November 10, 2005

Dear Baffin Distribution List

Re: Your comments on this application.

NIRB#: 05DN122

Project: Site Remediation, CAM-5, Macker Inlet, Baffin

Proponent: Defence Construction Canada Inc., Phillip Warren

Nunavut Impact Review Board has received an application for a land application and quarry application near. Please use NIRB file No. 05DN122 and the contact person listed below, in all future correspondence regarding this application.

The application documents are available through the internet on the NIRB ftp site at <a href="https://www://ftp.nunavut.ca/nirb">www://ftp.nunavut.ca/nirb</a> in the folder "05DN122-Site Remediation, CAM-5, Macker Inlet, Baffin, Defence Construction Canada Ltd. ".

Please assess the project proposal for the potential effects on the ecosystemic and socio-economic environments, from your knowledge of the area or your field of expertise.

Please forward your comments and recommendations to NIRB by December 1, 2005 1:00pm local time.

A comment form has been included with the package.

If you have any questions regarding the application, please do not hesitate to contact our office. Your input is greatly appreciated.

Yours truly,

Sylvia Novoligak Environmental Screener Trainee Phone (867) 983-4613 Fax (867) 983-2574 or (867) 983-2594 Nunavut Water Board Nov 1 0 2005

Public Registry

#### COMMENT FORM FOR NIRB SCREENINGS

The Nunavut Impact Review Board has a mandate to protect the integrity of the ecosystem for the existing and future residents of Nunavut. In order to assess the environmental and scioeconomic impacts of the project proposals, NIRB would like to hear your concerns, comments and suggestions about the following project application:

Project Title: Site Remediation, CAM-	5
Proponent: Defence Construction Can	ada Inc.
Location: Macker Inlet, Baffin	
Comments Due By: December 1, 2005	NIRB #: 05DN122
Indicate your concerns about the project	proposal below:
□ no concerns	traditional uses of land
□ water quality	☐ Inuit harvesting activities
☐ terrain	□ community involvement and consultation
□ air quality	□ local development in the area
□ wildlife and their habitat	□ tourism in the area
☐ marine mammals and their habitat	☐ human health issues
□ birds and their habitat	□ other:
☐ fish and their habitat	
☐ heritage resources in area	
Please describe the concerns indicated ab	oove:
Do you have any suggestions or recomme	
Do you support the project proposal? Ye	S   No   Any additional comments:
Name of person commenting:	of
Position:	Organization:
Signature:	Date:
O'S'INCHILL'	

