

January 31, 2013

Nunavut Water Board

PO Box 119

Gjoa Haven, Nunavut

X0B 1J0

Attention: Phyllis Beaulieu, Manager of Licensing

**RE: "Annual Report 2012"- Hamlet of Gjoa Haven, NU (Licence No. NWB3-GKO0409)**


Dear Ms. Beaulieu,

The Hamlet of Gjoa Haven is pleased to submit to Nunavut Water Board the attached file of "Annual Report" of water uses and sewage solid waste disposal as required and directed under the compliance of use in Water Licence No. NWB3-GJO-0409 as stated above. Copies of required tests reports are attached herewith the report as requested for your review and requirements.

With the help of Government of Nunavut through Community and Government Services, we have undertaken a comprehensive waste management monitoring program which has led to improvement of sewage and solid waste site facilities, wetland and effluent discharge. Our annual monitoring program for water, sewage and solid waste has been in effect since summer 2012. Sample test result has shown excellent control on contamination parameters within allowable limits including BOD, TSS, E-coli and Toxicity

We hope that Nunavut Water Board will find our supporting documents valuable to Annual Report in operating the Water Licence for water, sewage and solid waste facility.

Sincerely,


 Jan 31, 2013  
**Shah Alam, P. Eng.**

Municipal Planning Engineer

Community & Government Services

Bag 200

Cambridge Bay, NU X0B 0C0

 867-983-4156

Email: [salam@gov.nu.ca](mailto:salam@gov.nu.ca)

(On behalf of Senior Administrative Officer),

Hamlet of Gjoa Haven, Nunavut

## ANNUAL REPORT

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YEAR BEING REPORTED: 2012

The following information is compiled pursuant to the requirements of **Part B, Item 1** of Water Licence Number **NWB3GJO-0409** issued to the **Gjoa Haven**

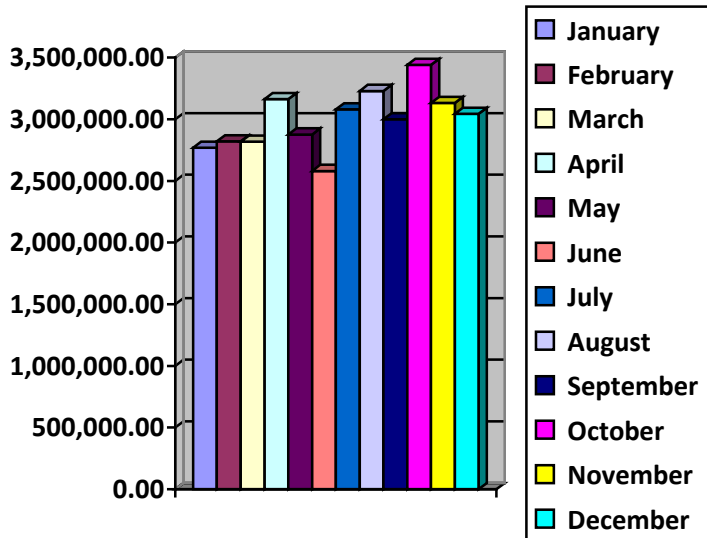
- i) - iii) tabular summaries of all data generated under the “Monitoring Program”; monthly and annual quantities in cubic metres of freshwater obtained from all sources; monthly and annual quantities in cubic metres of each and all wastes discharged;

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

Month Reported	Quantity of Water Obtained from all sources (litres)	Quantity of Sewage Waste Discharged
January	2,768,576.71	Same
February	2,820,136.28	Same
March	2,817,191.70	Same
April	3,162,235.60	Same
May	2,876,048.00	Same
June	2,580,736.90	Same
July	3,080,420.20	Same
August	3,229,565.40	Same
September	2,999,727.50	Same
October	3,440,088.00	Same
November	3,132,082.40	Same
December	3,043,711.90	Same
ANNUAL TOTAL	35,950,520.59	Same

## ANNUAL REPORT

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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 modification or major maintenance carried out for water intake and transmission- existing water supply system, transmission line, re-heating stations and treatment system remains in operation with water intake from same water source Swan Lake.
  - New sewage lagoon facility contract including wet land extension for discharge from new Lagoon has been awarded and scheduled for construction starts early in summer 2013. Construction of new Lagoon will facilitate effluent stream on wet land and onto ocean with sufficient retention time for natural treatment.
- v. a list of unauthorized discharges and summary of follow-up action taken;
- No unauthorized discharge listed by the Board to follow up. But INAC Report 2011 indicated sign of untreated effluent outside the cell berm suspecting overflow or leakage underneath the berm. Overflow pipe has been installed inclined inward with freeboard more than 1.3 m with respect to lowest crest of berm. No overflow on berm or leak noticed since the repair of the berm. Sign of wetness outside the cell is from snowmelt water from surrounding due to the depression outside of berm in some localized area. Sample tests result also shows parameters of contamination within allowable lower limit in effluent.

## ANNUAL REPORT

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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;

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- No abandonment or restoration work completed during the year 2012.
- Construction for new sewage lagoon scheduled to start with targeted completion by end 2013 and will be ready for operation by early 2014. Once completed and approved for operation, abandonment and restoration of existing lagoon will be taken for study. Expecting abandonment of existing lagoon and adjacent wetland sometime in 2014-15

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;

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- NWB has advised to propose for a 'Short Term Plan and undertaking with regard to the part G, item 1 for Abandonment & Restoration plan, O & M manual for Sewage Lagoon, Solid Waste Sites and Spill contingency Plan completed six (6) months prior to decommissioning of existing lagoon. Construction of new sewage lagoon project expected completion in late 2013 which included preparation of updated O & M manual, spill contingency plan (new sewage lagoon & wetland), and decommissioning of existing lagoon.

Once finally determined the completion date, Abandonment and Restoration plan of existing Sewage lagoon will be carried and submitted to NWB for review and action. A "short Term Plan for compliance" has submitted the Board for review and approval.

- Capital program was not included the Solid Waste facility improvement, unless a separate project undertaken which were already in proposal and waiting for Federal Funding or Donor assistance. However, annual monitoring and maintenance were continued as per direction and instruction which included waste dump separation, segregation of metals and toxic materials, retention of effluent, sampling/decanting, safe storage of dump and protection of illegal dumping. Short Term Plan also covered such activities and operation until a new facility in place.
- GN has engaged EXP consultant to survey, study, review and preparation of operational document of solid waste site facility including intensive training program for hamlet operators. EXP will resume the field survey by the 3rd Week of February 2013. As outlined in the Short Term Plan, the hamlet will continue the operation and monitoring program with the direction of the Board, EXP and existing manuals until an updated manual in hand. The Board will be updated with the study and plan.

