Indian and Northern Affairs Canada
Affaires indiennes et du Nord Canada

INAC-Water Resources
District Office
Box 100
Iqaluit, Nunavut
X0A 0H0

November 25, 2003 **NWB3BAK9904**

Dennis Zettler
Senior Administrative Officer
Hamlet of Baker Lake
P.O. Box 149
Baker Lake, NU
X0C 0A0

Re: Hamlet of Baker Lake Water Licence Inspection

The following report deals with the Water Licence Inspection conducted on August 8, 2003. I would like to thank Jeremy Singaqti for his time and assistance which allowed me to perform the inspection.

Overall, the Hamlet of Baker Lake appears to be working hard to meet the requirements of it's Water Licence. However, in the course of the Inspection problems were identified with respect to reporting and documentation, identification of municipal facilities, unreported sewage discharge, lagoon effluent, landfill leachate, hazardous waste storage and the Surveillance Network Program (SNP).

Potable Water - Baker Lake (Figure 1)
Baker Lake is not identified as the source of drinking water for the Hamlet of Baker Lake. There is a considerable amount of traffic on the lake and as the community grows so does the potential for contamination. Signs should be put up to inform the community that Baker Lake is the freshwater source for the community and it needs to be protected.

According to Mr Singaqti, the water pumped out of Baker Lake to the community is sampled monthly. The Nunavut Water Resources District Office in Iqaluit has not received the results of these analyses. The record keeping at the pumphouse is intermittent although it appears the daily water use is recorded. The water treatment plant is well maintained and Cl is measured daily as it flows to the water trucks (figure 2). The daily volumes of water delivered to the community are recorded at the pumphouse but these volumes are not tabulated to calculate the communities monthly or annual water use.

BAK-1
Water samples of the freshwater source were taken at the foot of the pumphouse on Baker Lake. All of the water sampled had results within Licenced Guidelines and the *Summary of Guidelines for Canadian Drinking Water Quality 2002.*

Sewage Lagoon (Figure 3)
There are obvious signs that the lagoon berm was washed out as new fill is evident and sewage solids (toilet paper) are evident below the new berm (Figure 4). There is no record of a spill occurring recently in Baker Lake so this spill and the subsequent repairs to the lagoon must have gone unreported. The lagoon is again close to overflowing with ~50cm of freeboard. Despite the replaced portion of the berm the lagoon is discharging continuously (Figure 5). The Hamlet is required to provide "a summary of modifications and/or major maintenance work carried out on the Water Supply and Waste Disposal Facilities". A washed out berm in the holding cell of the sewage disposal facility would definitely fall under this requirement. The area below the lagoon is well vegetated and in combination with the ponds and lakes between it and Baker Lake the effluent should be well treated.

BAK-2.
The sample location is just downstream of the first pond which is a catchment for the effluent leaving the lagoon. The results for BAK-2 exceeded Licenced Guidelines for Total Iron 1021ug/L >> 300ug/L *Canadian Water Quality Guidelines for the Protection of Aquatic Life 2002.* The samples also greatly exceeded the Canadian Guideline for phenol concentration 165ug/L>> 4.0ug/L. The elevated iron and phenol levels may be a result of runoff from the landfill which is very close to Finger Lake.

BAK-3
All results were within the limits of the Water Licence and the *Canadian Water Quality Guidelines for the Protection of Aquatic Life 2002.* However, the iron levels were very high with a concentration of 291ug/L only slightly less than the Guideline of 300ug/L.

BAK-4
Water samples taken at BAK-4 were very high in total iron with a concentration of 1860ug/L greatly exceeding the Canadian Guideline of 300ug/L. As this concentration is much greater than the concentration measured in Finger Lake the contamination may be coming from the old landfill site which is close by. Problems with leachate should have been addressed in an Abandonment and Restoration plan for the old site but I have found no evidence of an A&R plan.