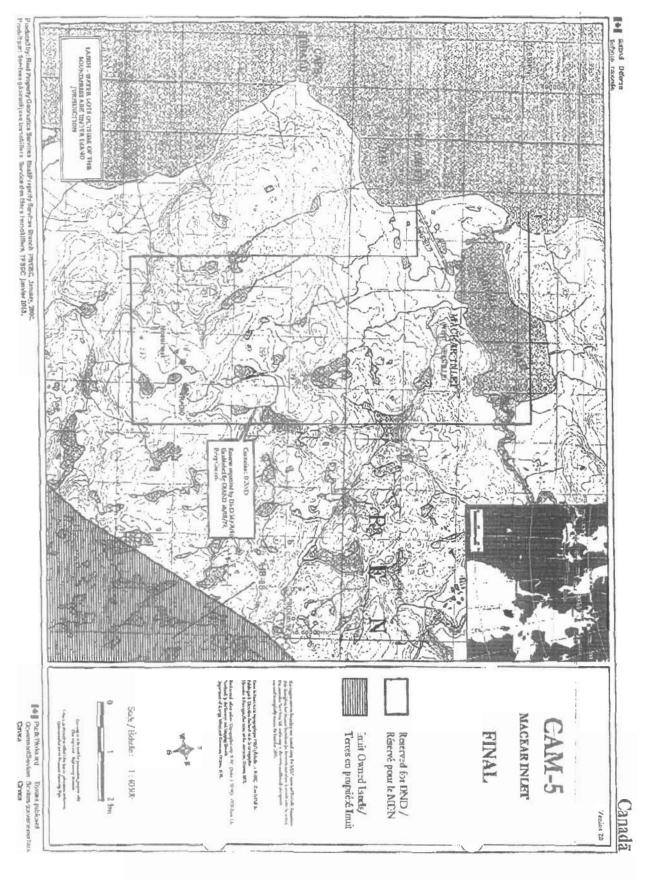
AMA VECOW

The second along the second and the second second and the second and t

APPENDIX A

Drawings

2005-1 13:23 From-ES:E1 12-01-2005



From-

SGE Acres

MMA

AM-5



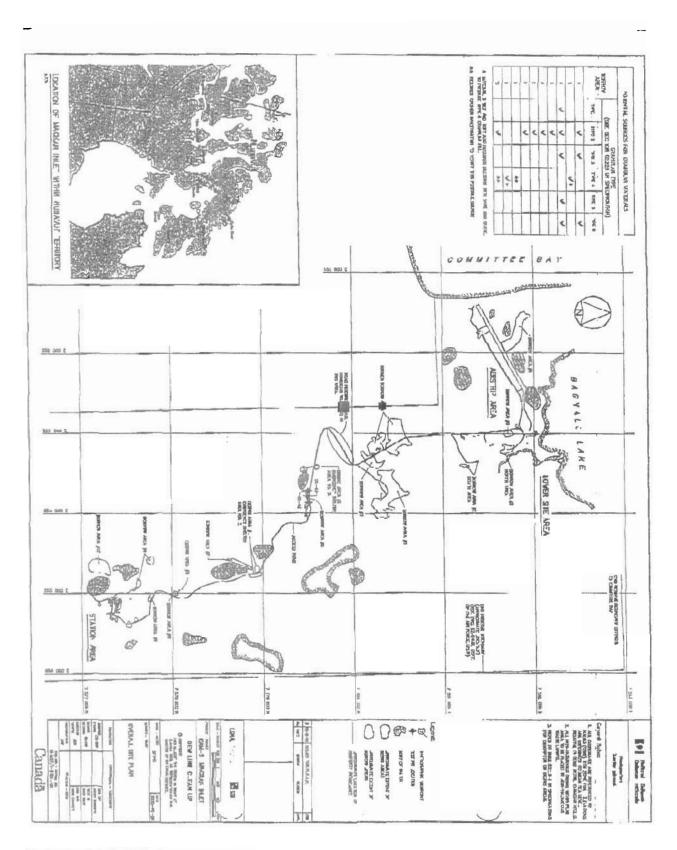
# Défense

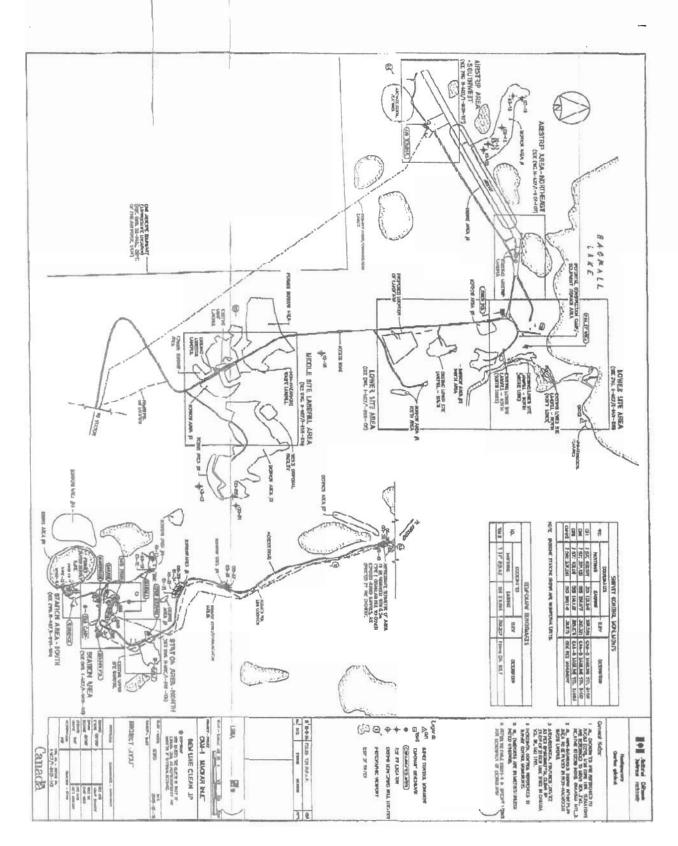
# DEW LINE CLEAN UP PROJECT Defence nationale.

	10 CO 100 CO	ORA	ORAWING INDEX		
AN CHAMAIN	3 TUIL	THE DARWERS	Thu .	DRIMBIC PO	AUCE
Dieses		DIGIS		TANDONES	
Kutath - Tra-10	Men 346 Tycke	11-12th-VIZE-H	SYLEK OF HELDIN MINORFIL	928-15-8-L/529-16	PACKET SAME WILL CY-72
ID-IRO-VIZW II	PRESENT LANGE	H-MZW-PGK-115	NACLES TRADALT	H-1021/1-4-05-32H	PETA CIENTED ACTOR
	War icatus	O IN MONTHUM	THERT JAME STRETCH SH	JE-WO-AVEN-H	MACAGE STATES OF STATES
and the same of	NUMB ON CHEST YAR BORELS		LITTO THE R GU	No. of the Party of the Residence	OU CIE ZONES TO
WA-45 W-1/200-11	SA NYG		GNIBE OF BRIDE SALES	-	PARTY BEARING THE PROPERTY OF THE PARTY OF T
101-101-101-101-101-101-101-101-101-101	TOWN T.E. WILLY	н-юсл-ни-из	ACIE SANDY NO DELY	65-108-17:08-16	MAN AND RECORD
MINTO VINE	UNION THE KENETY	FILTO - VERN	I NO CHEEN TREATMENT	H-427-V-3H-H	STANANCE SERVICES
un-aut-ylana.	AND THE WAY	WI-mot-V.ZPFF	I NE FRONT NOGARYSTAN	II -007/1-1/-078-10	AN BESTON MANAGED AND STREET,
ION-DITTO-NOT	YEAR THEN IN THEM	- Constitution		18-mer-Vanen	HE THE STEE SHE
1	McGrysse sheet	TSGR NACES		NE-INI-VON-V	WALLER WHENT MALE AND THE
E-BE-VAR-4	AN A MACHARITAGE SHIP PROPERTY OF THE PARTY	Or other Parents			
1.1-6.05 VAIN-H	CANCE BLANCE	EE-10 6- VIEW-H	M. N. JJ.B. III.M. FERENCE		
13- East U ASH-19	CORN TE WORL - HORSE	ERE-D.4-VERYH	DANCE AND EXCEPTED	C) curdadir	
114-316-1/004-H	APAC SALE SCROOL ON SERVING	gap-cus-l/gar-i	MANUAL MANUEL WAS BOARDER	CONTRACTOR AND	HER WALTER SEE (MED) IN BLOOF OF THE CHANGE BY THE CHANGE
H-SE-VEN-H	MAN ALL TANK LINE AND THE PROPERTY OF THE PROP	1-85/1-010-30	THUR AND RECORD	10000000	



**JUNE, 2005** 





# 6.0 Description of the Environment

Environmental conditions at CAM-5 were documented by UMA (1991) and ESG (2000, 2002). Those environmental components potentially impacted by, or influencing cleanup operations are summarized below.

#### 8.1 Climate

The mean total precipitation at CAM-5 is 179 mm per year, of which 81.7 falls as rain and 97.0 cm as snow. The mean number of days a year with measurable precipitation is 63, 20 with rain and 43 with snow. The mojority of rain and snowfall occurs from May to October.

The mean annual temperature is -14.8°C, with the mean monthly temperatures ranging from 6.0°C in July to -31.7°C in February. The mean annual wind speed is 12.2 km/hr and is fairly steady throughout the year.

#### 6.2 Hydrology

The CAM-5 upper site is located on a topographical high point at an approximate elevation of 400 mast, while the lower site and airstrip are located between Bagnell Lake and Committee Bay near sea level. Surface drainage from the module train area at the upper site to the lower site generally occurs in a northwest direction through two narrow elongated valleys, which run approximately parallel to each other. Several takes connected by streams flow through the rough bouldery terrain on the valley floor. There is a take in the more westerly valley downgradient of the upper site which partitions its discharge between the two valleys by way of a brief interconnecting valley. The two valleys join a second time before discharging immediately east of the storage pad area at Bagnall Lake. Significant flow discharges at the mouth of this stream occur as a result of the large drainage area encompassed by the two valleys.

Drainage from the upper site flows primarily to the north and east as determined by local topography. Drainage east of the POL storage area is controlled by natural topographic contours which direct the drainage to the head of the more easterly valley. However, some runoff from the werehouse and garage building area flows to the south toward the water supply lake.

The water supply lake is located approximately 280 m south of the module train in a natural depression in the bedrock surface surrounded by boulder-covered terrain. It is 5.5 m deep and has an approximate area of 0.8 ha. There are no streams or lakes which recharge or drain from the water supply lake.

The sewage outfall area discharged to the steep slope immediately north of the module train. The effluent traveled through the steeply graded, boulder covered slope to a grassy, sediment rich deltaic area leading to a lake. This lake is located adjacent to the roadway approximately 1.1 km from the upper site and discharges to a stream which continues through the more easterly valley described previously.

The Upper Site Landfill drains to the north and east along established guillies. At the Lower Site, the surface drainage south of the airstrip is collected by streams and lakes at higher elevations which eventually discharge to Committee Bay, approximately 80 m south of the northwest end of the airstrip. The Lower Site Landfill South drains into the Lower Site Landfill North, which flows north into Bagnall Lake.

Runoff in the immediate vicinity of the airstrip is channeled through a shallow ditch parallel to the runway on its south side. The ditch slopes to the northeast and eventually discharges to Bagnall Lake. Drainage on the north side of the runway is collected by small catchments which also discharge to Bagnall Lake.

DEFENCE CONSTRUCTION CANADA
ENVIRONMENTAL SCREENING FOR THE CLEAN UP OF CAM-5
MACKAR INLET DEW LINE SITE - RPT-074-05

#### 6.3 Geology

The landscape at CAM-5 is comprised of a glacially scoured bedrock terrain characterized by rugged hills separated by narrow elongate valleys. Numerous small lakes, irregular in outline and typically interconnected by poorly defined nurways and drainage channels, are scattered throughout the landscape.

