

**Assessment Studies of
Water and Wastewater Systems
and Associated Water Management Practices
at Pabineau First Nation
Pabineau, NB (Site #06018)
Atlantic Region**

For
Indian and Northern Affairs Canada
Atlantic Region

By
MGI Limited
Fredericton, NB

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1.0 Overview

MGI Limited was retained by Public Works & Government Services Canada on behalf of Indian and Northern Affairs Canada to conduct an inspection of the water and wastewater system of the Pabineau First Nation community located in Pabineau, NB. As homes in the community obtain their potable water supply by either private wells and/or a community water supply and individual septic systems for sewage services the following methodology was used:

- 1) Review of available data from Indian and Northern Affairs Canada and Health Canada;
- 2) Liaison with Pabineau First Nation community representative to schedule a site visit;
- 3) Site visit and interview with community representative (i.e. Chief, Community Health Representative, etc.);
- 4) Physical inspection of community infrastructure;
- 5) Discussion with local well driller and septic system installers on general bedrock conditions, water levels, where necessary to obtain supplementary information;
- 6) Draft and final report preparation discussing risks and possible mitigation if necessary.

Provided below is background information on the Pabineau First Nation Community.

Date of Visit:	December 11, 2001
Inspector(s)/Interviewer(s):	Troy Small
Site Address:	1290 Pabineau Falls Road, Pabineau First Nation, NB, E2A 7M3
Phone #:	506-548-9211
Fax#:	506-548-5494
Tribal Council Affiliation:	North Shore Micmac District Tribal Council
Chief:	Benjamin Peter Paul
Location:	Pabineau, NB
Population:	~200
# Housing Units:	~50

2.0 Water System Findings

At the time of the site visit the Chief (Benjamin Paul) was not available for interview. Chief Paul reportedly is responsible for operating and maintaining the water and septic systems in the community. After several attempts Chief Paul was contacted by telephone on March 7, 2002 to discuss the community water and wastewater systems. At this time it was noted that Mr. Paul was no longer the acting Band Chief and a community election is scheduled for April 2002.

2.1 Water Source and Design

The majority of the community is located in the Pabineau Falls Road area that receives its potable water from a community well and/or private residential wells. The main portion of the community (Pabineau Falls area) has approximately 23 homes with private potable water wells and approximately 11 homes serviced by a community well that distributes potable water via distribution mains that are maintained by the community. It was also noted that several of the 23 homes with private wells are also connected to the community water well. Another portion of the community located east of Route 430 in the Sewell Street

area has 16 homes that obtain their potable water from on-site private potable water wells. The community well is located approximately ten metres west of the Nepisiguit River at the end of Riverview Street. A vacant camp is located approximately five to ten metres from the well. The septic drainage field for the camp is reportedly located 20 metres north of the community well. The community well was originally 150 mm in diameter and was only intended to serve one residence. The year the well was originally constructed or the drilling contractor is not known. In approximately 1991/1992 Green's Well Drilling was contracted to develop the well for community usage. The existing well is 250 mm in diameter, approximately 29 metres in depth with 7.5 metres of steel casing and reportedly yielded 15 IGPM at the time of construction. The well has a 0.5 metre aboveground wellhead and locking cover. At the time of the site visit the well casing cover was locked but a large crack was observed in the cover. The well is situated inside a concrete culvert which is not locked and covered with a plastic tarp and rocks/wood debris. Surface water or vegetation was not observed inside of the concrete culvert. The community water supply is not disinfected and emergency disinfection units are not available. However, Health Canada has recommended to the band that an emergency disinfection unit (chlorination unit) should be installed on the system in the event of bacterial contamination (Health Canada letter dated October 19, 2001). It should be noted that on November 2, 2001 the band issued a request to INAC to obtain funding for the installation of a chlorination unit as per Health Canada recommendations.

Water from the community well is pumped to an adjacent pumphouse (located approximately 50 metres to the east) equipped with a hydro pneumatic tank (450 litre capacity). The pumphouse distributes the water throughout the community via water lines that were installed in approximately 1995/1996. The pumphouse was not locked at the time of the site visit and there is no alarm in the event of a well pump malfunction. There is no groundwater protection area identified or enforced and there are also several homes with private septic systems located approximately 200 metres upgradient of the community well. It was noted during the site visit that water yields from the community water well and private wells are not sufficient during dry periods to meet community water demands.

A review of available Health Canada raw bacterial water quality data from the community well noted the periodic presence of total coliform bacteria usually below GCDWQ guidelines (below ten counts) from 1995 to 2000. However, in October of 2001 the presence of total coliform bacteria above GCDWQ guidelines (above ten counts) was identified in the community potable water supply. Health Canada subsequently issued a boil water advisory and water line flushing recommendation to the band on October 9, 2001. The boil order was rescinded on November 29, 2001 following two consecutive negative results for the presence of coliform bacteria. Recent raw chemical water quality data (2000/200) noted that the community water supply exceeds the GCDWQ maximum allowable and interim maximum allowable chemical concentrations (MAC / IMAC) guidelines for barium and the aesthetic objectives of hardness, iron and manganese. There have been isolated occurrences of colour, turbidity and pH in the distribution system at concentrations that exceed aesthetic objectives. The high risk rating is due to lack of continuous disinfection given the historical presence of total coliform bacteria in the distribution system and the recurring aesthetic objectives and barium levels that exceed GCDWQ guidelines.

A review of the available Health Canada data from private wells in the community noted the periodic presence of coliform bacteria at approximately four residences in the community. It was also noted that boil water advisories for two private wells were issued in 2001 following the presence of total coliform bacteria exceeding GCDWQ guidelines. In addition, Health Canada recommended that these potable water wells be disinfected using sodium hypochlorite (regular household Javex) as per Health Canada

It was noted during the site visit that starting approximately January/February 2002 a community representative will be collecting water samples from the distribution system on a weekly basis and conducting bacterial analyses on-site using a Coli-Lert unit. Health Canada will continue to collect water samples from the community on a monthly basis for analyses at an off-site certified laboratory as quality control.

The Pabineau First Nation community currently does not have a designated person responsible for the maintenance/operation of the water system. The former Chief (Benjamin Paul) historically took responsibility for maintaining and operating the system. However, due to the impending Band election the community currently does not have personnel responsible for the system. The former Chief noted that he operated the community water system (flushed hydrants) since it was installed in the early to mid 1990s. However, it was also noted that a licensed contractor was contacted to conduct any required system maintenance. The fact that the community currently does not have personnel directly responsible and trained to operate/maintain the community system represents a high risk situation.