The SNP is in place with annual sampling at the designated sampling stations. However, sampling is required to occur monthly during periods of flow (i.e. May to August inclusive) this has not occurred. Stations BAK-3 and BAK-4 are marked with rebar but each time a sign has been posted it has been vandalized. Stations BAK-1 and BAK-2 are not yet marked. In addition to the annual sampling performed by the Water Resource Officer, BAK-1 is required by the Water Licence to be sampled once annually during Fuel Barge delivery. This sampling has not been performed.

Landfill
A new landfill further from Baker Lake and closer to the sewage lagoon has recently been started. According to Jeremy Singaqti, waste is burned every day, weather permitting. The landfill has some segregation of materials (Figure 6) with the metals generally kept in one area. However, no containment exists for hazardous materials (i.e. batteries) and runoff from the landfill into Finger Lake is a concern. Steps need to be taken to control leachate and prevent it from entering Finger Lake.

Waste Oil
The Hamlet is doing a good job of dealing with waste oil through the operation of a waste oil burner to (Figure 7). The drums of waste oil stored outside the facility housing the burner were in good condition (Figure 8). No spills were visible at the site and the majority of drums are stored on pallets which will help prevent rust and leakage. The tank farm appears adequately bermed with no spills visible and no liner showing on the containment berm.

Non-compliance of the Act or Licence
The Hamlet of Baker Lake is yet to submit an Annual Report to the Nunavut Water Board. A report on all activities relating to the Water Licence is required no later than March 31, 2004. An Operation and Maintenance Manual has not been developed for municipal waste disposal facilities and an A&R plan has not been developed for the old landfill. Modifications were performed on the sewage lagoon after an unreported discharge and neither the discharge, nor the modifications were reported. A Spill Contingency Plan which was to be developed in accordance with *"Guidelines for Contingency Planning"*, January, 1987 and submitted within 6 months of the issuance of the Licence (October 1, 1999) has not been submitted. The Hamlet is also out of compliance with respect to its SNP, as samples need to be taken monthly during periods of flow. Results of sampling performed by the Water Resource Officer exceeded the Canadian Guidelines at BAK-2 and BAK-4.

If you have any questions or concerns please do not hesitate to contact me.

Sincerely,

Scott Stewart

Scott Stewart
Water Resource Officer
Field Operations
Nunavut Regional Office
Iqaluit, NU X0A 0H0
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Figure 1. Baker Lake, the source of potable water for the Hamlet of Baker Lake.