Parts of the area are manifed by a gently rolling blanket of till and others by raised marine sequences. The extent of the raised marine sequences suggests relative sea level drop of at least 160 m since deglaciation.

Periglacial and frost processes have modified the landscape and imparted distinct patterned ground features within the unconsolidated sediments. Exposed bedrock is typically frost shottered.

Three general kinds of surface meterial occur within the landscape. These include bedrock/felsemeer/grass, till and glacio-marine. Fluvial materials are present, but constitute a comparatively small proportion of the surface materials, particularly at higher elevations.

The bedrock within the study area consists mostly of massive or foliated granitoid rocks of Precambrian age. The bedrock is typically jointed and two distinct trends, east-west and north-south, are evident. The jointing is best developed below 180 m elevation. At elevations greater than 180 m, the joints are typically incised and widened by erosion with fluvial and talus material collecting within the bottoms.

Quartz and feldspar are dominant components of the mineral assemblage comprising the bedrock. Weathered surfaces are rusty brown or drab grey and typically lichen-covered.

Till deposits blanket the bedrock within parts of the upland areas. The tills are bouldery with little cobble-, gravel-, and sand-sized material. Frost action and water has crudely sorted the tills and a distinct meshed or netted pattern has developed within the tills throughout the landscape.

Reject marine sediments occur along the northern perimeter of the site. The sediments are wedge-like in outline, broadest nearest sea level gradually tapering to a point several kilometers inland. The surface materials consist mostly of cobble-, gravel-, and sand-sized sediments. Remnant strandlines and broad, shallow, poorly defined drainage courses occur throughout the area.

#### 6.4 Flora

The landscape at the camp is characterized by barren bedrock outcrops and sparsely vegetated knolls. In lowland areas where more soil material is present, plant cover is more abundant. Table 9 presents the common plant types found at CAM-5.

Table 9: Summary of Flora at CAM-5.

Common Name	Scientific Name
Purple saxifrage	Saxifrage oppositifolia
Mountain avens	Dryes spp.
Willow	Salix spp.
Alpine foxlail	Alopecurus alpinus
Wood rush	Luzula spp.
Other Saxifrages	Saxifrage spp.
Sedge	Garex spp
Cotton grass	Erlophorum spp.

DEFENCE CONSTRUCTION CANADA
ENVIRONMENTAL SCREENING FOR THE CLEAN UP OF CAM-5
MACKAR INLET DEW LINE SITE - RPT-074-05

34

UMA AECOM

6,5 Fauna

6.5.1 Terrestrial Mammals

Table 10 provides a summary of the terrestrial mammals either noted at the site or known to occur in the region.

Table 10: Summary of Terrestrial Mammals at CAM-5

Common Name		Comments
Muskox	Ovibos moschatus	May have been present previously, however, muskox no longer exist on Melville Peninsula.
Barren-ground caribou	Rangifer tararidus groenlandicus	Belong to the Melville Herd in this region. Commonly seen at the site.
Polar bear	Ursus maritimus	This region supports one of the largest polar bear populations in the Canadian Arctic. One polar bear was observed during each of the 2000 and 2002 site investigations.
Arctic fox	Alopex lagopus	Were not observed at the site, but likely occur in the region.
Wolf	Canis lupus	A pack of 3 wolves were seen during the 2000 site investigation.
Short haired weasel	Mustela erminea	Known to occur on Melville Peninsula, but were not noted during the site investigations.
Arctic ground squirrel	Spermophilus parryli	Noted at the site during the 2000 and 2002 site investigations.
Arctic hare	Lepus arcticus	Likely occur at the site, but were
Collared lemming	Dicrostonyx torquatus lentus	not noted during the site
Brown lemming	Lemmus sibiricus	Investigations.
Wolverine	Gulo gulo	One noted during the 2000 site investigation.

#### 6.5.2 Marine Mammals

Table 11 provides a summary of the marine mammals which may occur in the region.

Table 11: Summary of Marine Mammals at CAM-5

Common Name	Scientific Name	Comments
Beluga	Delphinapterus leucas	Due to annual ice conditions
Narwhal	Monodon monoceros	most marine mammals do not
Bearded seal	Erignathus barbatus	penetrate into or migrate through
Ringed scal	Phoce hispide	this area. Few narwhal were noted during the 2000 site investigation.

DEFENCE CONSTRUCTION CANADA

ENVIRONMENTAL SCREENING FOR THE CLEAN UP OF CAM 5

MACKAR INLE DEW LINE SILE - RPT-074-05

35

-тол 4

#### 6.5.3 Avlfauna

Table 12 provides a summary of the types of birds that were or may be noted at the site or in the region.

Table 12: Summary of Avifauna at CAM-5

Common Name	Scientific Name	Comments
Snowy owls	Nyctea scandiaca	Known to occur in the region,
Peregrine falcon	Falco peregrinus	although none were noted at the
Gyrfalcon	Faloo rusticolus	alte.
Rough-legged hawk	Buteo lagopus	

#### 6.5.4 Fish

Arctic char (Salvelinus alplnus) were caught recreationally during station operation and during the site investigations.

#### 6.6 Heritage Resources

Three archaeological sites were identified though information supplied by former station personnel during the site investigation in 1990. The first site (Bagnall Lake 1) contained 21 features in four concentrations. The features are represented by a hunting blind, nine caches, two shelters, three tent rings, a possible grave and five unidentified structures which may have been used for multiple functions. The age of the features appear to range from relatively recent (post-dating construction of the station) to perhaps several centuries. Considerable disturbance to the site features occurred prior to the site investigation in 2000, probably through road construction, gravel extraction and natural erosion. This site was not located during the site investigations.

The second previously identified site (Bagnall Lake 2) contained two concentrations of features (Drawing H-M27/1-9101-105). The first consists of a complete tent ring and a partial tent ring which is presently eroding into the river. These teatures appear to pre-date the construction of the station. The second concentration consists of an Inuksuk, an associated cache and tent ring. This area appears to be prehistoric in age.

To the west of the airstrip is a large Inuit site containing 22 features including tent rings, partial tent rings, caches and hearths (Drawing H-M27/1-9101-102). Although the precise age of the site cannot be determined, it is thought to represent occupation from 100-200 years ago.

#### 5.7 Socio-Economic Setting

The nearest community to CAM-5 with a full range of commercial and public services is Hall Beach, approximately 150 km east of the site. Access to CAM-5 is limited to charter aircraft. It is expected that during the construction period, a significant number of person-years of employment will be generated as a result of this project. Additionally, further enhancement of the areas' economy is expected resulting from increased local purchases and use of local businesses. Optimization of Inult involvement in the clean up is included in the DND/NTI Cooperation Agreement – Economic Provisions. A copy of the agreement is in Appendix B.

#### 6.8 Native Land Use

The waters adjacent to this site are a significant source of Arctic char. However, due to the difficult topography, relative isolation of the area and difficult accessibility, it was indicated during the

UMA AECOM

consultations with the Inuit people during the site investigations and community meetings that it is used very little.

