DEPARTMENT OF NATIONAL DEFENCE

SPECIFICATIONS FOR THE CLEANUP OF PIN-3, LADY FRANKLIN POINT DEW LINE SITE

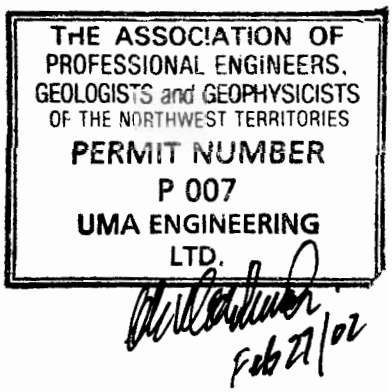
Prepared by:

UMA Engineering Ltd.

In association with:

The SGE Group Inc.

February 2002



Job No.: H-L13/1-9101

NOTICE TO TENDERERS

AMENDMENTS

TO

STANDARD CONSTRUCTION CONTRACT DOCUMENTS

Since January 1, 1995 Defence Construction Canada STANDARD CONSTRUCTION CONTRACT DOCUMENTS have been included in each Tender Package by reference. These documents have been available through MERX, Canada's Electronic Tendering Service by calling **1-800-964-MERX (6379)**.

The documents noted below have been amended, and will apply to all tender calls initiated by Defence Construction Canada after July 5, 1999.

1. Instructions to Tenderers, DCL Form 193 (R-03-99)

1.1 Section 3. Submission of Tender, item 3.1 has been amended;

1.2 Section 4. Revisions to Tenders, item 4.1 has been amended;

1.3 Section 9. Year 2000 Warranty for Goods, item 9.1 has been added.

REGULAR TENDER FORM
Defence Construction (1951) Limited

CLOSING DATE/TIME:	April 16, 2002 14:00 hours, local time	**PROJECT NO:** DLCPIN3
CLOSING LOCATION:	Defence Construction Canada Place de Ville, Tower B Ottawa, Ontario K1A 0K3	
FAX NO.:	613-998-9547	
PROJECT:	Cleanup of the PIN3, Lady Franklin Point DEW Line Site Nunavut	

1. **TENDER DOCUMENTS**
   - 1.1. Tender Form - DCL 150 (R 08-99)
   - 1.2. STANDARD CONSTRUCTION CONTRACT DOCUMENTS 1999 VERSION - Form DCL 250 (included in tender documents by reference. These documents are available from MERX on-line or at 1-800-964-6379)
     - 1.2.1. Instructions to Tenderers - Form DCL 193 (R-03-99)
     - 1.2.2. Articles of Agreement - Form DCL 24 (R-01-95)
     - 1.2.3. Terms of Payment "B" - Form DCL 25 (R-01-97)
     - 1.2.4. General Conditions "C" - Form DCL 32 (R-01-97)
     - 1.2.5. Labour Conditions 180 (Rev. 06/91) 7540-21-900-0766
     - 1.2.6. Insurance Conditions "E" - Form DCL 243 (R-01-95)
     - 1.2.7. Insurers Certificate of Insurance - DCL 232 (R-01-95)
     - 1.2.8. Contract Security Conditions "F" - Form DCL32-F (R-01-97)
     - 1.2.9. Request for Acceptance of Alternative Materials - Form DCL 242 (R-01-97)
     - 1.2.10. Supplementary Conditions - Form DCL 244 (R-01-97)
   - 1.3. Drawings, Specifications and Addenda thereto – No.
   - 1.4. Amendments, Notices, and Minutes of Meetings issued prior to Tender Closing.

2. We, (Company Name) _____

_____

having informed ourselves fully of the conditions relating to the work to be performed, having inspected the site and having carefully examined the plans and specifications and all the terms and covenants of the Tender Documents (IT BEING UNDERSTOOD AND AGREED THAT FAILURE TO HAVE DONE SO WILL NOT RELIEVE US OF OUR OBLIGATION TO ENTER INTO A CONTRACT AND CARRY OUT THE WORK FOR THE CONSIDERATION SET OUT HEREAFTER) do tender and offer to perform the said work in strict accordance with the said documents and such further details, plans and instructions as may be supplied from time to time and to furnish to Her Majesty the Queen in Right of Canada, all materials, plant, machinery, tools, labour and things necessary for the construction or carrying out and proper completion of the said work for the following sums of lawful money of Canada:

* SCHEDULE A:

Item	Description	Unit	Unit Price	Quantity	Total
A.01005-1	Community Meetings	each	$_____	4	$_____
A.01005-2	Return Air Transportation for Community Meetings	person-return trip	$_____	12	$_____
A.01591-1	Engineer's Room and Board	person-day	$_____	850	$_____
A.01591-2	Casual Meals	each	$_____	250	$_____
A.01591-3	Return Air Transportation Cambridge Bay to PIN-3	person-return trip	$_____	30	$_____
A.01591-4	Communication Links	Line-Week	$_____	90	$_____
A.02060-1	Supply of Barge Containers - PCB Amended Painted Materials	each	$_____	5	$_____
A.02060-2	Supply of Intermediate Containers - PCB Amended Painted Materials	each	$_____	10	$_____
A.02066-1	Tier I & Tier I/Type A Contaminated Soil Excavation - Site Areas	cubic metre	$_____	2,400	$_____
A.02066-2	Tier II & Tier II Type A/B Contaminated Soil Excavations - Site Areas	cubic metre	$_____	4,400	$_____
A.02066-3	Contaminated Soil Disposal - Landfill Excavations	cubic metre	$_____	3,900	$_____
A.02066-4	Containerization of Hazardous Contaminated Soil - Landfill Excavations	cubic metre	$_____	220	$_____
A.02066- 5	Hazardous Contaminated Soil Containers	cubic metre	$_____	250	$_____
A.02066- 6	Type B and Type B Tier I Contaminated Soil Excavation and Disposal - Site Areas	cubic metre	$_____	10,200	$_____
A.02066-7	Disposal of Type B - Type B Tier I Contaminated Soil - Landfill Excavations	cubic metre	$_____	100	$_____
A.02066-8	Hydrocarbon Resistant Liners	cubic metre	$_____	100	$_____
A.02067-1	Granular Nutrient - Total Nutrient Weight	kilogram	$_____	4,200	$_____

Item	Description	Unit	Unit Price	Quantity	Total
A.02067-2	Nutrient Application During Primary Construction Activities	event-hectare	$_____	10	$_____
A.02067-3	Nutrient Application During Secondary Construction Activities	event-hectare	$_____	3	$_____
A.02067-4	Tilling Events During Primary Construction Activities	event-hectare	$_____	25	$_____
A.02067-5	Tilling Events During Secondary Construction Activities	event-hectare	$_____	8	$_____
A.02209-1	Reshaping	square metre	$_____	50,000	$_____
A.02209-2	Types 2, 2 Select 3, 4 and 5 Granular Fill - Above Grade - Main Landfill	cubic metre	$_____	72,000	$_____
A.02209-3	Trench Excavation 2.5 metres Base Width, 1.5 metres Depth - Main Landfill	lineal metre	$_____	620	$_____
A.02209-4	Types 2, 4 and 5 Granular Fill - Above Grade - Tier II Disposal Facility	cubic metre	$_____	58,000	$_____
A.02209-5	Trench Excavation, Tier II Disposal Facility; 4.0 metres Base Width, 1.5 metres Depth	lineal metre	$_____	290	$_____
A.02209-6	Type 2 Granular Fill	cubic metre	$_____	66,000	$_____
A.02209-7	Type 2 Select Granular Fill	cubic metre	$_____	3,800	$_____
A.02209-8	Type 3 Granular Fill	cubic metre	$_____	9,000	$_____
A.02209-9	Type 6 Intermediate Fill	cubic metre	$_____	4,700	$_____
A.02209-10	Unclassified Excavation	cubic metre	$_____	4,200	$_____
A.02209-11	Test Pit Excavation - Equipment Usage	operating hours	$_____	30	$_____
A.02209-12	Bentonite	kg	$_____	92,000	$_____
A.02209-13	Water Bentonite Slurry Application	square metre	$_____	1,200	$_____
A.02209-14	Sand Bentonite Levelling Course	cubic metre	$_____	350	$_____

Project Name: Cleanup of PIN3
Location: Lady Franklin Point, Nunavut
Project No.: DLCPIN3

Item	Description	Unit	Unit Price	Quantity	Total
A.02219-1	Unknown Debris Removal	cubic metre	$_____	200	$_____
A.02240-1	Secondary Landfill Excavation	cubic metre	$_____	1,300	$_____
A.02240-2	Disposal of Non-Hazardous Wastes - Landfill Excavation	cubic metre	$_____	3,750	$_____
A.02498-1	Non-Woven Geotextile - Installation	square metre	$_____	58,000	$_____
A.02498-2	Woven Geotextile - Installation	square metre	$_____	750	$_____
A.02499-1	Geomembrane - Installation	square metre	$_____	30,000	$_____
A.02510-1	Drilling	metre	$_____	105	$_____
A.02510-2	Monitoring Wells - Supply and Installation	each	$_____	16	$_____
A.02510-3	Vertical Thermistors - Supply and Installation	each	$_____	8	$_____
A.02510-4	Survey Control Monuments - Supply and Installation	each	$_____	5	$_____
	TOTAL SCHEDULE A:				$_____