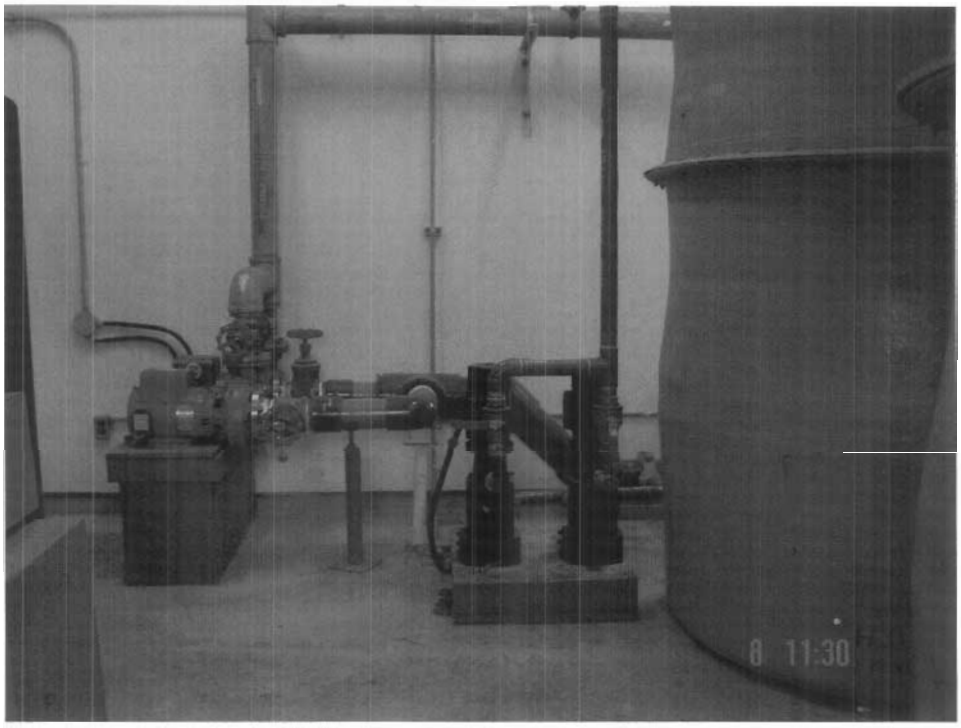

Figure 2. Inside the pumphouse of the treatment facility in the Hamlet of Baker Lake.

Figure 3. Sewage lagoon for the Hamlet of Baker Lake with wetland in background .

Figure 4. Washed out and replaced section of Hamlet of Baker Lake sewage lagoon.

Figure 5. Effluent flow which is continuously discharged from the Hamlet of Baker Lake sewage lagoon.

Figure 6. Burned material at new landfill showing lack of segregation in the Hamlet of Baker Lake landfill.

Figure 7. Waste oil container and burner in warehouse in the Hamlet of Baker Lake.

Figure 8. Stockpiled waste oil barrels in good condition in the Hamlet of Baker Lake.

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MUNICIPAL WATER USE INSPECTION REPORT

Date: August 14, 2003 **Licensee Rep. (Name/Title):** Dennis Zettler/ SAO

Licensee: Hamlet of Baker Lake **Licence No.:** NWB3BAK9904

WATER SUPPLY

Source(s): Baker Lake **Quantity used:** Not Calculated

Owner:/Operator: Hamlet of Baker Lake

Indicate: **A** - Acceptable **U** - Unacceptable **NA** - Not Applicable **NI** - Not Inspected

Intake Facilities: NI **Storage Structure:** A **Treatment Systems: A** **Chemical Storage:** A

Flow Meas. Device: A **Conveyance Lines:** NI **Pumping Stations:** A

Comments: There are no signs designating Baker Lake as the source of freshwater for the Hamlet but the facility is generally well maintained. Monthly and annual totals for water use are not calculated but the chlorine concentration upon delivery to the water trucks is measured and recorded.

WASTE DISPOSAL

Sewage: **Sewage Treatment System** (Prim./Sec/Ter.): **Primary**

Natural Water Body: **Continuous Discharge** (land or water): flows into water

Seasonal Discharge: X **Wetlands Treatment:** ~30m **Trench:**

Solid Waste: **Owner/Operator:** Hamlet of Baker Lake

Landfill: **Burn & Landfill:** X **Other:**

Indicate: **A** - Acceptable **U** - Unacceptable **NA** - Not Applicable **NI** - Not Inspected

Discharge Quality: Sampled **Decant Structure:** NA **Erosion:** A

Discharge Meas. Device: NIL **Dyke Inspection:** U **Seepages:** U

Dams, Dykes: A **Freeboard:** U **Spills:** yes (not reported)

Construction: NA **O&M Plan:** NA **A&R Plan:** NA

Periods of Discharge: A **Effluent Discharge Rate:** Not Measured

Comments:

FUEL STORAGE

Owner/Operator:

Indicate: **A** - Acceptable **U** - Unacceptable **NA** - Not Applicable **NI** - Not Inspected

Berms & Liners: A **Water within Berms:** A **Evidence of Leaks:** A

Drainage Pipes: U **Pump Station & Catchment Berm:** NA

Pipeline Condition: NI **Not Applicable:** **Condition of Tanks:** NI

SURVEILLANCE NETWORK PROGRAM (SNP)

Samples Collected **Hamlet:** unknown

INAC: potable water, sewage effluent, dump seepage

Signs Posted **SNP:** NIL **Warning:** NIL

Records & Reporting: U

Geotechnical Inspection: None Required

Non-Compliance of Act or Licence: According to the water licence issued by the Nunavut Water Board the Hamlet is out of compliance with respect to development of an Operation and Maintenance Manual, an Abandonment and Restoration Plan and a Spill Contingency Plan. Results of sampling will reveal whether or not the effluent continuously discharged from the lagoon is within Canadian Guidelines. It is of concern that the lagoon was washed out and this went unreported, even if the pond downstream of the lagoon is considered part of the sewage treatment facility.

