



**Yukon  
Water Board**

*Office des eaux  
du Yukon*

July 14, 2010

Government of Yukon  
P.O. Box 2703  
Whitehorse, YT Y1A 2C1

Attention: Rob Walker, Transportaion Engineering Branch, HPW (W-13)

**RE: CORRECTION TO WATER USE LICENCE MS09-288**

Our office has examined water use licence MS09-288 and it is clear the licence contains a typographical error in condition 20 on page 5. This condition, which reads “The in-stream works shall only occur from April 1 to September 1 of any year” should not have been included in the licence.

Attached is a corrected copy of licence MS10-288, with the condition removed.

I very much regret and apologize for any inconvenience that this error may have caused your department.

Sincerely,

A handwritten signature in black ink, appearing to read 'Bruce Willis'.

Bruce Willis  
Chairperson  
YUKON WATER BOARD

cc: Collin Remillard, Government of Yukon Water Inspections Section (V-310)

## YUKON WATER BOARD

Pursuant to the *Waters Act* and *Waters Regulation*, the Yukon Water Board hereby grants a Type B water licence for a Miscellaneous undertaking to:

Government of Yukon  
P.O. Box 2703  
Whitehorse, YT Y1A 2C1

**LICENCE NUMBER:** MS09-288

**LICENCE TYPE:** B                      **UNDERTAKING:** MISCELLANEOUS

**WATER MANAGEMENT AREA:** 2

**LOCATION:** Nordenskiold River, Km 0.0 Freegold Road, Carmacks

**MAP CO-ORDINATES:** Latitude: 62° 06' 00" N Longitude: 136° 19' 01" W to  
Latitude: 62° 05' 59" N Longitude: 136° 18' 59" W

**PURPOSE:** Bridge replacement

**EFFECTIVE DATE:** The effective date of this licence shall be the date on which the signature of the Chairperson of the Yukon Water Board is affixed.

**EXPIRY DATE:** December 31, 2015

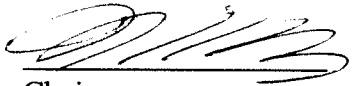
This licence shall be subject to the restrictions and conditions contained herein and to the restrictions and conditions contained in the *Waters Act* and the *Waters Regulation* made thereunder.

Dated this 14<sup>th</sup> day of

Approved by:

July, 2010.

Joelle Jarev  
Witness

  
Chairperson  
YUKON WATER BOARD

**PART A - DEFINITIONS**

“Act” means *Waters Act* and any amendments thereto.

“Application” means Water Use Application MS09-288, including any additional submissions and/or revisions submitted to the Yukon Water Board by the Licensee, up to the date of the Board’s decision.

“Board” means the Yukon Water Board.

"Inspector" means any person designated as an Inspector under the Act.

"Natural Boundary" means the visible high water mark of any lake, river, stream or other body of water where the presence and action of water is so common and usual and so long continued as to mark upon the soil of the bed of the lake, river, stream or other body of water a character distinct from that of the banks thereof, both in respect to vegetation and in respect to the nature of the soil itself. In addition, the best estimates of the edge of dormant or old side channels and marsh areas are considered to be Natural Boundaries.

“Regulation” means the *Waters Regulation* made under the Act.

“Spill Contingency Plan” means the Oil/fuel Handling & Spill Contingency Plan that was submitted as part of the Application and included in Exhibit 1.2 of Water Use Register MS09-288, and any subsequent revisions.

“Waste” means any substance as defined in the Act.

“Watercourse” means any stream, lake, pond, river, creek, spring, ravine or swamp whether ordinarily containing water or not.

“Wetted Perimeter” means the horizontal extent of the present water level while the work is taking place.

**PART B - GENERAL CONDITIONS**

Other Laws

1. No condition of this licence limits the application of any other federal, territorial, first nation or municipal legislation.
2. All construction or installation of works authorized by this licence shall occur on property that the Licensee has the right to enter upon and use for that purpose.

