

SCHEDULE III  
(Subsection 6(l))

APPLICATION FOR LICENCE, AMENDMENT OF LICENCE, OR RENEWAL OF LICENCE

I. NAME AND MAILING ADDRESS OF APPLICANT

2. ADDRESS OF HEAD OFFICE IN CANADA IF INCORPORATED

Defence Construction Canada on behalf of the Department of National Defence  
Place de Ville, Tower B, 17 th Floor  
112 Kent St.  
Ottawa, Ontario K1A 0K3  
Attn: Pete Quinn

N/A

TELEPHONE: (613) 998-9523 FAX: (613) 998-1061

3. LOCATION OF UNDERTAKING (describe and attach a map, indicating watercourses and location of any proposed waste deposits)

Distant Early Warning (DEW) Line site at Clinton Point, Northwest Territories. Refer to Figure 1 for site location. Refer to Figure 2 for overall site plan.

Latitude 69° 35' N Longitude 120° 47' W

4. DESCRIPTION OF UNDERTAKING (describe and attach plans)

The PIN-1, Clinton Point site is one of the 21 sites under the DEW Line Clean Up Project. The aim of the DEW Line Clean Up Project is to decommission facilities no longer required as part of the North Warning System and restore the site to an environmentally safe condition. The environmental clean up includes setting remediation objectives that are designed to preclude the migration of contamination into the Arctic ecosystem / food chain and the removal of facilities so that they no longer pose a health and safety risk. For specific details regarding the clean up of -Clinton Point refer to:

1. Project Description (enclosed)
2. Environmental Screening Report (enclosed)

5. TYPE OF UNDERTAKING

- |                                   |                |                 |   |
|-----------------------------------|----------------|-----------------|---|
| 1. Industrial                     | 4. Power       | 6. Conservation | X |
| 2. Mining and mining              | 5. Agriculture | 7. Recreation   |   |
| 3. Municipal                      |                |                 |   |
| 8. Miscellaneous (describe) _____ |                |                 |   |

6. WATER USE

- |  |   |                                       |
|--|---|---------------------------------------|
| To obtain water                            | X | Flood Control                         |
| To cross a watercourse                     |   | To divert water                       |
| To modify the bed or bank of a watercourse | X | To alter the flow of, or store, water |

Water for Camp and Contractor use will be obtained from the Summer Water Supply Lake, see Figure 2 for location. Water from the lake will likely be pumped into a water tank on a truck using a portable pump and then transferred to a water tank at the Camp. A water storage tank will be located at the Camp for storage of the water supply for the Camp and Contractor. As the contract for the clean up work has not yet been awarded the size of the tank is not available. However, based on clean up work at other DEW Line sites, it is expected a 45,000 litre tank would be used. Wastewater will be discharged to the ground surface a minimum of 30 m from natural drainage courses.

The Environmental Protection Plan (included in Annex H of the Environmental Screening report and Annex B of the Project Description) identifies mitigation measures to ensure protection of fish and fish habitat. These measures include ensuring

water withdrawal rates do not to exceed 10% of total water body volume, and equipping all hoses with screens with mesh size of 2.5 mm or less to prevent the intake of fish.

A drainage course runs along the toe of the Airstrip Landfill, which is to be excavated as part of the clean up. This will result in some modification to the bank of the drainage course, which is less than five metres wide at the ordinary high water mark. In addition, two culverts under the existing roadway will be removed. Refer to Figure 2 for the overall site plan. Refer to Figure 3 for location of drainage course. Refer to Figure 4 for details of the work to be completed on the Airstrip Landfill.

**7. QUANTITY OF WATER INVOLVED** (litres per second, litres per day or cubic metres per year, including both quantity to be used and quality to be returned to source)

Water use is estimated at 30,000 litres/day (30 m<sup>3</sup>/day). It is estimated that domestic water for the camp use will be 12,000 litres/day and contractor use will be 18,000 litres/day. The contractor will require water for, but not limited to, washing vehicles, cleaning tanks and compaction of backfill. Please note the amount of water that the contractor will use will vary depending on daily activities.