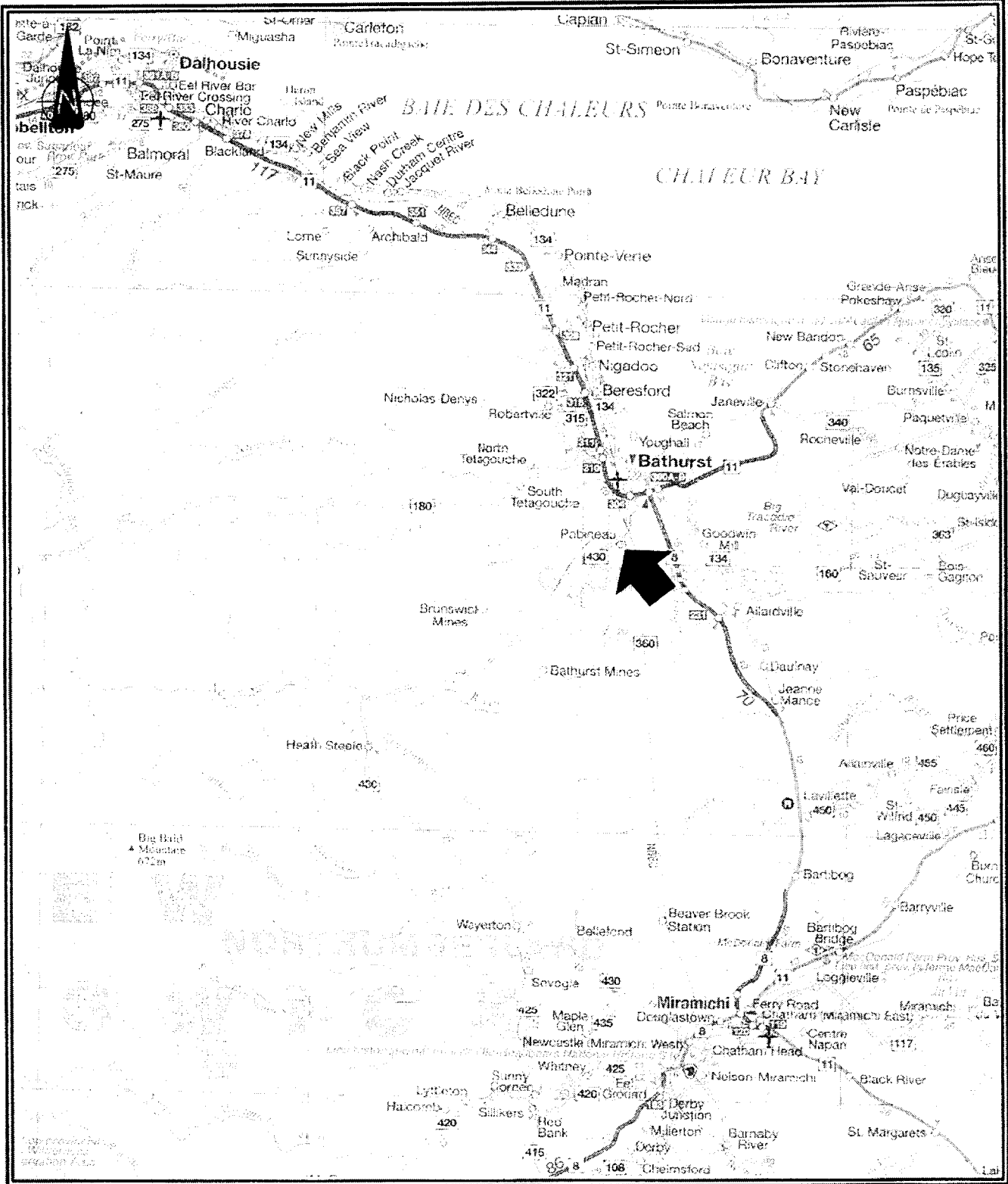
3.0 Wastewater System Findings


3.1 Wastewater Collection and Treatment

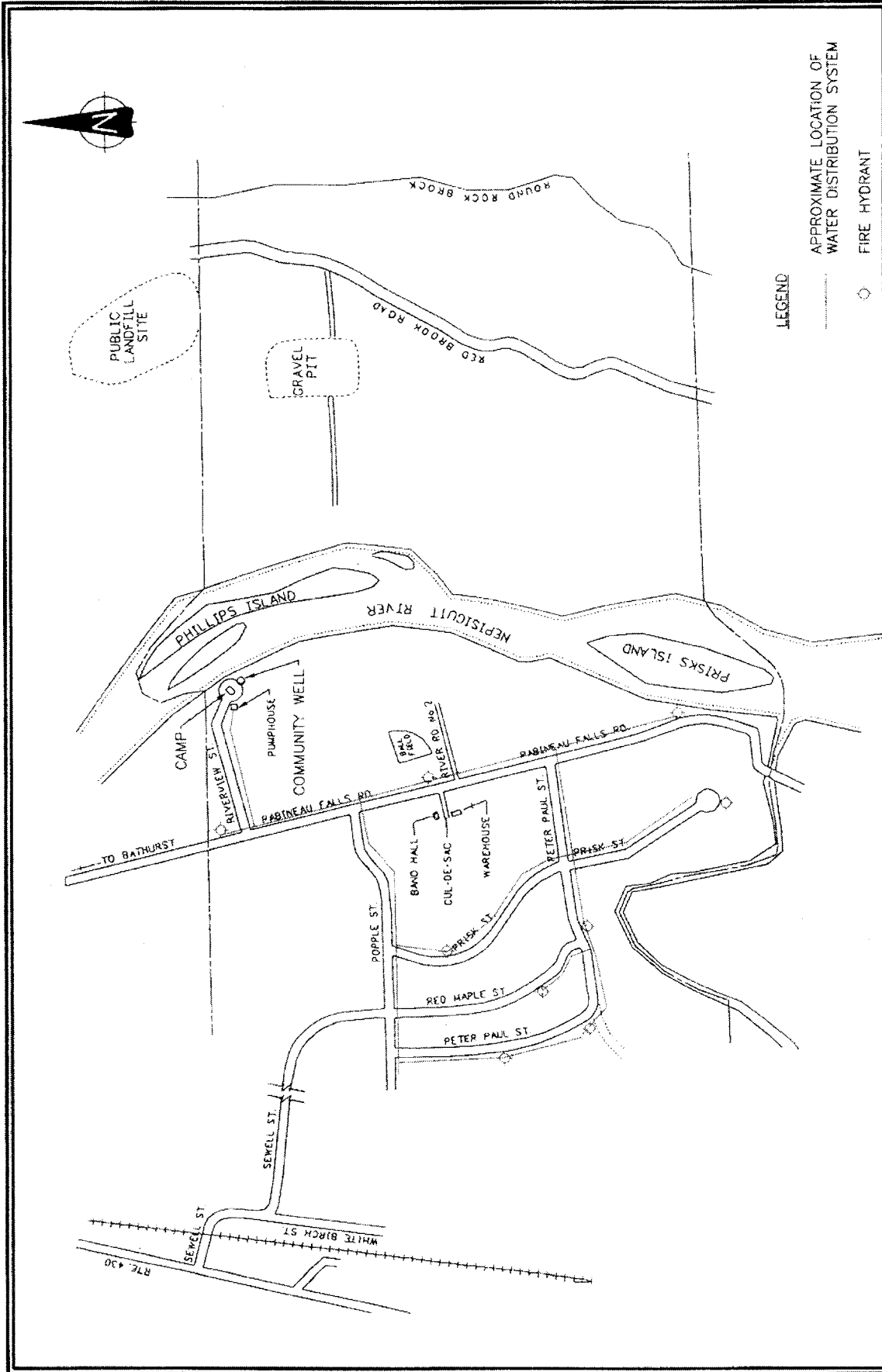
All of the 50 homes in the community have private septic systems. The former Chief was also responsible for the installation and maintenance of the private septic systems in the community. He noted that septic systems in the community are constructed by a licensed contractor and Health Canada designs and inspects any new septic system installations or upgrades. Individual septic systems in the community range from less than one year old to 20 years in age. Health Canada noted that soil conditions in the community are predominately loam and clay with many septic systems in the community having raised drainage beds due to poor soil drainage conditions. Health Canada noted that the reconstruction of three septic systems in the community was completed in 2001. The septic systems were reconstructed as a result of clogged/collapsed disposal fields causing sewage seepages. The former Chief also noted that another septic drainage field in the community has recently collapsed and requires repair.

3.2 Operation

As noted in Section 3.1, the former Chief and Band Manager were responsible for maintaining all the septic systems in the community and responded to any complaints of sewage back-ups. However, due to the impending Band election the community reportedly does not have a person responsible for maintaining the individual septic systems. Historically each septic tank was cleaned approximately every two years or as required using a vacuum truck. The former Chief reported historical sewage back-up problems in the basement of two homes in the community that had systems improperly installed by a private contractor. The systems have since been upgraded and no more sewage back-up problems have been reported. Recently one home located in the west end of the community has reported sewage seepages during wet periods.

