



Sahtu Land and Water Board

Staff Information Report

Division: Land and Water Program	Report No. 1
Date Prepared: August 30, 2019	Files: S16L8-002, S17L8-005, S17X-006
Meeting Date: September 4, 2019	
Subject: Public review completed 2018 Annual Reports: S16L8-002, S17L8-005 and S17X-006	

1. Purpose/Report Summary

The purpose of this Report is to present to the Sahtu Land and Water Board for information on the following three public review completed 2018 Annual Reports:

- a) 2018 Annual Water Licence (**S16L8-002**) Report;
- b) 2018 Annual Water Licence (**S17L8-005**) Report;
- c) 2018 Annual Land Use Permit (**S17X-006**) Report.

Although formal Board approval is not required under the Licence/Permit, the Board must be satisfied that the Licensee/Permittee has met the requirements of the Licence/Permit.

2. Background

Board Staff wants to provide information on three 2018 Annual Reports (for the authorizations cited below) that were reviewed using SLWB's Online Review System during July-August 2019.

The Licensee/Permittee are expected to submit Annual Reports by the due date given in the corresponding Licence/Permit Condition (condition numbers cited below). In general, Annual Reports are expected to be submitted by March 31, every year, reporting about the project activities of the previous calendar year.

Licence/Permit #	Proponent	Condition #	Annual Reports Due Date
S16L8-002	DFO	Part B, C 1	Mar 31
S17L8-005	Imperial	Part B, C 1	Mar 31
S17X-006	GNWT-MACA	Part C, 26(1)(b) C 7	Mar 31

2.1 Public Review Timeline for the 2018 Annual Reports

Licence/Permit	Reports Received Date	Reports Distributed (ORS)	Distribution List	Review Comments Due Date	Proponent Response Due Date	Public Review Outcome
S16L8-002 (DFO)	June 26_19	Jul 11_19	Tulita Dist. (SLWB)	Aug 6_19	Aug 12_19	No comments received
S17L8-005 (Imperial)	May 2_19	Jul 16_19	Imperial Oil (SLWB)	Jul 30_19	Aug 6_19	No comments received
S17X-006 (GNWT-MACA)	May 2_19	Jul 11_19	Tulita Dist. and Fort Good Hope (SLWB)	July 25_19	Aug 1_19	No comments received

(Recorded in Review Comment Tables: References 4, 5 and 6).

3. Discussion

3.1 S16L8-002: Project Overview and 2018 Annual Report Review

3.1.1 Project Overview - S16L8-002 – Repair of Canadian Coast Guard Wharf

S16L8-002 is a Type B Water Licence (valid from April 19, 2017 to April 18, 2019) issued to **Fisheries and Oceans, Canada**, to complete repairs to the Canadian Coast Guard Wharf located within the Town of Norman Wells, NT. The project involves two main components of work for the existing federally owned steel sheet pile (SSP) wharf: The demolition and removal of the top 2m of existing SSP and backfill and the installation of new SSP which will be welded to existing SSP above the water line and new, full-length SSP installed when required.

3.1.2 2018 Annual Water Licence Report (S16L8-002) – Information for the Annual Report was presented in accordance with the annual reporting requirements of the Water Licence.

The report (Reference 1) provides information on (excerpts from the report are italicized):

a) Details of works completed, including restoration:

- *March 2018 - HRN Contracting Ltd. dredged by tracked excavator operating from a built-up ice pad on the Mackenzie River adjacent to the wharf. Based on survey measurement, 925 m³ of material were removed. Dredged material was trucked onto the top of the wharf where it was stockpiled pending environmental sampling. Aecom sampled and arranged for testing of this material. Following acceptable testing results, the dredged materials were disposed of at the Norman Wells landfill.*
- *26 July 2018 to 21 October 2018 - Northern Industrial Construction:*
 - *Excavated the top ~2.5 m of gravel around the inner edge of the sheet-pile;*

