

Lac Seul First Nation (Band No. 205)

Date of Visit: No visit – refused to participate in this study

Site Address: Kejick Bay, ON P0T 2L0

Phone No.: 807 582-3211 **Fax No.:** 807 582-3493

Tribal Council Affiliation: Independent First Nations Alliance

Operator:

Location: The Lac Seul First Nations community is located approximately 15 km west of Sioux Lookout

Population: 746 people in the community (November 2000 – INAC)

No. of Units: 199 houses in the community (CAIS)

1.0 Description of the Community Water Supply

Based on the CAIS report, and information supplied to OCWA, water to the houses in the Lac Seul community is treated as follows:

- 641 people use piped water
- 105 people have no services

- 171 houses are serviced by a communal water system; and
- 28 houses have no services.

2.0 Description of the Community Sewage Facilities

Based on the information supplied to OCWA, sewage from the houses in the Lac Seul community is treated as follows:

- 641 people use piped sewage
- 105 people have no services

- 171 houses are serviced by a communal sewage system; and
- 28 houses have no services.

Reason for No Visit

Mel Barber, the Technical Advisor, despite several attempts, was unable to schedule an inspection of the Lac Seul First Nation community.

Health Canada has confirmed that, in January 2001, a boil water advisory was issued on the community in the Frenchman's Head area.

3.0 Overall Assessment for Communal Water Treatment Supply

The questionnaire developed by PWGSC required OCWA to undertake a risk assessment of the Water Source, Design, Operation, Reporting, and Operators. To properly assess these areas, a visit to the water treatment facilities would be required.

OCWA was requested to undertake the evaluation without a visit to the site. With the available information, OCWA has undertaken the requested assessment of the facilities.

The ranking system used is as follows:

- 0 = Not enough information to assess
- 1-4 = Low Risk
- 5-7 = Medium Risk
- 8-10 = High Risk

For more detailed information on the Risk Assessment used see the Terms of Reference, Appendix B.

SECTION Water	SECTION RANKING Water	RISK Water
A. Water Source		
Biological	0	No lab results
Chemical	0	No lab results
Physical	0	No lab results
Overall Ranking for Water Source	0	
B. Design		
Biological	1	No exceedances
Chemical	6	Aluminum exceedance
Physical	6	Hardness exceedance
Risk to Public Health	8	Boil water advisory
Condition of Laboratory Equipment	0	Not inspected
Overall Ranking for Design	6	
C. Operations		
Reservoir Cleanliness	0	Not inspected
Emergency Plan	0	No data
Overall Ranking for Operations	0	
D. Reporting		
Ranking for Laboratories and Testing	0	No data
Ranking for Boil Water Advisories	8	No treatment. Also, it was found that there were heavy fuel contamination in the well and the water is not potable.
Overall Ranking for Reporting	8	

SECTION Water	SECTION RANKING Water	RISK Water
E. Operators		
Overall Ranking for Operators	0	No data
F. Statistical Data		
Overall Ranking for Individual Wells	0	No data
Overall Ranking for the System	8	High Risk

4.0 Overall Assessment for Communal Sewage Treatment Facilities

The questionnaire developed by PWGSC required OCWA to undertake a risk assessment of the Effluent Receiver, Design, Operation, Reporting, and Operators. To properly assess these areas, a visit to the sewage treatment facility would be required.

OCWA was requested to undertake the evaluation without a visit to the site. With the available information, OCWA has undertaken the requested assessment of the facilities.

The ranking system used is as follows:

- 0 = Not enough information to assess
- 1-4 = Low Risk
- 5-7 = Medium Risk
- 8-10 = High Risk

For more detailed information on the Risk Assessment used see the Terms of Reference, Appendix B.