Scott Stewart
Inspector's Name

Scott Stewart
Inspector's Signature

Peter Kusugak
Field Operations Manager

Manager's Signature

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Field Sheet
Bottle Order Form

Taiga Sample ID	Client Sample ID	Sample Type	Sampling Location	Sample Collect Date	Sample Received Date	Test Group Name	Lab Section	Parameter Name	Result Flag	Reported Result	Units	Calc MDL	Sample Result Qualifier	Analysis Result Qualifier	Analysis Date	Prep Method	M
232652	potable bak1	sewage	Hamlet of baker lake	8/8/03	8/12/03	Total Metals (8) by ICP-MS water	Metals, Total	Chromium		0.4	µg/L	0.3			8/18/03	Microwave	EP
232652	potable bak1	sewage	Hamlet of baker lake	8/8/03	8/12/03	Total Metals (8) by ICP-MS water	Metals, Total	Cobalt		0.1	µg/L	0.1			8/18/03	Microwave	EP
232652	potable bak1	sewage	Hamlet of baker lake	8/8/03	8/12/03	Total Metals (8) by ICP-MS water	Metals, Total	Copper		0.8	µg/L	0.2			8/18/03	Microwave	EP
232652	potable bak1	sewage	Hamlet of baker lake	8/8/03	8/12/03	Iron, Total	Metals, Total	Iron		90	µg/L	30			8/18/03	Microwave	SM
232652	potable bak1	sewage	Hamlet of baker lake	8/8/03	8/12/03	Total Metals (8) by ICP-MS water	Metals, Total	Lead		0.1	µg/L	0.1			8/18/03	Microwave	EP
232652	potable bak1	sewage	Hamlet of baker lake	8/8/03	8/12/03	Total Metals (8) by ICP-MS water	Metals, Total	Manganese		5.6	µg/L	0.1			8/18/03	Microwave	EP
232652	potable bak1	sewage	Hamlet of baker lake	8/8/03	8/12/03	Mercury, Total	Metals, Total	Mercury	<	0.01	µg/L	0.01			8/25/03	none	SM
232652	potable bak1	sewage	Hamlet of baker lake	8/8/03	8/12/03	Total Metals (8) by ICP-MS water	Metals, Total	Nickel		2.8	µg/L	0.1			8/18/03	Microwave	EP
232652	potable bak1	sewage	Hamlet of baker lake	8/8/03	8/12/03	Total Metals (8) by ICP-MS water	Metals, Total	Zinc	<	10	µg/L	10			8/18/03	Microwave	EP
232652	potable bak1	sewage	Hamlet of baker lake	8/8/03	8/12/03	Ammonia	Nutrients	Ammonia as N	<	0.005	mg/L	0.005			8/25/03	none	SM NH

232652	potable bak1	sewage	Hamlet of baker lake	8/8/03	8/12/03	Nitrates+Nitrites as N	Nutrients	Nitrate+Nitrite as N		0.009	mg/L	0.008		8/21/03	none	SM NC
232652	potable bak1	sewage	Hamlet of baker lake	8/8/03	8/12/03	Organic Carbon, Total	Nutrients	Organic Carbon, Total		3.4	mg/L	0.2		9/10/03	none	EP
232652	potable bak1	sewage	Hamlet of baker lake	8/8/03	8/12/03	Colour	Physicals	Colour	<	5		5		8/27/03	none	SM
232652	potable bak1	sewage	Hamlet of baker lake	8/8/03	8/12/03	Conductivity, Specific	Physicals	Conductivity, Specific		34.8	µS/cm	0.3		8/19/03	none	SM
232652	potable bak1	sewage	Hamlet of baker lake	8/8/03	8/12/03	pH	Physicals	pH		7.10	pH units	0.05		8/19/03	none	SM H:E
232652	potable bak1	sewage	Hamlet of baker lake	8/8/03	8/12/03	Solids, Total Suspended	Physicals	Solids, Total Suspended		4	mg/L	3		8/20/03	GF/C Filt.	SM
232653	sewage bak-2	sewage	Hamlet of Baker lk	8/8/03	8/12/03	Calcium	Major Ions	Calcium		12.6	mg/L	0.05		8/25/03	none	SM
232653	sewage bak-2	sewage	Hamlet of Baker lk	8/8/03	8/12/03	Magnesium	Major Ions	Magnesium		1.75	mg/L	0.02		8/25/03	none	SM
232653	sewage bak-2	sewage	Hamlet of Baker lk	8/8/03	8/12/03	Potassium	Major Ions	Potassium		1.83	mg/L	0.03		8/20/03	none	SM K:D
232653	sewage bak-2	sewage	Hamlet of Baker lk	8/8/03	8/12/03	Sodium	Major Ions	Sodium		7.60	mg/L	0.02		8/20/03	none	SM Na