## ANNUAL REPORT

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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;
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Water Licence remains expired with NWB since February 01, 2009 as reported without amendment and extension for non-Compliances.

Report from AANDC 2012 requested for submission of Annual Reports 2006 through 2010, updated O & M manual for sewage and solid waste sites, compliance plan and abandonment & Restoration plan of sewage lagoon.

Hamlet has already submitted the updated Annual Reports 2011 and 2012 now in place, it is too late to locate those Annual Reports 2006 and they will not match with current facilities using for water or sewage system. Hamlet has also submitted a short term and long term plan for compliances after the Inspector's visit of site facilities.

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- ix updates or revisions to the approved Operation and Maintenance Plans.
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EXP consultant is expecting working with hamlet in regards to monitoring program, operator training, sewage and solid waste site facilities improving and updating O and M manuals.

New sewage lagoon construction contract integrated in providing O & M manual for sewage waste site and abandonment & restoration of existing sewage facility. Such documents will be available once the facility comes in operation and the Board will be updated accordingly.

### **ADDITIONAL INFORMATION THAT THE LICENSEE DEEMS USEFUL:**

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AANDC inspection report 2012, indicated unauthorised decanting of sewage waste to secondary lagoon, practically the lagoon is a single cell and an overflow pipe with more than 1.2 m free board for self-flow out of sewage once it fills up to the pipe flow level. This can happen during summer time when sewage melts and comes to its capacity. No manual and pump decanting requires. Lagoon berm has already been repaired since reported before and so as free board. Moreover, this lagoon will be no longer in use once new lagoon in place-expecting end of 2013. Hamlet has comprehensive plan for solid waste site management with the help of EXP consultant

### **FOLLOW-UP REGARDING INSPECTION/COMPLIANCE CONCERNS:**

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## **Part H: Monitoring program.**

Item No.1: Four monitoring stations: - (i) GJO-1 (Raw Water at Swan lake)

(ii) GJO-2 (Effluent from Solid waste site (iii) GJO-3: (Raw Sewage at truck offload and (iv) GJO-4: (Effluent Final discharge point)

### **item 2: samples at monitoring stations:**

samples collected on july 16, Aug 24 and Sep 17, 2012 and tested results

Wastewater/Sewage parameters

Parameter	MAC	units	July 16,2012		Aug 24,2012		17-Sep-12	
	Limits		GJO-2	GJO-4	GJO-2	GJO-4	GJO-2	GJO-4
Alkalinity		mg/L	327	314	312	358	288	317
Conductivity		µS/cm	2650	1020	1000	1100	910	989
p <sup>H</sup>	6-9		6.92	7.5	7.74	7.4	7.78	7.74
TSS	100	mg/L	86	12	18	106	<3	4
Ammonia N2	80	mg/L	8.77	11.3	12.8	17.0	4.31	9.45
BOD		mg/L	77	5			3	4
Organic Carbon		mg/L	150	51.6	52	67.5	62.5	80
Nitrate N2		mg/L	<0.01	0.02	1		0.94	1.02
Calcium		mg/L	352	40.2	43.6	44.6	48.3	41.7
Chloride		mg/L	194	137	123	132	120	130
Hardness		mg/L	1120	224	238	240	254	233
Magnesium		mg/L	58.1	30	31.4	31.4	32.3	31.4
Potassium		mg/L	44.3	17.4	14.1	18.3	11.7	16.6
Sodium		mg/L	171	112	98	112	89.7	109
Sulphate		mg/L	892	4	1	2	11	8
Fecal Coliform	10000	CFU/100mL	820	125			124	48
Oil and Gas	5000	µg/L	non-vis	non-vis	non-vis	non-vis	non-vis	non-vis
Aluminium		µg/L	87	45.6	30.6	103	19.4	30.2
Arsenic	100	µg/L	12.9	7.7	7.4	27.1	3.8	6.3
Cadmium	10	µg/L	1.1	<0.1	<0.05	<0.1	<0.05	<0.05
Chromium	100	µg/L	3.4	0.3	0.7	1.1	1.2	0.5
Cobalt	50	µg/L	7.1	<0.1	3.1	2.4	2.3	4.0
Copper	200	µg/L	88.9	0.7	4.4	3.3	4.3	7.1
Iron		µg/L	25800	3130	2400	16400	1600	2540
Lead	50	µg/L	54.5	0.2	0.4	0.4	<0.1	<0.1
Manganese		µg/L	1090	155	193	279	122	167
Nickel	200	µg/L	22.7	6.8	9.4	7.9	9.2	12.8
Zinc	500	µg/L	826	<5	7	<0.4	11.9	0.8
Mercury	0.6	µg/L	0.12	0.03	<0.01	<0.01	0.02	0.01
PCB	1000	µg/L						
Phenols	20	µg/L						



*Handwritten: GH-1*  
*Sample Station: GJO-2, GJO-4*  
*Date of sampling: July 16, 2012*

**Taiga Environmental Laboratory**  
4601-52nd Ave., Box 1500, Yellowknife, NT. X1A 2R3  
Tel: (867)-669-2788 Fax: (867)-669-2718

**Taiga Batch No.:**  
120517

**- FINAL REPORT -**

**Prepared For:** Hamlet of Gjoa Haven

**Address:** P.O. Box 200  
Gjoa Haven, NU  
X0B 1T0

**Attn:** Jacob Keanik

**Facsimile:** (867) 360-6309

**Final report has been reviewed and approved by:**

*Handwritten signature: Helene Harper*  
**Helene Harper**  
Manager

**NOTES:**

- Test methods and data are validated by the laboratory's Quality Assurance Program. Taiga Environmental Laboratory is accredited by the Canadian Association for Laboratory Accreditation Inc. (CALA) as a testing laboratory for specific tests registered with CALA.
- Routine methods are based on recognized procedures from sources such as
  - Standard Methods for the Examination of Water and Wastewater APHA AWWA WEF;
  - Environment Canada
  - USEPA
- Samples shall be kept for thirty (30) days after the final report is issued. All microbiological samples shall be disposed of immediately upon completion of analysis to minimize biohazardous risks to laboratory personnel. Please contact the laboratory if you have any special requirements.
- Final results are based on the specific tests at the time of analysis and do not represent the conditions during sampling.