SECTION Sewage	SECTION RANKING Sewage	RISK Sewage
A. Effluent Receiver		
Overall Ranking for Effluent Receiver	0	
B. Design		
Quality of Treated Effluent	8	E.Coli and total phosphorus exceedances.
Ranking of Design of Sewage Plant	0	
Ranking of Concerns and Hazards within the Plant	0	
Condition of Laboratory Equipment	0	
Overall Ranking for Design	0	
C. Operations		
Ranking for Emergency Plan	0	
Overall Ranking for Operations	0	
D. Reporting		
Overall Ranking for Reporting	0	
E. Operators		
Overall Ranking for Operators	0	
F. Statistical Data		
Overall Ranking for Individual Septic Tanks	0	
Overall Ranking for the Systems	8	High Risk

5.0 Communal Water Treatment Supply (171 houses)

5.1 Water Source

No information was available because the community was unable to schedule an inspection.

5.2 Design

No information was available because the community was unable to schedule an inspection.

Six treated water samples were available from Health Canada in Sioux Lookout:

Sample Date	Sample Received	Location	Exceedances	Result	GCDWQ limit	Notes
Oct. 17, 2000	Oct. 19, 2000	Nursing Clinic	Aluminum	0.54 mg/L	0.10 mg/L (OG)	
			Hardness	169 mg/L	80 to 100 mg/L (OG)	
Oct. 17, 2000	Oct. 19, 2000	Tourist Camp	Hardness	5 mg/L	80 to 100 mg/L (OG)	The sample was expired for turbidity and pH upon receipt
Jan. 10, 2001	Jan. 11, 2001	Nursing Clinic	Hardness	205 mg/L	80 to 100 mg/L (OG)	The sample was expired for turbidity and pH upon receipt
Mar. 20, 2001	Mar. 22, 2001	School Sample	Hardness	178 mg/L	80 to 100 mg/L (OG)	The sample was expired for turbidity and pH upon receipt
June 6, 2001	Jun. 8, 2001	School Sample	Hardness	170 mg/L	80 to 100 mg/L (OG)	
June 6, 2001	Jun. 8, 2001	Clinic Sample	Hardness	170 mg/L	80 to 100 mg/L (OG)	

AO = aesthetic objective, OG = operational guideline

5.3 Operations

No information was available because the community was unable to schedule an inspection.

5.4 Reporting

No information was available because the community was unable to schedule an inspection.

Health Canada has issued a boil water advisory in 1999 because it was an old system with a combination of lake and well water with no treatment. Also, it was found that there were heavy fuel contamination in

the well and the water is not potable. A new plant has been constructed on September 30, 2001 but is still under going commissioning.

The following bacteriological tests were available from Health Canada:

Date	Result
April 25, 2000	4 safe samples with no coliforms present 4 unsafe samples with coliforms present
May 10, 2000	3 safe samples with no coliforms present 1 unsafe sample with coliforms present

5.5 Operators

No information was available because the community was unable to schedule an inspection.

6.0 Communal Sewage Treatment Facilities (171 houses)

6.1 Effluent Receiver

No information was available because the community was unable to schedule an inspection.

6.2 Design

No information was available because the community was unable to schedule an inspection.

The following table summarizes effluent samples available from Health Canada

Date	Location	Exceedances	Result	Guidelines for Effluent Quality and Wastewater Treatment at Federal Establishments
Aug. 23, 2001	Treated Effluent	E. Coli	1440 per 100 mL	400 per 100 mL
Oct. 1, 2001	Treated Effluent	Total Phosphorus	4.3 mg/L	1.0 mg/L
Oct. 16, 2001	Treated Effluent	Total Phosphorus	3.87 mg/L	1.0 mg/L
Nov. 14, 2001	Treated Effluent	pH	5.46	6 to 9
		Total Phosphorus	2.15 mg/L	1.0 mg/L
Dec. 3, 2001	Treated Effluent	Total Phosphorus	4.46 mg/L	1.0 mg/L
		E. Coli	660 per 100 mL	400 per 100 mL

6.3 Operations

No information was available because the community was unable to schedule an inspection.

6.4 Reporting

No information was available because the community was unable to schedule an inspection.

6.5 Operators

No information was available because the community was unable to schedule an inspection.