



Environmental Operators Certification Program

201-3833 Henning Drive, Burnaby, B.C., V5C 6N5
Ph:(604) 874-4784 Fax:(604) 874-4794 Toll Free 1-866-552-EOCP

August 10, 2005

Attention: Murray Carruthers
BC Parks
400 - 640 Borland Street
Williams Lake BC V2G 4T1

Dear Mr. Carruthers:

Re: Facility Classification

The Environmental Operators Certification Program is pleased to enclose Certificate No. 1239 which classifies the Bowron Water System as a Small Water System.

The classification was done in accordance with the B.C. Guidelines that were established in cooperation with the Association of Boards of Certification.

Yours truly,

Mike Gosselin
Director - Facilities Classification

Encl.

ENVIRONMENTAL OPERATORS CERTIFICATION PROGRAM

Facility Classification

THIS IS TO CERTIFY THAT

Bowron

Water System

has been classified by the Environmental Operators Certification Program in accordance with the guidelines established in co-operation with the Association of Boards of Certification (A.B.C.) as a

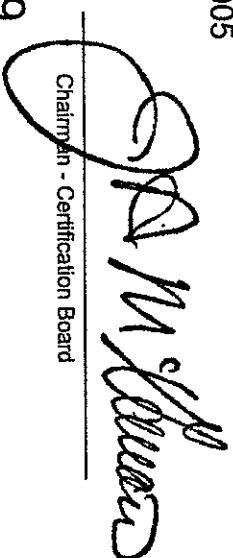
Small Water System

Dated at Burnaby, B.C. on June 4, 2005



Secretary - Certification Board

CERTIFICATE NO. 1239



Chairman - Certification Board



MEMBER OF ASSOCIATION OF BOARDS OF CERTIFICATION
AFFILIATE OF B.C. WATER AND WASTE ASSOCIATION
A Society Incorporated under the Society Act, S.B.C. S-28724



Environmental Operators Certification Program

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Ph: (604) 874-4784 Fax: (604) 874-4794 Toll Free 1-866-552-EOCP

Facility Classification Fee: \$50.00 + GST = \$53.50

APPLICATION FOR CLASSIFICATION OF SMALL WATER SYSTEMS

Application Date: _____

Date Received: _____

Shaded areas will be completed by the Certification Program during confirmation.

- *Notes:
1. Inline treatment such as chlorination and fluoridation are considered part of the water distribution system unless combined with other chemical or physical treatment processes.
 2. Please attach schematic drawing or detailed explanation of system.

Please Print:

Facility Number:

012900

NAME OF FACILITY: Bowron

LOCATION: 113 km East of Quesnel, 18 km Past end of Hwy
Street Address City Postal Code

MAILING ADDRESS: 376 Kinchant St
(if different) Box/Street #
Quesnel BC V2J 2R4
City Province Postal Code

Phone: (250) 992-2901

Fax: ()

E-Mail regah@telus.net

CHIEF OPERATOR: Hagar Business Services
First Name Surname

CERTIFICATE NO. _____

NAME OF OWNER/APPLICANT: WLAP
Municipality, Company, etc...

CONTACT PERSON: Murray Carruthers

TITLE: Section Head, Recreation

MAILING ADDRESS: 400-640 Borland St
Box/Street #

Williams Lake BC V2G 4T1
City Province Postal Code

Phone: (250) 398-4530

Fax: (250) 398-4214

E-mail _____

FOR OFFICE USE ONLY:

Total Points: _____ Facility Classification: _____ Date: _____ Signature: _____

#

6 SLUDGE/BACKWASH DISPOSAL

- a) Disposal to Sewer
- b) Disposal to Raw Water
- c) Evaporative Sludge Drying
- d) Other

Yes	No	
Yes	No	
Yes	No	
Yes	No	

7 DISINFECTION

- a) Chlorination: ☐ Solid ☒ Liquid ☐ Gas (check one)
- b) Ozonation
- c) Ultra Violet Radiation

No	No	
Yes	No	
Yes	No	

8 LABORATORY CONTROL BY PLANT PERSONNEL

- a) Chemical/Physical
 - Push-button or visual methods for simple tests; e.g. pH, temp.
 - Additional procedures - solids, etc.