#### 6.9 Government Land Use

The DEW Line radar/communications facilities at this site were decommissioned. Short Ronge Radar (SRR) facilities were constructed at a site approximately 25 km north of the CAM-b site. There are no future land uses intended at this site.

Indian and Northern Affaires indiannes Affaires Canada et du Nord Catada

# Page 1 of 5 APPLICATION FOR LAND USE PERMIT

		FOR	OFFICE USE ONLY	Y RESERVE	AUBUREAU		
plication toe	Land use fo	e	General receipt no.	Dale	Class		Permit no.
be completed b	y applicants		X New app	llcation	Amend	mont	
tilp Warren, P.Eng.,	PMP	ddress (Ful	name. no (nitiale)			Fax no. R13-998-0	468
pfence Construction postitution Square, S to Albert Street Lawa, ON K1A DK3	uite 1720			DECE	IVE	Telephone 613-998-7	no. 288
Head office address	ess			A) Ohl Z	2003	Fax no, 5ame as a	buve.
ime aa aboyo.			-			Telephone Same as a	
eld supervisor cld supervisor has re- termined. In the International	crim, please	Radio tale	phone	E-mail address	adec-ede ge.ca	Telephone	10.
Quairfications	eople						
Refer to Section  a) Summary of Refer to Sether the Sether to Seth	n 21 of the Ten a(ii)	scribe purport the Territor des demulii face debris	Use Regulations  X cLi  Dise, nature and location of rial Land Use Regulation  Un of existing facilities, re and gradional the site and gradionstruction site activities.	of all activities.) s (Use last page of the emediation of the emission arms.)	deting landfills, constr	action of two	new landfills, excavation
Refer to Section (a)   a) Stimmary of Refer to Set the clean up of the Cf construction camb revious ground dictionable at a time. Percupped with a mesh size of 2 minimum of 100 meshoo be discharged in Hazardous Waste Listenson (a)   [Based of the construction of the construction of the clean of the construction waste Listenson of the construction waste to the construction of the construction waste to the construction of the	n 21 of the Ten a(ii)	ii) b soribe purpor of the Territo des derivalit face debris ons of the c t the site; his free of car frimum numb e water sup or less to pre mp. any net lagoon. Do so fuels, car on the class.	X oLJ  ose, nature and location of rial Land Use Regulation lour of existing facilities, rearround the site and gradionatruction site activities, one truction site activities, one of the control of the	of all activities.) Is (Use lest page of the eling and resturation of the eling and resturation of the eling and to a tank at the name of the eling at the ramp will be able to a tank at the name of the eling at th	determined. The campoonmodate up to 60 August. Water for the parea, and water first component agusts of the component agust of the component agust of the component agusts of	ps are typical people, with a c camp will be ke hoses will irrected to a two reywater from the residual was	new landfills, excavation ractical. Please see the y set up in areas of an overage of 50 people pumped into a truck be equipped with screens-to-cell lagoon situated a ramp operations will also buried in the Non-tlean up activities. Any



Indian and Northern Alfaires Indiannes at du Nord Ganada

# Page 3 of 5 APPLICATION FOR LAND USE PERMIT

bed truck	
vacuum truok – wet	
scissor neck trailer w/ pin on flip up roll	
40' oilfield float trailer	
Vibratory drum packer (self-propelled)	Compaction Equipment
815 wheeled packer with blade (self-propelled)	
Enviro-lank (2800 L) - skidded	Fuel Tanks and Pumps
Day fuel lank (500 L) - w/ forkiff skid	
Non-potable water tank (1900 L) - unlined, forklift skid	
Utility pump – 5 HP x 2" gas engine	
Camp accommodations	Camp Facilities
mechanics shop & parts storage (45' van)	
Water treatment Plant c/w 3000 gal reservoir & stand-by fire pump	
camp power generators	
Air Hammer drill	Drilla
Oxy-acetyline forchiset	Miscellaneous Equipment
survey equipment	
hydraulic shears (laws of life)	
hot water steam washer - gas powered	
Herman Neison - wheeled (front-light)	
bending machine c/w tools, clips & banding	
9 kg A-B-C Dry Chem Fire extinguishers	
110 kg wheeled Dry Chem A-B-C Fire Extinguisher	
Fertilizer Spreader	
HEPA vacuum cleaner w/ filters	
Haz-mat Filter pump (5 & 25 micron filters)	
portable toilet facilities	
portable 5000W diesel generator	
portable 8600W diesel generator	
19 cubic metre dumpster bin	
4' x 4' stacking garbage bin - skidded for forklift	
Haz-may sorting bins 10' x 20'	
light plant, trailer mounted	
large splli kils (overpack barrels)	
small spill kits (quick response man-pack)	
	scissor reck trailer wi pin on filp up roll 40' olitield float trailer  Vibratory drum packer (self-propelled) 815 wheeled packer with blade (self-propelled)  Enviro-lank (2800 L) – skidded  Day fuel lank (500 L) – wi forkäft skid  Non-potable water tank (1900 L) – unlined, forklift skid  Utility pump – 5 HP x 2" gas engine  Camp accommodations mechanics shop & parts storage (45' van)  Potable water hauling truck (11.400 L)  Potable water pump – 5 HP x 2" gas engine  Water treatment Plant chv 3000 gal reservoir & stand-by fire pump  camp power generators  Air Hammer dritt  Oxy-acetyline torch set survey equipment hydrautic shears (jaws of life) hot water steam wesher – gas powered Herman Nelson – wheeled (front-light) bending machine chv tools, clips & banding. 9 kg A-B-C Dry Chem Fire extinguishers 110 kg wheeled Dry Chem A-B-C Fire Extinguisher Fertilizer Spreader HEPA vacuum cleaner wi filters Haz-mat Filter pump (5 & 25 micron filters) portable toilet facilities portable soloov diesel generator portable 8600W diesel generator 19 cubic metre dumpster bin 4" x 4" stacking garbage bin – skidded for forklift Haz-may sorting bins 10" x 20" light plant, trailer mounted large spitt kits (overpack barre(s))

Indian and Northern Affairs Canada

et du Nord Canada

APPLICATION FOR LAND USE PERMIT

(Use separate pages if necessary.)

See Sections 6.0 and 7.0 of the Project Description for a description of the environment and the potential environmental and resource impacts,

7. Proposed restoration plans (Please use last page if required.)

The DEW Line Glean up Project is assentially a restoration project. For final abandonment and decommissioning plans, see Section 10 of the Project

6. Other rights, licences or permits related to this permit application (mineral claims. Yukon timber permits, water licences, etc.)

A water use license from the Nunavut Water Board has been applied for. A quarry permit application from Indian and Northern Affairs Canada is also

Roads

is this to be a pigneered road? Provide details on back page

Has the route been laid out or ground truthed?

- see attached drawings

#### 9. Proposed disposal methods

a) Garbage: Garbage will be Incinerated and the residual materials will be buried in the Non-Hazardous Waste Landfill.

