



Defence Construction  
Canada

Construction  
de Défense Canada

*Please  
cover to  
uma - Calgary  
Attn: ~~uma~~ Jca  
Ena Schultz  
0171-095-67-02*

## PROJECT MANAGEMENT OFFICE DEW LINE CLEAN UP

### DEFENCE CONSTRUCTION CANADA

## PROJECT DESCRIPTION FOR NUNAVUT IMPACT REVIEW BOARD

### CLEAN UP OF FIFTEEN DEW LINE SITES IN THE NUNAVUT SETTLEMENT AREA

June 1998



Defence Construction  
Canada

Construction  
de Défense Canada

DL PMO - ENV

June 8, 1998

Mr. Larry Pokok Aknavigak  
Chair, Nunavut Impact Review Board  
PO Box 2379  
Cambridge Bay, NT X0E 0C0

Dear Sir:

Please find enclosed, on behalf of the Department of National Defence, ten copies of our submission to the Nunavut Impact Review Board for the decommissioning of fourteen Distant Early Warning (DEW Line) radar sites in the Nunavut Settlement Area. This submission is being forwarded to you, as we are required to apply for land use permits pursuant to the *Territorial Land Use Act and Regulations*. I would appreciate if the Board could review this at your next session. Our current planning has the clean up of the first of the fourteen sites, Cambridge Bay, beginning on or about July 1, 1998.

The overall project plan has been the result of several initiatives that have taken place since 1989, including:

- Initial site investigations at all of these sites between 1989 and 1994;
- The development of a baseline protocol for the clean up of these sites designed to preclude the migration of contaminants from the sites into the Arctic food chain and to leave the sites in an environmentally safe condition;
- A comprehensive public consultation program that has been undertaken for the past 6 years in a number of Nunavut communities. This program will continue throughout the implementation phase of the project;
- An extensive environmental assessment program pursuant to the *Environmental Assessment and Review Process Guidelines Order*, which I have included ten copies of the report with this submission. This program examined possible impacts that the clean up itself may have on biophysical, socio-economic and cultural/heritage components of the environment. In those cases where possible impacts were predicted, appropriate mitigation actions were proposed and have been or will be incorporated into site specific Environmental Protection Plans; and
- Most recently, extensive consultation with Nunavut Tunngavik Incorporated (NTI) on the environmental provisions for the clean up. This has resulted in the promulgation of an agreement between the Department of National Defence (DND) and the Inuit, which I have included with this submission. It is important to note that this agreement has not yet been signed by either DND or NTI but this is the version submitted to the Minister of National Defence and 1<sup>st</sup> Vice President of NTI for approval. We expect that this agreement will be signed in the near future and will inform you as soon as this final step is complete.

Place de Ville, Tower B  
112 Kent Street, 17th Floor  
Ottawa, Ontario K1A 0K3  
Fax: 998-1061

Place de Ville, Tour B  
112, rue Kent, 17ième étage  
Ottawa, (Ontario) K1A 0K3  
Télécopieur: (613) 998-1061

Canada

0171-095-Can-814 - N.I.R.B. 1.4.10

cc letters  
only to  
- ASOT

Refer to  
file number

Mentionner  
le dossier

- JHS

- GHS

- Rudy

- Roland

- NAR

- EBA

- GBE

for

info

only

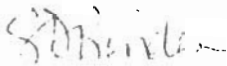
Repeat to  
file

We are currently awaiting the delivery of our 1:50,000 scale topographic maps and will forward them to you as soon as they arrive.

I trust that we have provided the information you require in accordance with the Board's current procedures. I remain available to you or the board to clarify any issue related to this submission at any time. If you have any questions, please feel free to telephone me at (613) 998-9524. Alternatively, I may be reached by facsimile at (613) 998-1061 or by e-mail at [dccenv@smtp.gc.ca](mailto:dccenv@smtp.gc.ca).

I wish to thank you and the Board, in advance, for your consideration of our submission.

Yours truly,



Shawn D. Bindon, M.Sc., P.Biol.  
Environmental Services Division

Enclosures.

cc. Mr. Art Washuta, P.Eng., UMA Engineering Limited  
Dr. Ken Reimer, Royal Military College of Canada  
Mr. Tony Downs, P.Eng., Department of National Defence  
Annette McRobert, Department of Indian and Northern Affairs



Defence Construction  
Canada

Construction  
de Défense Canada

DL PMO – ENV

June 8, 1998

Annette McRobert  
Manager, Land Administration  
Department of Indian and Northern Affairs  
PO Box 1500  
Yellowknife, NT X1A 2R3

Refer to  
file number

Mentionner  
le dossier

Dear Annette:

As we discussed during my last trip to Yellowknife, please find enclosed, on behalf of the Department of National Defence, land use permit and quarry applications and supporting documentation for the clean up of fourteen Distant Early Warning (DEW Line) sites in the Nunavut Settlement Area. The first of these sites to undergo clean up, Cambridge Bay, is scheduled to start on or about July 1, 1998.

For your information, we have concurrently provided a submission to the Nunavut Impact Review Board providing the details of this project. I have included a copy of this submission. An environmental assessment of the clean up of these sites has also been completed and enclosed.

I trust that we have provided all of the required documentation required to allow your Department to issue these permits. I remain available to you or your staff to clarify any issue related to these applications. If you have any questions, please feel free to telephone me at (613) 998-9524. Alternatively, I may be reached by facsimile at (613) 998-1061 or by e-mail at [dccenv@smtp.gc.ca](mailto:dccenv@smtp.gc.ca).