**Report Date:** Thursday, July 26, 2012  
**Print Date:** Thursday, July 26, 2012



**Taiga Environmental Laboratory**  
4601-52nd Ave., Box 1500, Yellowknife, NT. X1A 2R3  
Tel: (867)-669-2788 Fax: (867)-669-2718

**Taiga Batch No.:**  
120517

**- CERTIFICATE OF ANALYSIS -**

**Client Sample ID:** GJO-2

**Taiga Sample ID:** 001

**Client Project:** NWB3GJ00409  
**Sample Type:** Landfill  
**Received Date:** 17-Jul-12  
**Sampling Date:** 16-Jul-12  
**Sampling Time:** 10:00  
**Location:** Gjoa Haven, NU  
**Report Status:** Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifer
<b><u>Organics - Physicals</u></b>						
Alkalinity, Total (as CaCO <sub>3</sub> )	327	0.4	mg/L	17-Jul-12	SM2320:B	
Conductivity, Specific (@ 25°C)	2650	0.4	µS/cm	17-Jul-12	SM2510:B	
pH	6.92		pH units	17-Jul-12	SM4500-H:B	
Solids, Total Suspended	86	3	mg/L	18-Jul-12	SM2540:D	
<b><u>Inorganics - Nutrients</u></b>						
Ammonia as Nitrogen	8.77	0.01	mg/L	20-Jul-12	SM4500-NH3:	
Biochemical Oxygen Demand	77	2	mg/L	18-Jul-12	SM5210:B	
Organic Carbon, Total	150	0.5	mg/L	19-Jul-12	SM5310:B	
<b><u>Major Ions</u></b>						
Calcium	352	0.1	mg/L	17-Jul-12	SM4110:B	
Chloride	194	0.7	mg/L	17-Jul-12	SM4110:B	
Hardness	1120	0.7	mg/L	17-Jul-12	SM2340:B	
Magnesium	58.1	0.1	mg/L	17-Jul-12	SM4110:B	
Nitrate as Nitrogen	< 0.01	0.01	mg/L	17-Jul-12	SM4110:B	

**Report Date:** Thursday, July 26, 2012  
**Print Date:** Thursday, July 26, 2012





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**Taiga Batch No.:**  
**120517**

**- CERTIFICATE OF ANALYSIS -**

**Client Sample ID:** GJO-2

**Taiga Sample ID:** 001

Nitrite as Nitrogen	< 0.01	0.01	mg/L	17-Jul-12	SM4110:B
Potassium	44.3	0.1	mg/L	17-Jul-12	SM4110:B
Sodium	171	0.1	mg/L	17-Jul-12	SM4110:B
Sulphate	892	1	mg/L	17-Jul-12	SM4110:B

**Microbiology**

Coliforms, Fecal	820	10	CFU/100mL	17-Jul-12	SM9222:D
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**Organics**

Oil and Grease, visible	Non-visible			23-Jul-12	Visual Exam
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**Trace Metals, Total**

Aluminum	87	5	µg/L	20-Jul-12	EPA200.8
Arsenic	12.9	0.2	µg/L	20-Jul-12	EPA200.8
Cadmium	1.1	0.1	µg/L	20-Jul-12	EPA200.8
Chromium	3.4	0.1	µg/L	20-Jul-12	EPA200.8
Cobalt	7.1	0.1	µg/L	20-Jul-12	EPA200.8
Copper	88.9	0.2	µg/L	20-Jul-12	EPA200.8
Iron	25800	5	µg/L	20-Jul-12	EPA200.8
Lead	54.5	0.1	µg/L	20-Jul-12	EPA200.8
Manganese	1090	0.1	µg/L	20-Jul-12	EPA200.8
Mercury	0.12	0.01	µg/L	20-Jul-12	EPA200.8
Nickel	22.7	0.1	µg/L	20-Jul-12	EPA200.8
Zinc	826	5	µg/L	20-Jul-12	EPA200.8

**Report Date:** Thursday, July 26, 2012  
**Print Date:** Thursday, July 26, 2012



**Taiga Environmental Laboratory**  
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Tel: (867)-669-2788 Fax: (867)-669-2718

**Taiga Batch No.:**  
**120517**

**- CERTIFICATE OF ANALYSIS -**

**Client Sample ID:** GJO-4

**Taiga Sample ID:** 002

**Client Project:** NWB3GJ00409  
**Sample Type:** Sewage  
**Received Date:** 17-Jul-12  
**Sampling Date:** 16-Jul-12  
**Sampling Time:** 10:00  
**Location:** Gjoa Haven, NU  
**Report Status:** Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifer
<b><u>Inorganics - Physicals</u></b>						
Alkalinity, Total (as CaCO <sub>3</sub> )	314	0.4	mg/L	17-Jul-12	SM2320:B	
Conductivity, Specific (@ 25°C)	1020	0.4	µS/cm	17-Jul-12	SM2510:B	
pH	7.50		pH units	17-Jul-12	SM4500-H:B	
Solids, Total Suspended	12	3	mg/L	18-Jul-12	SM2540:D	
<b><u>Inorganics - Nutrients</u></b>						
Ammonia as Nitrogen	11.3	0.01	mg/L	20-Jul-12	SM4500-NH3:	
Biochemical Oxygen Demand	5	2	mg/L	18-Jul-12	SM5210:B	81
Organic Carbon, Total	51.6	0.5	mg/L	19-Jul-12	SM5310:B	
<b><u>Major Ions</u></b>						
Calcium	40.2	0.1	mg/L	17-Jul-12	SM4110:B	
Chloride	137	0.7	mg/L	17-Jul-12	SM4110:B	
Hardness	224	0.7	mg/L	17-Jul-12	SM2340:B	
Magnesium	30.0	0.1	mg/L	17-Jul-12	SM4110:B	
Nitrate as Nitrogen	0.28	0.01	mg/L	17-Jul-12	SM4110:B	
Nitrite as Nitrogen	0.03	0.01	mg/L	17-Jul-12	SM4110:B	

**Report Date:** Thursday, July 26, 2012  
**Print Date:** Thursday, July 26, 2012



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Tel: (867)-669-2788 Fax: (867)-669-2718