Sewage (Sanltary and gray water): Sewage and graywater will be discharge Into a 2-ceil lagoon and the effluent tosted prior to discharge.
 The remaining settle solids will be buried on-site.

c) Brushed & trees; N/A

d) Overburden (Organic soils, waste material, etc.): Overburden will be stockpilled for use in grading and contouring of the sile;

10. Equipment (includes drills, pumps, etc.) · NOTE: The equipment list is based on the list provided for a similar DEW Line site and is approximate only. The equipment list will be updated once the contract has been awarded.

Number	Туре	Proposed use
5	Crew Cab	Light Trucks and Misc. Transport
1	40 Passenger Bus	
4	ATV	
3	ATV Trailer	
1	Truck c/w Portable Welder	
1	Fuel Truck	
1 1	Hitachi 300 Excavator w/ shear, chuck blade, wrist& twist digging and clean-up bucket  Wheeled Backhoe wisorting rake  Hitachi 300 LC Excavator w/ digging & clean-up bucket	Excavators
1	TD25 Cat - c/w ripper and tilling shanks	Crawler Tractors and Dozers
1	D6D Cat - c/w winch	
1	D6M - c/w 8 way, manual steer_winch	
1	D3C Cat - o/w back-hoe attachment	
1	makerial handling arms, q.c, bucket, forks	Loaders
1	966D Cat Loader w/ q.c. bucket, forks, ISO forks	
1	1728 (or equal w/ q.c. bucket, forks	
5	D25E - Articulated rock truck	Rock Trucks and Haul Units

Canada

indlan and Northern Affaira Ganada

Affaires indiennes et du Nord Canada

# Page 4 of 6 APPLICATION FOR LAND USE PERMIT

		Quantity	
)iosol	5	02,000 L	
Sasoline		25,000 L	
waten Fuel		rVa	
ropane		r/a	
Other		n/a	
2. Containment fuels  See Section 9.0 of the P		licaco attach separale confirgency plan if neces	sary.)
Fuel will be transforred	includes time to cover	chicles, etc.,) orage tanks either directly to the vehicle/equipme all phases of project work applied for including a	restoration.)
15. Period of permit (u with maximum of p	up to two years.	Start date 2009/03/01	Completion date 2010/03/31
Minimum Latitude Degrees 68 Maximum Latitute Degrees 85	Minutes 17		
Map sheet no: 478	うの うくれいしょ	1. 1.1	,
17. Applicant (Print ful	10	Shursahure / Au / AA	/ Date Aug 31/05
	Class A - \$150	□ Cless B - \$150	\$150.00
18. Fees		Loss than or equal to 2 hectares	\$50.00
18. Fees Land Use Fees:			x\$50.00 = \$
Land Use Paes:	nal hectare over 2 hects	Total application and land use fees	\$
Land Use Paes:	nal hectare over 2 hects		\$
Land Use Pees.		Total application and land use fees	S
Land Use Pees.		Total application and land use fees	TOTAL (For fee calculations)
Land Use Pees: For each addition 19. Calculation of are	ea inyolwed (Indiudes acc	FOR OFFICE LISE ONLY  coss, aleging areas, sirstrips, campellas, etc.)	

Indian and Northern Affaires indiennes et du Nord Canada

# Page 5 of 5 APPLICATION FOR LAND USE PERMIT

Application signed and dated	e) Cúcéaniud valuuti		
b) D Fees attached	n ☐ Timber permit applied	for - Yukon	
e) I I Map included	g) Fees attached		
d) [] Address and telephone number	II) Lease applied for		
Accepted by:		Dato	
Remarks (Please use last page if additional space is	required.)		
21. Agastorial Information (Attach additional pages i	f necassary.)		

Canadä

378-4 S30/300.4 EEI-T

Z002-10-21 13:03 Erom-

Attaires Indiennes of du Nord Canada

# APPLICATION FOR QUARRYING PERMIT DEMANDE DE PERMIS POUR L'EXPLOITATION D'UNE CARRIÈRE

		en. P.Eng., PMP			
	UPATION - PROFESSION				
EMP	LOYER - EMPLOYEUR :	Defence Construction Ca	nada Ltd.		
		ermit for the purpose of taking: wholtation d'une carrière afin d'o	extraire :		
	142,000 cubic	metres of - metres cubes de	gravel		
	cubic	metres of motros cubes de			
	oubic	motres of - metres cubes de			
FRO	M - DE : (Location of Pit - I	Emplacement de la carrière) :	A summary table is provided from the document. I position on the drawlings in Appen	ns are shown	
	NTS MA	P SHEET # - Nº de la carte SNF			
Can	ordinates - Coordonnées :	68° 17' N. 85° 07' W			
CO-O	dingles - mandolinees,	na 17 IV. 65 07 VV			
1.		cupled? And if so, by whom and lerres est occupée? Si oui, per r			
	The land is not occupied.				
2.	The only buildings or oth	er improvements on the said lan	ide are as follows:		
۷.		le site ou aux autres amélioratio			
		ents - Nature de améliorations:	N/A		
		ints - Valeur des améliorations: ants - Propriétaire des améliorat	tions: NA		
	The least to the continuous day	d //fandad danagha appaies	of trans. and appropriate also V		
3.	The land le/ls not wooded. (If wooded, describe species of trees and approximate size.)  Les terres sont/ne sont pas boisées (Si elles sont boisées, décrire les espèces d'arbres et leur taille approximative.)				
	The land is not wooded.			- HIT CO	
4.	The attached plan is a si Un plan des terres susm l'exploitation de camère	entionnées est joint à la présen	quired by the Territorial Quarrying te demande conformément auRèg	Regulations, lomant sur	
				Canada	
		1		CHIMINA	
948-3	Z90/200 d EEI-1				
020 3	930/200 C CCITA		-may -	Z002-10-51 13:03	

-mo13

Indian and Northern Affairs Canada Affaires Indiennes et du Nord Canada

l enclose the required fees as indicated below: J'Inclus les droits de permis indiqués ci-dessous;

QUARRY PERMIT FFE DROITS DU PERMIS D'EXPLOITATION	TOTAL	S	N/A
KÜYALTIES ON SAND, GRAVEL LOAM REDEVANCES SUR LE SABLE. I F GRAVIER ET LA TERRE BLANCHE			
Per cubic metre - Par mètre cube ·	TOTAL	\$	N/A
ROYALTIES ON OTHER BUILDING MATERIALS REDEVANCES SUR LES AUTRES MATÉRIAUX DE CONSTRUCTION Per cubic metre - Par mêtre cuba :	TOTAL	\$	NA
TOTAL FEES - COOTS TOTAUX:		\$	N/A
DATE: A. G. 3 05 SIGNATURE OF APPLICANT - SIGNATURE DIT DEMANDEUR:	6	M	all

Summary of Required Borrow Materials at CAM-5

Borrow Area	Required Granular Materials (cubic metres)
#1	40,000
#2	10,000
	50,000
44	7,000
#5	1,600
#5	600
#7	6,000
#8	2,800
#9	2,000
#10	22,000
TOTAL	142,000

	2	Canada
33 P.008/052 F-876	-Mo14	2005-10-21 13:03

# 7.0 Identification of Environmental Impacts

An environmental assessment of the clean up of CAM-5 was completed in 1998. As part of this assessment, potential interactions between the project components and the environment were identified. The focus of the assessment was on the location, sensitivity, seasonal presence and abundance of these components. Through this assessment, Valued Ecosystem Components (VECs) were identified, which can include physical, biological, socio-economic, historical or cultural components. An update to the assessment is provided in the following sections.

