGREGOR	2025-Aug-19	C-OC-01	EPA 415.2
TP & TKN (Liquid)	1	KINGSTON	YLIEN	2025-Aug-25	TPTKN-001	MECP E3516.2
TSS (Liquid)	1	KINGSTON	MCLOSS	2025-Aug-22	TSS-001	SM 2540D
VOC-Volatiles Full (Water)	1	RICHMOND_HILL	FLENA	2025-Aug-21	C-VOC-02	EPA 8260

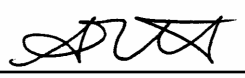
µg/g = micrograms per gram (parts per million) and is equal to mg/Kg
F1 C6-C10 hydrocarbons in µg/g, (F1-btex if requested)
F2 C10-C16 hydrocarbons in µg/g, (F2-napth if requested)
F3 C16-C34 hydrocarbons in µg/g, (F3-pah if requested)
F4 C34-C50 hydrocarbons in µg/g
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
Any deviations from the method are noted and reported for any particular sample.
nC6 and nC10 response factor is within 30% of response factor for toluene:
nC10,nC16 and nC34 response factors within 10% of each other:
C50 response factors within 70% of nC10+nC16+nC34 average:
Linearity is within 15%:
All results expressed on a dry weight basis.
Unless otherwise noted all chromatograms returned to baseline by the retention time of nC50.

R.L. = Reporting Limit
NC = Not Calculated
Test methods may be modified from specified reference method unless indicated by an *

Unless otherwise noted all extraction, analysis, QC requirements and limits for holding time were met.
If analyzed for F4 and F4G they are not to be summed but the greater of the two numbers are to be used in application to the CWS PHC
QC will be made available upon request.

Steve Garrett
Director of Laboratory Services

		Client I.D.	QIK-8
		Sample I.D.	25-025026-1
		Date Collected	2025-08-13
Parameter	**Units**	**R.L.**	-
Fecal Coliform	CFU/100mL	1	4
Alkalinity(CaCO3) to pH4.5	mg/L	5	5
Conductivity @25°C	uS/cm	1	31
pH @25°C	pH units	-	6.46
Chloride	mg/L	0.5	4.7
Nitrate (N)	mg/L	0.05	0.11
Nitrite (N)	mg/L	0.05	<0.05
Sulphate	mg/L	1	1
BOD5	mg/L	3	<3
Total Suspended Solids	mg/L	3	11
Phosphorus (Total)	mg/L	0.01	0.18
Ammonia (N)-Total (NH3+NH4)	mg/L	0.05	0.09
Total Organic Carbon	mg/L	0.8	1.7
Phenolics	mg/L	0.001	<0.001
Hardness (as CaCO3)	mg/L	0.02	4.47
Aluminum (Total)	mg/L	0.01	0.11
Cadmium (Total)	mg/L	0.005	<0.005
Calcium (Total)	mg/L	0.02	0.93
Chromium (Total)	mg/L	0.002	<0.002
Cobalt (Total)	mg/L	0.005	<0.005
Copper (Total)	mg/L	0.002	0.004



Steve Garrett

Director of Laboratory Services

Parameter	Units	R.L.	Client I.D.: QIK-8 Sample I.D.: 25-025026-1 Date Collected: 2025-08-13 -
Iron (Total)	mg/L	0.005	0.100
Lead (Total)	mg/L	0.02	<0.02
Manganese (Total)	mg/L	0.001	0.001
Nickel (Total)	mg/L	0.01	<0.01
Potassium (Total)	mg/L	0.1	0.2
Zinc (Total)	mg/L	0.005	0.005
Arsenic (Total)	mg/L	0.0001	<0.0001
Mercury	mg/L	0.00002	<0.00002

Parameter	Units	R.L.	Client I.D.: QIK-8 Sample I.D.: 25-025026-1 Date Collected: 2025-08-13 -
Benzene	µg/L	0.5	<0.5
Ethylbenzene	µg/L	0.5	<0.5
Toluene	µg/L	0.5	<0.5
Xylene, m,p-	µg/L	1	<1
Xylene, m,p,o-	µg/L	1.1	<1.1
Xylene, o-	µg/L	0.5	<0.5
PHC F1 (C6-C10)	µg/L	25	<25
PHC F2 (>C10-C16)	µg/L	50	<50
PHC F3 (>C16-C34)	µg/L	400	<400
PHC F4 (>C34-C50)	µg/L	400	<400

Steve Garrett

Director of Laboratory Services

Bacteria samples passed holding time

Steve Garrett

Director of Laboratory Services

CADUCEON ENVIRONMENTAL LABORATORIES

Client committed. Quality assured. Proudly Canadian.

