

**2025 ANNUAL REPORT  
FOR THE MUNICIPALITY OF SANIRAJAK**

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**YEAR BEING REPORTED: 2025**

The following information is compiled pursuant to the requirements of Part B, Item 1 of Water Licence No. **3BM-HAL2025** issued to the **Municipality of Sanirajak**.

Below are tabular summaries of data gathered under the “Monitoring Program”.

**I. Monthly and annual quantities of freshwater obtained, estimated sewage waste discharged and accepted quantities of hazardous and non-hazardous waste accepted at the Solid Waste Disposal Facility:**

**Table 1:** Summary of water obtained as recorded in the On Tap Water Deliver System, estimated discharge of sewage waste, and accepted hazardous and non-hazardous waste in m<sup>3</sup>.

<b>Month Reported</b>	<b>Quantity of Water Obtained from all sources (m<sup>3</sup>)</b>	<b>Quantity of Sewage Waste Discharged (m<sup>3</sup>)</b>	<b>Hazardous Waste Accepted (m<sup>3</sup>)</b>	<b>Non-Hazardous Waste Accepted (m<sup>3</sup>)</b>
<b>January</b>	3,369.305	Same	1.12	1,014.29
<b>February</b>	3,179.243	Same	1.12	1,014.29
<b>March</b>	3,347.202	Same	1.12	1,014.29
<b>April</b>	3,374.780	Same	1.12	1,014.29
<b>May</b>	3,035.997	Same	1.12	1,014.29
<b>June</b>	3,510.526	Same	1.12	1,014.29
<b>July</b>	3,511.205	Same	1.12	1,014.29
<b>August</b>	3,517.413	Same	1.12	1,014.29
<b>September</b>	3,374.858	Same	1.12	1,014.29
<b>October</b>	3,555.635	Same	1.12	1,014.29
<b>November</b>	3,198.171	Same	1.12	1,014.29
<b>December</b>	3,356.491	Same	1.12	1,014.29
<b>ANNUAL TOTAL</b>	40,330.827	Same	13.46	12,171.46

**Note:** No meter exists to measure the sewage discharge volumes, therefore Sewage discharge volumes are considered equal to the water consumption volumes. No sludge removed from the Sewage Disposal Facility in 2025.

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### **Summary of water obtained from Water Supply Lake**

Water was pumped for 7 days from September 19, 2025, at 1:30pm to September 25, 2025, at 08:15. A flowmeter will be installed on the resupply pump for the next resupply event in 2026.

#### **II. 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 modifications or major maintenance work carried out in 2025.

#### **III. A list of unauthorized discharges and summary of follow-up action taken:**

List of spills reported to the NT-NU Spill Report Line as listed on the Hazardous Materials Spills Database for Sanirajak in 2025 available in **Appendix C**.

The only spill associated with licenced infrastructure was spill 2025446. This spill is associated with an uncontrolled leaking sewage lagoon cell (Cell 1) during thaw in June. Samples and containment of the sewage effluent could not be taken as the effluent path is largely subsurface. Based on topography, the sewage is suspected to flow towards the ocean. A consultant was retained to perform a non-intrusive field investigation into the leaking lagoon issue in September 2025. As the sampling results taken in July 2025, and in previous years, from the monitoring stations were evidently non-representative of the wastewater effluent, investigative sampling was performed to assist with the delineation of the effluent path. A map of the sampling locations and the sample results are provided in **Appendix A**. The results and recommendations from the investigation, including interpretation of the sampling program, will be provided in the form of a memo along with the water licence application for amendment and renewal in 2026.

#### **IV. A summary of any abandonment and restoration work completed during the year and an outline of any work anticipated for the next year:**

There was no abandonment and restoration work completed during 2025. There is no abandonment and restoration work anticipated for 2026.

#### **V. Updates or revisions to the approved Operation and Maintenance Plans:**

No updates or revisions were made to Operation and Maintenance Plans in 2025. The application for amendment and renewal of the water licence will be submitted in 2026, which will include updated Operation and Maintenance Plans for approval.

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**VI. 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:**

**Water:**

A hydrological assessment and source water quality characterization was performed in 2025 and will be finalized in 2026. The results of the study will be used to inform a sustainable/regulatory compliant withdrawal volume rate from the source water lakes for municipal water use.

**Wastewater:**

From the desktop and field assessments a memo is being prepared to review existing lagoon conditions and make high-level recommendations to improve and restore compliance with the water licence. This memo will be submitted to the GN in early 2026.

**Solid Waste:**

The initial planning study for a new solid waste site was completed in 2020/21. The cost estimates indicated that the current funding cannot support the construction of a new landfill. The focus of the project has shifted to making improvements to the current site. A second planning project to assess and prioritize the improvements to the current site is ongoing and is expected to be completed in 2026.

**VII. Any other details on water use or waste disposal requested by the Board by November 1st of the year being reported:**

No other details on water use or waste disposal requested by the Board by November 1st of 2025.