#### 7.1 Valued Ecosystem Components

Valued Ecosystem Components (VECs) are selected as components of the environment that are valued by society and are used as the basis of the environmental assessment. Potential environmental concerns associated with the project were identified through consultations with interested and expert parties, community meetings and previous project experience. The following VECs were identified.

Physical: Protection of permafrost solls, and surface water, especially related to the drinking water supply.

Biological: Tundra habitat including feeding and neating areas for birds, feeding and calving areas for local wildlife, and local vegetation.

Socio-economic: Regional employment opportunities, regional business opportunities, regional training opportunities, and hunting and fishing in local areas.

Archaeological, Historical and Cultural: Archaeological sites identified around the station.

#### 7.2 Impact of the Environment on the Project

The implementation of a clean up project in an Arctic environment such as CAM-5 brings unique logistical issues. The potential exists for delays in the clean up associated with bad weather, which may include work stoppage on-site or delays in the transportation to and from the site of personnel and supplies. Conditions related to the Arctic climate, such as ice and frozen ground may also delay clean up activities. Clean up activities which are best completed at maximum thaw may be delayed depending on seasonal climate changes.

The Department of National Defence (DND) and Nunavut Tunngavik Incorporated (NTI) signed the DND/NTI Agreement for the Clean Up and Restoration of the DEW Line sites within the Nunavut Settlement Area outlining the economic provisions. The agreement includes a Minimum Inuit Content (MIC) for the clean up contract and requirements for training, specifically related to the clean up activities. Generally, the contracts for the clean up of the DEW Line sites include clauses requiring the contractor to maximize Inuit involvement. Inuit involvement in the clean up will include both employment and business (contracting) opportunities.

Typically, labour required for the clean up includes heavy equipment operators, general labourers, as well as environmental and engineering specialists. Other opportunities include cleaning and cooking staff and transportation. The main beneficiaries of the economic input from the clean up will primarily affect the communities of Hall Beach, Igloolik and Kugaaruk. As the contract for the clean up of CAM-5 has not yet been tendered or awarded, the requirements of the communities are not confirmed. A temporary, self-sufficient construction camp will be established at the site to accommodate the contractor and other personnel.

-M017

#### Identification of Cumulative Environmental Effects

Cumulative effects have been defined as changes to the biophysical, social, cultural or economic environments caused by a project component in combination with any on-going, past or future activities. Cumulative effects can occur as interactions between project components (either from the same or more than one site) and/or between environmental components. Effects can occur in one of four ways:

- Physical or chemical transport mechanisms.
- "Nibbling loss" (I.e., gradual disturbanca).
- · Spatial or temporal crowding.
- · Growth induction initiated by the project.

#### 7.3.1 Analysis of Cumulative Environmental Effects

Four steps in the analysis of the oumulative environmental effects of this project include scoping, analysis of effects, mitigation measures, and significance.

Scoping: Scoping includes the identification of issues of potential concern. VECs that could be affected, and boundary setting. The activities considered include the operation of the CAM-5A North Warning System Short Range Radar site approximately 25 km north of the site.

The spatial boundaries include impacts over a larger (regional) area including the crossing of jurisdictional boundaries. As the landfills will remain on site, temporal boundaries extend beyond the time frame required to complete the clean up work

Analysis of Effects: The analysis includes an evaluation of baseline data and possible effects on VECs. The combined interactions between the clean up activities and future land use and those VECs which are similar, are identified.

Mitigation Measures: Mitigation measures are identified for project-environment interactions.

Significance: The interactions are defined as laving a low (L), moderate (M), or high (H) probability of occurring. The next step is to determine the likelihood of significant adverse effects, taking into account appropriate mitigation measures.

#### 7.4 Identification of Mitigation Measures and Residual Impacts

Mitigation measures were identified that would result in a reduction or elimination of likely environmental effects, including potential adverse effects, associated with the clean up. Mitigation measures are outlined in the EPP for CAM-5 (see Section 8.0). The EPP forms part of the contract documents and requires all on-site personnel to adhere to the mitigation measures outlined in the EPP.

Table 13 provides a summary of the VECs, potential impacts, mitigation measures and overall significance.

DEFENCE CONSTRUCTION CANADA ENVIRONMENTAL SCREENING FOR THE CLEAN UP OF CAM 5 MACKAR INLET DEW LINE SILE - RPT-074-05

-M014

# 3.0 Project Planning

#### 3.1 Rationale for the Project and Primary Goals

The process of biomagnification is defined as positively sloped variation in concentrations through increasingly higher trophic levels of the food chain. The process of biomagnification is particularly important in Arctic organisms, where, as a result of their dependency on a high fat content in their diets, are extremely sensitive to contamination inpute, especially chlorinated contaminants such as PCBs. Given the nature of the Arctic ecosystems, it is important that past anthropogenic activities, such as the operation of the DEW Line, no continue to cause any significant adverse effects on any one level of the Arctic food chain. Specifically:

- The limited availability of species at any given trophic level leaves little opportunity for another species to offset the effects of a loss of another.
- Negative biological effects (i.e., plant loss) may lead to physical disturbances, such as damage to permafrost.
- These unmanned sites pose a risk to human and animal health and safety through the presence of physical hazards.

The aim of the DLCU Project is to decommission those facilities used by the former DEW Line which have been declared surplus to the requirements of the North Warning System and to restore the sites to an environmentally safe condition. Environmental restoration includes setting remediation objectives that are designed to preclude migration of contamination (and hence biomagnification) into the Arctic ecosystem/food chain. To accomplish this, remediation will include:

- The excavation of soils in cases where parameters exceed those that have been set for the project (i.e., believed to cause significant input into the lower levels of the food chain, for example, plants and detritus); and
- The remediation of landfills, which may serve as a source of water contamination and may enter the lower levels of the marine food chain (i.e., algae).

#### 3.2 Evaluation of Alternatives to the Project

As a project strictly dedicated to the clean up of these military establishments, the range of alternatives to this project is limited. Three alternatives to the clean up of these sites can be identified. The three alternatives are as follows:

Commercial or other Government use of the facilities: This alternative involves the sale of those facilities, no longer required by the Department of National Defence to commercial interests. Two possibilities are present, namely on-site commercial development or sale of the capital assets themselves and movement off-site.

No clean up action (Null alternative): The second alternative involved examining the environmental impact of maintaining the status quo at the sites. It was quickly realized that failure to address the environmental problems identified during the site investigations could lead to the following:

- Placing the Arctic environment/food chain at risk;
- Possible future legal liabilities for the federal government, and
- Greater clean up costs in the future.

DEW Line Clean Up: This alternative involves cleaning up the sites to the criteria in the DEW Line Clean Up Protocol as agreed to in the DND-NTI Cooperation Agreement, Environmental Provisions. The clean up includes removal of contaminated soil, remediation of landfills, removal of debris, demolition of surplus

DEFENCE CONSTRUCTION CANADA

ENVIRONMENTAL SCREENING FOR THE CLEAN UP OF CAM-5

MAUKAK INLET DEW LINE SITE - RPT-074-05

-M014

UMA AECOM

buildings and facilities and grading of the site to as natural a state as practical. The clean up objectives in the agreement are considered to be protective of human health and the environment. As such, this is the chosen clean up alternative.