CERTIFICATE OF ANALYSIS

Final Report

C.O.C.: G 107430

REPORT No: 25-025045 - Rev. 0

Report To:
Municipality of Qikiqtarjuaq
P.O. Box 4
Qikiqtarjuaq, NU

CADUCEON Environmental Laboratories
2378 Holly Lane
Ottawa, ON K1V 7P1

Attention: Geela Kooneelusie

DATE RECEIVED: 2025-Aug-19
DATE REPORTED: 2025-Aug-27
SAMPLE MATRIX: Waste Water

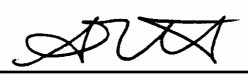
CUSTOMER PROJECT:
P.O. NUMBER:

Analyses	Qty	Site Analyzed	Authorized	Date Analyzed	Lab Method	Reference Method
Anions (Liquid)	2	OTTAWA	PCURIEL	2025-Aug-19	A-IC-01	SM 4110B
BOD5 (Liquid)	2	KINGSTON	JWOLFE2	2025-Aug-21	BOD-001	SM 5210B
Cond/pH/Alk Auto (Liquid)	2	OTTAWA	SBOUDREAU	2025-Aug-19	COND-02/PH-02/ALK-02	SM 2510B/4500H/2320B
Fecal Coliforms (Liquid)	2	OTTAWA	HALIPDA	2025-Aug-19	FC-001	SM 9222D
ICP/MS Total (Liquid)	2	OTTAWA	GFENTON	2025-Aug-26	D-ICPMS-01	EPA 6020
ICP/OES Total (Liquid)	2	OTTAWA	SGORMAN	2025-Aug-20	D-ICP-01	SM 3120B
Mercury (Liquid)	2	OTTAWA	TBENNETT	2025-Aug-20	D-HG-02	SM 3112B
Ammonia (Liquid)	2	KINGSTON	DCASSIDY	2025-Aug-21	NH3-001	SM 4500NH3
Oil & Grease (Liquid)	2	KINGSTON	TMCBRYDE	2025-Aug-22	O&G-001	SM 5520
Phenols (Liquid)	2	KINGSTON	EHINCH	2025-Aug-21	PHEN-01	MECP E3179
Total Organic Carbon (TOC)	2	OTTAWA	LMACGREGOR	2025-Aug-19	C-OC-01	EPA 415.2
TSS (Liquid)	2	KINGSTON	MCLOSS	2025-Aug-21	TSS-001	SM 2540D

R.L. = Reporting Limit
NC = Not Calculated
Test methods may be modified from specified reference method unless indicated by an *

Steve Garrett
Director of Laboratory Services

Parameter	Units	R.L.	Client I.D.	QIK-6	QIK-12
			Sample I.D.	25-025045-1	25-025045-2
			Date Collected	2025-08-13	2025-08-13
				-	-
Fecal Coliform	CFU/100mL	1		510000	<2
Alkalinity(CaCO3) to pH4.5	mg/L	5		173	<5
Conductivity @25°C	uS/cm	1		549	98
pH @25°C	pH units	-		7.31	6.40
Chloride	mg/L	0.5		35.3	11.3
Nitrate (N)	mg/L	0.05		<0.05	1.28
Nitrite (N)	mg/L	0.05		<0.05	<0.05
Sulphate	mg/L	1		<1	14
BOD5	mg/L	3		86	<3
Total Suspended Solids	mg/L	3		65	13
Ammonia (N)-Total (NH3+NH4)	mg/L	0.05		46.6	0.09
Total Organic Carbon	mg/L	0.8		80.6	4.7
Phenolics	mg/L	0.001		0.292	<0.001
Hardness (as CaCO3)	mg/L	0.02		20.5	11.0
Aluminum (Total)	mg/L	0.01		0.26	0.08
Cadmium (Total)	mg/L	0.005		<0.005	<0.005
Calcium (Total)	mg/L	0.02		4.27	2.22
Chromium (Total)	mg/L	0.002		0.002	<0.002
Cobalt (Total)	mg/L	0.005		<0.005	<0.005
Copper (Total)	mg/L	0.002		0.110	0.003
Iron (Total)	mg/L	0.005		2.10	0.019



Steve Garrett

Director of Laboratory Services

		Client I.D.	QIK-6	QIK-12
		Sample I.D.	25-025045-1	25-025045-2
		Date Collected	2025-08-13	2025-08-13
Parameter	**Units**	**R.L.**	-	-
Lead (Total)	mg/L	0.02	<0.02	<0.02
Magnesium (Total)	mg/L	0.02	2.40	1.32
Manganese (Total)	mg/L	0.001	0.066	0.003
Nickel (Total)	mg/L	0.01	<0.01	<0.01
Potassium (Total)	mg/L	0.1	14.5	0.5
Sodium (Total)	mg/L	0.2	34.9	13.5
Zinc (Total)	mg/L	0.005	0.063	<0.005
Arsenic (Total)	mg/L	0.0005	0.0007	<0.0005
Mercury	mg/L	0.00002	<0.00002	<0.00002

		Client I.D.	QIK-6	QIK-12
		Sample I.D.	25-025045-1	25-025045-2
		Date Collected	2025-08-13	2025-08-13
Parameter	**Units**	**R.L.**	-	-
Oil & Grease (Total)	mg/L	1.0	13.0	2.4

Bacteria samples passed holding time

Steve Garrett

Director of Laboratory Services