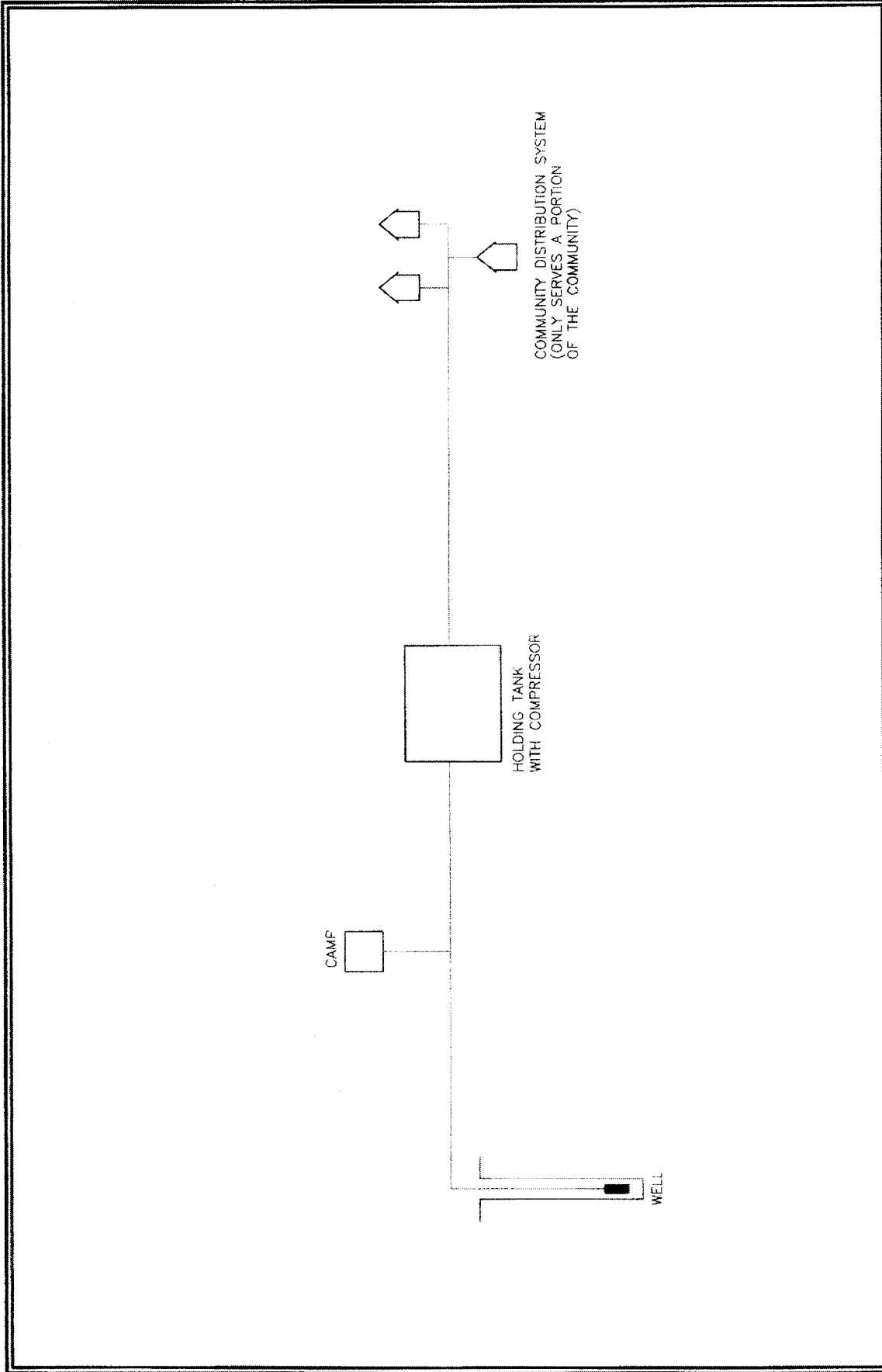



 A member of the Family of Companies	TITLE SITE LOCATION (SITE #06018)	DATE Feb. 2002	PROJECT NO. 102948
	PROJECT ASSESSMENT STUDIES OF WATER & WASTEWATER SYSTEMS ATLANTIC CANADA FIRST NATION COMMUNITIES PABINEAU FIRST NATION, PABINEAU, NB.	SCALE Unknown	FIGURE NO.
		DRAWN GBS	1



<p>TITLE</p> <p>SITE PLAN (SITE #06018)</p>	<p>DATE</p> <p>Feb. 2002</p>	<p>PROJECT NO.</p> <p>10294B</p>
	<p>SCALE</p> <p>NTS</p>	<p>FIGURE NO.</p> <p>2</p>
<p>PROJECT</p> <p>ASSESSMENT STUDIES OF WATER & WASTE WATER SYSTEMS ATLANTIC CANADA FIRST NATION COMMUNITIES PABINEAU FIRST NATION, PABINEAU, NB.</p>	<p>DRAWN</p> <p>GBS</p>	





	TITLE PROCESS FLOW-WATER (SITE #06018)	DATE Feb. 2002	PROJECT NO. 10294B
	PROJECT ASSESSMENT STUDIES OF WATER & WASTEWATER SYSTEMS ATLANTIC CANADA FIRST NATION COMMUNITIES PABINEAU FIRST NATION, PABINEAU, NB.	SCALE NTS	FIGURE NO. 3
		DRAWN GBS	

Appendix A
Water Testing Results

HEALTH CANADA DATABASE
Water Quality Data - Bacteriological Sampling
PABINEAU MICMAC FIRST NATION RESERVE

		PARAMETERS TESTED:	
SAMPLE LOCATION	DATE	TOTAL COLIFORM /100ml	FECAL COLIFORM (ecoli) /100 ml
Band Office	03/07/95	absent	absent
Band Office	08/06/96	absent	absent
Band Office	09/16/96	absent	absent
Band Office	12/08/98	absent	absent
Band Office	02/08/00	absent	absent
Band Office (Well)	02/01/95	absent	absent
Band Office (Well)	02/13/01	0	0
	02/02/98	absent	absent
	12/02/96	145	absent
	12/16/96	83	absent
	01/13/97	absent	absent
	01/30/97	16	1
	02/12/97	1	absent
	02/12/97	absent	absent
	04/21/97	absent	absent
	09/10/97	absent	absent
	02/02/98	27	absent
	02/10/98	11	absent
	02/23/98	41	absent
	03/03/98	15	absent
	03/18/98	32	absent
	05/26/98	3	absent
	06/16/98	9	absent
	07/14/98	absent	absent
	08/26/98	absent	absent
	11/02/98	absent	absent
	12/08/98	absent	absent
	01/11/99	absent	absent
	02/22/99	1	absent
	03/25/99	absent	absent
	04/27/99	absent	absent
	06/10/99	absent	absent
	07/26/99	absent	absent
	10/27/99	absent	absent
	03/28/00	absent	absent
	06/26/00	absent	absent
	09/12/00	absent	absent
	03/20/01	0	0
	05/22/01	3	0
	02/16/98	21	absent
02/16/98	41	absent	
12/10/97	50	absent	
09/15/99	absent	absent	
03/18/98	absent	absent	
02/01/95	absent	absent	
10/21/97	absent	absent	
12/10/97	absent	absent	
03/03/98	absent	absent	

05/26/98	1	absent
06/16/98	absent	absent
11/02/98	absent	absent
12/08/98	absent	absent
06/10/99	absent	absent
07/26/99	absent	absent
09/15/99	1	absent
10/27/99	absent	absent
03/28/00	absent	absent
08/04/99	5	absent
08/19/99	absent	absent
05/22/01	0	0
02/10/98	absent	absent
05/26/98	25	absent
08/26/98	absent	absent
03/20/01	0	0
09/28/00	absent	absent
01/07/97	absent	absent
04/21/97	absent	absent
10/30/96	absent	absent
09/10/97	absent	absent
05/22/01	1	0
05/22/01	0	0
10/30/95	absent	absent
01/25/99	absent	absent
09/10/97	> 200	absent
09/16/97	27	absent
09/15/99	absent	absent
01/15/01	absent	absent
03/07/95	absent	absent
05/15/95	absent	absent
08/06/96	absent	absent
09/16/96	absent	absent
11/07/96	absent	absent
04/21/97	absent	absent
06/16/97	absent	absent
08/18/97	absent	absent
09/10/97	absent	absent
12/10/97	absent	absent
06/16/98	absent	absent
07/14/98	absent	absent
12/08/98	absent	absent
01/11/99	absent	absent
02/22/99	absent	absent
03/25/99	absent	absent
09/15/99	absent	absent
10/27/99	absent	absent
03/28/00	absent	absent
06/13/00	absent	absent
09/12/00	absent	absent
11/07/00	absent	absent
02/13/01	0	0
05/22/01	3	0
02/01/95	absent	absent
10/21/97	absent	absent
08/18/97	absent	absent

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	02/10/98	absent	absent
	03/03/98	absent	absent
	02/12/97	absent	absent
	09/12/00	absent	absent
	09/25/00	absent	absent
	02/10/98	absent	absent
	02/10/98	absent	absent
	03/03/98	absent	absent
	08/26/98	absent	absent
	02/22/99	absent	absent
	03/25/99	absent	absent
	04/27/99	absent	absent
	07/26/99	2	absent
	02/08/00	absent	absent
	06/13/00	absent	absent
	06/26/00	absent	absent
	09/12/00	absent	absent
	11/07/00	absent	absent
	01/15/01	absent	absent
	02/13/01	0	0
	03/20/01	0	0
	07/14/98	absent	absent
	04/21/97	1	absent
	02/16/98	absent	absent
	07/02/97	absent	absent
	08/04/99	absent	absent
	06/16/97	absent	absent
	03/07/95	absent	absent
	08/06/96	absent	absent
	02/02/98	absent	absent
	05/26/98	absent	absent
	11/02/98	absent	absent
	04/21/97	absent	absent
	10/30/96	5	absent
	07/02/97	absent	absent
	08/18/97	48	absent
	09/10/97	1	absent
	09/16/97	1	absent
	10/21/97	absent	absent
	07/14/98	absent	absent
	09/12/00	absent	absent
	02/10/98	absent	absent
	01/13/97	absent	absent
	08/26/98	absent	absent
	11/07/00	1	absent
	12/08/98	absent	absent
	08/06/96	absent	absent
	10/27/99	absent	absent
Pump House	03/07/95	absent	absent
Pump House	05/15/95	absent	absent
Pump House	08/06/96	1	absent
Pump House	09/16/96	absent	absent
Pump House	11/07/96	absent	absent
Pump House	12/16/96	2	absent
Pump House	01/13/97	absent	absent
Pump House	04/21/97	9	absent