- *Cut and removed the top ~2 m of existing damaged sheet-pile;*
 - *Welded new sheet pile onto the remaining the sheet-pile;*
 - *Repaired tie-backs;*
 - *Backfilled the excavation;*
 - *Cast a concrete collar around the inner edge of the sheet-pile; and*
 - *Welded ladder rungs.*
- Anticipated work in 2019
Northern Industrial Construction will address seasonal deficiencies including:
- *Placing/compacting gravel on the upper deck of the wharf; and*
 - *Sealing joints in the concrete deck.*
- b) List of unauthorized discharges – no unauthorized discharges in 2018;
- c) Details on water use or waste disposal requested by the Board by November 1st of the year being reported – no additional details requested by the Board in 2018;
- d) Report detailing the results of the annual summer site inspections as set out in Part G items 1 to 3- Part G of licence require the licensee to monitor and inspect the closure and reclamation activities to ensure that restoration efforts are successful.
Project activities in 2018 comprised riverbed dredging, and construction on the non-vegetated wharf surface. Accordingly, reseeding and associated inspection were not required. GNWT ENR inspectors (wildlife manager and water resource officers) conducted inspections on 22 March, 5 September, and 24 October 2018;
- e) Summary of modifications – no modifications in 2018;
- f) Updates on Management Plans – no updates/revisions to the plans in 2018.

3.1.3 Summary of Public Review of 2018 Annual Report (S16L8-002) – The Annual Report was distributed for public review and received no comments or concerns from stakeholders (Ref: Section 2.1). GNWT- Department of Environment and Natural Resources (GNWT-ENR) provided a formal response for the same (Reference 4).

3.2 S17L8-005: Project Overview and 2018 Annual Report Review

3.2.1 Project Overview - S17L8-005 – Dredging at Mainland Dock Area

S17L8-005 is a Type B Water Licence (valid from Jan 29, 2018 to Jan 28, 2020) issued to **Imperial Oil Resources N.W.T Limited**, to complete dredging of approximately 3000 m³ of material at the Imperial Mainland Dock on the Mackenzie River to recover road material lost due to erosion from spring break-up that has been deposited in a bay area where it is causing grounding issues for transport vessels for the Norman Wells Operations. The material was to be removed by the use of a track hoe. The work was expected to take place between February 1 to April 1, 2018.

3.2.2 2018 Annual Water Licence Report (S17L8-005) – Information for the Annual Report was presented in accordance with the annual reporting requirements of the Water Licence.

The report (Reference 2) provides information on (excerpts from the report are italicized):

- a) Details of works completed, including restoration:

- *Between April 24th and April 27th 2018, roughly 200 m³ of soil was removed from the Imperial mainland dock to address grounding issues with vessels. This volume estimate is based on field observations (number of work hours and loads per hour). Soil was removed using a track mounted excavator and hauled for use elsewhere onsite. For reference, the as-built drawing for this work is appended with the 2018 annual report. The as-built was previously provided to the SLWB to fulfill Licence Condition 12 (Part B).*
- *To mitigate potential for localized total suspended solids (TSS) in the vicinity of the work area, work was completed when the water was frozen to the river bed.*

- b) List of unauthorized discharges – no unauthorized discharges in 2018;
- c) Details on water use or waste disposal requested by the Board by November 1st of the year being reported – no additional details requested by the Board in 2018;
- d) Report detailing the results of the annual summer site inspections as set out in Part G items 1 to 3: Part G of licence require the licensee to monitor and inspect the closure and reclamation activities to ensure that restoration efforts are successful.
As described, to mitigate potential for localized total suspended solids (TSS) in the vicinity of the work area, work was completed when the water was frozen to the river bed. Dredging work occurred below the normal water level of the river, thus landscaping or reclamation work (including re- seeding) was not required. Increased sedimentation was not observed over the summer months;
- e) Summary of modifications- no modifications in 2018;
- f) Updates on Management Plans – no updates/revisions to the plans in 2018.

3.2.3 Summary of Public Review of 2018 Annual Report (S17L8-005) – The Annual Report was distributed for public review and received no comments or concerns from stakeholders (Ref: Section 2.1). GNWT- Department of Environment and Natural Resources (GNWT-ENR) provided a formal response for the same (Reference 5).