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232651	Base	sewage	Arviat	8/7/03	8/12/03	Turbidity	Physicals	Turbidity		6.8	NTU	0.1	8/20/03	none	SM
232652	potable bak1	sewage	Hamlet of baker lake	8/8/03	8/12/03	Calcium	Major Ions	Calcium		3.17	mg/L	0.05	8/19/03	none	SM
232652	potable bak1	sewage	Hamlet of baker lake	8/8/03	8/12/03	Magnesium	Major Ions	Magnesium		1.18	mg/L	0.02	8/19/03	none	SM
232652	potable bak1	sewage	Hamlet of baker lake	8/8/03	8/12/03	Potassium	Major Ions	Potassium		0.50	mg/L	0.03	8/20/03	none	SM K:[
232652	potable bak1	sewage	Hamlet of baker lake	8/8/03	8/12/03	Sodium	Major Ions	Sodium		0.83	mg/L	0.02	8/20/03	none	SM Na
232652	potable bak1	sewage	Hamlet of baker lake	8/8/03	8/12/03	Sulphate	Major Ions	Sulphate	<	3	mg/L	3	8/20/03	none	SM SO
232652	potable bak1	sewage	Hamlet of baker lake	8/8/03	8/12/03	Arsenic, Total in water	Metals, Total	Arsenic	<	1	µg/L	1	8/18/03	Microwave	SM
232652	potable bak1	sewage	Hamlet of baker lake	8/8/03	8/12/03	Total Metals (8) by ICP-MS water	Metals, Total	Cadmium	<	0.1	µg/L	0.1	8/18/03	Microwave	EP

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Field Sheet
Bottle Order Form

