



Telephone: 867-678-6698

Fax: 867-678-6699

January 24, 2017

Inuvialuit Water Board
P.O. Box 2531
Inuvik NT, X0E 0T0



Attention: Mardy Semmler, Executive Director

File Number: N7L1-1834
Type of Operation: CLASS B - INDUSTRIAL

Dear Ms. Semmler,

Please find enclosed an inspection report (7 pages) for your review and records. An electronic copy has also been provided by e-mail.

If you have any questions or concerns regarding the enclosed, and/or if additional information is required please contact me at (867) 678-6676.

Sincerely,

Philippe Thibert-Leduc
Water Resource Officer
Environment and Natural Resources
Inuvik Region

Cc: Norman Snowshoe – Acting Superintendent, GNWT ENR Inuvik Region

Enclosure: Industrial Water Use Inspection Report (7 pages)

P.O. Box 2749, Inuvik, NT X0E 0T0



Telephone: 867-678-6698
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January 24, 2017

Shell Canada Energy
400 – 4th Avenue SW
P.O. Box 100, Station M
Calgary, AB T2P 2H5

Attention: Randall Warren, Manager, DAR and Drilling Waste

File Number N7L1-1834
Type of Operation CLASS B - INDUSTRIAL

Dear Mr. Warren,

An inspection of the Shell Canada Energy Water Licence N7L1-1834 (expiry on July 17, 2017) was conducted on August 15, 2016. Specifically, the Water Licence was inspected to ensure that the terms and conditions were met. Enclosed is a copy of the inspection report (7 pages) for your review and records.

There were no violations/non-compliances identified at the time of the inspection.

A copy of this report will be sent to the Inuvialuit Water Board for their review and public records. If you have any questions/concerns regarding the enclosed, please do not hesitate to contact me at (867) 678-6676.

Sincerely,

Philippe Thibert-Leduc
Water Resource Officer
Environment and Natural Resources
Inuvik Region

P.O. Box 2749, Inuvik, NT X0E 0T0



**Cc: Norman Snowshoe – Acting Superintendent, GNWT ENR Inuvik Region
Mardy Semmler – Executive Director, Inuvialuit Water Board
Bijaya Adhikari – Science and Regulatory Coordinator, Inuvialuit Water Board**

Enclosure: Industrial Water Use Inspection Report (7 pages)

P.O. Box 2749, Inuvik, NT X0E 0T0

INDUSTRIAL WATER USE INSPECTION REPORT

LICENCE #:	N7L1-1834	EXPIRY DATE:	July 17, 2017
LICENCEE:	Shell Canada Energy	PREVIOUS INSPECTION:	July 31, 2014 (GWNT Lands)
COMPANY REP:	Randall Warren, Manager, DAR and Drilling Waste	INSPECTION DATE:	August 15, 2016

WATER SUPPLY

Source:	Mackenzie River Middle Channel (winter) & unnamed lake north of the camp (summer)	Quantity Used:	N/I
Owner/Operator:	Shell Canada Energy	Meter Reading:	N/A

Indicate: A - Acceptable U - Unacceptable N/A - Not Applicable N/I - Not Inspected

Intake Facilities	N/A	Storage Structures	A	Treatment Systems	N/A	Recycling	N/A
Flow Meas. Device	N/A	Conveyance Lines	N/A	Pumping Stations	N/A	Chem. Storage	N/A
Water Delivery Truck	N/A	Modifications	N/A				

Water Supply Comments:

- It is understood that drinking water was barged in from the Town of Inuvik. All other water used for domestic purposes was obtained from the Mackenzie River in the winter and the unnamed lake to the north of camp facilities in the summer.
- An aerial inspection of the summer water withdrawal site was conducted and no environmental concerns were identified. The area appeared to be clean and undisturbed (Figure 1). No equipment was left on site at the time of the inspection.
- All tanks on the camp barge appeared to be in good working condition and the supervisors on site did not report experiencing any issues with the equipment (Figure 2).

WASTE DISPOSAL – SOLID WASTE

Disposal Method		Off-site disposal/Incinerator					
Open Dump	N/A	Landfill	Y	Burn & Landfill	N/A	Underground	N/A
Offsite Removal	N/A	Other	N/A				
Owner / Operator	Shell Canada Energy						

Indicate: A - Acceptable U - Unacceptable N/A - Not Applicable N/I - Not Inspected
 Y - Yes N - No

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INDUSTRIAL WATER USE INSPECTION REPORT

Runoff Diversion	N/A	SNP Samples Collected	N/A
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Solid Waste Comments:

- There were no issues or concerns identified with regards to solid waste disposal.
- During camp operations, organic wastes are incinerated on site using the approved incinerator which appeared to be in good working condition (Figure 3). All other non-hazardous wastes that are not incinerated on site are stored for shipment to the Inuvik landfill.

