



National Defence	Défense nationale
National Defence Headquarters Ottawa, Ontario K1A 0K2	Quartier général de la Défense nationale Ottawa (Ontario) K1A 0K2

29 January 2010

Manager of Licensing
Nunavut Water Board
P.O. Box 119
Gjoa Haven, NU X0B 1J0

Attention: Ms Phylis Beaulieu

Dear Madam:

**Submissions to NWB for Department of National Defence North Warning System
Sites with NWB Licences**

References: A. NWB licence 3BC-CAM0919 Type "B" for CAM-M, Cambridge Bay
B. NWB licence 3BC-SHE0919 Type "B" for CAM-3, Shepherd Bay
C. NWB licence 3BC-FOH0919 Type "B" for FOX-M, Hall Beach
D. NWB licence 3BC-FOD0919 Type "B" for FOX-3, Dewar Lakes
E. NWB licence 3BC-DYE0919 Type "B" for DYE-M, Cape Dyer
F. NWB licence 3BC-BAF0919 Type "B" for BAF-3, Brevoort Island

Enclosed are documents for submission by the Department of National Defence (DND) to the Nunavut Water Board (NWB) as required by the NWB Water Licences for CAM-M, CAM-3, FOX-M, FOX-3, DYE-M, and BAF-3 (refs A to F).

The documents listed below by site are enclosed unless stated otherwise.

CAM-M, Cambridge Bay:

- a. QA/QC Plan for Sampling from CDL-2 (Final Discharge Point of Sewage Treatment Facility) at CAM-M, including a letter from an accredited laboratory accepting the plan; and
- b. QA/QC Plan for Sampling from Final Discharge Point of Bermed Fuel Storage Facilities at CAM-M, CAM-3, FOX-M, FOX-3, DYE-M, and BAF-3 (one Plan for all six sites).

CAM-3, Shepherd Bay:

- a. QA/QC Plan for Sampling from SHE-2 (Final Discharge Point of Sewage Treatment Facility) at CAM-3, including a letter from an accredited laboratory accepting the plan;

- b. QA/QC Plan for Sampling from Final Discharge Point of Bermed Fuel Storage Facilities at CAM-M, CAM-3, FOX-M, FOX-3, DYE-M, and BAF-3 (one Plan for all six sites);
- c. Sewage Disposal Update: Sumps for Sewage Outfalls at CAM-3, FOX-3, DYE-M, and BAF-3 (one Update for the four sites);
- d. An Operation and Maintenance (O&M) Plan for the Landfill and Handling of Solid Wastes at CAM-3 is not enclosed. The landfill at CAM-3 has been capped by the DEW Line Clean-up (DLCU) project and is closed; and
- e. An as-built drawing for the landfill is not enclosed. No as-built drawing exists.

FOX-M, Half Beach:

- a. QA/QC Plan for Sampling from FOH-2 (Final Discharge Point of Sewage Treatment Facility) at FOX-M, including a letter from an accredited laboratory accepting the plan; and
- b. QA/QC Plan for Sampling from Final Discharge Point of Bermed Fuel Storage Facilities at CAM-M, CAM-3, FOX-M, FOX-3, DYE-M, and BAF-3 (one Plan for all six sites).

FOX-3, Dewar Lakes:

- a. QA/QC Plan for Sampling from FOD-2 (Final Discharge Point of Sewage Treatment Facility) at FOX-3, including a letter from an accredited laboratory accepting the plan;
- b. QA/QC Plan for Sampling from Final Discharge Point of Bermed Fuel Storage Facilities at CAM-M, CAM-3, FOX-M, FOX-3, DYE-M, and BAF-3 (one Plan for all six sites);
- c. Sewage Disposal Update: Sumps for Sewage Outfalls at CAM-3, FOX-3, DYE-M, and BAF-3 (one Update for the four sites);
- d. Operation and Maintenance (O&M) Plan for the Landfill and Handling of Solid Wastes at FOX-3; and
- e. An as-built drawing for the landfill is not enclosed. No as-built drawing exists.

DYE-M, Cape Dyer:

- a. QA/QC Plan for Sampling from DYE-2 (Final Discharge Point of Sewage Treatment Facility) at DYE-M, including a letter from an accredited laboratory accepting the plan;
- b. QA/QC Plan for Sampling from Final Discharge Point of Bermed Fuel Storage Facilities at CAM-M, CAM-3, FOX-M, FOX-3, DYE-M, and BAF-3 (one Plan for all six sites);

- c. Sewage Disposal Update: Sumps for Sewage Outfalls at CAM-3, FOX-3, DYE-M, and BAF-3 (one Update for the four sites);
- d. An Operation and Maintenance (O&M) Plan for the Landfill and Handling of Solid Wastes at DYE-M is not enclosed. The landfill at DYE-M has been cleaned up by the DEW Line Clean-up (DLCU) project and is closed; and
- e. An as-built drawing for the landfill is not enclosed. No as-built drawing exists.

