



Water Quality Report

Submitted by Trevor Andrew, Public Works Department

May 2, 2018

Great Day Everyone,

Adams Lake Indian Band (ALIB) Public Works Department have received numerous complaints about the water quality for the Sahhalkum Indian Reserve #4 (IR 4), Chase, BC Water Systems since we put our new well heads into commission in 2014.

The water quality issues that the community members are seeing is discolored water which is being caused from Manganese and Iron. Manganese is one of the most abundant metals in Earth's crust, usually occurring with iron. It is a component of over 100 minerals but is not found naturally in its pure (elemental) form (ATSDR, 2000). Manganese is an element essential to the proper functioning of both humans and animals.

I do 24 bacteriological water samples monthly which equals 288 yearly, and all the bacteriological water samples have come back negative for anything that can bring harm to the human being. To back up the bacteriological samples we do Chemistry Testing which is a very detailed testing procedure and gives the finer details of what elements are in the water. I have attached the Chemistry results to this newsletter.

Action Plan to Resolve Water Quality Issues

- We met with Indigenous and Northern Affairs Canada (INAC) April 25, 2018 and presented to them the water quality issues for IR 4 Water Systems.
- INAC has approved funding for a proper investigation of the water quality issues
- Western Water and the Public Works Department have joined forces to properly investigate the water quality issues. Collecting daily data on the water parameters.
- Western Water is also doing a Hazard Screening, Risk Mitigation, and Long-Term Monitoring
- Increasing the Chemistry Testing which First Nations Health Authority has approved

When the investigation from Western Water is completed we will be presenting our findings to INAC to for a budget to design and implement a proper water treatment facility to the IR 4 Community Water Systems. If you have any question about the process that we are taking, please call Trevor at 1.250.679.2228.

Also, we will be sharing the data and updates with the community as the investigation continues, we will be more diligent and transparent then we have practiced in the past.

If you have any health concerns about the water, you have the right to call Priscilla Cheung of First Nations Health Authority at 1.250.851.4980 or email her at priscilla.cheung@fnha.ca Priscilla Cheung is the Health Authority that is a 3rd party over looking our water and she will be transparent with you.

We are truly thankful for your patience and we know our communications has been lacking, we are trying to fix our communication with you the community member. We are looking at a better way to update the community members through the newsletter and using the ALIB web site to communicate about the water because you have the right to be informed.

Please continue to send in complaints about the water quality, we need your help and input, so we can have a stronger foundation for INAC to speed up the process. If you have a complaint about the water, phone 250.679.2228 and please take pictures and email them to tandrew@alib.ca. Thank-you,

ALIB Public Works Department

Chemistry Results

FIRST NATIONS HEALTH AUTHORITY
Client Project #: ADAMS LAKE INDIAN BAND
Your P.O. #: CONTRACT 000000014
Sampler Initials: PC

ELEMENTS BY ATOMIC SPECTROSCOPY (DRINKING WATER)

Maxxam ID			TB4943		
Sampling Date			2017/08/25 13:30		
COC Number			2E98F		
	UNITS	AO	ADAMS LAKE INDIAN BAND SAHHALTKUM CWS BINGO HALL	RDL	QC Batch
Total Metals by ICPMS					
Total Iron (Fe)	mg/L	0.3	1.36	0.010	8929793
Total Manganese (Mn)	mg/L	0.05	1.66	0.0010	8929793
No Fill	No Exceedance				
Grey	Exceeds 1 criteria policy/level				
Black	Exceeds both criteria/levels				
RDL = Reportable Detection Limit					

FIRST NATIONS HEALTH AUTHORITY
Client Project #: ADAMS LAKE BAND
Your P.O. #: CONTRACT 000000014

ELEMENTS BY ATOMIC SPECTROSCOPY (DRINKING WATER)

Maxxam ID			TB7440		
Sampling Date			2018/03/08 12:15		
COC Number			10801		
	UNITS	AO	ADAMS LAKE BAND BAND OFFICE - KITCHEN TAP	RDL	QC Batch
Total Metals by ICPMS					
Total Manganese (Mn)	mg/L	0.05	0.0213	0.0010	8931661
No Fill	No Exceedance				
Grey	Exceeds 1 criteria policy/level				
Black	Exceeds both criteria/levels				
RDL = Reportable Detection Limit					

FIRST NATIONS HEALTH AUTHORITY
Client Project #: ADAMS LAKE BAND
Your P.O. #: CONTRACT 000000014

ELEMENTS BY ATOMIC SPECTROSCOPY (DRINKING WATER)

Maxxam ID			TB7467		
Sampling Date			2018/03/08 12:00		
COC Number			2FEB6		
	UNITS	AO	ADAMS LAKE BAND WELL HEAD #3 - RAW	RDL	QC Batch
Total Metals by ICPMS					
Total Manganese (Mn)	mg/L	0.05	0.0112	0.0010	8931661
No Fill	No Exceedance				
Grey	Exceeds 1 criteria policy/level				
Black	Exceeds both criteria/levels				
RDL = Reportable Detection Limit					