Taiga Sample ID	Client Sample ID	Sample Type	Sampling Location	Sample Collect Date	Sample Received Date	Test Group Name	Lab Section	Parameter Name	Result Flag	Reported Result	Units	Calc MDL	Sample Result Qualifier	Analysis Result Qualifier	Analysis Date	Prep Method
232653	sewage bak-2	sewage	Hamlet of Baker lk	8/8/03	8/12/03	Sulphate	Major Ions	Sulphate		12	mg/L	3			8/20/03	none
232653	sewage bak-2	sewage	Hamlet of Baker lk	8/8/03	8/12/03	Arsenic, Total in water	Metals, Total	Arsenic		1	µg/L	1			8/18/03	Microwave
232653	sewage bak-2	sewage	Hamlet of Baker lk	8/8/03	8/12/03	Iron, Total	Metals, Total	Iron		1021	µg/L	30			8/18/03	Microwave
232653	sewage bak-2	sewage	Hamlet of Baker lk	8/8/03	8/12/03	Mercury, Total	Metals, Total	Mercury	<	0.01	µg/L	0.01			8/25/03	none
232653	sewage bak-2	sewage	Hamlet of Baker lk	8/8/03	8/12/03	Ammonia	Nutrients	Ammonia as N		0.027	mg/L	0.005			8/25/03	none
232653	sewage bak-2	sewage	Hamlet of Baker lk	8/8/03	8/12/03	Chemical Oxygen Demand	Nutrients	Chemical Oxygen Demand		40	mg/L	1			8/26/03	none
232653	sewage bak-2	sewage	Hamlet of Baker lk	8/8/03	8/12/03	Nitrates+Nitrites as N	Nutrients	Nitrate+Nitrite as N		0.563	mg/L	0.008			8/21/03	none
232653	sewage bak-2	sewage	Hamlet of Baker lk	8/8/03	8/12/03	Organic Carbon, Total	Nutrients	Organic Carbon, Total		7.6	mg/L	0.2			9/10/03	none
232653	sewage bak-2	sewage	Hamlet of Baker lk	8/8/03	8/12/03	Conductivity, Specific	Physicals	Conductivity, Specific		130	µS/cm	0.3			8/19/03	none
232653	sewage bak-2	sewage	Hamlet of Baker lk	8/8/03	8/12/03	pH	Physicals	pH		7.25	pH units	0.05			8/19/03	none
232653	sewage bak-2	sewage	Hamlet of Baker lk	8/8/03	8/12/03	Solids, Total Suspended	Physicals	Solids, Total Suspended		4	mg/L	3			8/20/03	GF/C Filt.
232653	sewage bak-2	sewage	Hamlet of Baker lk	8/8/03	8/12/03	Phenols	Subcontracted Organics	Phenols		165	µg/L	0.5			8/21/03	none
232654	seep bak-3	sewage	Hamlet of baker lake	8/8/03	8/12/03	Calcium	Major Ions	Calcium		5.98	mg/L	0.05			8/19/03	none

232654	seep bak-3	sewage	Hamlet of baker lake	8/8/03	8/12/03	Magnesium	Major Ions	Magnesium		1.16	mg/L	0.02	8/19/03	none
232654	seep bak-3	sewage	Hamlet of baker lake	8/8/03	8/12/03	Potassium	Major Ions	Potassium		0.85	mg/L	0.03	8/20/03	none
232654	seep bak-3	sewage	Hamlet of baker lake	8/8/03	8/12/03	Sodium	Major Ions	Sodium		3.22	mg/L	0.02	8/20/03	none
232654	seep bak-3	sewage	Hamlet of baker lake	8/8/03	8/12/03	Sulphate	Major Ions	Sulphate	<	3	mg/L	3	8/20/03	none
232654	seep bak-3	sewage	Hamlet of baker lake	8/8/03	8/12/03	Arsenic, Total in water	Metals, Total	Arsenic		2	µg/L	1	8/18/03	Microwave
232654	seep bak-3	sewage	Hamlet of baker lake	8/8/03	8/12/03	Total Metals (8) by ICP-MS water	Metals, Total	Cadmium		0.1	µg/L	0.1	8/18/03	Microwave
232654	seep bak-3	sewage	Hamlet of baker lake	8/8/03	8/12/03	Total Metals (8) by ICP-MS water	Metals, Total	Chromium		1.2	µg/L	0.3	8/18/03	Microwave

