



March 21, 2013

Phyllis Beaulieu
Manager of Licensing
Nunavut Water Board
Gjoa Haven, NU X0E 1J0

Our reference
IQALUIT-#651844

Your reference
1BR-BYR0712

**Re: PIN-4 Byron Bay DEW Line Project – Defence Construction Canada – Type
'B' Water Licence Amendment Renewal Application – Kitikmeot Region**

Dear Ms. Beaulieu,

Thank you for your email of February 19, 2013, concerning Defence Construction Canada's application to amend and renew the PIN-4 Byron Bay DEW Line Project's Type 'B' water licence.

A memorandum is provided for the Board's consideration. Comments/ recommendations have been provided pursuant to the Department's mandated responsibilities under the *Nunavut Waters and Nunavut Surface Rights Tribunal Act* and the *Department of Indian Affairs and Northern Development Act*.

Please do not hesitate to contact me by telephone at 867-975-4555 or email at David.Abernethy@aandc-aadnc.gc.ca for further information.

Yours very truly,

David Abernethy
Regional Coordinator
Water Resources Division
Resource Management Directorate
Aboriginal Affairs and Northern Development Canada
Iqaluit, NU X0A 0H0

Encl.

c.c.: Murray Ball, Manager of Water Resources (AANDC-Nunavut)
Erik Allain, Manager of Field Operations (AANDC-Nunavut)

Memorandum

TO	Phyllis Beaulieu Manager of Licensing Nunavut Water Board	OUR REFERENCE IQALUIT-651844
FROM	David Abernethy Water Resources Regional Coordinator Aboriginal Affairs and Northern Development Canada	YOUR REFERENCE 1BR-BYR0712 DATE March 21, 2013
SUBJECT	PIN-4 Byron Bay DEW Line Project – Defence Construction Canada – Type 'B' Water Licence Amendment Renewal Application – Kitikmeot Region	

A. Project Description

On February 19, 2013 the Nunavut Water Board (NWB or Board) provided notification that Defence Construction Canada had submitted an application to amend and renew the PIN-4 Byron Bay Distant Early Warning (DEW) Line Project's Type B water licence, #1BR-BYR0712. The application consisted of the following documents:

1. Cover letter dated December 12, 2012;
2. Application for water licence amendment;
3. Exploration / Remote Camp Supplementary Questionnaire;
4. Summary : PIN-4 Byron Bay Post Construction Monitoring, English and Inuktitut;
5. Spill Contingency Plan;
6. NIRB Screening Decision (Dated March 29, 2007)
7. Water Use Licence Amendment and Renewal PIN-4, Byron Bay Landfill Monitoring

Interested parties were requested to review the submitted application and provide comments by March 21, 2013.

Defence Construction Canada completed their project reclamation activities in 2012 and are now implementing a monitoring plan to address post closure monitoring requirements for seven landfills (pursuant to the *September 1, 1998 Department of National Defence – Nunavut Tunngavik Inc. Agreement for the Clean-up and Restoration of DEW Sites within the Nunavut Settlement Area*). As stated in the

submitted summary document, “the objective of the landfill monitoring program is to collect sufficient information to assess the performance of the landfills from a geotechnical and environmental perspective. The landfill monitoring plan specifies the requirements for visual inspection, and chemical and thermal monitoring of landfills at the DEW Line sites under DND’s jurisdiction.” Defence Construction Canada are requesting a 25 year licence renewal term to facilitate the implementation of a 25 year post-closure monitoring period with a re-evaluation of the monitoring program at the end of this timeline.

The submitted application requests that the quantity of water used be reduced from 30 to 0 m³/day. Typically five people will be on site for one to two days when conducting the landfill monitoring program and bottled water will be brought on site for domestic use. Sumps will be used for the disposal of sewage and grey water. Approximately 1.0 L of groundwater will be obtained from each on-site monitoring well when monitoring program personnel visit the project area.

B. RESULTS OF REVIEW

On behalf of Aboriginal Affairs and Northern Development Canada, the following comments/ recommendations are submitted for the Board’s consideration,

1. Monitoring criteria not specified in submitted landfill monitoring plan

Defence Construction Canada should revise their landfill monitoring plan to include the criteria that will be used to evaluate collected monitoring results. This information would allow for reviewers to understand how it can be determined that the landfills are performing as intended.

2. Fuel storage

Defence Construction Canada should provide secondary containment for all fuel stored on-site. This detail was not included in the submitted Spill Contingency Plan.

3. AANDC Field Operations Contact Information

The contact information for the “AANDC Water Resources Inspector” listed in Section 3.2 of the submitted Spill Contingency Plan is incorrect and should be replaced with the contact information for AANDC’s Manager of Field Operations. The manager can be reached by telephone at 867-975-4295 and fax at 867-975-6445.

4. Spill reporting

In addition to reporting spills to the 24 Hour Spill Report Line and completing the Nunavut Spill Report Form pursuant to the [Spill Contingency Planning and Reporting Regulations](#), AANDC's Manager of Field Operations should be notified of reportable spill in a timely manner. In addition, all spills, regardless of size, should be documented, along with completed clean-up measures, in Annual Report submissions.

5. Requested 25 year renewal term

AANDC has no issues with the requested 25 year licence renewal term.

Prepared by David Abernethy