Pump House	06/16/97	absent	absent
Pump House	08/18/97	absent	absent
Pump House	09/10/97	absent	absent
Pump House	10/21/97	absent	absent
Pump House	12/10/97	absent	absent
Pump House	03/18/98	absent	absent
Pump House	05/26/98	1	absent
Pump House	06/16/98	absent	absent
Pump House	07/14/98	absent	absent
Pump House	11/02/98	absent	absent
Pump House	01/11/99	absent	absent
Pump House	02/22/99	absent	absent
Pump House	03/25/99	absent	absent
Pump House	04/27/99	absent	absent
Pump House	06/10/99	absent	absent
Pump House	07/26/99	absent	absent
Pump House	09/15/99	1	absent
Pump House	02/08/00	absent	absent
Pump House	03/28/00	absent	absent
Pump House	06/13/00	absent	absent
Pump House	06/26/00	absent	absent
Pump House	09/12/00	absent	absent
Pump House	11/07/00	absent	absent
Pump House	01/15/01	absent	absent
Pump House	02/13/01	0	0
Pump House	03/20/01	0	0
Pump House	05/22/01	1	0
	12/02/96	absent	absent
	09/12/00	absent	absent
	01/07/97	absent	absent
	06/16/98	absent	absent
	04/27/99	absent	absent
	06/10/99	absent	absent
	07/26/99	3	absent
	09/15/99	absent	absent
	10/27/99	absent	absent
	02/08/00	absent	absent
	03/28/00	absent	absent
	06/13/00	absent	absent
	06/26/00	absent	absent
	09/12/00	absent	absent
	11/07/00	absent	absent
	01/15/01	absent	absent
	02/13/01	0	0
	03/20/01	0	0
	05/22/01	1	0
	01/07/97	absent	absent
	07/02/97	absent	absent
	09/12/00	absent	absent
	01/07/97	absent	absent
	09/12/00	absent	absent
	09/10/97	absent	absent
	09/12/00	absent	absent
	03/14/95	absent	absent
	04/21/97	absent	absent
	11/02/98	144	absent

	12/08/98	absent	absent
	03/20/01	0	0
	10/21/97	absent	absent
	05/15/95	absent	absent
	02/02/98	absent	absent
	04/27/99	absent	absent
Spring at Pabineau Falls	11/05/98	absent	absent
	06/04/00	absent	absent
		Roger	pabneaub

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HEALTH CANADA DATABASE
 DRINKING WATER QUALITY (CHEMICAL) DATA
 PABINEAU MICMAC FIRST NATION RESERVE

Parameters Sampled	aluminum	arsenic	barium	boron	cadmium	chloride	chromium	colour	copper	fluoride	hardness	iron	L.I.	lead	manganese	mercury	nitrate	pH	selenium	sodium	sulphate	turbidity	uranium	zinc		
Health or Aesthetic Limit	0.025	1.00	5.00	0.005	<250	0.05	<15 TCU	<1.0	1.5	80-100	<0.3			0.01	<0.05	0.001	45.00	6.5 to 8.5	0.01	<200	<500	<5 NTU	0.1	<5.0		
LOCATION	mg/l	IMAC	MAC	IMAC	MAC	AO	MAC	AO	AO	MAC	MAC	AO		MAC	AO	MAC	MAC	AO	MAC	AO	MAC & AO	MAC	AO			
Band Office	01/28/77	<0.05	<0.01	0.16	<0.02	<0.005	9.5	<0.01	5	0.09	<0.1	26	<0.05	<0.005	0.02		2.4	6.5	<0.1	4.4	4.1	0.5		0.07		
Band Office	03/18/77		<0.01											<0.005					<0.1					0.07		
Band Office	07/18/80													<0.005												
Band Office	07/15/81													<0.001												
Band Office	03/23/82	<0.05	0.005	0.03	0.03	<0.002		<0.01		<0.01		0.3		0.003	<0.01				<0.002						0.08	
Band Office	12/03/85		0.005				28	7.5	0.01	1.9	4.9	<0.01		<0.002	<0.01		<0.05	8.8		80	21	2.5		0.05		
Band Office	04/24/88	<0.05		0.027	0.03	<0.01	18	<0.01	7	0.03	2.1	6.3	0.37	<0.05	0.06		<0.05	8.8	<0.1	77	19	0.8		0.03		
Band Office	03/25/93	0.044	0.006	0.052	0.03	<0.0005	68.7	0.004	8	<0.01	3.1	6.65	0.12	0.0007	0.01	<0.00005	<0.05	8.9	<0.002	105	22	2.16	0.006	<0.01		
Band Office	09/23/93						90.9		<3	0.05		85.4	0.07		0.3		<0.05	5.5		35	7	0.07		0.03		
Band Office	12/12/94						111		<3	<0.01		52.1	0.02		0.82		<0.05	8.1		105	19	0.45		<0.01		
Community Water Supply	01/13/97	0.056	<0.001	0.05	<0.200	<0.0005	9.19	<0.01		<0.01	<0.1	105.6	0.204	<0.001	0.464		<0.05	7.25	<0.001	5.5	4.89	1.9			4.5	
Community Water Supply	08/19/97			1.37																						
Community Water Supply	06/13/00	<0.025	0.00348	1.32	0.012	<0.0005	243	<0.01		<0.01	1.07	191.6	0.765	0.4	<0.001	1.21	<0.05	8	0.00455	112	8.24	4.8	0.0059	0.102		
Community Water Supply	06/26/00	<0.025	0.0035	1.48	0.011	<0.0005	193	<0.01		<0.01	1.14	178.5	0.744	0.2	<0.001	1.33	<0.05	7.87	0.00526	113	10.9	5.5	0.00558	0.119		
Community Well	08/15/95						158		7	<0.01		155	0.3		0.98		<0.05	7.5		84	8	1.85			0.25	
Fire Hall	07/15/81		0.028											0.0125												
Fire Hall	03/23/82	0.05	<0.005	0.16	0.06	<0.002		<0.01		0.01		0.3		0.02	0.04				0.002						0.5	
Fire Hall	03/24/88	<0.05		0.061	0.08	<0.01	67	0.01	<3	0.01	1.8	75.5	0.02	<0.05	<0.01		<0.05	8.7	<0.1	86	21	2.4		0.01		
Fire Hall	06/21/88	<0.05		0.064	0.03	<0.01	56	<0.01	<3	<0.01		14.9	0.10	<0.05	<0.01		<0.05	10.2	<0.1	89	21	0.5		0.01		
Fire Hall	08/03/88						85		<3	<0.01	1.9	22.3	0.05				<0.05	8.5		99	22	1.1		0.01		
Fire Hall	08/02/88						17		<3	0.14		40.3	0.15				<0.05	8.9		3.4	3.2	1.8		0.01		
Fire Hall	08/03/88						16		<3	0.07	<0.1	40.3	0.43				<0.05	7		3.3	<2	2.6		0.01		
Fire Hall	09/26/00	<0.025	0.00623	0.062	<0.01	<0.0005	1.03	<0.01		<0.01	0.244	50.8	0.661	<0.8	<0.001	0.844	<0.05	7.87	<0.0015	3.08	16.4	8.5	<0.0005	0.005		
Fire Hall	01/08/97	<0.025	0.00646	0.074	<0.200	<0.0005	2.59	<0.01		<0.01	0.303	53.7	0.646	<0.001	0.67		<0.05	7.49	<0.001	3.88	15.6	7.9	<0.01			
Fire Hall	04/21/97	<0.025	0.0062	0.076	<0.200	<0.0005	2.03	<0.01		0.019	0.316	58	0.528	0.0011	0.679		<0.05	7.64	<0.001	3.9	15.1	5.4		<0.01		
Fire Hall	11/17/93						<0.5		33	<0.01		52.1	0.85		0.66		<0.05	7.4		3.8	14	8.62		0.03		
Fire Hall	09/10/91		0.003				13.1		88	<0.01	1.6	14.8	0.34		0.005	0.01		0.19	9.1	45.3	10	30.2		<0.01		
Fire Hall	11/13/91		0.004				24.5		63	<0.01	2.4	11	0.34		0.002	0.01		0.17	9	56.9	11	26		<0.01		
Fire Hall	06/05/89						4		<3	<0.01		16	<0.02		0.02		0.22	6.7		2.1	4.2	0.8		6.3		
Fire Hall	09/10/97	0.059	0.0035	0.035	<0.200	<0.0005	85.2	<0.01		<0.01	5.65	3.4	0.135	<0.001	<0.01		<0.05	8.64	<0.0005	126	34.1	1.6		<0.01		
Fire Hall	06/05/89						1.8		<3	<0.01	7	44.5	0.38		0.02		<0.05	7.3		2.3	4	6.9		<0.01		
Fire Hall	09/10/91						95.8																			
Fire Hall	06/05/86		<0.005				1.3			<0.01	<0.1	4.9	0.14	<0.002	0.12		<0.05	8.1		135						
Fire Hall	03/25/93						83.8		3	0.01	6.9	3.5	0.02		<0.01		<0.05	9		114	26	0.56		<0.01		
Fire Hall	11/07/98	<0.025	0.00138	1.32	<0.200	<0.0005	178	<0.01		0.27	0.957	189.2	0.39	<0.001	0.038		<0.05	7.65	0.00252	94.6	10.6	1.4		0.091		
Fire Hall	03/30/87						2030				6.3	294.5			0.005			7.9	<0.1	1048						
Fire Hall	05/11/87						1720				3.9	252.9			<0.002			8.2	<0.002	1600						
Fire Hall	08/29/90						1060								0.07											
Fire Hall	06/05/89						150		20	<0.01		46.5	0.41		0.04		<0.05	8.6		130	20	19		<0.01		
Fire Hall	11/13/91		<0.005				22.2		19	<0.01	1.3	55	0.11	<0.002	0.11		<0.05	7.9		44.4	18	1.28		<0.01		
Fire Hall	09/12/00	0.036	0.006	0.068	0.028	<0.0005	105.2	<0.01		<0.01	2.52	59	0.056	0.4	<0.001	0.01	<0.05	8.53	0.00205	99.3	22.4	0.8	0.0051	<0.005		
Fire Hall	03/18/98	<0.025					1.32	<0.01		0.016	0.37	78.3	0.215	<0.001	0.527		<0.05	7.82	<0.001	4.72	18.2	1.8		0.049		
Nepisiquit River (Above Red Brook)	08/27/82		<0.002	0.005	0.008	<0.0005		<0.002		0.014				0.0006	0.009		<0.002								<0.0001	0.088
Nepisiquit River (At Mouth Of Red Brook)	08/27/82		0.002	0.006	0.01	<0.0005		0.005		0.01				0.0034	0.026		<0.002								0.0003	0.03
Nepisiquit River (Near Salmon Traps)	09/30/92		<0.002	0.005	<0.005	<0.0005		<0.002		0.004				0.0002	0.012		<0.002								<0.0001	0.068
Nepisiquit River (Above Pump house)	11/24/93	0.13	<0.002	0.007	<0.005	<0.0005		<0.002		0.004				0.0005	0.033		<0.002								<0.0001	0.063
Nepisiquit River (Above Rough Dump)	11/24/93	0.21	<0.002	0.009	<0.005	<0.0005		<0.002		0.004				0.0006	0.027		<0.002								0.0001	0.053
Nepisiquit River (Pabineau Falls-Across Dump)	11/24/93	0.19	<0.002	0.008	<0.005	<0.0005		<0.002		0.004				0.0007	0.036		<0.002								<0.0001	0.052