**Taiga Batch No.:**  
**120517**

**- CERTIFICATE OF ANALYSIS -**

**Client Sample ID:** GJO-4

**Taiga Sample ID:** 002

Potassium	17.4	0.1	mg/L	17-Jul-12	SM4110:B
Sodium	112	0.1	mg/L	17-Jul-12	SM4110:B
Sulphate	4	1	mg/L	17-Jul-12	SM4110:B

**Microbiology**

Coliforms, Fecal	125	1	CFU/100mL	17-Jul-12	SM9222:D
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**Organics**

Oil and Grease, visible	Non-visible			23-Jul-12	Visual Exam
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**Trace Metals, Total**

Aluminum	45.6	0.6	µg/L	20-Jul-12	EPA200.8
Arsenic	7.7	0.2	µg/L	20-Jul-12	EPA200.8
Cadmium	< 0.1	0.1	µg/L	20-Jul-12	EPA200.8
Chromium	0.7	0.1	µg/L	20-Jul-12	EPA200.8
Cobalt	1.9	0.1	µg/L	20-Jul-12	EPA200.8
Copper	2.8	0.2	µg/L	20-Jul-12	EPA200.8
Iron	3130	5	µg/L	20-Jul-12	EPA200.8
Lead	0.2	0.1	µg/L	20-Jul-12	EPA200.8
Manganese	155	0.1	µg/L	20-Jul-12	EPA200.8
Mercury	0.03	0.01	µg/L	20-Jul-12	EPA200.8
Nickel	6.8	0.1	µg/L	20-Jul-12	EPA200.8
Zinc	< 5	5	µg/L	20-Jul-12	EPA200.8

**Report Date:** Thursday, July 26, 2012  
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**Taiga Batch No.:**  
**120517**

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**- CERTIFICATE OF ANALYSIS -**

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**Client Sample ID: GJO-4**

**Taiga Sample ID: 002**

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**- DATA QUALIFIERS -**

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*Data Qualifier Descriptions:*

81 *Results are inconclusive due to insufficient depletion of sample, minimum 2 mg/L required over 5 days.*

- \* **Taiga analytical methods are based on the following standard analytical methods**
  - SM - Standard Methods for the Examination of Water and Wastewater
  - EPA - United States Environmental Protection Agency

**ReportDate:** Thursday, July 26, 2012  
**Print Date:** Thursday, July 26, 2012



**Taiga Environmental Laboratory**  
4601-52nd Ave., Box 1500, Yellowknife, NT. X1A 2R3  
Tel: (867)-669-2788 Fax: (867)-669-2718

**Taiga Batch No.:**  
**120725**

**- FINAL REPORT -**

**Prepared For:** Hamlet of Gjoa Haven

**Address:** P.O. Box 200  
Gjoa Haven, NU  
X0B 1J0

**Attn:** Jacob Keanik

**Facsimile:** (867) 360-6309

**Final report has been reviewed and approved by:**

  
**Helene Harper**  
Manager

**NOTES:**

- Test methods and data are validated by the laboratory's Quality Assurance Program. Taiga Environmental Laboratory is accredited by the Canadian Association for Laboratory Accreditation Inc. (CALA) as a testing laboratory for specific tests registered with CALA.
- Routine methods are based on recognized procedures from sources such as
  - Standard Methods for the Examination of Water and Wastewater APHA AWWA WEF;
  - Environment Canada
  - USEPA
- Samples shall be kept for thirty (30) days after the final report is issued. All microbiological samples shall be disposed of immediately upon completion of analysis to minimize biohazardous risks to laboratory personnel. Please contact the laboratory if you have any special requirements.
- Final results are based on the specific tests at the time of analysis and do not represent the conditions during sampling.

**ReportDate:** Monday, September 10, 2012

**Print Date:** Monday, September 10, 2012





**Taiga Environmental Laboratory**  
4601-52nd Ave., Box 1500, Yellowknife, NT. X1A 2R3  
Tel: (867)-669-2788 Fax: (867)-669-2718

**Taiga Batch No.:**  
**120725**

**- CERTIFICATE OF ANALYSIS -**

**Client Sample ID: GJO-2**

**Taiga Sample ID: 001**

**Client Project:**

**Sample Type:** Unknown Water

**Received Date:** 27-Aug-12

**Sampling Date:** 24-Aug-12

**Sampling Time:** 13:26

**Location:**

**Report Status:** Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifer
<b><u>Inorganics - Physicals</u></b>						
Alkalinity, Total (as CaCO <sub>3</sub> )	312	0.4	mg/L	27-Aug-12	SM2320:B	
Conductivity, Specific (@ 25°C)	1000	0.4	µS/cm	27-Aug-12	SM2510:B	
pH	7.74		pH units	27-Aug-12	SM4500-H:B	
Solids, Total Suspended	18	3	mg/L	06-Sep-12	SM2540:D	
<b><u>Inorganics - Nutrients</u></b>						
Ammonia as Nitrogen	12.8	0.005	mg/L	04-Sep-12	SM4500-NH3:	
Biochemical Oxygen Demand			mg/L		SM5210:B	105
Organic Carbon, Total	52.0	0.5	mg/L	30-Aug-12	SM5310:B	
<b><u>Major Ions</u></b>						
Calcium	43.6	0.1	mg/L	27-Aug-12	SM4110:B	
Chloride	123	0.7	mg/L	27-Aug-12	SM4110:B	
Hardness	238	0.7	mg/L	27-Aug-12	SM2340:B	
Magnesium	31.4	0.1	mg/L	27-Aug-12	SM4110:B	
Nitrate as Nitrogen	1.00	0.01	mg/L	27-Aug-12	SM4110:B	

**ReportDate:** Monday, September 10, 2012

**Print Date:** Monday, September 10, 2012



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4601-52nd Ave., Box 1500, Yellowknife, NT. X1A 2R3  
Tel: (867)-669-2788 Fax: (867)-669-2718

**Taiga Batch No.:**  
**120725**

**- CERTIFICATE OF ANALYSIS -**

**Client Sample ID: GJO-2**

**Taiga Sample ID: 001**

Nitrite as Nitrogen	< 0.01	0.01	mg/L	27-Aug-12	SM4110:B
Potassium	14.1	0.1	mg/L	27-Aug-12	SM4110:B
Sodium	98.0	0.1	mg/L	27-Aug-12	SM4110:B
Sulphate	1	1	mg/L	27-Aug-12	SM4110:B

**Microbiology**

Coliforms, Fecal	CFU/100mL	SM9222:D
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105