Yours truly,

Shawn D. Bindon, M.Sc., P.Biol.  
Environmental Services Division

Enclosures.

cc. Mr. Art Washuta, P.Eng., UMA Engineering Limited  
Dr. Ken Reimer, Royal Military College of Canada  
Mr. Tony Downs, P.Eng., Department of National Defence

Place de Ville, Tower B  
112 Kent Street, 17th Floor  
Ottawa, Ontario K1A 0K3  
Fax: 998-1061

Place de Ville, Tour B  
112, rue Kent, 17ième étage  
Ottawa, (Ontario) K1A 0K3  
Télécopieur: (613) 998-1061

Canada

**PROJECT DESCRIPTION FOR NUNAVUT IMPACT REVIEW BOARD  
CLEAN UP OF FIFTEEN DEW LINE SITES IN THE NUNAVUT SETTLEMENT AREA**

**TABLE OF CONTENTS**

Part 1	Proponent Identification Information	3
Part 2	Project Identification Information	11
Part 3	Description of the Existing Environment Surrounding DEW Line sites in the Nunavut Settlement Area	30
Part 4	Description of the Public Consultation Process	37
Part 5	Identification of Environmental Effects	42
Part 6	Cumulative Environmental Effects	45
Part 7	Mitigation	47
Part 8	Abandonment and Decommissioning Plan	48
Part 9	Monitoring and Mitigation Plans	49

**LIST OF ANNEXES**

A	List of Permits attributable to DEW Line Clean Up
B	Location of DEW Line Sites in Nunavut Settlement Area
C	Location and Present Sites
D	DND/NTI Agreement (Environmental)
E	Environmental Protection Plan -Example
F	Spill Response Plan

## **PROJECT DESCRIPTION FOR NUNAVUT IMPACT REVIEW BOARD CLEAN UP OF FIFTEEN DEW LINE SITES IN THE NUNAVUT SETTLEMENT AREA**

### **PART 1 - PROPONENT IDENTIFICATION INFORMATION**

Defence Construction Canada  
(on behalf of the Director General Environment, Department of National Defence)  
Place de Ville, Tower B  
112 Kent Street, 17th Floor  
Ottawa, ON K1A 0K3

Phone: 613-998-9524

Fax: 613-998-1061

*Contact Regarding this Submission:* Shawn Bindon, 613-998-9524

*DEW Line Clean Up Project Manager:* Rob Martel, 613-998-9523

*DEW Line Clean Up Contract Manager (Field Supervisor):* John Graham, 613-998-9529

#### **Lead Authorising Agencies**

#### **List Of Approvals, Permits And Licences Required**

The lead agency for this project is the Department of National Defence, represented by the Director General Environment. The management of this project is being provided by Defence Construction Canada. These agencies will be responsible for obtaining permits except in those cases where the clean up contractor is required to do so by legislation.

The types of approvals, permits and licences will vary for each DEW Line site, depending on several factors, including:

- Control of land (i.e. DND versus DIAND; no work is to take place on Inuit owned land);
- Types of materials being transported or stored;
- Location/source of mineral resources (i.e., gravel) that is not located on DND reserves; and
- Proximity of work locations to sensitive environmental components such as migratory bird sanctuaries and fish habitat.

It is anticipated that the permits, licences or approvals listed in Annex A may be required at some or all of the DEW Line sites. In addition, a number of permits or licences may be required by the successful contractor at each site. These permits or licences pertain to the operation and maintenance of the contractors camp or owing to his/her status as an employer. Examples of these permits include those related to the possession of firearms, day to day camp operation and federal/territorial labour codes.

There is no requirement anticipated for either the project management office nor the contractor to obtain the following permits or licences:

- Quarry permits for existing DND gravel sources located within the existing DND reserves;
- Water licences, as existing on-site or commercial sources will be used; and
- Research or archaeological permits, as scientific or archaeological research activities in support of the clean up requiring such permits has been completed.

#### *Legislative Framework affecting the project*

During the implementation of the DEW Line Clean Up Project, all applicable environmental laws, regulations and requirements of federal, territorial and other authorities, will be adhered to. The contractors effecting the work will acquire and comply with those permits, approvals and authorisations as may be required. Annex A is a list of those permits that may be required. The Contractor will be subject to and must comply with those permits and approvals obtained on behalf of and by DND to conduct this work. The Contractor, through all project phases, will work in close cooperation with regulatory authorities and DND to ensure compliance.

#### *Federal Regulatory Overview*

- *The Canadian Environmental Protection Act* regulates toxic substances from their production or import, to consumption, storage and disposal. Key Regulations associated with this *Act* are the *Chlorobiphenyl Regulations* and the *Storage of PCB Regulations*.
- *The Transportation of Dangerous Goods Act and Regulations* promote public safety in the transportation of dangerous goods. The *Act* applies to all handling, offering for transport and from or are destined for any place or places in Canada.
- *The Fisheries Act* protects fish and fish habitat from pollution, negative alteration or disturbance, or impediments to fish movement. Fisheries and Oceans Canada will be given the opportunity to review permit applications or restoration plans.
- *The Arctic Waters Pollution Prevention Act and Regulations* govern development and shipping activity in Arctic waters adjacent to the mainland and islands of the Canadian Arctic, to ensure the continuing welfare of the residents of the areas, and to protect the ecological balance in water, ice and land areas.
- *The Migratory Birds Convention Act* provides for the protection of designated migratory species, including birds of prey, their habitats, and the regulated harvest of certain species.
- *The Canada Wildlife Act* provides for the involvement of the Government of Canada in cooperative research and management programs involving wildlife species normally the responsibility of provinces or territories. This is particularly relevant to rare and endangered species or species such as caribou which seasonally move across regulatory boundaries.