**VIII. ADDITIONAL INFORMATION THAT THE LICENSEE DEEMS USEFUL:**

Proposed modifications to the monitoring program for 2026 may be submitted to the NWB for approval in order to obtain more representative samples of the wastewater effluent.

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

The application for amendment and renewal of the water licence will be submitted in 2026, which the updated Plans for Compliance will be submitted as part of.

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**APPENDICES:**

**Appendix A: Map and COA of Investigative Sampling**

**Appendix B: Hazardous Materials Spills Database for Sanirajak in 2025**

**Appendix C: Summary of Monitoring Data**

**Appendix D: Monitoring Program Sample Results**

- Certificate of Analysis – 25-07-28

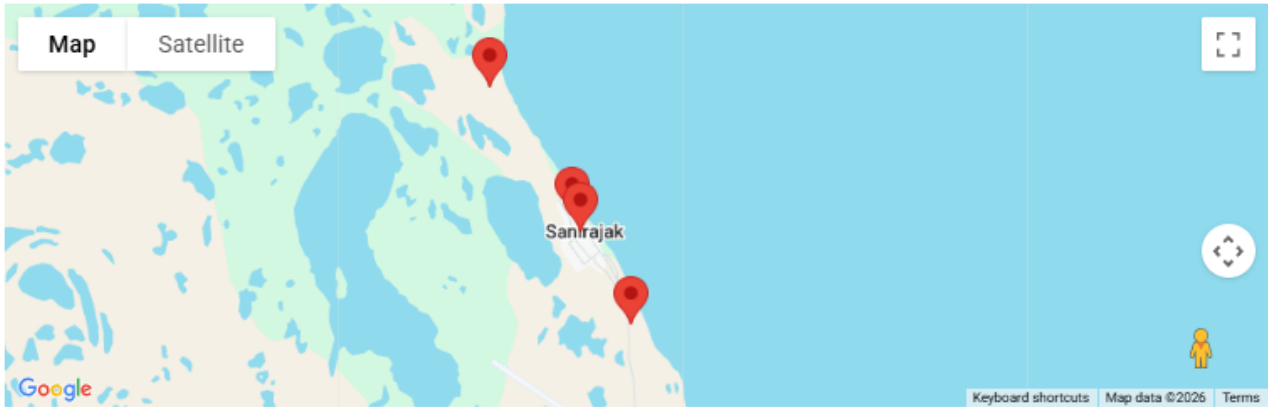
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Appendix A: Map and COA of Investigative Sampling



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**Appendix B: Hazardous Materials Spills Database for Sanirajak in 2025**



Spill	Occurance Date	Spill Region	Location	Location Description	Product Spilled	Quantity	Measurement	Spill Cause	Lead Agency
spill-2025446	June 27, 2025	Baffin	Hall Beach	Hamlet of Sanirajak	Sewage	14000.00	Cubic Meters	Other	CIRNAC - Crown-Indigenous Relations and Northern Affairs Canada
spill-2025422	January 23, 2025	Baffin	Hall Beach, Community, Nunavut	337 Sanirajak	Petroleum - fuel oil (jet A, diesel, turbo A, heat)	150.00	Liters	Pipe Leaks	GN - Government of Nunavut
spill-2025193	April 28, 2025		Hall Beach, Community, Nunavut	316C	Petroleum - fuel oil (jet A, diesel, turbo A, heat)	1300.00	Liters	Breakage	GN - Government of Nunavut
spill-2025162	March 3, 2025	Baffin	Hall Beach, Community, Nunavut	Sanirajak	Petroleum - gasoline (aviation, turbo B, jet B)	100.00	Liters	Unknown Cause	GN - Government of Nunavut

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**Appendix C: Summary of Monitoring Data**

**HAL-4 Effluent Quality Limits as per Part D, Item 3**

<b>Parameter</b>	<b>Maximum Concentration of any Grab Sample for <i>HAL-4</i></b>	<b>Units</b>	<b>July 28, 2025 <i>HAL-4</i></b>
BOD <sub>5</sub>	120	mg/L	15
Total Suspended Solids	180	mg/L	37
Fecal Coliform	1x10 <sup>6</sup>	CFU/ 100 mL	<2
Oil and grease	No visible sheen	N/A	2.5
pH	Between 6 and 9	N/A	7.74

**Note:** Based on the results, compliance with the effluent quality limits at HAL-4 was achieved.

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**Appendix D: Monitoring Program Sample Results**

**C.O.C.: G 136582**

**REPORT No: 25-022634 - Rev. 0**

**Report To:**

Hamlet of Sanirajak (Municipality of Hall Beach)  
 P.O. Box 198  
 Sanirajak, NU K0A 0K0