**Organics**

Oil and Grease, visible	Non-visible	31-Aug-12	Visual Exam
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**Trace Metals, Total**

Aluminum	30.6	0.6	µg/L	29-Aug-12	EPA200.8
Arsenic	7.4	0.2	µg/L	29-Aug-12	EPA200.8
Cadmium	< 0.05	0.05	µg/L	29-Aug-12	EPA200.8
Chromium	0.7	0.1	µg/L	29-Aug-12	EPA200.8
Cobalt	3.1	0.1	µg/L	29-Aug-12	EPA200.8
Copper	4.4	0.2	µg/L	29-Aug-12	EPA200.8
Iron	2400	5	µg/L	29-Aug-12	EPA200.8
Lead	0.4	0.1	µg/L	29-Aug-12	EPA200.8
Manganese	193	0.1	µg/L	29-Aug-12	EPA200.8
Mercury	< 0.01	0.01	µg/L	29-Aug-12	EPA200.8
Nickel	9.4	0.1	µg/L	29-Aug-12	EPA200.8
Zinc	7.0	0.4	µg/L	29-Aug-12	EPA200.8

**ReportDate:** Monday, September 10, 2012

**Print Date:** Monday, September 10, 2012



**Taiga Environmental Laboratory**  
4601-52nd Ave., Box 1500, Yellowknife, NT. X1A 2R3  
Tel: (867)-669-2788 Fax: (867)-669-2718

**Taiga Batch No.:**  
**120725**

**- CERTIFICATE OF ANALYSIS -**

**Client Sample ID:** GJO-4

**Taiga Sample ID:** 002

**Client Project:**

**Sample Type:** Unknown Water

**Received Date:** 27-Aug-12

**Sampling Date:** 24-Aug-12

**Sampling Time:** 13:26

**Location:**

**Report Status:** Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifer
<b><u>Inorganics - Physicals</u></b>						
Alkalinity, Total (as CaCO <sub>3</sub> )	358	0.4	mg/L	27-Aug-12	SM2320:B	
Conductivity, Specific (@ 25°C)	1100	0.4	µS/cm	27-Aug-12	SM2510:B	
pH	7.40		pH units	27-Aug-12	SM4500-H:B	
Solids, Total Suspended	106	3	mg/L	05-Sep-12	SM2540:D	
<b><u>Inorganics - Nutrients</u></b>						
Ammonia as Nitrogen	17.0	0.005	mg/L	04-Sep-12	SM4500-NH3:	
Biochemical Oxygen Demand			mg/L		SM5210:B	105
Organic Carbon, Total	67.5	0.5	mg/L	30-Aug-12	SM5310:B	
<b><u>Major Ions</u></b>						
Calcium	44.6	0.1	mg/L	27-Aug-12	SM4110:B	
Chloride	132	0.7	mg/L	27-Aug-12	SM4110:B	
Hardness	240	0.7	mg/L	27-Aug-12	SM2340:B	
Magnesium	31.4	0.1	mg/L	27-Aug-12	SM4110:B	
Nitrate as Nitrogen	0.04	0.01	mg/L	27-Aug-12	SM4110:B	
Nitrite as Nitrogen	< 0.01	0.01	mg/L	27-Aug-12	SM4110:B	

**ReportDate:** Monday, September 10, 2012

**Print Date:** Monday, September 10, 2012





**Taiga Environmental Laboratory**  
4601-52nd Ave., Box 1500, Yellowknife, NT. X1A 2R3  
Tel: (867)-669-2788 Fax: (867)-669-2718

**Taiga Batch No.:**  
**120725**

**- CERTIFICATE OF ANALYSIS -**

**Client Sample ID: GJO-4**

**Taiga Sample ID: 002**

Potassium	18.3	0.1	mg/L	27-Aug-12	SM4110:B
Sodium	112	0.1	mg/L	27-Aug-12	SM4110:B
Sulphate	2	1	mg/L	27-Aug-12	SM4110:B

**Microbiology**

Coliforms, Fecal		CFU/100mL	SM9222:D	105
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**Organics**

Oil and Grease, visible	Non-visible		31-Aug-12	Visual Exam
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**Trace Metals, Total**

Aluminum	103	5	µg/L	29-Aug-12	EPA200.8
Arsenic	27.1	0.2	µg/L	29-Aug-12	EPA200.8
Cadmium	< 0.1	0.1	µg/L	29-Aug-12	EPA200.8
Chromium	1.1	0.1	µg/L	29-Aug-12	EPA200.8
Cobalt	2.4	0.1	µg/L	29-Aug-12	EPA200.8
Copper	3.3	0.2	µg/L	29-Aug-12	EPA200.8
Iron	16400	5	µg/L	29-Aug-12	EPA200.8
Lead	0.4	0.1	µg/L	29-Aug-12	EPA200.8
Manganese	279	0.1	µg/L	29-Aug-12	EPA200.8
Mercury	< 0.01	0.01	µg/L	29-Aug-12	EPA200.8
Nickel	7.9	0.1	µg/L	29-Aug-12	EPA200.8
Zinc	< 0.4	0.4	µg/L	29-Aug-12	EPA200.8

**ReportDate:** Monday, September 10, 2012

**Print Date:** Monday, September 10, 2012



**Taiga Environmental Laboratory**  
4601-52nd Ave., Box 1500, Yellowknife, NT. X1A 2R3  
Tel: (867)-669-2788 Fax: (867)-669-2718

**Taiga Batch No.:**  
**120725**

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**- CERTIFICATE OF ANALYSIS -**

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**Client Sample ID: GJO-4**

**Taiga Sample ID: 002**

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**- DATA QUALIFIERS -**

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*Data Qualifier Descriptions:*

**105**     *Samples received past hold time; analysis not possible.*

**\* Taiga analytical methods are based on the following standard analytical methods**

SM - Standard Methods for the Examination of Water and Wastewater

EPA - United States Environmental Protection Agency

**ReportDate:** Monday, September 10, 2012

**Print Date:** Monday, September 10, 2012



**Taiga Environmental Laboratory**  
4601-52nd Ave., Box 1500, Yellowknife, NT. X1A 2R3  
Tel: (867)-669-2788 Fax: (867)-669-2718

**Taiga Batch No.:**  
**120843**

**- FINAL REPORT -**

**Prepared For:** Hamlet of Gjoa Haven

**Address:** P.O. Box 200  
Gjoa Haven, NU  
X0B 1J0

**Attn:** Jacob Keanik

**Facsimile:** (867) 360-6309

**Final report has been reviewed and approved by:**

  
**Helene Harper**  
Manager

**NOTES:**

- Test methods and data are validated by the laboratory's Quality Assurance Program. Taiga Environmental Laboratory is accredited by the Canadian Association for Laboratory Accreditation Inc. (CALA) as a testing laboratory for specific tests registered with CALA.
- Routine methods are based on recognized procedures from sources such as
  - Standard Methods for the Examination of Water and Wastewater APHA AWWA WEF;
  - Environment Canada
  - USEPA
- Samples shall be kept for thirty (30) days after the final report is issued. All microbiological samples shall be disposed of immediately upon completion of analysis to minimize biohazardous risks to laboratory personnel. Please contact the laboratory if you have any special requirements.
- Final results are based on the specific tests at the time of analysis and do not represent the conditions during sampling.