#### 3.3 DEW Line Clean Up Protocol

The purpose of the DEW Line Clean Up Project is to:

- Demolish and remove existing facilities that are not required for the operation of the North Warning System:
- Remove contaminated soils from contact with the Arctic food chain;
- Stabilize existing landfills;
- Cleah up surface debris; and
- Physically restore the site to as natural a state as practical.

#### 3.3.1 Protocol Development

In cooperation with several federal departments and the Government of the Northwest Territorics, DND initially drafted the General Protocol for DEW Line Clean Up in 1991. This protocol served as the basis for the DND/NTI Agreement on environmental provisions for the clean up of these sites (see Appendix B). At the time of implementation, there were no established environmental standards for the Arctic. As a result, existing federal guidelines, such as the Interim Canadian Environmental Quality Criteria for Contaminated Sites (1991) were modified to reflect both the sensitivity of the Arctic food chain to ecological processes such as biomagnification and the close dependence of the Inuit on the land for food. In addition, a barrel specific protocol was prepared that outlines the process for dealing with barrels and barrel contents found on the DEW Line sites.

#### 3,3.2 Criteria

The protocol outlined in the DND/NTI Agreement was developed from the results of the biophysical. socio-economic, and engineering site assessments, mediated through the DND/NTI Environmental Working Group – EWG. The DLCU Protocol documents contaminant clean up criteria and specific physical actions that are to be undertaken, which are specific to the DEW Line sites. These criteria were developed based on existing federal and territorial criteria in conjunction with studies that show the functional relationships and/or pathways for biological uptakes from soil. The resulting protocol defines two concentration liers of soil contamination. Soil substrates containing Tier I concentrations may be placed in an appropriate on-site landfill while those soils in excess of the Tier II standard are to be disposed of in a manner that provides additional measures to permanently segregate these contaminants from the Arctic ecosystem. Soils exceeding federal legislative limits (i.e., Canadian Environmental Protection Act and Chlorobiphenyl Regulations) will be disposed of off-site at a licensed disposal facility.

#### 3.3.3 Environmental Working Group

In 1997, the Department of National Defence and Nunavut Tunngavik Incorporated (NTI) agreed to form an Environmental Working Group (EWG). The EWG is comprised of scientific and technical experts representing both the Inuit (NTI) and DND. The purpose of the EWG is to examine environmental issues related to the DLCU project and to provide recommendations to a joint DND/NTI core group consisting of senior management from both organizations. Specific tasks that have been assigned to the EWG include:

- Development of a landfill risk evaluation matrix;
- Evaluation of, and recommendations for, a post-construction/remediation landfill monitoring program;
- Identification of hydrocarbon clean up requirements;

DEFENCE CONSTRUCTION CANADA

ENVIRONMENTAL SCREENING FOR THE CLEAN UP OF CAM-5

MACKAR INLET DEW LINE SITE - RPT-074-05

14

UMA AECOM

- Establishment of confirmatory testing protocols; and
- Preparation of a list of items sultable for landfilling at the DEW Line sites.

#### 3.4 Final Investigation and Delineation

Prior to the clean up of each site, the Department of National Defence undertakes a final site assessment. The aim of the site visit is several-fold, including:

- To fully delineate the extent of conteminated areas in order to prepare accurate construction documents;
- To confirm the structural and environmental status of buildings and other facilities that are to be demolished;
- To confirm the baseline environmental conditions at the site prior to implementation;
- To examine existing landfills and identify new landfills to confirm details pertaining to the required remediation strategy; and
- To identify areas suitable for the construction of an NHW Landfill and a Tier II Soil Disposal Facility.

-10014

### 4.0 Public Consultation Process

As part of the DLCU project, public consultations have been carried out in communities across the north since 1992. In 1992 and 1993, teams from the Department of National Detence and other federal departments conducted a broad range of public consultation sessions to confer with the local residents about the project and to obtain input regarding specific concerns about the work.

#### 4.1 Inclusion of Traditional Knowledge

One of the guiding principles of the DLCU project is to ensure the meaningful participation of local residents in both the planning and execution phases. One way of ensuring this is to incorporate traditional knowledge into the site clean up plans. An inuit representative who is familiar with both the DEW Line site and traditional use of the area is chosen by the Regional Inuit Association to be on-site during the site investigation phase prior to the clean up. The Inuit representative works closely with the EWG to identify inuit use of the area, wildlife patterns, past activities, and any information relating to dumping, hazordous waste storage, and natural occurrences. This traditional and local knowledge is used to refine clean up activities by including unknown issues or adjusting environmental protection plans.

Additionally, DND and the NTI establish a community DEW Line Clean Up committee to facilitate the flow of local knowledge to the EWG prior to and during each site visit. To accomplish this goal, the EWG visit local communities most affected by each DEW Line site and conduct one on one interviews with a number of residents, the Hamlet Administrative Officer and/or Mayor, the local Hunters and Trappers Association and other relevant community organizations.

#### 4.2 Initial Public Consultation

DND tried to integrate the views of all interested stakeholders, including individuals or groups, into the decision-making process for the DLCU Project. The approach to public involvement in environmental assessments for this project included two major elements: adequate public notification and appropriate public consultation.

Public consultation has been used to involve the public in the environmental assessment process through dialogue between northern residents and the project representatives. This dialogue has proved useful in identifying public concerns, needs and values before final decisions on courses of action were made.

The purpose of public notification is to provide information regarding community meetings, environmental assessment results, site activities and upcoming decisions. Public notification has been used mainly for notifying the public of the results of previous environmental assessments and cleanup plans.

Public consultation meetings were held in those communities in the vicinity of the DEW Line sites. Briefings to government officials were also held in Iqaluit, Cambridge Bay and Yellowknife. Advertisements and Information packages were provided in English as well as inuktitut. Minutes were recorded at each of the meetings and action items passed on to the responsible agencies.

Various communities were visited in 1992, 1993 and 1994 as part of the public consultation program. The primary objectives of the initial meetings were to:

- Provide general information to the community regarding the status and schedule for the project;
- Provide information regarding the process for closure and clean up of the DEW Line;
- Present environmental information regarding the demolition/disposal of facilities;

DEFENCE CONSTRUCTION CANADA
ENVIRONMENTAL SCREENING FOR THE CITAN UP OF CAM-5
MACKAR INCET DEW LINE SITE - RPT-074-05

10

- Obtain information regarding public concerns through discussions at the meetings and through questionnaires; and
- Obtain Information regarding local labour and contracting capabilities to assist in developing implementation strategies.

#### 4.2.1 2000 Site investigation

In the summer of 2000 during the delineation investigations for CAM-5, further consultation was conducted to ensure local knowledge was collected and incorporated into the final delineation investigations. Local knowledge is important for uncovering location(s) of contamination that had not been previously assessed, as well as information required for completing the Landfill Risk Evaluation Matrix for each landfill site. Involvement of the local community and Inuit representation (NTI) included discussions with long time residents and community officials, including Hamlet Assistant Senior Administrative Officer and Chairman of Hunters and Trappers Association; and a site visit by an NTI technical representative with a local community representative.