**8. WASTE DEPOSITED** (quantity, quality, treatment and disposal)

All wastewater will be discharged to the ground surface on site a minimum of 30 metres from natural drainage courses. Wastewater discharged will be tested and must comply with the wastewater discharge criteria as specified in Appendix A. This includes treated sewage from the construction camp, washwater from contractor's activities and water collected from dewatering of excavation of contaminated soil areas.

Sewage will be pumped to a temporary sewage lagoon for treatment prior to discharge. The temporary lagoon will be situated a minimum of 100 metres from natural drainage courses and 450 metres from water bodies that support aquatic life. See Appendix B for more details.

Non-hazardous solid wastes, which may include site debris, demolition waste and domestic waste, will be disposed of on-site, in a new engineered landfill. Domestic non-hazardous waste will be incinerated prior to disposal in the new landfill. Hazardous wastes will be removed from the site for disposal at a proper licensed facility. Wastes that are considered hazardous are those defined as hazardous under the Northwest Territorial and the Federal legislation or as "hazardous goods" under *Transportation of Dangerous Goods Act*.

**9. OTHER PERSONS OR PROPERTIES AFFECTED BY THIS UNDERTAKING** (give name, mailing address and location; attach list if necessary)

This project should not have any effects on any persons or properties. The nearest community is Paulatuk, approximately 120 km away.

**10. PREDICTED ENVIRONMENTAL IMPACTS OF UNDERTAKING AND PROPOSED MITIGATION**

Refer to the enclosed Environmental Screening Report for the conclusions of the screening and summary of potential effects and mitigation measures. Further details of mitigation measures are provided in the Environmental Protection Plan (Annex H of the Environmental Screening Report and Annex B of the Project Description).

**11. CONTRACTOR AND SUB-CONTRACTORS** (names, addresses and functions)

Contract to be tendered Feb 2001. Contractor and sub-contractors names will not be available until the contract has been awarded.

**12. STUDIES UNDERTAKEN TO DATE** (attach list if necessary)

Please refer to Annex C of the Environmental Screening Report (Initial Investigations) for a complete description of all studies undertaken. The following list provides a brief summary of the past studies:

1991 – Environmental Clean Up Study of 21 DEW Line Sites in Canada. UMA Engineering Ltd. in association with Hardy BBT Limited and Jacques Whitford and Associates Limited. Volume 8 of the report contains site specific results and recommendations for PIN-1. This report concluded that additional sampling be conducted and that remediation and restoration of all facilities be undertaken.

1993 – Environmental Study of Eleven Dew Line Sites. Environmental Sciences Group (ESG). Volume One Part One of the report contains site specific results and recommendations for PIN-1. The purpose of this investigation was to provide information on the environmental status of the site. This report recommended that contaminated soils be removed from three areas at the Station and along the sewage outfall channel.

1993 - UMA Engineering Ltd. conducted a site survey which included: survey of contaminated soil areas, evaluation of closure/remediation requirements for existing landfills, identification of potential areas for the development of new landfills, inventory of all buildings to be demolished, and provided other site specific information as required to develop contract drawings and specifications.

1999- Detailed Site investigations, ESG and UMA Engineering Ltd. This investigation allowed a detailed review of the site investigation data, including the delineation of contaminated soil areas. Final contract drawings and specifications were finalized.

### 13. PROPOSED TIME SCHEDULE

On-site activities are expected to begin July 2001 and be completed October 2002. On-site work will occur during summer months only.

Start date: July 2001 Completion date: October 2002

<u>NATALIE PLATO</u>	<u>ENGINEER</u>	<u>Natalie Plato</u>	<u>12/7/2000</u>
NAME (Print)	TITLE (Print)	SIGNATURE	DATE

#### FOR OFFICE USE ONLY

APPLICATION FEE                      Amount: \$ \_\_\_\_\_ Receipt No.: \_\_\_\_\_

WATER USE DEPOSIT                Amount: \$ \_\_\_\_\_ Receipt No.: \_\_\_\_\_