**ReportDate:** Thursday, September 27, 2012

**Print Date:** Thursday, September 27, 2012



**Taiga Environmental Laboratory**  
4601-52nd Ave., Box 1500, Yellowknife, NT. X1A 2R3  
Tel: (867)-669-2788 Fax: (867)-669-2718

**Taiga Batch No.:**  
**120843**

**- CERTIFICATE OF ANALYSIS -**

**Client Sample ID: GJO-2**

**Taiga Sample ID: 001**

**Client Project:**

**Sample Type:** Unknown Water

**Received Date:** 18-Sep-12

**Sampling Date:** 17-Sep-12

**Sampling Time:** 11:30

**Location:** Gjoa Haven

**Report Status:** Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifer
<b><u>Inorganics - Physicals</u></b>						
Alkalinity, Total (as CaCO <sub>3</sub> )	288	0.4	mg/L	20-Sep-12	SM2320:B	
Conductivity, Specific (@ 25°C)	910	0.4	µS/cm	20-Sep-12	SM2510:B	
pH	7.78		pH units	20-Sep-12	SM4500-H:B	
Solids, Total Suspended	< 3	3	mg/L	20-Sep-12	SM2540:D	
<b><u>Inorganics - Nutrients</u></b>						
Ammonia as Nitrogen	4.31	0.005	mg/L	24-Sep-12	SM4500-NH3:	
Biochemical Oxygen Demand	3	2	mg/L	18-Sep-12	SM5210:B	
Organic Carbon, Total	62.5	0.5	mg/L	20-Sep-12	SM5310:B	
<b><u>Major Ions</u></b>						
Calcium	48.3	0.1	mg/L	18-Sep-12	SM4110:B	
Chloride	120	0.7	mg/L	18-Sep-12	SM4110:B	
Hardness	254	0.7	mg/L	18-Sep-12	SM2340:B	
Magnesium	32.3	0.1	mg/L	18-Sep-12	SM4110:B	
Nitrate as Nitrogen	0.94	0.01	mg/L	18-Sep-12	SM4110:B	

**ReportDate:** Thursday, September 27, 2012

**Print Date:** Thursday, September 27, 2012





**Taiga Environmental Laboratory**  
4601-52nd Ave., Box 1500, Yellowknife, NT. X1A 2R3  
Tel: (867)-669-2788 Fax: (867)-669-2718

**Taiga Batch No.:**  
**120843**

**- CERTIFICATE OF ANALYSIS -**

**Client Sample ID: GJO-2**

**Taiga Sample ID: 001**

Nitrite as Nitrogen	< 0.01	0.01	mg/L	18-Sep-12	SM4110:B
Potassium	11.7	0.1	mg/L	18-Sep-12	SM4110:B
Sodium	89.7	0.1	mg/L	18-Sep-12	SM4110:B
Sulphate	11	1	mg/L	18-Sep-12	SM4110:B

**Microbiology**

Coliforms, Fecal	124	1	CFU/100mL	18-Sep-12	SM9222:D
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**Organics**

Oil and Grease, visible	Non-visible			21-Sep-12	Visual Exam
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**Trace Metals, Total**

Aluminum	19.4	0.6	µg/L	22-Sep-12	EPA200.8
Arsenic	3.8	0.2	µg/L	22-Sep-12	EPA200.8
Cadmium	< 0.05	0.05	µg/L	22-Sep-12	EPA200.8
Chromium	1.2	0.1	µg/L	22-Sep-12	EPA200.8
Cobalt	2.3	0.1	µg/L	22-Sep-12	EPA200.8
Copper	4.3	0.2	µg/L	22-Sep-12	EPA200.8
Iron	1600	5	µg/L	22-Sep-12	EPA200.8
Lead	< 0.1	0.1	µg/L	22-Sep-12	EPA200.8
Manganese	122	0.1	µg/L	22-Sep-12	EPA200.8
Mercury	0.02	0.01	µg/L	22-Sep-12	EPA200.8
Nickel	9.2	0.1	µg/L	22-Sep-12	EPA200.8
Zinc	11.9	0.4	µg/L	22-Sep-12	EPA200.8

**ReportDate:** Thursday, September 27, 2012  
**Print Date:** Thursday, September 27, 2012



**Taiga Environmental Laboratory**  
4601-52nd Ave., Box 1500, Yellowknife, NT. X1A 2R3  
Tel: (867)-669-2788 Fax: (867)-669-2718

**Taiga Batch No.:**  
**120843**

**- CERTIFICATE OF ANALYSIS -**

**Client Sample ID: GJO-4**

**Taiga Sample ID: 002**

**Client Project:**  
**Sample Type:** Unknown Water  
**Received Date:** 18-Sep-12  
**Sampling Date:** 17-Sep-12  
**Sampling Time:** 11:30  
**Location:** Gjoa Haven  
**Report Status:** Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifer
<b><u>Inorganics - Physicals</u></b>						
Alkalinity, Total (as CaCO <sub>3</sub> )	317	0.4	mg/L	20-Sep-12	SM2320:B	
Conductivity, Specific (@ 25°C)	989	0.4	µS/cm	20-Sep-12	SM2510:B	
pH	7.74		pH units	20-Sep-12	SM4500-H:B	
Solids, Total Suspended	4	3	mg/L	20-Sep-12	SM2540:D	
<b><u>Inorganics - Nutrients</u></b>						
Ammonia as Nitrogen	9.45	0.005	mg/L	24-Sep-12	SM4500-NH3:	
Biochemical Oxygen Demand	4	2	mg/L	18-Sep-12	SM5210:B	
Organic Carbon, Total	80.0	0.5	mg/L	20-Sep-12	SM5310:B	
<b><u>Major Ions</u></b>						
Calcium	41.7	0.1	mg/L	18-Sep-12	SM4110:B	
Chloride	130	0.7	mg/L	18-Sep-12	SM4110:B	
Hardness	233	0.7	mg/L	18-Sep-12	SM2340:B	
Magnesium	31.4	0.1	mg/L	18-Sep-12	SM4110:B	
Nitrate as Nitrogen	1.02	0.01	mg/L	18-Sep-12	SM4110:B	
Nitrite as Nitrogen	< 0.01	0.01	mg/L	18-Sep-12	SM4110:B	