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232654	seep bak-3	sewage	Hamlet of baker lake	8/8/03	8/12/03	Total Metals (8) by ICP-MS water	Metals, Total	Cobalt		0.2	µg/L	0.1			8/18/03	Microwave	EP
232654	seep bak-3	sewage	Hamlet of baker lake	8/8/03	8/12/03	Total Metals (8) by ICP-MS water	Metals, Total	Copper		1.9	µg/L	0.2			8/18/03	Microwave	EP
232654	seep bak-3	sewage	Hamlet of baker lake	8/8/03	8/12/03	Iron, Total	Metals, Total	Iron		291	µg/L	30			8/18/03	Microwave	SM
232654	seep bak-3	sewage	Hamlet of baker lake	8/8/03	8/12/03	Total Metals (8) by ICP-MS water	Metals, Total	Lead		1.2	µg/L	0.1			8/18/03	Microwave	EP
232654	seep bak-3	sewage	Hamlet of baker lake	8/8/03	8/12/03	Total Metals (8) by ICP-MS water	Metals, Total	Manganese		29.1	µg/L	0.1			8/18/03	Microwave	EP
232654	seep bak-3	sewage	Hamlet of baker lake	8/8/03	8/12/03	Mercury, Total	Metals, Total	Mercury	<	0.01	µg/L	0.01			8/25/03	none	SM
232654	seep bak-3	sewage	Hamlet of baker lake	8/8/03	8/12/03	Total Metals (8) by ICP-MS water	Metals, Total	Nickel		1.5	µg/L	0.1			8/18/03	Microwave	EP
232654	seep bak-3	sewage	Hamlet of baker lake	8/8/03	8/12/03	Total Metals (8) by ICP-MS water	Metals, Total	Zinc		15	µg/L	10			8/18/03	Microwave	EP
232654	seep bak-3	sewage	Hamlet of baker lake	8/8/03	8/12/03	Ammonia	Nutrients	Ammonia as N		0.113	mg/L	0.005			8/25/03	none	SM NH
232654	seep bak-3	sewage	Hamlet of baker lake	8/8/03	8/12/03	Chemical Oxygen Demand	Nutrients	Chemical Oxygen Demand		25	mg/L	1			8/26/03	none	SM

232654	seep bak-3	sewage	Hamlet of baker lake	8/8/03	8/12/03	Nitrates+Nitrites as N	Nutrients	Nitrate+Nitrite as N		0.013	mg/L	0.008	8/21/03	none	SM NC
232654	seep bak-3	sewage	Hamlet of baker lake	8/8/03	8/12/03	Conductivity, Specific	Physicals	Conductivity, Specific		66.9	µS/cm	0.3	8/19/03	none	SM
232654	seep bak-3	sewage	Hamlet of baker lake	8/8/03	8/12/03	pH	Physicals	pH		7.08	pH units	0.05	8/19/03	none	SM H:E
232654	seep bak-3	sewage	Hamlet of baker lake	8/8/03	8/12/03	Solids, Total Suspended	Physicals	Solids, Total Suspended	<	3	mg/L	3	8/20/03	GF/C Filt.	SM
232655	seep bak-4	sewage	Hamlet of baker lake	8/8/03	8/12/03	Calcium	Major Ions	Calcium		8.49	mg/L	0.05	8/19/03	none	SM
232655	seep bak-4	sewage	Hamlet of baker lake	8/8/03	8/12/03	Magnesium	Major Ions	Magnesium		1.60	mg/L	0.02	8/19/03	none	SM
232655	seep bak-4	sewage	Hamlet of baker lake	8/8/03	8/12/03	Potassium	Major Ions	Potassium		2.80	mg/L	0.03	8/20/03	none	SM K:D
232655	seep bak-4	sewage	Hamlet of baker lake	8/8/03	8/12/03	Sodium	Major Ions	Sodium		12.1	mg/L	0.02	8/20/03	none	SM Na
232655	seep bak-4	sewage	Hamlet of baker lake	8/8/03	8/12/03	Sulphate	Major Ions	Sulphate		9	mg/L	3	8/20/03	none	SM SO
232655	seep bak-4	sewage	Hamlet of baker lake	8/8/03	8/12/03	Arsenic, Total in water	Metals, Total	Arsenic		1	µg/L	1	8/18/03	Microwave	SM

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Prior visitors may wish to visit the following forms directly (Adobe Acrobat Reader required):