3.3 S17X-006: Project Overview and 2018 Annual Report Review

3.3.1 Project Overview - S17X-006 – Groundwater Monitoring Well Installation Project – Various communities

S17X-006 is a Type A Land Use Permit (valid from Jan 29, 2018 to Jan 28, 2023) issued to **Government of Northwest Territories – Municipal and Community Affairs (GNWT-MACA)**, to install monitoring wells in the vicinity of active, decommissioned and/or closed landfill and sewage lagoon facilities in various communities in the Sahtu. Communities included in the project scope are: **a)** Norman Wells – Active Landfill (5 wells), **b)** Colville Lake – Active Lagoon, Active Landfill and Closed Landfill (13 wells), **c)** Fort Good Hope - Active Lagoon, Active Landfill and Closed Landfill (13 wells); and **d)** Tulita – Active Lagoon and Active Landfill (8 wells). It was stated in the project description that number of wells may be modified prior to installation depending on site conditions.

3.3.2 2018 Annual Land Use Permit Report (S17X-006) – Information for the Annual Report was presented in accordance with the annual reporting requirements of the Land Use Permit.

The report (Reference 3) provides information on (excerpts from the report are italicized):

a) A detailed description of the work completed, and an outline of any work anticipated for the next year;

- *Groundwater monitoring wells were installed and sampled at sewage lagoons and solid waste sites in Norman Wells (7 wells), Colville Lake (10 wells), Fort Good Hope (12 wells), and Tulita (11 wells). Locations and depths of the wells are attached, along with surface water sampling locations.*
- *Sampling will continue in future years, but the work under the Land Use Permit is complete.*

Supplementary data: Details of the installed groundwater monitoring wells (borehole and monitoring well locations and active layer groundwater elevations) and surface water sampling locations for all the regions were provided as supplementary information in tabular form.

b) A summary of any inspection reports or actions taken to address non-compliance concerns identified - None identified.

c) Any engineering studies/designs or monitoring results completed or updated during the year - *Samples were taken from the monitoring wells, but the analysis and reporting has not yet been completed. The sampling results will be made available when analysis of the data is completed.*

d) A detailed waste audit of all waste produced, transported, and disposed as per waste management plan –

- *Oils, Fuels: No spills were observed during the activities on site.*
- *Drill cuttings: Drill cuttings were used to backfill the monitoring wells installed, and to mound the steel casing to manage surface water runoff from the drilling location. No drill cuttings were removed from site.*
- *Brush: No brush was cleared during the activities on site, as locations for drilling were selected to minimize brush needing to be cleared.*
- *Domestic refuse: Disposed in the municipal garbage and disposed of at the landfill sites. Approximately 1 m³ of domestic garbage was disposed of at the landfill in each community.*
- *Contaminated groundwater: free product was not observed or detected during groundwater sampling and therefore no water was shipped off of site, other than groundwater samples shipped to the laboratory.*

e) A list of Unauthorized Discharges or spills - None;

f) A summary of all activities that took place under the Engagement Plan including a record and results of discussions related to Traditional Knowledge and community benefits - *Communities were kept updated on the schedule throughout fieldwork as identified in the engagement plan. No additional information was requested. Sampling results are not yet available, so this trigger has not yet occurred.*

- g) Any other details requested by the Board by November 1st of the year being reported - None requested.

3.3.3 Summary of Public Review of 2018 Annual Report (S17X-006) – The Annual Report was distributed for public review and received no comments or concerns from stakeholders (Ref: Section 2.1). GNWT- Department of Environment and Natural Resources (GNWT-ENR) provided a formal response for the same (Reference 6).

4. Conclusion and Recommendation

It was found that the Licensees/Permittee have met the requirements for Annual Reports of the Licences/Permit viz. S16L8-002, S17L8-005 and S17X-006.

Board staff recommend that the Board receive this report for information.

5. References

(Hyperlinks only)

- 5.1 [2018 Annual Water Licence Report \(S16L8-002\)](#)
- 5.2 [2018 Annual Water Licence Report \(S17L8-005\)](#)
- 5.3 [2018 Annual Report \(S17X-006\)](#)
- 5.4 [Review Comment Table and Attached ENR Letter - 2018 Annual Report \(S16L8-002\);](#)
- 5.5 [Review Comment Table and Attached ENR Letter - 2018 Annual Report \(S17L8-005\);](#)
- 5.6 [Review Comment Table and Attached ENR Letter - 2018 Annual Report \(S17X-006\).](#)

Respectfully submitted,



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