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January 31st, 2008

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DEW Line Clean Up
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RE: Water License Inspection of Hall Beach L.R.R. Station – August 22nd, 2007

The Water Resources Officer (WRO) appreciates the assistance and cooperation provided by Douglas Craig, Environmental Officer for Defence Construction Canada and Project Supervisor, Patricia O'Donnell, who accompanied the Inspector during the inspection of the site.

The following report is based on observations made at the time of the inspections at the Hall Beach –Fox Main- Long Range Radar Station clean up. A review of the terms and conditions of the water license was not conducted during the Inspection because a copy of the Water License could not be found on site.

During the period of Inspection it was noted that, according to information provided by the Site Manager, this site has never been inspected previously and in fact the work on site was at this point only ten days to two weeks from completion.

Immediately following the inspection a Water Use Inspection Form outlining the concerns of the inspector was signed off by the parties with the Inspector.

Part A: Scope and Conditions

No issues were found with respect to the location of the camp as it relates to the information contained within the current license. The current license was issued April 18th, 2003 to the Defence Construction Canada.

The license, as issued, is a Type “B” license classed as Camp Mobilization and Environmental Clean-up Operations.

Part B: General Conditions

The issues of water use fees and security were not included within the context of this inspection.

A review of the Nunavut Water Board FTP – Public Registry was conducted during the writing of this report. It was noted that a copy of the License was not posted on the site. An amendment (Amendment 1) was found on the site. The amendment approved an application from the Licensee to change Part C item 3 of the existing license from an allocation of 30 Cubic Meters per day of water for all purposes to 100 CMD. It was noted however that the effective date of the amendment is April 1st 2008.



During the same review of the Nunavut Water Board FTP – Public Registry an annual report for the 2006 annum, completed by UMA Engineering Ltd. was located. This report is a requirement under the terms and conditions of the Water License. The annual report must include but should not be limited to those items listed in Section 1 (i) through (xvi) of this Part. A review of the report found that items v and vi are not addressed in the report. Missing were as follows;

- No summary of data (GPS coordinates) collected under the monitoring program were provided
- An analysis of data collected during the “Monitoring Program”

The proponent is reminded that an annual report is required to be filed by March 31st 2008 for the year ending December 31st 2007. The annual report **must** include but not be limited to those items listed in Section 1 (i) through (xvi) inclusive, of this part as well as any information required by the Inspector.

The licensee is reminded that it is the responsibility of the licensee to ensure that any documentation submitted by the licensee to the Nunavut Water Board is acknowledged by the Manager of Licensing.

During the period of inspection the Inspector noted that flow meters had not been installed on the intake lines on the water trucks being used water down the roadways and other tasks. When asked how water volumes were being recorded there was no answer available at that time. It is assumed this quantity is added in the quantity noted in the annual reports but it is impossible to be certain. It is noted that Potable water and sewage services are provided by the Municipality of Hall Beach.

Part C: Conditions Applying To Water Use

At the time of the inspection the licensee was allocated the use of 30 Cubic meters of water per day for all purposes as per the original license. As noted an amendment was approved in 2006 allowing for an increase in water use for all purposes to 100 CMD. This amendment however has an effective date of 2008. The Nunavut Water Board is asked to provide clarity on this matter. Water of all uses is to come from the designated Water Supply Lake.

During the period of inspection it was noted that in a number of areas on site, specifically a ditch along the road side and a stream, running parallel to the roadway before exiting via a culvert, were being used as sources of water for both dust suppression and to add water to the trucks carrying crushed materials for packing contrary to the terms and conditions of the current license.

It was stated during the inspection that is was and had been the practice on site for over a year. As this project is now complete the Inspector has concerns that the Licensee conducted their operations contrary to the terms and conditions of the issued license. A review of the Nunavut Water Board FTP site did not located any requests for Modification or further Amendment to the issued license to allow the Licensee to access alternate water sources.

The licensee is cautioned that continued instances of non-compliance with the terms and conditions of issued water licenses or the Act will result in the licensee being the subject of the enforcement measures and penalties provided for under the Act.

The Licensee is reminded to ensure that the intake hoses are equipped with a screen to prevent the entrapment of fish. Samples were not collected at the time of the inspection as samples of this source had already been collected this year.

Part D: Conditions Applying to Sewage Waste Disposal



During the period of inspection it was noted that Sewage was not being processed on site via an On-site Sewage Treatment facility but these services were provided by the Municipality of Hall Beach at the Municipal Facilities.

Samples of the discharge were collected during the period of inspection of the Hall Beach Municipality and thus are not included in the context of this report.

During the period of Inspection there were no sites inspected that held Demolition rinse water used during the decontamination process. Additionally, there were no sites identified during the inspection where water from borrow pits or excavation were transferred to. It is unclear where water from either source was eventually deposited or if any testing prior to deposit was completed by the licensee.

Part E: Conditions To Solid Waste Disposal

During the period of Inspection two Land fill sites were inspected. No Plans were reviewed at the time of the inspection.

Storage containers in an area that was marked as such for storage contained the PCB (Polychlorinated Biphenyl) contaminated materials. These materials were scheduled for back-haul shipment off site on the sea-lift after the Inspection.

The proponent is reminded to include in the 2007 annual report due on March 31st 2008 a list of hazardous materials (Polychlorinated Biphenyls) shipped out of the camp, and the location of the approved treatment facility to which they were sent. All of the foregoing is required information to be included in the annual report. Shipping and receiving invoices are not required so long as the records are available for inspection during the 2008 inspection season.