GENERAL CONDITIONS/REPORTS/PLANS

Indicate: **A - Acceptable** **U - Unacceptable** **N/A - Not Applicable** **N/I - Not Inspected**

C &R Plan	A	Records & Reporting	A	Final Report	N/A
Geotechnical Inspection	N/I	Posting, Signage	N/A	Contingency Plan	A
Restorations Activities	A	Spills	A	O&M Plan	A
Maintenance	A	Modifications	N/A	Annual Report	A

General Condition Comments:

- On August 15, 2016, Water Resource Officer (Inspector) Philippe Thibert-Leduc inspected the Shell Canada Energy Camp Farewell site to assess the Licensee's compliance with Water Licence N7L1-1834 (expiry on July 17, 2017) and associated terms and conditions.
- August 15, 2016 forecast was cloudy with scattered showers and a high of 14°C and low of 11°C, with 4.8 mm of precipitation. Total precipitation for the region in the last 30 days was 65.2 mm.
- All required Annual Reports are posted on Board's public register. In the 2015 Annual Report, it is noted that the tank farm (5 fuel tanks) were decommissioned in the summer of 2015, demolished and shipped out.
- As of the time of the inspection, the structures that remained on site were a fuel trailer, a storage shed, an emergency shelter and the airstrip (Figure 4). A camp barge was docked at the existing barge landing site. There were temporary rig mats installed at the dock to protect the river shore and allow for loading and unloading of the barge (Figure 5). All fuel tanks on the barge appeared to be in good working condition (Figure 6).
- A supervisor was able to produce a copy of the approved Emergency Response & Spill Contingency Plan onsite as per Part F, Item 2 of the Water Licence. The barge was equipped with sufficient spill response materials in the event of a spill.
- At the time of the inspection, there were a numerous windrows of contaminated soil in the process of being remediated (Figure 7). There were also numerous bags of polyurethane layering which was in the process of being recovered (Figure 8).
- As stated in the 2015 Annual Report, remediation and final abandonment related activities are expected to continue until 2017. Please provide an outline of the activities planned for 2017 in the 2016 Annual Report which is due on March 31st, 2017.
- No environmental concerns were observed at the time of the inspection. The bulk of the remediation work as described in the Project Description document appears to be progressing well and nearing its end.
- Please note that as of April 1, 2014, some information has changed under Item 6 of Water Licence N7L1-1834, under "General Procedures for the Administration of Licences Issued Under the

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INDUSTRIAL WATER USE INSPECTION REPORT

Northwest Territories Waters Act in the Northwest Territories". In the future, you may use the following contact information for the Inspector:

o INSPECTOR:

Water Resource Officer (Inspector)
Department of Environment and Natural Resources
Government of the Northwest Territories
PO Box 2749
Inuvik NT X0E 0T0
Phone: (867) 678-6678
Fax: (867) 678-6699

MATTERS FOR FOLLOW UP

- 2016 Annual Report including an outline of the activities planned for 2017.

NON-COMPLIANCE/VIOLATIONS OF ACT OR LICENCE

- There were no other violations/non-compliances observed.

Inspector's Signature: _____

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INDUSTRIAL WATER USE INSPECTION REPORT

INSPECTION IMAGES

Figure 1

Aerial overview of the approved summer water withdrawal site (unnamed lake), looking west.



Figure 2

Incinerator.



INDUSTRIAL WATER USE INSPECTION REPORT

Figure 3
Water and wastewater tanks on the camp barge.



Figure 4
Aerial overview of the Camp Farewell remaining structures (air strip is missing), looking south.





INDUSTRIAL WATER USE INSPECTION REPORT

Figure 5

Barge landing site and rig mats on the shore.



Figure 6

Fuel tanks on the camp barge.





INDUSTRIAL WATER USE INSPECTION REPORT

Figure 7

Aerial overview of the windrows of contaminated soil being remediated, looking southwest.



Figure 8

Aerial overview of the bulk bags of polyurethane layering recovered from the subsurface on site, looking northeast.

