

● Consulting ● Engineering ● Construction ● Management Services



March 28, 2003

Jim Wall
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File No.: 0171-120-01-08
PIN-3 (3.6)

Nunavut Water
Board

1 2003

Public Registry

Dear Mr. Wall:

RE: 2002 Annual Report - Water Use Licence NWB5FRA0209 for PIN-3, Lady Franklin Point

UMA Engineering Ltd. is submitting the following annual report, as per Part B, Section 1 of the Water Use Licence NWB5FRA0209 issued for the clean up of the PIN-3, Lady Franklin Point DEW Line site. The annual report is being submitted on behalf of Defence Construction Canada and the Department of National Defence. The information presented herein was compiled from the weekly site reports provided by the Site Engineer and the Scientific Advisors.

Summary of Work Completed in 2002

All equipment and materials required for the clean up were delivered to the site via barge. The work camp was set up and some clean up work was completed including:

- Completion of the living and office quarters;
- Installation of a septic tank and construction of the sewage lagoon;
- Installation of fire water tank and pump;
- Installation of drinking water treatment facility;
- Initiation of survey and construction of the landfarm;
- General debris pick-up around the site.

Figure 1 (attached) shows the approximate location of the construction camp and the sewage lagoon at the PIN-3 site.

The remainder of the clean up work, as outlined in the project description, is to be completed in the 2003 season.

Nwb-107.doc

Water Usage

Work crews were on-site at PIN-3 from September 6, for camp set-up, to September 28, 2002. During this time, a total of 81 cubic metres of water were obtained for camp use from the water supply lake. Approximately 77 cubic metres of sewage were discharged to the sewage lagoon.

Surveillance Network Program

As per Section J, Part 1 of the licence, a proposed Surveillance Network Program (SNP) was submitted to the Nunavut Water Board on July 12, 2002. However, we have not yet received any feedback from the NWB regarding the proposed SNP.

A sewage lagoon was constructed in 2002 to support the construction camp as per the specifications included in the water use licence application. However, due to the coarse-grained nature of the materials available at PIN-3, the sewage lagoon was not able to retain the effluent that was discharged into the lagoon. All effluent discharged into the lagoon infiltrated the ground, typically within 8-12 hours of discharge. Because of this, the on-site project team was not able to collect any effluent samples, as per the proposed SNP requirements. Photos of the sewage lagoon are shown in Figures 2-5 attached.

Unauthorized Discharges

Approximately 5 litres of hydraulic fluid was spilled due to a leak from a worn hose on one of the pieces of heavy equipment. A bag of sorbent material was placed on the spill area. The sorbent material, along with 1 cubic metre of affected soil, was excavated and placed in two 205 litre drums.

Community Meeting

Please find attached a copy of the minutes from the community meeting held in Kugluktuk in April 2001.

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We trust the information presented meets the requirements of Water Use Licence NWB5FRA0209. If you have any questions or require clarification, please contact the undersigned at 403-270-9220.

Sincerely,

UMA ENGINEERING LTD.

A handwritten signature in black ink, appearing to read 'Eva Schulz', is positioned below the company name.

Eva Schulz, P.Ag.
Environmental Scientist
eschulz@umagroup.com

Attachments

cc: Scott Hamilton, DCC



Figure 2: 26-Sep-02 6:35pm Truck discharging into lagoon, facing E.



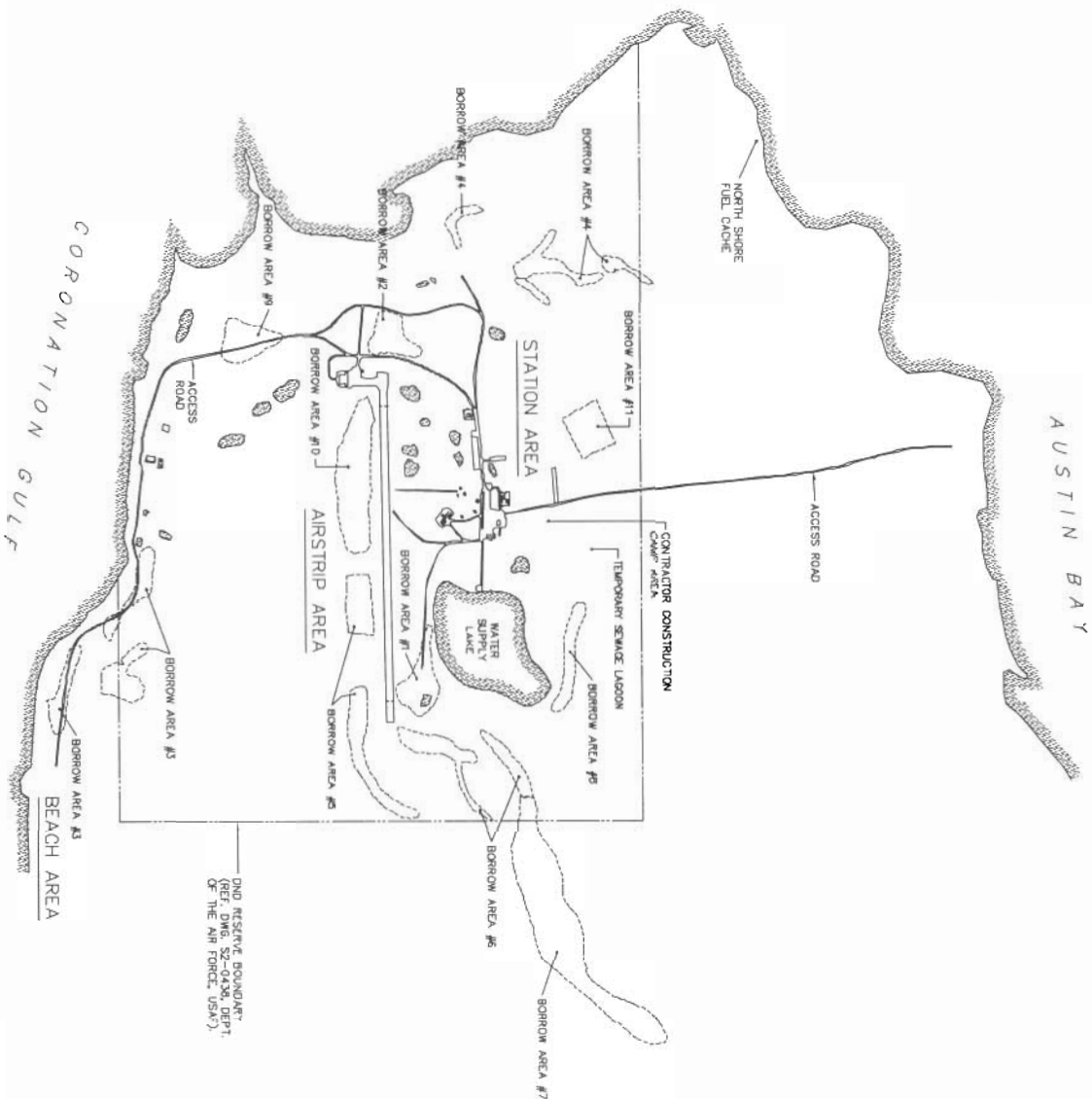
Figure 3: SE corner of lagoon. Effluent drains from point of discharge to east end.



Figure 4: Ten minutes after discharge into lagoon. SE corner of lagoon, facing E.



Figure 5: 27-Sep-02 7:52am Facing NE from SW corner.



DEW LINE CLEAN UP
PIN-3 - LADY FRANKLIN POINT
OVERALL SITE PLAN
FIGURE 1