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HEALTH CANADA DATABASE
 DRINKING WATER QUALITY (CHEMICAL) DATA
 PABINEAU MICMAC FIRST NATION RESERVE

Parameters Sampled		aluminum	arsenic	barium	boron	cadmium	chloride	chromium	colour	copper	fluoride	hardness	iron	L. I.	lead	manganese	mercury	nitrate	pH	selenium	sodium	sulphate	turbidity	uranium	zinc	
Health or Aesthetic Limit	mg/l -->	0.025	1.00	5.00	0.005	<250	0.05	< 15 TCU	< 1.0	1.5	80-100	< 0.3	0.01	< 0.05	0.001	45.00	6.5 to 8.5	< 0.01	< 200	< 500	1 NTU < 5 NTU	0.1	< 5.0			
LOCATION	Date:	IMAC	MAC	IMAC	MAC	AO	MAC	AO	AO	MAC	MAC	AO	MAC	MAC	AO	MAC	MAC	AO	MAC	AO	AO	MAC & AO	MAC	AO		
Pabineau Falls Indian Nation	09/21/93	0.013	0.003	0.029	0.012	<0.0005	177	0.002	<3	<0.01	1	171	0.24		0.0002	0.92	<0.00005	<0.05	7.5	<0.002	89.9	8	1.67	0.016	0.01	
Pabineau Falls Indian Nation	11/24/94						94.8		18	<0.01	1.16	0.48				0.75		<0.05	7.5		60.1	9	3.58		0.43	
Pabineau River (Mining Operation Upstream)	05/15/91		<0.005				3.5		36	<0.01	0.2	13.4	0.13		<0.002	0.25		<0.05	6.3		2.3	11	0.36		0.1	
	05/16/96		<0.005				147		5	0.01	1.5	63.9	0.07		<0.002	0.03		<0.05	8.2		107	16	0.8		0.02	
	05/16/86		<0.005				41.3		2.5	0.01	0.3	3.5	<0.02		<0.002	<0.01		<0.05	7.7		30	1.8	0.1		0.02	
	05/11/87						158				1.7	58.2			<0.002				8.6	<0.002	130				0.02	
	10/08/93						1050		3	<0.01		297	0.03			0.05		<0.05	7.9		629	24	0.35		0.03	
	02/18/98	0.034	0.0053	0.096	<0.200	<0.0005	132	<0.01		<0.01	1.98	50.2	0.034		<0.001	<0.01		<0.05	8.36	0.0019	99.2	19.1	0.5		<0.01	
	08/24/79		0.602																							
	07/18/80														<0.005											
	07/15/81														<0.001											
	03/23/82	0.07	0.006	0.07	0.02	<0.002		<0.01		<0.01			0.05			0.01				<0.002						<0.01
	05/20/83										3.7															
	03/24/88	0.09		0.019	0.02	<0.01	9.1	<0.01	5	<0.01	1	2.3	<0.02		<0.05	<0.01		<0.05	7.8	<0.1	17	<2	0.2		0.01	
	07/03/97	0.025	0.0056	0.073	<0.200	<0.0005	36.8	<0.01		<0.01	3.94	12.7	0.025		<0.001	<0.01		<0.05	8.71	<0.0001	85.7	24.2	0.4		<0.01	
	05/20/83										3.9															
	06/08/84										0.2															
	08/04/99	0.152	0.0057	0.033	<0.200	<0.0005	88.7	<0.01		<0.01	5.28	10.5	0.08	0.2	<0.001	0.0075		<0.05	9	<0.0015	124	18.4	1.5		<0.005	
	01/17/83										3.71															
	05/20/83										0.2															
	07/18/83										<0.1															
	06/08/84										0.2															
	09/04/91		<0.005				54.4		17	<0.01	1.1	87.5	0.32		0.004	0.45		<0.05	7.9		49	9	4.38		0.01	
	11/13/91		<0.005				23.3		6	<0.01	1.3	80.3	0.1		<0.002	0.45		<0.05	7.8		34.5	7	0.56		<0.01	
	08/04/99	0.03	0.0052	0.066	<0.200	<0.0005	14.4	<0.01		<0.01	3.88	9.8	<0.05	0.2	<0.001	0.015		<0.05	9.04	<0.0015	75.4	15.5	0.3		<0.005	
	04/07/93						89.9		5	<0.01	1	101	0.11			0.55		<0.05	7.7		51.6	3	0.26		0.04	
	03/18/77		<0.01																							0.16
	08/24/79		0.003																							
	07/18/80														<0.006											
	07/15/81														0.015											
	03/23/82	<0.05	<0.005	0.03	<0.02	<0.002		<0.01		0.1			<0.02		0.03	<0.01				<0.002						
	01/17/83																									1.6
	05/24/83										<0.1															
	01/30/86		<0.005				41.2		<2.5	<0.01	1.5	65.1	0.08		0.002	<0.01		<0.05	7.6		77	12	0.5		0.02	
	03/19/98	<0.025	0.0075	0.035	<0.200	<0.0005	46.8	0.01		<0.01	1.93	28	0.05		<0.001	<0.010		0.56	8.47	<0.001	69.2	15	0.4		<0.01	

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HEALTH CANADA DATABASE
 DRINKING WATER QUALITY (CHEMICAL) DATA
 PABINEAU MICMAC FIRST NATION RESERVE

