

**ANNUAL REPORT  
FOR THE MUNICIPALITY OF IGLOOLIK, 2022**

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**YEAR BEING REPORTED: 2022**

The following information is compiled pursuant to the requirements of Part A, Item 1 of Water Licence # 3AM-IGL2131 issued to the Municipality of Igloolik.

- 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.

<b>Month Reported</b>	<b>Quantity of Water Obtained from all sources (L)</b>	<b>Quantity of Sewage Waste Discharged (Estimated)</b>
<b>January</b>	5,532,648.40	Same
<b>February</b>	5,025,768.40	Same
<b>March</b>	5,687,140.20	Same
<b>April</b>	5,099,830.80	Same
<b>May</b>	5,233,581.30	Same
<b>June</b>	4,849,679.80	Same
<b>July</b>	5,089,235.10	Same
<b>August</b>	5,248,369.10	Same
<b>September</b>	5,095,705.00	Same
<b>October</b>	5,415,069.80	Same
<b>November</b>	5,215,279.70	Same
<b>December</b>	5,265,770.50	Same
<b>ANNUAL TOTAL</b>	<b>62,758,078.10</b>	<b>Same</b>

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

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- 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;**

No major modifications were carried out in reporting year.

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

No uncontrolled discharges took place during reporting year.

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

No abandonment and restoration work completed during the reporting period

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- 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;**

Berm safety inspection was completed in Fall of 2022. Inspection identified erosion and leak in cell A. CGS retained an engineering firm to proceed with repair design. The existing Waste Management facility is the concern for segregation of hazardous wastes materials, Storage, shipment to the South. CGS will work with Municipality to improve segregation and shipping practices of hazardous waste.

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

- ix.**

Hamlet is working forward for better management of water and waste facilities in the Community.

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- x. Updates or revisions to the approved Operation and Maintenance Plans.**

No revisions or updates on existing O&M

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- xi. ADDITIONAL INFORMATION THAT THE LICENSEE DEEMS USEFUL:**

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Municipality commenced with waste segregation. Old batteries are being stockpiled in sea cans.

**xi. FOLLOW-UP REGARDING INSPECTION/COMPLIANCE CONCERNS:**

Hamlet is following the GN Engineer's and CIRNAC inspector's advice to operate the water licensed facilities.

Fish Lake is considered as the Hamlet's secondary water source and its water quality is being monitored along with the South Lake water.

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**Appendix A: IGL-4, IGL-5 Effluent Quality Limits**

**Appendix B: Certificate of Analysis**

**Appendix C: Hazardous Materials Spill Database, Igloolik 2022**

**Appendix D: Igloolik 2022 CIRNAC Inspection Report**

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## Appendix A

### **IGLK-3-1 CELL#3 Effluent Quality limits**

<b>Parameter</b>	<b>Maximum Concentration of any Grab Sample</b>	<b>DATE: August 11.2022.</b>
BOD <sub>5</sub>	100 mg/L	8 mg/L
Total Suspended Solids	120 mg/L	24 mg/L
Fecal Coliform	1x10 <sup>6</sup> CFU/100 mL	3000 CFU/100ml
Oil and Grease	No visible sheen	6.4 mg/L
pH	Between 6 and 9	7.84

### **IGLK-3-1 CELL #2 Effluent Quality limits**

<b>Parameter</b>	<b>Maximum Concentration of any Grab Sample</b>	<b>DATE: August 11.2022</b>
BOD <sub>5</sub>	100 mg/L	91 mg/L
Total Suspended Solids	120 mg/L	44 mg/L
Fecal Coliform	1x10 <sup>6</sup> CFU/100 mL	47000 CFU/100ml
Oil and Grease	No visible sheen	2.5 mg/L
pH	Between 6 and 9	7.88

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## **Appendix B**

**C.O.C.: G096752**

**REPORT No. B22-24570**

**Report To:**

**Municipality of Igloolik**

PO Box 30,  
Igloolik NU X0A 0L0 Canada

**Attention:** Gregory Morash

**Caduceon Environmental Laboratories**

2378 Holly Lane  
Ottawa Ontario K1V 7P1  
Tel: 613-526-0123  
Fax: 613-526-1244

DATE RECEIVED: 03-Aug-22

JOB/PROJECT NO.:

DATE REPORTED: 11-Aug-22

P.O. NUMBER:

SAMPLE MATRIX: Waste Water

WATERWORKS NO.