**ReportDate:** Thursday, September 27, 2012  
**Print Date:** Thursday, September 27, 2012



**Taiga Environmental Laboratory**  
4601-52nd Ave., Box 1500, Yellowknife, NT. X1A 2R3  
Tel: (867)-669-2788 Fax: (867)-669-2718

**Taiga Batch No.:**  
**120843**

**- CERTIFICATE OF ANALYSIS -**

**Client Sample ID: GJO-4**

**Taiga Sample ID: 002**

Potassium	16.6	0.1	mg/L	18-Sep-12	SM4110:B
Sodium	109	0.1	mg/L	18-Sep-12	SM4110:B
Sulphate	8	1	mg/L	18-Sep-12	SM4110:B

**Microbiology**

Coliforms, Fecal	48	1	CFU/100mL	18-Sep-12	SM9222:D
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**Organics**

Oil and Grease, visible	Non-visible			21-Sep-12	Visual Exam
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**Trace Metals, Total**

Aluminum	30.2	0.6	µg/L	22-Sep-12	EPA200.8
Arsenic	6.3	0.2	µg/L	22-Sep-12	EPA200.8
Cadmium	< 0.05	0.05	µg/L	22-Sep-12	EPA200.8
Chromium	0.5	0.1	µg/L	22-Sep-12	EPA200.8
Cobalt	4.0	0.1	µg/L	22-Sep-12	EPA200.8
Copper	7.1	0.2	µg/L	22-Sep-12	EPA200.8
Iron	2540	5	µg/L	22-Sep-12	EPA200.8
Lead	< 0.1	0.1	µg/L	22-Sep-12	EPA200.8
Manganese	167	0.1	µg/L	22-Sep-12	EPA200.8
Mercury	0.01	0.01	µg/L	22-Sep-12	EPA200.8
Nickel	12.8	0.1	µg/L	22-Sep-12	EPA200.8
Zinc	0.8	0.4	µg/L	22-Sep-12	EPA200.8

**ReportDate:** Thursday, September 27, 2012  
**Print Date:** Thursday, September 27, 2012



## Taiga Environmental Laboratory

4601-52nd Ave., Box 1500, Yellowknife, NT. X1A 2R3

Tel: (867)-669-2788 Fax: (867)-669-2718

**Taiga Batch No.:**  
**120843**

### - CERTIFICATE OF ANALYSIS -

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**Client Sample ID:** GJO-4

**Taiga Sample ID:** 002

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**\* Taiga analytical methods are based on the following standard analytical methods**

SM - Standard Methods for the Examination of Water and Wastewater

EPA - United States Environmental Protection Agency

**ReportDate:** Thursday, September 27, 2012

**Print Date:** Thursday, September 27, 2012





**LABORATORY REPORT**  
**Stanton Territorial Hospital Laboratory**  
550 Byrne Road, P.O. Box 10  
Yellowknife, NT X1A 2N1  
Phone: 867-669-4163 Fax: 867-669-4141

Lab No. 20020178

Patient: GIOA HAVEN, HAMLET OF  
DOB: Age: 50 Sex: N  
HCN: Client ID: HX00000032  
Stanton Chart No:  
Pt. Phone: 8676694162  
Location: EHO - KITIKMEOT  
Room: Adm. Date: 05/12/11

Encounter: WX0000000032  
Attending Pract.: PHYSICIAN, NOT  
Requested by: PHYSICIAN, NOT  
Send to: KITIKMEOT REGIONAL ENGINEER  
Copy to: KITIKMEOT REGIONAL  
KITIKMEOT MUNICIPAL

Test, Water

**MICROBIOLOGY**

Requested on: 02/08/12 11:35

Status:

KITIKMEOT REGIONAL ENGINEER, KRI: Cambridge Bay N.L.

Source: Water truck H7660  
Order#: 20020178

Collected: 01/08/12 06:01  
Received: 02/08/12 11:39

No Date and/or Time of Collection Indicated.

**TOTAL COLIFORM & E.COLI TESTING (P/A \* FINAL  
COLILERT METHOD)**

03/08/12 15:01

03/08/12 **TOTAL COLIFORM: absent**  
**E.COLI: absent**

*Micro Key for Results: \* - New Results \*\* - Result was modified after Final status set*

SCC

STATUS  
Page 1 of 1

Printed: 08/03/12 14:09



**LABORATORY REPORT**  
**Stanton Territorial Hospital Laboratory**  
550 Byrne Road, P.O. Box 10  
Yellowknife, NT X1A 2N1  
Phone: 867-669-4163 Fax: 867-669-4141

Lab No. 20020181

Patient: CLIOA HAVEN, HAMLET OF  
DOB: Age: 50 Sex: N  
HCN: Client ID: HX00000032  
Stanton Chart No:  
Pt. Phone: 8676694162  
Location: EHO - KITIKMEOT  
Room: Adm. Date: 05/12/11

Encounter: WX0000000032  
Attending Pract.: PHYSICIAN, NOT  
Requested by: PHYSICIAN, NOT  
Send to: KITIKMEOT REGIONAL ENGINEER  
Copy to: KITIKMEOT REGIONAL  
KITIKMEOT MUNICIPAL

Test: Water

**MICROBIOLOGY**

Requested on: 02/08/12 11:40

Status: New Results

KITIKMEOT REGIONAL ENGINEER, KRI: Cambridge Bay NU,

Source: Water Truck# H7449  
Order#: 20020181

Collected: 01/08/12 00:01  
Received: 02/08/12 11:40

No Date and/or Time of Collection Indicated.