Part F: Conditions Applying To the Undertaking

During the period of Inspection the site was still active and work on-going. It is unclear to the inspector if the Licensee adhered to the construction parameters submitted with the initial application on January 29th, 2003. It is recommended that as-built drawings be submitted for review to the Nunavut water Board as addendums to the 2007 annual report.

During the period of Inspection the Inspector noted that the Licensee also built a road on the Airport lease to access tower equipment and materials scheduled for removal. It was stated that the Airport staff gave permission to construct the roadway. This roadway however required the installation of culverts and the crossing of a shallow river. This roadway was prone to washing out and was required to access these towers. A review of the Nunavut Water Board FTP site failed to find an application for modification to the current license to allow for the stream crossing and installation of culverts on this roadway.

Given the circumstances the Inspector looks to the Nunavut water Board for clarification on if these applications have been submitted.

Part G: Conditions Applying To Spill Prevention and Contingency Planning

A review of the Water Board FTP site could not locate an approved Emergency Response Plan / Spill Contingency Plan as required by Section 2 of this part. This plan was to have been revised annually and submitted as an addendum to the Annual report.

If the Plan has been submitted to the Nunavut Water Board, the Licensee is directed to provide a copy of the plan as well as a copy of the approval from the Nunavut Water Board to the Inspector within 30 days of receipt of this Inspection Report.



The licensee is reminded that it is the responsibility of the licensee to ensure that any documentation submitted by the licensee to the Nunavut Water Board is acknowledged by the Manager of Licensing.

The Licensee is reminded that as per Section 5 (iii) of this Part the Licensee is required to submit a detailed report on each spill occurrence no later than 30 days following the initial event.

Part H: Conditions Applying To Modifications

During the period of Inspection no modification to the exiting terms and conditions of the undertaking were identified by the Licensee. It was noted however that one of the Borrow areas was less than 30 meters from the Ocean. This was brought to the attention of the Licensee who had no response at that time.

An inspection of the undertaking post closure is recommended to verify the terms and conditions of the current license prior to closing the license.

Part I: Conditions Applying To Abandonment And Restoration

As noted in the current License issued by the Nunavut Water Board the licensee is required to submit Abandonment and Restoration Plans 6 months prior to the completion of on site activities.

It was noted that during the period of inspection that an Abandonment and Restoration Plan was not available for review. A search of the Nunavut water Board FTP during the writing of this report was also not able to locate this Plan.

If the Plan has been submitted to the Nunavut Water Board, the Licensee is directed to provide a copy of the plan as well as a copy of the approval from the Nunavut Water Board to the Inspector within 30 days of receipt of this Inspection Report.

The licensee is reminded that it is the responsibility of the licensee to ensure that any documentation submitted by the licensee to the Nunavut Water Board is acknowledged by the Manager of Licensing.

An inspection of the undertaking post closure is recommended to verify the terms and conditions of the current license prior to closing the license.

The licensee is cautioned that continued instances of non-compliance with the terms and conditions of issued water licenses or the Act will result in the licensee being the subject of the enforcement measures and penalties provided for under the Act.

Part H: Conditions Applying To Monitoring Programs

As noted in the current License issued by the Nunavut Water Board the licensee is required to submit a Monitoring Program to the Nunavut Water Board by September 30th, 2003.

That Plan was to include the following;

1. GPS Coordinates of all surface and subsurface sampling points
2. Specific Components of the visual, soil/water and thermal monitoring program
3. Sampling frequency
4. Physical and Chemical parameters for analysis

It was noted that during the period of inspection that the Monitoring Plan was not available for review. A search of the Nunavut water Board FTP during the writing of this report was also not able to locate this Plan.



If the Plan has been submitted to the Nunavut Water Board, the Licensee is directed to provide a copy of the plan as well as a copy of the approval from the Nunavut Water Board to the Inspector within 30 days of receipt of this Inspection Report.

The licensee is reminded that it is the responsibility of the licensee to ensure that any documentation submitted by the licensee to the Nunavut Water Board is acknowledged by the Manager of Licensing.

Additionally, as per section 3 of this Part a Quality Assurance and Quality Control Plan, approved by an analyst was to have been submitted to the Board 30 days prior to sampling. This Plan is also to be submitted with the Monitoring Plan.

The Licensee is reminded that failure to comply with the terms and conditions of the issued water license or the Direction of an Inspector constitutes an offence under the Nunavut Water and Nunavut Surface Rights Tribunals Act.

Non-Compliance:

During the inspection a number of items were and discussed with the Licensee;

- Submission of Spill Contingency Plan and approval of the Nunavut Water Board within 30 days of receipt of this report
- Submission of Monitoring Plan and sampling analysis to the Nunavut Water Board and the Inspector within 30 days of receipt of this report
- As-built drawings of constructed facilities are required to determine compliance upon final completion of project
- Diversion of water and installation of culverts into a stream bed without a license or approval of the board are contrary to the terms and conditions of the existing license and the ACT. Additionally if these water are fish habitat the Federal Fisheries Act may also have been contravened. Clarification from the Nunavut Water Board on the status of an application for modifications is requested.
- Use of water sources not approved within the License is contrary to the terms and conditions of the License and the ACT. Clarification from the Nunavut Water Board on the status of any applications for amendment or modification is requested.

Andrew Keim
Inspector's Name

Inspector's Signature

Attached under separate cover;
Photos taken during Inspection of July 13th , 2007

Cc:
Peter Kusugak – Manager Field Operations Section- Indian and Northern Affairs Canada
Phyllis Beaulieu – Manager licensing – Nunavut Water Board