Parameters Sampled		aluminum	arsenic	barium	boron	cadmium	chloride	chromium	colour	copper	fluoride	hardness	iron	L. I.	lead	manganese	mercury	nitrate	pH	selenium	sodium	sulphate	turbidity	uranium	zinc
Health or Aesthetic Limit	mg/l -->	0.025	1.00	5.00	0.005	<250	0.05	<15 FCU	<1.0	1.5	80-100	<0.3	0.01	<0.05	0.001	45.00	6.5 to 8.5	0.01	<200	<500	1 NTU <5 NTU	0.1	<5.0		
LOCATION	Date:	MAC	MAC	MAC	MAC	AO	MAC	AO	AO	MAC	MAC	AO	AO	MAC	AO	MAC	MAC	AO	MAC	AO	AO	MAC & AO	MAC	AO	
	06/24/79		0.012																						
	07/15/81		0.008																						
	03/23/82	<0.05	0.01	0.06	<0.02	<0.002		<0.01		0.18			0.13		<0.001										0.02
	05/24/83														0.002	0.005				<0.002					
	05/16/86		0.02				1.5		2.5	0.02	1	73.5	0.04		<0.002	0.03		<0.05	7.0		13				0.02
	11/24/93						3.9		3	<0.01		34.8	0.1			0.05		<0.05	8.8		11	15	0.2		0.02
	05/11/87						2.6														42.1	16	0.5		<0.01
	01/30/88		<0.005				1.2		<2.5	0.01	<0.1	24.8			<0.002				6.4	<0.002		3.7			
	03/18/77		<0.01									22.5	0.03		0.002	0.02		<0.05	6.3		3	3.9	0.3		0.59
	05/20/83												0.13		<0.005				<0.1						0.05
	09/10/87		<0.005				1.3		5		4.1									75					
	03/23/82	<0.05	<0.005	0.07	0.03	<0.002		<0.01		0.02	0.2	0.55	0.01		<0.002	0.02		<0.05	9			1.6	0.5		
	05/20/83												0.29		<0.002	<0.01			<0.002						0.05
	03/01/77	<0.005	<0.01	0.19	<0.02	<0.005	33	<0.01	5	0.01	3.7										70				
	08/24/79		0.004								4.3	14	0.13		<0.005	0.02	<0.0005	<0.1	8.9	0.01	80	24	1		0.05
	07/18/80														<0.005										
	07/15/81														<0.001										
	01/17/83														<0.001										
	04/21/87	<0.025	0.0079	0.063	<0.200	<0.0005	2.12	<0.01		<0.01	0.382	48	1.37		<0.001	0.547		<0.05	7.16	<0.001	75	4.3	14.5	14.7	0.015
	08/29/80											0.62				<0.01									
	02/11/81											81.9	0.09			<0.01									
	03/25/83						21.9		5	0.02	0.4	80.9	0.16								13.9				
	07/03/97	<0.025	0.0099	0.118	<0.200	<0.0005	87.2	<0.01		<0.01	0.737	78.1	0.038		<0.001	<0.01		0.72	8.1		16.3	11	1.04		<0.01
	09/12/80	<0.025	0.0129	0.144	0.019	<0.0005	128	<0.01		0.011	1.85	87.5	0.059	0.4	<0.001	<0.005		0.84	8.15	0.001	62	17.9	0		<0.01
	01/30/86		0.009				69.9		2.5	<0.01	3.4	73.7	0.08		<0.002	0.02		0.68	8.30	0.0027	95.1	20.2	0.2	0.0091	0.006
	05/11/87						84.8				2.2	24.3			<0.002			<0.05	8.5		110	25	0.8		0.60
	01/19/87	<0.025	0.0109	0.085	<0.200	<0.0005	41.9	<0.01		<0.01	3.9	25.4	0.042		<0.001	<0.01		0.24	8.46	<0.001	81.1	24.5	0.5		<0.01
	09/10/84	<0.05	<0.005	0.15	0.04	<0.002		<0.01		0.1			0.61		0.01	0.034				<0.1	248				0.15
	10/10/84	<0.05	<0.005	0.1	<0.02	<0.002		<0.01		<0.01			0.079		<0.002	0.01				0.005	157				0.09
	10/10/84	<0.05	<0.005	0.1	<0.02	<0.002		<0.01		<0.01			0.095		<0.002	0.014				0.002	156				0.1
	06/08/84										0.3										7				
	11/13/81		0.02				98.5		40	<0.01	7	14.3	0.58		0.0002										
	01/28/77						94		10		2.3	45	0.1								122	20	18.7		<0.01
	03/01/77	<0.05	<0.01	0.19	<0.02	<0.005	58	<0.01							<0.05	<0.0005	<0.1	8.2			95	19	1.6		
	03/18/77		<0.01						5	0.03	2	35	0.05		<0.005	0.03	<0.0005	<0.1	8.5		75	20	0.5		<0.01
	08/24/79		0.005												<0.005					<0.1					<0.01
	07/18/80																								
	07/15/81														<0.005										
	03/23/82	<0.05	0.007	0.07	<0.02	<0.002		<0.01		<0.01			0.03		<0.001										0.02
	01/17/83																			<0.002					
	05/20/83										1.9										79				
																					70				

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HEALTH CANADA DATABASE
 DRINKING WATER QUALITY (CHEMICAL) DATA
 PABINEAU MICMAC FIRST NATION RESERVE

Parameters Sampled	aluminum	arsenic	barium	boron	cadmium	chloride	chromium	colour	copper	fluoride	hardness	iron	L. I.	lead	manganese	mercury	nitrate	pH	selenium	sodium	sulphate	turbidity	uranium	zinc
Health or Aesthetic Limit	mg/l --->	0.025	1.00	5.00	0.005	<250	0.05	< 15 TCU	< 1.0	1.5	80-100	< 0.3		0.01	< 0.05	0.001	45.00	6.5 to 8.5	0.01	< 200	< 500	1 NTU < 5 NTU	0.1	< 5.0
LOCATION	Date:	IMAC	MAC	IMAC	MAC	AO	MAC	AO	AO	MAC	MAC	AO		MAC	AO	MAC	MAC	AO	MAC	AO	AO	MAC & AO	MAC	AO
	03/25/93					21.2		3	0.06	0.4	93.3	0.04			0.02		0.63	7.9		13.5	13	0.33		0.06
	05/20/83									0.3										10				
	08/02/88					7.1		<3	0.03		71.5	0.04			0.02		0.22	8.1		11	17	0.5		0.02
	08/03/88					6.3		<3	0.01	0.3	71.9	0.04			0.03		0.23	8.1		11	14	0.5		0.01
	08/02/88					55		5	0.03		12.1	0.48			0.04		<0.05	8.4		95	24	7.2		0.02
	08/03/88					55		5	<0.01	3.5	12.1	0.46			0.05		<0.05	8.5		67	24	8.7		0.01
	10/30/94					53.4		<3	<0.01		11.3	0.06			0.01		<0.05	8.3		95.8	24	1.35		<0.01
	08/09/84									0.3									11					
	06/04/86		<0.005			1.3		12.5	<0.01	<0.1	9.6	0.05		<0.002	<0.01		<0.05	6.3		0.8	1.2	1.3		<0.01
	08/24/79		0.006																					
	07/18/80														<0.005									
	07/15/81														<0.001									
	08/08/84									<0.1		0.02								3.5				
	05/20/83									1.7										50				
	06/04/84									0.1										6.5				
	06/03/85	<0.05	0.007	0.07	0.03	<0.002		<0.01		<0.01		0.08		<0.002	0.013				<0.002					0.01
	11/07/86	<0.025	0.00327	1.43	<0.200	<0.0005	188	<0.01		<0.01	0.883	186.3	1	<0.001	1.31		<0.05	7.69	0.00232	86.4	10.5	4.3		0.21
	11/13/91		0.003				2.1		13	<0.01	0.8	53.6	0.41	<0.002	0.32		<0.05	7.7		76.8	14	3.93		<0.01
Sample #2	06/29/88		<0.005				76		15	0.01	1.4	67.8	0.13	0.028	0.01		<0.05	10.2	<0.1	89	21	1.3		0.02
Sample #3	06/30/88		0.008				58		6	<0.01	1.8	18.8	0.17	0.002	<0.01		<0.05	8.3		78	20	0.7		0.01
Sample #4	07/07/88		0.005				70		3.8	<0.01	2	20.6	0.13	0.004	<0.01		<0.05	8.3		93	21	1.2		0.01
	01/06/97	<0.025	<0.001	0.044	<0.200	<0.005	4.15	<0.01		<0.01	<0.1	12.5	0.391	<0.001	0.38		<0.05	6.48	<0.001	2.69	5.46	0.6		6.9
	01/06/97	<0.025	0.0265	0.091	<0.200	<0.005	2.64	<0.01		<0.01	0.637	70	0.257	<0.001	0.5		<0.05	8.05	<0.001	11.6	14.9	1.7		<0.01
	07/03/97		0.0203																					
	10/21/97		0.0195																					
	09/12/00	<0.025	0.0224	0.089	<0.01	<0.0005	1.42	<0.01		0.201	0.587	76.3	0.358	0.1	<0.001	0.517		<0.0015	13	20.2	1.3	0.0014	0.005	
	06/03/85	<0.05	<0.005	0.04	<0.02	<0.002		<0.01		0.06		0.19		0.008	0.029		<0.05	8.24	<0.002					0.11
	01/08/97	0.031	0.0228	0.025	<0.200	<0.005	2.74	<0.01		<0.01	2.04	23.5	0.161	<0.01	0.12		<0.05	8.92	<0.001	34.3	17	1.6		<0.01
	01/28/77						1		10		0.7	34	<0.1		<0.05	<0.0005	<0.1	7.8		16	10	0.8		
	03/18/77		<0.01																<0.1					0.16
	08/24/79		0.019												<0.005									
	07/18/80														<0.005									
	07/15/81		0.016												<0.001									
	03/23/82	<0.05	0.02	0.07	<0.02	<0.002		<0.01		0.01		0.05		<0.002	0.33				<0.002					0.01
	05/20/83									0.7										13				

s.19(1)

s.19(1)