BAF-3, Brevoort Island:

- a. QA/QC Plan for Sampling from BAF-2 (Final Discharge Point of Sewage Treatment Facility) at BAF-3, including a letter from an accredited laboratory accepting the plan;
- b. QA/QC Plan for Sampling from Final Discharge Point of Bermed Fuel Storage Facilities at CAM-M, CAM-3, FOX-M, FOX-3, DYE-M, and BAF-3 (one Plan for all six sites);
- c. Sewage Disposal Update: Sumps for Sewage Outfalls at CAM-3, FOX-3, DYE-M, and BAF-3 (one Update for the four sites);
- d. Operation and Maintenance (O&M) Plan for the Landfill and Handling of Solid Wastes at BAF-3;
- e. An as-built drawing for the landfill is not enclosed. No as-built drawing exists;
- f. An Operation and Maintenance for the Landfarm is not enclosed.
This document was previously submitted as an attachment to the 30 September 2008 letter, Serial # 2092-CNC, addressed to Phyllis Beaulieu, Manager of Licensing, Nunavut Water Board, from Jacques Plante, President, Nasittuq Corp. Attachment 3 was "Water Licence Application – Supplementary Information Requirements for Hydrocarbon-Impacted Soil Storage and Landfarm Treatment Facilities, BAF-3, Final Report, dated 25 September 2008, by Jacques Whitford Limited". In the attachment, please refer to Section 5.0 Operations and Maintenance Considerations and Section 6.0 Surface and Groundwater Monitoring Programs; and
- g. As-built drawings signed and stamped by an Engineer for the Landfarm Soil Remediation Facility are not enclosed.
The drawings were previously submitted as an attachment to the 30 September 2008 letter, Serial # 2092-CNC, addressed to Phyllis Beaulieu, Manager of Licensing, Nunavut Water Board, from Jacques Plante, President, Nasittuq Corp. Attachment 3 was "Water Licence Application – Supplementary Information Requirements for Hydrocarbon-Impacted Soil Storage and Landfarm Treatment Facilities, BAF-3, Final Report, dated 25 September 2008, by Jacques Whitford Limited". In the attachment, please refer to Appendix A, Drawing No. 5 Cross-section Views of Biopiles.

The drawings in the attachment to the 30 September 2008 letter were not stamped and signed. Stamped and signed drawings were forwarded the next week to the NWB.

Please note that the documents below will be forwarded to DND for submission to the NWB later in February.

CAM-3, Shepherd Bay:

- a. Feasibility report addressing the recommendation to install a remote leak detection system.

FOX-3, Dewar Lakes:

- a. Feasibility report addressing the recommendation to install a remote leak detection system.

DYE-M, Cape Dyer:

- a. Feasibility report addressing the recommendation to install a remote leak detection system.

BAF-3, Brevoort Island:

- a. Feasibility report addressing the recommendation to install a remote leak detection system;
- b. QA/QC Plan for Sampling from BAF-3 (Final Discharge Point from the Landfarm) at BAF-3, including a letter from an accredited laboratory accepting the plan; and
- c. QA/QC Plan for Sampling from BAF-5 (Groundwater monitoring wells at the Soil Remediation Facility) at BAF-3, including a letter from an accredited laboratory accepting the plan.

Should you require additional information, please contact:

Respectfully,



Major A. D. Cameron
Facilities Engineer, Radar and Communications Systems,

10 enclosures:

- QA/QC Plan for Sampling from CDL-2 (Final Discharge Point of Sewage Treatment Facility) at CAM-M

- QA/QC Plan for Sampling from SHE-2 (Final Discharge Point of Sewage Treatment Facility) at CAM-3
- QA/QC Plan for Sampling from FOH-2 (Final Discharge Point of Sewage Treatment Facility) at FOX-M
- QA/QC Plan for Sampling from FOD-2 (Final Discharge Point of Sewage Treatment Facility) at FOX-3
- QA/QC Plan for Sampling from DYE-2 (Final Discharge Point of Sewage Treatment Facility) at DYE-M
- QA/QC Plan for Sampling from BAF-2 (Final Discharge Point of Sewage Treatment Facility) at BAF-3
- QA/QC Plan for Sampling from Final Discharge Point of Bermed Fuel Storage Facilities at CAM-M, CAM-3, FOX-M, FOX-3, DYE-M, and BAF-3 (one Plan for all six sites).
- Sewage Disposal Update: Sumps for Sewage Outfalls at CAM-3, FOX-3, DYE-M, and BAF-3 (one Update for the four sites)
- Operation and Maintenance (O&M) Plan for the Landfill and Handling of Solid Wastes at FOX-3
- Operation and Maintenance (O&M) Plan for the Landfill and Handling of Solid Wastes at BAF-3