			Client I.D.	IGLK-3-1 Cell #3	IGLK-3-1 Cell #2		
			Sample I.D.	B22-24570-1	B22-24570-2		
			Date Collected	02-Aug-22	02-Aug-22		
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
Hardness (as CaCO <sub>3</sub> )	mg/L	1	SM 3120	08-Aug-22/O	207	168	
Alkalinity(CaCO <sub>3</sub> ) to pH4.5	mg/L	5	SM 2320B	04-Aug-22/O	479	392	
pH @25°C	pH Units		SM 4500H	04-Aug-22/O	7.84	7.88	
Conductivity @25°C	µmho/cm	1	SM 2510B	04-Aug-22/O	1600	1410	
Total Suspended Solids	mg/L	3	SM2540D	08-Aug-22/K	24	44	
Chloride	mg/L	0.5	SM4110C	04-Aug-22/O	180	165	
Nitrite (N)	mg/L	0.1	SM4110C	04-Aug-22/O	< 0.1	< 0.1	
Nitrate (N)	mg/L	0.1	SM4110C	04-Aug-22/O	< 0.1	0.2	
Sulphate	mg/L	1	SM4110C	04-Aug-22/O	12	28	
Calcium	mg/L	0.02	SM 3120	08-Aug-22/O	47.5	37.1	
Potassium	mg/L	0.1	SM 3120	08-Aug-22/O	31.1	28.7	
Aluminum	mg/L	0.01	SM 3120	08-Aug-22/O	0.06	0.06	
Arsenic	mg/L	0.0005	EPA 200.8	08-Aug-22/O	0.0016	0.0009	
Cadmium	mg/L	0.000070	EPA 200.8	08-Aug-22/O	0.000097	< 0.000070	
Chromium	mg/L	0.002	SM 3120	08-Aug-22/O	0.003	0.002	
Cobalt	mg/L	0.005	SM 3120	08-Aug-22/O	< 0.005	< 0.005	
Copper	mg/L	0.002	SM 3120	08-Aug-22/O	0.042	0.043	
Iron	mg/L	0.005	SM 3120	08-Aug-22/O	0.381	0.235	
Lead	mg/L	0.0001	EPA 200.8	08-Aug-22/O	0.0009	0.0006	
Manganese	mg/L	0.001	SM 3120	08-Aug-22/O	0.041	0.031	
Mercury	mg/L	0.00002	SM 3112 B	09-Aug-22/O	0.00002	< 0.00002	
Nickel	mg/L	0.01	SM 3120	08-Aug-22/O	< 0.01	< 0.01	
Zinc	mg/L	0.005	SM 3120	08-Aug-22/O	0.044	0.038	
Ammonia (N)-Total	mg/L	0.01	SM4500- NH <sub>3</sub> -H	05-Aug-22/K	95.4	88.7	
Phenolics	mg/L	0.001	MOEE 3179	09-Aug-22/K	0.996	0.676	
BOD(5 day)	mg/L	3	SM 5210B	05-Aug-22/K	8	91	



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.: G096752**

**REPORT No. B22-24570**

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PO Box 30,  
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			Sample I.D.	B22-24570-1	B22-24570-2		
			Date Collected	02-Aug-22	02-Aug-22		
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
Total Organic Carbon	mg/L	0.2	EPA 415.2	04-Aug-22/O	81.5	48.6	
Oil & Grease-Total	mg/L	1.0	SM 5520	08-Aug-22/K	6.4	2.5	
Fecal Coliform	cfu/100mL	1	MOE E3371	03-Aug-22/O	3000	47000	



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## **Appendix C**

### **Hazardous materials spill database**

**No spills recorded for reporting period.**

## **Appendix D**

**No CIRNAC inspection in 2021.**