

## Bijaya Adhikari

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**From:** Horton, Tyler D <tyler.d.horton@esso.ca>  
**Sent:** November 26, 2018 11:24 AM  
**To:** Bijaya Adhikari; Mardy Semmler  
**Cc:** Morrish, Jenna (Calgary); Abel, Keri J  
**Subject:** Bar-C 2018 Annual Water License Report  
**Attachments:** 407011-00427-401-CA-LET-0001-BAR\_C2018AnnualWaterLicenceN7L1-1836-Rev0.pdf

Hi Mardy & Bijaya,

As per the requirements listed in Part B.2 for Water License N7L1-1836, please see the attached 2018 Annual Report for the remediation work completed at Bar-C (Tununuk Point).

Please let me know if you have any questions or concerns regarding the attached document.

Thank you,

**Tyler Horton, E.I.T.**

**Project Manager - Upstream**

Environmental & Property Solutions, Imperial

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23 November 2018

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Inuvialuit Water Board  
P.O. Box 2531  
302, 125 Mackenzie Road  
Inuvik, NT  
X0E 0T0

Attention: Mardy Semmler, Executive Director

Dear Mr. Semmler:

**RE: BAR-C: Tununuk Point - 2018 Annual Report for Water Licence  
N7L1-1836**

As per the requirements listed in Part B.2 for Water Licence Number N7L1-1836, Imperial Oil Resources Ventures Limited (Imperial) is pleased to provide the Inuvialuit Water Board (IWB) with the 2018 Annual Report for the remediation work completed at BAR-C (Tununuk Point; the Site).

Further details on site work completed in 2018 are provided below.

This information was prepared by WorleyParsons Canada Services Ltd., operating as Advisian, on behalf of Imperial.

***a) Water Usage from Water Source***

No water usage was required at the Site during 2018.

***b) Sewage Accepted by the Town of Inuvik***

No sewage was generated at or removed from Site during 2018.

***c) Non-Hazardous Waste***

No non-hazardous waste was generated at or removed from the Site during 2018. Buoys and signage were deployed in September 2018 to indicate three submerged sheet pile clusters remaining from the dock abandonment activities in 2017. These remaining sheet pile clusters are intended to be removed in 2019 in order to eliminate the navigational hazard.

***d) Hazardous Waste***

No hazardous waste was generated at or removed from the Site during 2018.



### ***e) Waste Water Discharge***

No waste water was generated at or discharged at the Site during 2018.

### ***f) Bioremediation Facility Treated Soils***

The bioremediation facility was decommissioned during the 2015 construction season. There were no soils with Type B petroleum hydrocarbons treated at the Site in 2018.

### ***g) Surveillance Network Program Summary***

The surveillance network monitoring stations (i.e., overland discharge points related to the remediation works) were decommissioned at the end of the 2015 construction season, as no further borrow material excavation or bioremediation was planned.

### ***h) Monitoring Plan Summary***

Capping of Landfills A and B was completed during the 2015 construction season. No additional thermistors or groundwater monitoring wells were installed in 2018.

A summary of the tasks associated with the ongoing Monitoring Plan for the landfills and waste disposal areas (WDAs) is presented below:

#### **a) Groundwater Monitoring**

Baseline groundwater monitoring was completed in 2015 (Year 1) and groundwater monitoring (Year 3) was completed in 2017. At present, there are insufficient data to determine any statistical trends per the Abandoned Military Site Remediation Protocol (AMSRP). The next scheduled groundwater monitoring event is in 2019.

#### **b) Post-Construction Monitoring**

Baseline post-construction monitoring and inspection of the landfills and WDAs was completed in 2015 (Year 1) and 2017 (Year 3). Download of thermistor data, replacement of thermistor batteries and landfill cap integrity assessments are next scheduled for 2019 (Year 5).

#### **c) Natural Environment Monitoring**

Natural environment data were not collected during 2018 due to limited Site presence.

### ***i) Reclamation Activity Summary***

No additional reclamation activities were completed in 2018.

### ***j) Modifications to the Reclamation Project***

No modifications were made to the reclamation project in 2018.



***k) Studies***

No studies were required by the IWB in 2018 and no future studies are planned.

***l) Plan Updates***

- a) Waste Management Plan  
No updates or revisions were made to this plan in 2018.
- b) Spill Contingency Plan  
No updates or revisions were made to this plan in 2018.
- c) Quality Assurance/Quality Control Plan  
No updates or revisions were made to this plan in 2018.
- d) Monitoring Plan  
No updates or revisions were made to this plan in 2018.
- e) Remedial Action Plan  
No updates or revisions were made to this plan in 2018.

***m) Discharges and Spills***

No discharges or spills occurred in 2018.

***n) Spill Training***

Training on spill mitigation and clean up procedures was included as part of the pre-mobilization discussions with on site staff and subcontractors, during the project kick-off meetings or during Site orientation.

**Closure**

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We trust that the information provided satisfies the conditions of the Water Licence Part B.2. Please feel free to contact the undersigned if you have any questions or comments.

Sincerely,

A handwritten signature in black ink, appearing to read 'Jenna Morrish'.

**Jenna Morrish, M.Sc.(Eng.), P.Eng.**  
Staff Environmental Engineer

**Advisian, Americas**