TOTAL COLIFORM & E.COLI TESTING (P/A \* FINAL.  
COLIFERT METHOD)

03/08/12 15:01

03/08/12 TOTAL COLIFORM: absent  
E.COLI: absent

Micro Key for Results: \* - New Results \*\* - Result was modified after Final status set

SCC

STATUS  
Page 1 of 1

Printed: 08/03/12 15:09



**LABORATORY REPORT**  
**Stanton Territorial Hospital Laboratory**  
550 Hymie Road, P.O. Box 10  
Yellowknife, NT X1A 2N1  
Phone: 867-669-4163 Fax: 867-669-4141

Lab No. 20020183

Patient: GJOA HAVEN, HAMLET OF  
DOB: Age: 50 Sex: M  
HCN: Client ID: HX00000032  
Stanton Chart No:  
Pt. Phone: 8676694162  
Location: EHO - KITIKMEOT  
Room Adm. Date: 05/12/11

Encounter: WX0000000032  
Attending Pract: PHYSICIAN, NOT  
Requested by: PHYSICIAN, NOT  
Send to: KITIKMEOT REGIONAL ENGINEER  
Copy to: KITIKMEOT REGIONAL  
KITIKMEOT MUNICIPAL

Test: Water

**MICROBIOLOGY**

Requested on: 02/08/12 11:41

KITIKMEOT REGIONAL ENGINEER, KRP - Cambridge Bay NU.

Source: Water PTH Return  
Order#: 20020183

Collected: 02/08/12 00:01  
Received: 02/08/12 11:41

No Date and/or Time of Collection Indicated.

TOTAL COLIFORM & E.COLI TESTING (P/A \* FINAL  
COLILERT METHOD)

03/08/12 15:01

03/08/12 TOTAL COLIFORM: absent  
E.COLI: absent

Micro Key for Results: \* - New Results \*\* - Result was modified after Final status set

SCC

STATUS  
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Printed: 08/03/12 15:09



**LABORATORY REPORT**  
**Stanton Territorial Hospital Laboratory**  
550 Byrne Road, P.O. Box 10  
Yellowknife, NT X1A 2N1  
Phone: 867-669-4163 Fax: 867-669-4141

Lab No: 20220332

Patient: GLIDA HAVEN, HAMLET OF  
DOB: Age: 50 Sex: N  
TCN: Client ID: HXG0000032  
Stanton Chart No:  
Pl. Phone: 8676694162  
Location: FHO - KITIKMEOT  
Room: Adm. Date: 05/12/11

Encounter: WX0000000032  
Attending Pract.: PHYSICIAN, NOT  
Requested by: PHYSICIAN, NOT  
Send to: KITIKMEOT REGIONAL ENGINEER  
Copy to: KITIKMEOT REGIONAL  
KITIKMEOT MUNICIPAL

Test: Water

**MICROBIOLOGY**

Requested on: 22/08/12 13:32

KITIKMEOT REGIONAL ENGINEER, KRF Cambridge Bay N.L.

Source: Lake Water Water Truck #7448  
Order#: 20220332

Collected: 20/08/12 13:32  
Received: 22/08/12 14:48

**TOTAL COLIFORM & E.COLI TESTING (P/A \* FINAL**  
**COLILERT METHOD)**

23/08/12 13:33

23/08/12 **TOTAL COLIFORM: absent**  
**E.COLI: absent**

Micro Key for Results: \* - New Results \*\* - Result was modified after Final status set

SCC

STATUS  
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Printed: 08/23/12 13:39





**LABORATORY REPORT**  
**Stanton Territorial Hospital Laboratory**

550 Byrne Road, P.O. Box 10

Yellowknife, NT X1A 2N1

Phone: 867-669-4163 Fax: 867-669-4141

Lab No: 20220333

Patient: GIOA HAVEN, HAMLET OF  
DOB: Age: 50 Sex: N  
HICN: Client ID: HX00000032  
Stanton Chart No:  
Pt. Phone: 8676694162  
Location: EHO - KITIKMEOT  
Room: Adm. Date: 05/12/11

Encounter: WX0000000032  
Attending Pract.: PHYSICIAN, NO1  
Requested by: PHYSICIAN, NO1  
Send to: KITIKMEOT REGIONAL ENGINEER  
Copy to: KITIKMEOT REGIONAL  
KITIKMEOT MUNICIPAL

Test: Water

**MICROBIOLOGY**

Requested on: 22/08/12 14:48

Status:

KITIKMEOT REGIONAL ENGINEER, KRE Cambridge Bay NU.

Source: Lake Water Water truck H7449

Collected: 20/08/12 13:32

Order#: 20220333

Received: 22/08/12 14:48

**TOTAL COLIFORM & E.COLI TESTING (P/A \* FINAL**  
**(MILLERT METHOD)**

23/08/12 13:33

23/08/12 **TOTAL COLIFORM: absent**  
**E.COLI: absent**

Micro Key for Results: \* - New Results \*\* - Result was modified after final status set

SCC

STATUS  
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**LABORATORY REPORT**  
**Stanton Territorial Hospital Laboratory**  
550 Byrne Road, P.O. Box 10  
Yellowknife, NT X1A 2N1  
Phone: 867-669-4163 Fax: 867-669-4141

Lab No: 20220331

Patient: GJOA HAVEN, HAMLET OF  
DOB: Age: 50 Sex: N  
HCN: Client ID: HX00000032  
Stanton Chart No:  
Pl. Phone: 8676694162  
Location: EHO - KITIKMEOT  
Room: Adm. Date: 05/12/11

Encounter: WX0000000032  
Attending Pract.: PHYSICIAN, NOT  
Requested by: PHYSICIAN NOT  
Send to: KITIKMEOT REGIONAL ENGINEER  
Copy to: KITIKMEOT REGIONAL  
KITIKMEOT MUNICIPAL

Test: Water

**MICROBIOLOGY**

Requested on: 20/08/12 13:32

Status:

KITIKMEOT REGIONAL ENGINEER, KRG - Cambridge Bay NU,

Source: Lake Water Water track ITT660  
Order#: 20220331

Collected: 20/08/12 13:32  
Received: 22/08/12 14:47

**TOTAL COLIFORM & E.COLI TESTING (T/A \* FINAL**  
**COLILERT METHOD)**

23/08/12 13:33

23/08/12 **TOTAL COLIFORM: absent**  
**E.COLI: absent**

Micro Key for Results: \* - New Results \*\* - Result was modified after Final status set

SCC

STATUS  
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