Correspondence

3. Where any direction, notice, order or report under this licence is required to be in writing, it shall be given:
  - a) To the Licensee, if delivered, faxed or mailed by registered mail to the following address:

Government of Yukon  
Highways and Public Works  
P.O. Box 2703  
Whitehorse, YT Y1A 2C1  
Fax: (867) 393-6647

and shall be deemed to have been given to the Licensee on the day it was delivered or faxed or 7 days after the day it was mailed, as the case may be.

- b) To the Board, if delivered, faxed or mailed by registered mail to the following address:

Yukon Water Board  
Suite 106, 419 Range Road  
Whitehorse, YT Y1A 3V1  
Fax: (867) 456-3890

and shall be deemed to have been given to the Board on the day it was delivered or faxed, or 7 days after the day it was mailed, as the case may be.

- c) The Board or the Licensee may, by notice in writing, change its address for delivery.

Non-Compliance

4. In the event that the Licensee fails to comply with any provision or condition of this licence, the Board may, subject to the Act, cancel the licence.

Spills and Unauthorized Discharges

5. The Licensee shall immediately contact the 24-hour Yukon Spill Report number, (867) 667-7244, and implement the Spill Contingency Plan should a spill or an unauthorized discharge occur. A detailed written report on any such event including, but not limited to, dates, quantities, parameters, causes and other relevant details and explanations, shall be submitted to the Board not later than 10 days after the occurrence.
6. All personnel shall be trained in procedures to be followed and the equipment to be used in the containment of a spill.
7. Ten days prior to construction, the Licensee shall submit material safety data sheets to the Board for all petroleum products and/or hazardous materials that are to be present during this undertaking.
8. The Spill Contingency Plan shall be posted on site for the duration of the works.

Fuel Storage and Transfer

9. Fuel, lubricants, hydraulic fluids, coolants and similar substances shall be stored and/or transferred a minimum of 30 metres from the Natural Boundary of any Watercourse, in such a way that said substances are not deposited in or allowed to be deposited in waters.
10. All petroleum products including waste petroleum products and any other hazardous waste shall be transferred and handled without spillage.

Annual Reports

11. On or before the anniversary of the date of issuance of this licence, and for each year during which this licence is in effect, the Licensee shall submit an annual report to the Board. The report shall include the information required by the Regulation including, but not necessarily limited to:
  - a) a description of the water use operations carried out during the year reported; and
  - b) the quantity of water used each day; and
  - c) the hours of pumping for each day; and
  - d) the quantity and size of rip-rap used; and
  - e) any reclamation to the site; and

- f) any inspection reports regarding the slope stability; and
- g) a detailed record of any major maintenance work carried out or planned to be carried out that could have an impact on water.

### Reports

- 12. All reports required to be submitted to the Board will be unbound and reproducible by standard photocopier, accompanied by one electronic copy on a CD/DVD.
- 13. The Licensee shall provide to the Board 5 additional copies of all reports. The additional copies may be either 5 bound paper copies or 5 electronic copies on individual CDs/DVDs.
- 14. Electronic copies shall be IBM compatible in one of the following formats: Word 97 - 2003, Excel 97 - 2003 workbooks, or Adobe .pdf format. Water quality results must be presented in Excel 97-2003 .xls format.

### Term of Licence

- 15. The term of this licence is for the period from the effective date to December 31, 2015.

## **PART C - OPERATING CONDITIONS**

### Description of Water Use

- 16. The Licensee is hereby authorized to:
  - a) install a temporary bridge across the Nordenskiold River at Km 0.0 Freegold Rd.,
  - b) remove the existing abutments,
  - c) construct earthworks and erosion protection,
  - d) construct and install new abutments,
  - e) widen the river at the bridge location by removing the existing protruding north abutment,
  - f) dewater work areas as required for sediment control,
  - g) install the new freespan bridge,
  - h) place rip-rap around the abutments and river bank to prevent erosion, and
  - i) remove the temporary bridge, recontour and revegetate disturbed areas,

as described in the Application, and subject to the conditions of this licence. Where there is a discrepancy between the Application and this licence, the conditions of this licence shall prevail.

- 17. Notification, including the name and phone number of the field supervisor, shall be provided to the Board, in writing, 10 days prior to the start of construction.