Yes	No	
Yes	No	

9 OTHER

- a) Flow Measurement ☐ Visual ☐ Mechanical/Magnetic ☐ Ultrasonic
- b) Instrumentation (SCADA)
 - System to provide data with no process operation
 - System to provide data with limited process operation
 - System to provide data with extensive or total process operation
- c) Standby Power
- d) Other

Yes	No	
Yes	No	
Yes	No	
Yes	No	
Yes	No	

COMMENTS BY OPERATOR:

TOTAL POINTS

FOR OFFICE USE ONLY:

Flow Schematics Received

Yes	No
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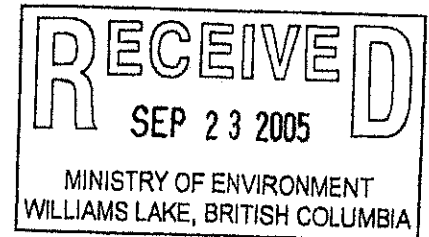
Date entered: _____

Comments:

September 15, 2005

Ministry of Environment
400-640 Borland Street
Williams Lake
BC V2G 4T1

Attention: Murray Carruthers, Recreation Section Head



**Re: Waters Supply System Construction Permit No. 18-W219
Bowron Lake Provincial Park – New Well and Water System**

Please find enclosed the captioned Water Supply System Construction Permit issued under Section 7 of the Drinking Water Protection Act and Section 6 of the Drinking Water Protection Regulation, Province of British Columbia, authorizing construction of the proposed New Well and Water System at the Bowron Lake Provincial Park.

This permit is issued subject to the following terms:

Design Amendments and Conditions

1. A minimum residue Free Chlorine of 0.2 mg/L is maintained in the distribution system;
2. Treated water is monitored for residual chlorine and turbidity daily;
3. Treated water shall have a turbidity of less than 1 NTU. If monitoring indicates that the standard cannot be consistently achieved, additional treatment may be required;
4. Both wells on north side of the parking lot will be decommissioned in accordance with the Code of Practice in the Groundwater Protection Regulation;
5. Treated water samples will be analyzed for BTEX and Petroleum Hydrocarbons annually.

Design Deviations

This permit applies specifically to the works as here-in approved. Any subsequent changes to the design require the submission of amended drawings to the Regional Public Health Engineer and approval before installation of the amended works.

Disinfection

It is the responsibility of the water supplier to ensure that, following completion of construction or repair, all new works are adequately flushed and disinfected in accordance with the appropriate AWWA standard or equivalent. After disinfection, the water must be tested for bacteriological quality by a lab accredited by the BC Ministry of Health Services and satisfactory results obtained before the works are placed in service. A copy of the final test results is to be sent to Mr. Bruce Gaunt, the Northern Health Authority's Drinking water Leader of your area.

Yours truly



Michael Wu, P. Eng.
Regional Public Health Engineer

cc: John Lord, 104, 2nd Avenue North, Williams Lake, BC V2G 1Z6.
Bruce Gaunt, DWL/NI

**ND LEA**

104 Second Avenue North
Williams Lake, BC Canada V2G 1Z6
Tel : (250) 392-5800 Fax : (250) 392-4109
E-Mail : williamslake@ndlea.com

TRANSMISSION

To:	BC Parks	Copy:		Fax No:	
	Murray Carruthers Recreation Section Head				
Fax No:	398.4214				
From:	Geoff	No of Pages:	2	Including this page	
Date:	September 20, 2005	File / Charge No:	82101.002		
Reference:	Letter from Northern Health - Water Supply System Construction Permit #18-W219				