The NTI technical representative and the local representative were on site during portions of the site investigation. During this time, the NTI representative was able to observe the site and note any technical concerns that may have been overlooked by the site investigation team. The local community was able to provide much information on past disposal practices. Concerns and comments were gathered and incorporated into the delineation investigation plans and the clean up plans. Sections of a report pertaining to the detailed observations of the NTI while on-site at CAM-5 are provided in Appendix C.

#### 4.2.2 2005 Pre-Construction Consultation

Public consultation meetings regarding the clean up program were held in the communities of Hall Beach and Kugaaruk in April 2005. Another meeting was scheduled for Igloolik at the same time; however, due to weather conditions, the meeting was cancelled. There are plans to complete the meeting in Igloolik in December 2005.

The April meetings included a presentation of the proposed clean up plans and design, as well as a question and answer period in which the community's issues and concerns were addressed. Copies of the presentation and question and answers are in Appendix C.

#### 4.3 DND/NTI Project Review Committee

As part of the Agreement between the Department of National Defence and Nunavut Tunngavik Incorporated (Appendix B), there are regularly scheduled meetings between these two organizations. These meetings, which involve senior management from both organizations, are designed to provide a regular forum to discuss the clean up program within the Nunavut Settlement Area and to resolve concerns relating to environmental and/or socio-economic issues.

UMA AECOM

# 1.0 Site Description

#### 1.1 Location

CAM-5 is one of the 21 Department of National Defence (DND) DEW Line sites to be cleaned up as part of the DEW Line Clean Up (DLCU) Project. An NTS map segment is included in Appendix A showing the location of the CAM 5 site, as well as the property boundaries and land ownership.

CAM-5 (68° 17' N, 85° 07' W) is located on the western shore of Melville Peninsula in the Committee Bay area of the Nunavut Territory. The station is approximately 7 km inland from the west side of the peninsula. The upper site includes the module train, warehouse, garage, storage areas and POL storage facilities. The lower site area includes the airstrip facilities, an air terminal building, storage areas, and POL storage facilities.

#### 1.2 History

The CAM-5 site was constructed in the 1950's as part of the Distant Early Warning (DEW) Line, which provided rader surveillance of the northern approaches to North America. In March 1985, Canada and the United States agreed to modernize the North American Air Defence System by closing the remaining 21 DND DEW Line sites by the early 1990's, and build the North Warning System (NWS).

In 1992, the DEW Line Clean Up Protocol was developed by the Environmental Sciences Group (ESG) of the Royal Military College of Canada and was reviewed and approved by federal and territorial environmental officials. The protocol includes procedures for dealing with contaminated soil, waste oil, landfills, wastewater, debris and hazardous materials. In 1998, the Environmental Provisions of the Cooperation Agreement between DND and Nunavut Tunngavik Incorporated (NTI) were implemented to provide the approach necessary to restore the sites to an environmentally safe condition and prevent the migration of contaminants into the Arctic food chain.

#### 1.3 Project Activities

The purpose of the proposed project is to provide remedy for previous activities that occurred as a result of the operation of the former DEW Line site. Specifically, the clean up is to prevent the release of physical debris and/or contaminants into the environment.

In general, during the construction phase of the clean up, existing facilities no longer required for the operation of the NWS will be demolished. The demolition wastes will be segregated into hazardous and non-hazardous materials and disposed of appropriately. Contaminated soils identified during the previous tield investigations will be excavated and properly disposed of in on-site engineered landfills or at off-site facilities if characterized as hazardous. Scattered surface debris and partially buried debris on-site will also be collected and disposed of. New landfills will be constructed to contain the non-hazardous contaminated soil and demolition waste generated during the clean up. Existing landfills at the site will be remediated, as required. Disturbed areas will be physically restored to a stable condition shaped to match the existing terrain. A detailed work program is provided in Section 5.

#### 1.4 Schedule

CAM-5 underwent detailed site investigations in 2000 and 2002, and is scheduled for clean up beginning in 2006 as part of the DLCU project, with completion expected in 2010. The contractor will mobilize to the site in August 2006, by cat-train or airlift and set up a temporary construction camp. Clean up activities are expected to continue through to 2010, depending on the contractors' approach and weather

DUFENCE CONSTRUCTION CANADA ENVIRONMENTAL SCREENING FOR THE CLEAN UP OF CAM-5 MACKAR INLET DEW LINE SITE - RPT-074-05

.

UMA AECOM

conditions. The expected duration of annual clean up activities on site will generally be from July to October. During the winter months, work will cease and equipment and facilities on site will be winterized. It is expected the contractors' workforce and accessory personnel will mobilize to and from the site from nearby northern communities. Completion of the clean up and demobilization of the contractors' facilities and equipment is anticipated for October 2010. Long-term monitoring of the landfills will begin upon completion of the clean up (2010) and will continue for a 25-year period. After 25 years, the monitoring requirements will be re-evaluated.

DELENCE CONSTRUCTION CANADA ENVIRONMENTAL SCREENING FOR THE CLEAN UP OF CAM-5 MAGRAR INLET DEW LINE SITE - RPT-074-05 2

#### NWB Manager of Licensing

From: Sylvia Novoligak [snovoligak@nirb.nunavut.ca]

Thursday, November 10, 2005 4:08 PM Sent:

ghakongak@ntilands.com; Jeannie Ehaloak; Luke Suluk; aboyd@npc.nunavut.ca; To:

licensing@nwb.nunavut.ca; ecalder@nwb.nunavut.ca; Salamonie Shoo; wbeveridge@ihti.ca; hbhamlet@sympatico.ca; 'Spencer Dewar'; enor@inac.gc.ca; 'Patrick Larocque'; taptunag@inacainc.gc.ca; MoggyD@DFO-MPO.GC.CA; GordanierT@DFO-MPO.GC.CA; SmithRob@DFO-MPO.GC.CA; mike.fournier@ec.gc.ca; 'Spagnuolo,Colette [Iqa]'; 'Abernethy,David [Iqa]';

ebaddaloo@gov.nu.ca; Mike Atkinson; hyeh@gov.nu.ca; jmorrison@gov.nu.ca; Mathieu Dumond; Allen Niptanatiak; 'MacKay, Gordon'; 'Timoon Toonoo'; achris@gov.nu.ca; 'Ross, Julie'; 'Trotter,

Bruce'; 'Sobol, Isaac'; agnes@polarnet.ca; maureen@nunavuttourism.com

Cc: 'Steve Lines'; 'Gladys Joudrey'; 'Karlette Tunaley'; 'Carolanne Inglis'; 'Jorgen Komak'; 'Stephanie

Briscoe'

Subject: NIRB#: 05DN122-CAM-5

Please review and respond by: December 1, 2005

Thank you

Sylvia Novoligak Screener Administrator Trainee Nunavut Impact Review Board P.O. Box 1360 Cambridge Bay, NU X0B 0C0

Toll Free: 1-866-233-3033

Ph: 867-983-4613 Fax: 867-983-2594

Email: snovoligak@nirb.nunavut.ca Website: http://nirb.nunavut.ca ftp site: http://ftp.nunavut.ca/nirb/