**PART D - DESIGN AND CONSTRUCTION**Design

18. Ten days prior to the commencement of construction, the Licensee shall submit to the Board final detailed design construction drawings for the bed and bank modifications. The final detailed design drawings must be consistent with the drawings which were submitted as part of the Application. All drawings shall be sealed by a Professional Engineer licensed to practice in Yukon. All construction shall be carried out in accordance with the final design drawings.
19. Within 60 days of placement across Nordenskiold River the Licensee shall submit to the Board, as-built design drawings of the bridge structure, sealed by a Professional Engineer licensed to practice in the Yukon.

Construction

20. All works associated with the undertaking shall be maintained in good repair.
21. The Licensee shall provide notice to residents on when the bridge will be closed.
22. The Licensee shall avoid construction during wet conditions.
23. Construction and/or maintenance equipment shall be mechanically sound and free of leaks.
24. The tracks and/or wheels of heavy equipment are prohibited from entering the Wetted Perimeter of Nordenskiold River.
25. Granular bedding and backfill material shall consist of non-frozen material.
26. All water withdrawn from the abutment excavation shall be deposited into a constructed sump and/or a natural depression.
27. For the excavation of the abutments, the Licensee shall install or construct and maintain non-erodible cofferdams, silt barriers, or other suitable methods to control siltation downstream of the work area.
28. Excavated material from the Watercourse shall be deposited in a Waste disposal area to be located a minimum of 10 horizontal metres beyond the Natural Boundary of Nordenskiold River.

29. Material excavated from the Watercourse must be deposited in the Waste disposal area in such a manner as to remain in a stable condition.
30. Waste substances shall be used, transported, stored or disposed of in such a manner that they are not deposited, or allowed to be deposited, into any Watercourse or on any surrounding land.
31. Except as authorized by this licence, no Waste shall enter any Watercourse as a result of any operation carried out by the Licensee.
32. All disturbed ground surfaces shall be stabilized in such a manner so as to prevent erosion and surface runoff from carrying sediment into any Watercourse.

#### Water Pumps

33. The Licensee shall provide barriers consisting of fish guards, screens, coverings or nets on all water intakes as follows:
  - a) Screens or nets shall have a minimum of 3.5 openings per centimetre and openings no greater than 3.2 millimetres along any given side.
  - b) If a punch plate or similar material is used, openings shall be no greater than 3.2 millimetres in length or width.
  - c) There shall be no less than 929 square centimetres of open screen for every 205 litres per minute being withdrawn.
  - d) The barriers shall be monitored and maintained to ensure that they function effectively at all times when water is being withdrawn.
  - e) The barriers shall be designed and installed in such a manner that the screen is submerged and a uniform flow distribution is maintained through the total screen area.
  - f) Water shall not be withdrawn when the barrier is removed for renewal, repair or inspection.
  - g) The Licensee shall cease pumping or decanting and take remedial action if there is alteration to the bed or bank of the water channel at the point of withdrawal.

Rip-rap

34. Rip-rap shall be hard, dense, angular, non acid-generating quarry stone or boulders, free of seams, cracks, structural defects and contaminants, freeze-thaw resistant, non-slaking and free of fine-grained materials including silt and sand. Rip-rap gradation will conform to the specifications provided in the Application.

Signage

35. The Licensee shall post signs on or near the bridge structure that reflects the load limit

**PART E - SITE DECOMMISSIONING AND RESTORATION**

36. All disturbed ground surfaces shall be regraded in a manner which is consistent with the topography of the site and which prevents erosion and surface runoff from carrying sediment into any Watercourse. Where soil conditions permit, disturbed areas shall be re-vegetated with appropriate reclamation seeds and/or plant species that are native in Yukon.
37. If there is insufficient time left in the growing season to establish vegetation, the site shall be stabilized and erosion control measures as described in the application shall remain in place until vegetation is established the following spring.
38. All construction materials, equipment, temporary structures and debris shall be removed from the site upon completion of the work.
39. Creosote treated timbers and/or other hazardous materials shall be disposed in accordance with the provisions of the *Special Waste Regulations* of the *Environment Act* of the Yukon Territory and shall include a description of the disposal as part of the annual report.
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