HEALTH CANADA DATABASE
 DRINKING WATER QUALITY (CHEMICAL) DATA
 PABINEAU MICMAC FIRST NATION RESERVE

Parameters Sampled	aluminum	arsenic	barium	boron	cadmium	chloride	chromium	colour	copper	fluoride	hardness	iron	L. I.	lead	manganese	mercury	nitrate	pH	selenium	sodium	sulphate	turbidity	uranium	zinc
Health or Aesthetic Limit	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	CU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	NTU	mg/L	mg/L
LOCATION	Date	MAC	MAC	MAC	MAC	AO	MAC	AO	AO	MAC	MAC	AO		MAC	AO	MAC	MAC	AO	MAC	AO	AO	MAC & AO	MAC	AO
	03/18/77	0.01										<0.05		<0.005										0.01
	08/24/79	0.021																	<0.1					
	07/18/80													<0.005										
	07/15/81													<0.001										
	03/23/82	0.06	0.02	0.07	<0.02	<0.002			<0.01			<0.01		0.003	0.06				<0.002					0.03
	05/20/83									3.1										45				
	06/08/84									<0.1		0.03								2.8				
	06/03/85	<0.05	0.02	0.03	0.02	<0.002			<0.01			<0.01		<0.002	0.047				<0.002					<0.02
	05/16/86		0.03				1.7	5	0.01	2.4	17.2	0.23		<0.002	0.03		<0.05	9.5		47	17	0.9		0.02
	09/10/87	<0.025	<0.001	0.048	<0.200	<0.0005	17.2	<0.01	0.092	<0.1	13.3	0.168		<0.0012	0.032		0.42	6.33	<0.005	10.7	10.4	1.2		0.233
	01/28/77					1		10				0.1			0.1	<0.0005	<0.1	8.1		14	14	0.7		
	03/18/77		<0.01									<0.05		<0.005					<0.1					0.01
	08/24/79		0.007																					
	07/18/80													<0.005										
	07/15/81													<0.001										
	03/23/82	<0.05	0.005	0.06	<0.02	<0.002			0.03			0.27		<0.002	0.05				<0.002					0.04
	05/24/83									0.4										5				
	12/02/85		0.008			2.2		2.5	0.03	0.6	71.7	0.32		<0.002	0.58		<0.05	7.6		4.2	15	1.3		0.05
	05/16/86		0.005			1.3		5	0.04	0.3	71.8	0.19		<0.002	0.54		<0.05	7.5		3.9	15	0.7		0.04
	04/21/87	0.04	0.0212	0.016	<0.200	<0.0005	2.04	<0.01	<0.01	2.28	8.5	0.424		<0.001	0.031		<0.05	8.84	<0.001	44.3	13.9	3.1		<0.01
	03/18/77		<0.01									<0.05		<0.005					<0.1					0.11
	03/23/82	<0.05	<0.005	0.04	<0.02	<0.002			<0.01			0.13		<0.002	<0.01				<0.002					0.05
	05/20/83									0.4										13				
	11/02/88	0.157	0.0082	0.051	<0.200		1.74	<0.01	<0.01	0.495	50.6	1.81		0.0077	0.741		<0.05	7.82	<0.001	11.8	15.3	15.1		0.016
	03/01/77	<0.05	<0.01	0.14	<0.02	<0.005	5	<0.01	5	0.03	6.8	37	<0.05	<0.005	0.02	<0.0005	0.2	7.6	<0.1	20	13	0.4		0.11
	08/24/79		0.008																					
	07/18/80													<0.005										
	07/15/81													<0.001										
	04/28/84					24.3		17	<0.01		45	0.69			0.32		<0.05	6.9		41.6	24	1.58		<0.01
	03/18/88	<0.025	0.004	0.067	<0.200	<0.0005	28.3	0.019	<0.01	3.58	14.1	0.045		<0.001	<0.01		<0.05	8.87	<0.001	81.9	20.1	0.5		<0.01
	04/27/89	<0.025	0.0039	0.064	<0.200	<0.0005	28.7	0.013	<0.01	3.92	12.6	<0.05		<0.001	0.008		<0.05	8.89	<0.0015	73.3	20.5	0.7		<0.005
	08/29/86		<0.005				19.8	<2.5	<0.01	<0.1	50.4	0.02		<0.002	<0.01		1.8	6.6		8.2	2.2	0.8		<0.01
	08/29/86		<0.005				19		15	<0.01	<0.1	18.1	2.2	<0.002	0.13		<0.05	6		3.5	4.6	4.6		<0.01
	05/19/83						42.8	21	0.01	4.4	3.25	0.55			0.02		<0.05	9		98.5	22	6.56		<0.01
	07/04/00	0.064	0.0295	0.027	0.041	<0.0005	47.5	<0.01	<0.01	4.28	3.4	0.043	-0.2	<0.001	<0.005		<0.05	9.09	<0.0015	94.3	23.5	0.5	0.00615	<0.005
	07/22/88		0.009				97		-3		2	26.4	0.06	<0.002	0.01		<0.05	8.5		107	22	1.8		0.01
	09/17/96	<0.025	0.0043	1.333	<0.200	<0.0005	182	<0.02	<0.01	1.01	177.7	0.612		<0.001	1.168		<0.05	8.03	0.0947	89.7	11.1	4.8		0.152
	01/28/77	<0.05	0.01	0.29	<0.02	<0.005	1	<0.01	10	0.01		65	0.1	<0.005	0.3	<0.0005	<0.1	8	<0.1	9.7	14	1		0.01

s.19(1)

s.19(1)



First Nations Environmental Health Services
 261 Ch. Desherbiers
 St. Louis, NB
 E4X 1S2

Your file Votre référence

Our file Notre référence

Chief Benjamin Peter Paul
 Pabineau First Nation
 1290 Pabineau Falls Road
 New Brunswick E3A 7M3

Chief Peter Paul:

RE: WATER SAMPLE RESULTS - Oct. 9, 2001

s.19(1)

LOCATION	DATE	TOTAL COLIFORM	E-COLI	INTERPRETATION
[Redacted]	oct. 9 01	nd	nd	
	"	5	nd	
	"	2	nd	
	"	nd	nd	
Pump House	"	10	nd	
Pump House	"	10	Nd	

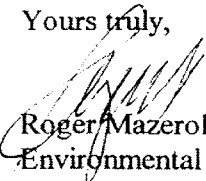
BOIL WATER ADVISORY

4 SAMPLES OUT OF 6 SHOWED CONTAMINATION, THEREFORE WATER SHOULD BE BOILED FOR 5 MINUTES BEFORE USING FOR DRINKING, BRUSHING TEETH AND WASHING VEGETABLES.

WATER LINES SHOULD BE FLUSHED AND WATER RESAMPLED. 2 CONSECUTIVE NEGATIVE SAMPLES ARE REQUIRED BEFORE RESCINDING BOIL WATER ADVISORY

If you require more information on this report, please do not hesitate to contact me at (506) 876-1198 or at my cellular phone (506) 523-5743.

Yours truly,


 Roger Mazerolle, C.P.H.I. (C)
 Environmental Health Officer





First Nations Environmental Health Services
261 Ch. Desherbiers
St. Louis, N.B.
E4X 1S2

Your file Votre référence

Oct. 19, 2001

Our file Notre référence

Chief Benjamin Paul
Pabineau First Nation

Chief Paul;

This is further to our conversation of yesterday, oct. 18, regarding the contamination of the water supply in Pabineau First Nation.

A boil water advisory has been in effect for your community, since Oct. 12, after contamination was detected in some samples collected at different location, on preceeding days. The boil water advisory will remain in effect until such time as 2 consecutive negative samples are obtained.