**CADUCEON Environmental Laboratories**

2378 Holly Lane  
 Ottawa, ON K1V 7P1

**Attention: Jeela Apak**

DATE RECEIVED: 2025-Jul-30  
 DATE REPORTED: 2025-Aug-08  
 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-Jul-31	A-IC-01	SM 4110B
BOD5 (Liquid)	2	KINGSTON	JWOLFE2	2025-Aug-01	BOD-001	SM 5210B
Cond/pH/Alk Auto (Liquid)	2	OTTAWA	SBOUDREAU	2025-Jul-31	COND-02/PH-02/A LK-02	SM 2510B/4500H/ 2320B
Fecal Coliforms (Liquid)	2	OTTAWA	AHIRSI	2025-Jul-30	FC-001	SM 9222D
ICP/MS Total (Liquid)	2	OTTAWA	AOZKAYMAK	2025-Aug-05	D-ICPMS-01	EPA 6020
ICP/OES Total (Liquid)	2	OTTAWA	SGORMAN	2025-Aug-01	D-ICP-01	SM 3120B
Mercury (Liquid)	2	OTTAWA	TBENNETT	2025-Aug-05	D-HG-02	SM 3112B
Ammonia (Liquid)	2	KINGSTON	VHAMMOND	2025-Aug-01	NH3-001	SM 4500NH3
Oil & Grease (Liquid)	2	KINGSTON	TMCBRYDE	2025-Aug-01	O&G-001	SM 5520
Phenols (Liquid)	2	KINGSTON	EHINCH	2025-Aug-06	PHEN-01	MECP E3179
Total Organic Carbon (TOC)	2	OTTAWA	SLOZO	2025-Aug-01	C-OC-01	EPA 415.2
TSS (Liquid)	2	KINGSTON	KYUILL	2025-Aug-07	TSS-001	SM 2540D

R.L. = Reporting Limit

NC = Not Calculated

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



**Michelle Dubien**  
**Data Specialist**

**CADUCEON Environmental Laboratories Certificate of Analysis**

Final Report  
REPORT No: 25-022634 - Rev. 0

Parameter	Client I.D.		HAL-5	HAL-4
	Sample I.D.		25-022634-1	25-022634-2
	Date Collected		2025-07-28	2025-07-28
	Units	R.L.	-	-
Fecal Coliform	CFU/100mL	1	2	<2
Alkalinity(CaCO3) to pH4.5	mg/L	5	103	133
Conductivity @25°C	uS/cm	1	649	615
pH @25°C	pH units	-	8.10	7.74
Chloride	mg/L	0.5	103	77.8
Nitrate (N)	mg/L	0.05	<0.05	0.06
Nitrite (N)	mg/L	0.05	<0.05	<0.05
Sulphate	mg/L	1	58	48
BOD5	mg/L	3	<3	15
Total Suspended Solids	mg/L	3	6	37
Ammonia (N)-Total (NH3+NH4)	mg/L	0.05	<0.05	0.45
Total Organic Carbon	mg/L	0.8	5.0	12.9
Phenolics	mg/L	0.001	<0.001	<0.001
Hardness (as CaCO3)	mg/L	0.02	145	189
Aluminum (Total)	mg/L	0.01	0.03	0.05
Cadmium (Total)	mg/L	0.005	<0.005	<0.005
Calcium (Total)	mg/L	0.02	33.8	53.4
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	<0.002	0.002
Iron (Total)	mg/L	0.005	0.066	0.540



**Michelle Dubien**  
Data Specialist

The analytical results reported herein refer to the samples as received and relate only to the items tested. Reproduction of this analytical report in full or in part is prohibited without prior consent from Caduceon Environmental Laboratories.

**CADUCEON Environmental Laboratories Certificate of Analysis**

Final Report  
REPORT No: 25-022634 - Rev. 0

			Client I.D.	HAL-5	HAL-4
			Sample I.D.	25-022634-1	25-022634-2
			Date Collected	2025-07-28	2025-07-28
Parameter	Units	R.L.		-	-
Lead (Total)	mg/L	0.02		<0.02	<0.02
Magnesium (Total)	mg/L	0.02		14.6	13.5
Manganese (Total)	mg/L	0.001		0.003	0.022
Nickel (Total)	mg/L	0.01		<0.01	<0.01
Potassium (Total)	mg/L	0.1		5.8	5.1
Sodium (Total)	mg/L	0.2		67.0	51.7
Zinc (Total)	mg/L	0.005		<0.005	0.008
Arsenic (Total)	mg/L	0.0005		0.0007	0.0028
Mercury	mg/L	0.00002		<0.00002	<0.00002

			Client I.D.	HAL-5	HAL-4
			Sample I.D.	25-022634-1	25-022634-2
			Date Collected	2025-07-28	2025-07-28
Parameter	Units	R.L.		-	-
Oil & Grease (Total)	mg/L	1.0		3.1	2.5

Bacteria passed holding time.



**Michelle Dubien**  
**Data Specialist**