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2005-09-20 10:07

Fax

northern health
Construction Permit
For Water Supply System

NO. 18-W219

TO: Ministry of Environment

THIS IS TO CERTIFY THAT:

Information: Construction Permit Application dated August 30, 2005, and Drawings # C01-C03, D01-D03, all revision B,

prepared and submitted by: ND Lea Consultants Ltd., BC

portraying: installation of approx. 300 m of 38 mm dia series 200 PE to connect to a new well drilled in March 2005; 800 m of 50 mm dia series 200 PE and 5 standpipes; Kinetico Filter model SW 505M and Stenner Chlorinator

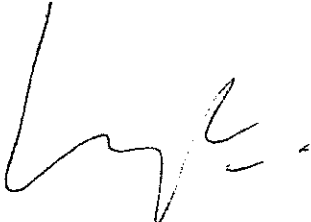
and submitted in accordance with Section 7 of the Drinking Water Protection Act have been approved and the proposed work on the construction, alteration or extension may be commenced in accordance with the approved plans and conditions noted in the cover letter.

This document certifies that the plans and specifications for the proposed works have been reviewed pursuant to the current "Guidelines for the Approval of Waterworks" issued by the Regional Public Health Engineer and that the plans and specifications meet the health protection requirements outlined in the Guidelines.

Standards of structural adequacy and safety of the works have not been considered and are not the subject of this Permit.

September 15, 2005

Date Issued



Michael Wu, P.Eng
Regional Public Health Engineer
for Drinking Water Officer

Hillside
Pumps

**& Water
Treatment**

 WATER, LAND & AIR PROTECTION
WILLIAMS LAKE, BRITISH COLUMBIA

1613A South Lakeside Drive, Williams Lake, B.C. V2G-3A8

PHONE 392-7876 - FAX 392-6290

RECEIVED

APR 11 2005

 Pumps - Tanks
Softeners - Pipe
Wire - Accessories

OWNER'S NAME

DATE

MAR 28/05

ADDRESS

Bowron Lake Prov. Park

WELL NO.

4

TEST NO.

1

SCREEN



TOP OF SCREEN

STATIC WATER LEVEL

3.28

CASING DIAMETER

6"

Measuring Units - metres



feet



litres



imp gallons



US gallons



TIME		ELAPSED TIME	DISTANCE TO WATER	DRAW DOWN	FLOW MEASUREMENT			COMMENTS
hr	min				seconds	quantity	rate	
1	43 pm		3.28				14+ gpm	Placed pump in New
	44/45		3.4				10 gpm	Well - Can see a film on water
	46/48		5.1					(Start pump wide open 14
			5.2					and slow to 10 - pumping
2	58/00		5.18	came up a little				Real grey water at 14 - no
	05/10		5.27					sand till it settles - very
			5.33					fine
	15/20		5.43					
			5.50					
	25/30		5.54					
			5.60					
	35/45		5.65					
			5.69					
			5.76					
3	55/00		5.82					
			5.87					
	15/30		5.92					
			5.97					
4	45/00		6.03					
			6.07					
	15/25		6.10					
			6.14					
	35/45		6.17					
				Try to slow pump to			5+ gpm to see if	
	44/00		5.55	color improves				(Didn't seem to help)
5	00/15		5.22					
			5.15					
	30/45							
6	10/00		5.95				10 gpm	
			6.31					
7	30/00		6.44					
			6.51					
7	30/45		6.57					
			6.63					
				chlorinate well				

Pumps - Tanks
Softeners - Pipe
Wire - Accessories

OWNER'S NAME _____ DATE MAR 28/05
ADDRESS BOWDON LAKE PARK WELL NO. _____
_____ TEST NO. _____
SCREEN ☐ TOP OF SCREEN

STATIC WATER LEVEL	CASING DIAMETER
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Measuring Units - metres ☐ feet ☐ litres ☐ imp gallons ☐ US gallons ☐

Recovery

[illegible]