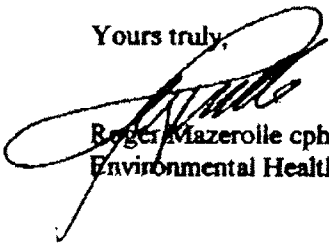
As we discussed, the community water supply, at present, is not provided with any means of disinfection and the only way to clear up any contamination in the system, is by flushing the lines.

I am hereby recommending that you seriously consider the addition of a chlorinator to the water system. This chlorinator could be used as a stand by system, to be used in the event of emergencies, when contamination occurs in the water system, or to be used to chlorinate the water on a continual basis.

This is, the only way that safe water can be guaranteed for the population of your community, and I urge you to provide the community water system with proper treatment.

If I can be of assistance, please do not hesitate to contact me at your convenience.

Yours truly,



Roger Mazerolle cphi©
Environmental Health Officer

Canada

Friday, November 02, 2001

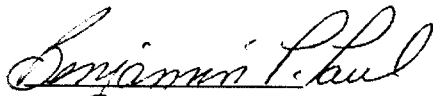
Pabineau First Nation
1290 Pabineau Falls Rd.
Pabineau First Nation, N.B.
E2A 7M3

Attn. Dougal MacDonald
Director of Funding Services
Department of Indian Affairs & Northern Dev.

Dear Mr. MacDonald

As of October 12, 2001 Pabineau First Nation has been under a boil order advisory due to high levels of contamination in the water system. Subsequent tests continue to indicate unacceptable levels of contamination. We have attached copies of the test results prepared by Roger Mazerolle (Environmental Health Officer at Health Canada). We have also attached a copy of the letter of recommendations prepared by Mr. Mazerolle to resolve the problem. We are asking the Department to contact Chief & Council to discuss the possibility of obtaining funding to cover the cost of Mr. Mazerolle recommendations.

Yours Truly



Benjamin Paul Sr.
Chief, Pabineau First Nation



First Nations Environmental Health Services
261 Ch. Desherbiers
St. Louis, N.B.
E4X 1S2

Your file Votre référence

Our file Notre référence

Nov. 29, 2001

Chief Benjamin Paul
Pabineau First Nation

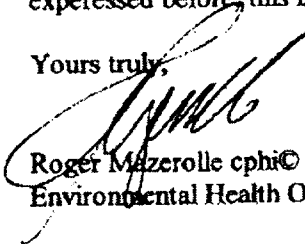
Chief Paul;

Enclosed, find bacteriological analysis of water collected from the community supply, on Nov. 22 and Nov. 26, 2001.

The result of the above 2 sampling period, indicate that the water was bacteriologically acceptable and the samples collected on Nov. 19 had the same satisfactory results. **Therefore, the boil water advisory is hereby rescinded.** Further sampling will be continued.

I want to remind you of the importance of providing the community with an acceptable means of disinfecting the water system, in case of emergency; ie: chlorinator. As I have expressed before, this is the only way that a safe water supply can be assured for the community.

Yours truly,



Roger Mézerolle cphi©
Environmental Health Officer

Canada



First Nations Environmental Health Services
261 Ch. Desherbiers
St. Louis, N.B.
E4X 1S2

Votre file Votre référence

Our file Notre référence

Chief Ben Paul
Pabineau First Nation

Re: [redacted] s.19(1)

Chief Paul;

Enclosed, please find laboratory chemical analysis results of water collected from the well s.19(1) at the home of [redacted], in Pabineau.

Please note that the level of fluoride, at 1.78 mg/l exceeds the maximum acceptable limits of the Canadian Drinking Water Quality Guidelines, which is set at 1.5 mg/l. I am enclosing an information sheet on fluoride for information.

Also, please note that the level of Uranium at 78ug/l exceeds the limits of 20ug/l, of the Guidelines. I am also including an information sheet on Uranium, regarding it's health implications.

With the above concentration of Fluoride and Uranium in this water supply, I recommend that an alternative water supply be provided for drinking and cooking.

If you require further information, do not hesitate to contact me at 523-5743.

Yours truly,

Roger Mazerolle cphi
Environmental Health Officer



First Nations Environmental Health Services
261 Ch. Desherbiers
St. Louis, N.B.

Your file votre référence

Chief Ben Paul
Babineau First Nation

Our file Notre référence

Chief Paul;

Enclosed please find chemical analysis results of water, sampled from the home of [redacted] Babineau First Nation.

s.19(1)

Please note that the Iron level at 1.14mg/l exceeds the limits of the Canadian Drinking Water Quality Guidelines. The limit for Iron, is set for aesthetic reasons only, namely, staining and odors and taste. There are no health related effect with high iron levels.

The water's turbidity is also high, possibly caused by the high iron concentration.

Yours truly

Roger Mazerolle cphi©
Environmental Health Officer



First Nations Environmental Health Services
261 Ch. Desherbiers
St. Louis, NB
E4X 1S2

Your file / Votre référence

Our file / Notre référence

Aug. 30, 2001

s.19(1)
Pabineau First Nation
1290 Pabineau Falls Road
New Brunswick E3A 7M3

s.19(1)
RE: WATER SAMPLE RESULTS -

s.19(1)

LOCATION	DATE	TOTAL COLIFORM	E-COLI	INTERPRETATION
[Redacted]	27 aug. 10	60	nd	not acceptable

BOIL WATER ADVISORY

This is the second sample containing an unacceptable level of total coliform. Therefore, the water should be boiled for 5 minutes before drinking. The well should be disinfected using household bleach,(javex) 1 quart mixed in a bucket of water and poured into the well, open taps until the odor of bleach can be noticed and leave in there for 12 hrs. then open an outside tap and let water run until there is no odors left. I will resample then
If you require more information on this report, please do not hesitate to contact me at (506) 876-1198 or at my cellular phone (506) 523-5743.

Yours truly,

Roger Mazcrolle, C.P.H.I. (C)
Environmental Health Officer

cc: Chief Ben Paul

Canada



Health
Canada

Santé
Canada

First Nations Environmental Health Services
261 Ch. Desherbiers
St. Louis, N.B.
E4X 1S2

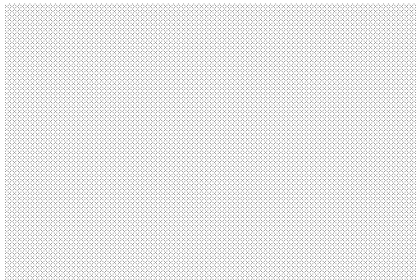
Your file Votre référence

Our file Notre référence

Chief Benjamin Paul
Pabineau First Nation

Chief Paul;

Final inspections were conducted on the sewage disposal systems,
for the following homes.

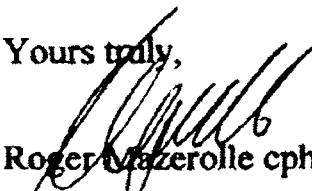


s.19(1)

The septic tank were not replaced, but the disposal fields were
replaced with a total of 16 infiltrators for each systems.

All 3 systems were installed in conformity with our Department's
standards and are hereby approved.

Yours truly,


Roger Mazerolle cphi©
Environmental Health Officer

Canada

Appendix B

Photographs of Infrastructure



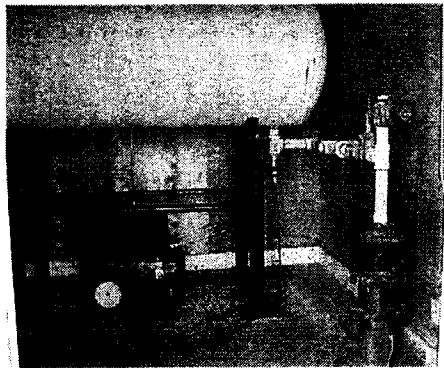
Pabineau Falls Road.



Riverview Street.



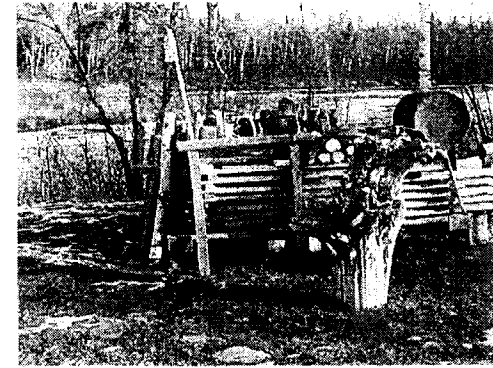
Community pumphouse.



Pressure tank in pumphouse.



Community well (surrounded by wood debris in background) and adjacent camp.



Community well.



Community well.



Fire hydrant at southern end of Pabineau Falls Road.



Peter Paul Street.



Prisk Street.



Highway #430 at Sewell Street.



Sewell Street area.