Field Sheet
Bottle Order Form

Taiga Sample ID	Client Sample ID	Sample Type	Sampling Location	Sample Collect Date	Sample Received Date	Test Group Name	Lab Section	Parameter Name	Result Flag	Reported Result	Units	Calc MDL	Sample Result Qualifier	Analysis Result Qualifier	Analysis Date	Prep Method	
232655	seep bak-4	sewage	Hamlet of baker lake	8/8/03	8/12/03	Total Metals (8) by ICP-MS water	Metals, Total	Cadmium	<	0.1	µg/L	0.1			8/18/03	Microwave	E
232655	seep bak-4	sewage	Hamlet of baker lake	8/8/03	8/12/03	Total Metals (8) by ICP-MS water	Metals, Total	Chromium		1.9	µg/L	0.3			8/18/03	Microwave	E
232655	seep bak-4	sewage	Hamlet of baker lake	8/8/03	8/12/03	Total Metals (8) by ICP-MS water	Metals, Total	Cobalt		0.4	µg/L	0.1			8/18/03	Microwave	E
232655	seep bak-4	sewage	Hamlet of baker lake	8/8/03	8/12/03	Total Metals (8) by ICP-MS water	Metals, Total	Copper		5.5	µg/L	0.2			8/18/03	Microwave	E
232655	seep bak-4	sewage	Hamlet of baker lake	8/8/03	8/12/03	Iron, Total	Metals, Total	Iron		1860	µg/L	30			8/25/03	Microwave	S
232655	seep bak-4	sewage	Hamlet of baker lake	8/8/03	8/12/03	Total Metals (8) by ICP-MS water	Metals, Total	Lead		3.1	µg/L	0.1			8/18/03	Microwave	E
232655	seep bak-4	sewage	Hamlet of baker lake	8/8/03	8/12/03	Total Metals (8) by ICP-MS water	Metals, Total	Manganese		75.3	µg/L	0.1			8/18/03	Microwave	E
232655	seep bak-4	sewage	Hamlet of baker lake	8/8/03	8/12/03	Mercury, Total	Metals, Total	Mercury	<	0.01	µg/L	0.01			8/25/03	none	S
232655	seep bak-4	sewage	Hamlet of baker lake	8/8/03	8/12/03	Total Metals (8) by ICP-MS water	Metals, Total	Nickel		2.7	µg/L	0.1			8/18/03	Microwave	E
232655	seep bak-4	sewage	Hamlet of baker lake	8/8/03	8/12/03	Total Metals (8) by ICP-MS water	Metals, Total	Zinc	<	10	µg/L	10			8/18/03	Microwave	E

232655	seep bak-4	sewage	Hamlet of baker lake	8/8/03	8/12/03	Ammonia	Nutrients	Ammonia as N	2.97	mg/L	0.005		8/25/03	none
232655	seep bak-4	sewage	Hamlet of baker lake	8/8/03	8/12/03	Chemical Oxygen Demand	Nutrients	Chemical Oxygen Demand	50	mg/L	1		8/26/03	none
232655	seep bak-4	sewage	Hamlet of baker lake	8/8/03	8/12/03	Nitrates+Nitrites as N	Nutrients	Nitrate+Nitrite as N	0.682	mg/L	0.008		8/21/03	none
232655	seep bak-4	sewage	Hamlet of baker lake	8/8/03	8/12/03	Organic Carbon, Total	Nutrients	Organic Carbon, Total	13.5	mg/L	0.2		9/10/03	none
232655	seep bak-4	sewage	Hamlet of baker lake	8/8/03	8/12/03	Conductivity, Specific	Physicals	Conductivity, Specific	157	µS/cm	0.3		8/19/03	none
232655	seep bak-4	sewage	Hamlet of baker lake	8/8/03	8/12/03	pH	Physicals	pH	6.82	pH units	0.05		8/19/03	none
232655	seep bak-4	sewage	Hamlet of baker lake	8/8/03	8/12/03	Solids, Total Suspended	Physicals	Solids, Total Suspended	6	mg/L	3		8/20/03	GF/C Filt.
232656	Baker Lk Source	freshwater	Baker Lake	8/8/03	8/12/03	Calcium	Major Ions	Calcium	3.28	mg/L	0.05		8/19/03	none
232656	Baker Lk Source	freshwater	Baker Lake	8/8/03	8/12/03	Chloride	Major Ions	Chloride	1.6	mg/L	0.2		8/19/03	none
232656	Baker Lk Source	freshwater	Baker Lake	8/8/03	8/12/03	Magnesium	Major Ions	Magnesium	1.19	mg/L	0.02		8/19/03	none

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