SCHEDULE B:

Item	Description	Amount
B.01005-1	Work Methodology Plan	$_____
B.01005-2	Worker Orientation Seminar	$_____
B.01110-1	Mobilization	$_____
B.01005-2	Primary Demobilization	$_____

Item	Description	Amount
B.01005-3	Secondary Demobilization	$_____
B.01380-1	Project Photographs	$_____
B.01545-1	Health and Safety Plans	$_____
B.01720-1	Project Record Documents	$_____
B.02060-1	Demolition: Module Train Rubble including Module Train Runoff Storage Pond and All Related Drainage Facilities	$_____
B.02060-2	Demolition: Communication Dishes (4)	$_____
B.02060-3	Demolition: (1) Station Area Fuel Storage Tanks and Associated Foundations and Pipe (65,000 US Gal Capacity each)	$_____
B.02060-4	Demolition: (2) Beach Area Fuel Storage Tanks and Associated Foundations and Pipe (65,000 US Gal Capacity each)	$_____
B.02060-5	Demolition: (2) Underground Fuel Storage Tanks - Airstrip Apron Area	$_____
B.02060-6	Demolition: Utility Poles including HF Air Ground Antenna	$_____
B.02060-7	Demolition: TVRO Antenna	$_____
B.02060-8	Demolition: Sewage Outfall Line	$_____
B.02060-9	Demolition: Abandoned POL Line - Station, Hangar, South and Main Landfill Areas	$_____
B.02060-10	Demolition: Hazmat POL Storage Shed	$_____
B.02067-1	Landfarm Operation	$_____
B.02067-2	Landfarm Closure	$_____
B.02219-1	Known Debris Removal - Site Area	$_____

Item	Description	Amount
B.02240-1	Primary Landfill Excavation - South Beach Landfill	$
B.02240-2	Primary Landfill Excavation - Main Landfill	$
B.02498-1	Non-Woven Geotextile - Supply	$
B.02498-2	Woven Geotextile - Supply	$
B.02499-1	Geomembrane - Supply	$
	TOTAL SCHEDULE B:	**$**

** SCHEDULE C:

Item	Description	Amount
C.01591-1	Engineer's Office Supplies	$ 75,000
C.02090-1	Unknown Hazardous Material Collection	$ 100,000
	TOTAL SCHEDULE C:	**$ 175,000**

SCHEDULE D:

	Balance of Project Complete - (Firm Price)	$

TOTAL TENDER:

Item	Description	Amount
A.	**Unit Prices: Total Schedule A**	$_____
B.	**Lump Sum Items: Total Schedule B**	$_____
C.	**Prime Cost Allowances: Total Schedule C**	$ 175,000
D.	**Balance of Project Complete: Schedule D**	$_____
	TOTAL TENDER: (Item A + Item B + Item C + Item D above)	**$**_____

* The quantities mentioned in Schedule A above are estimated quantities only and may be increased or decreased in accordance with the requirements of the work. All payments shall be based upon the actual quantity of materials supplied and work performed as approved by the engineer.

We hereby certify that no imbalance exists neither between our unit and lump sum prices, nor between our individual unit prices, and further, we understand that any such imbalance(s) would be considered cause to render our Tender invalid.

Bidders should note that where unit prices are required by the Tender Form (DCL 150), the "Unit Price" entered by the contractor shall take precedence over the extension price should an error in the extension be discovered.

**Bidders are to allow the Prime Cost Allowances in Schedule C above. These allowances will be adjusted to actual costs as certified by the Engineer. Any provision for profit, overhead, administration, etc., will be deemed to be included in the Firm Price portion of the Tender - Schedule D. Should the Prime Cost Allowance be exceeded, no further payment on account of profit, overhead, administration, etc., shall be made by the Crown.

3. We understand and agree that all applicable taxes, duties, permits and fees are our responsibility and are included in our Tendered Price. The exception to the foregoing is the Goods and Services Tax (GST). GST will be paid to the contractor by Defence Construction Canada in addition to any amounts due under the contract. Our Goods and Services Tax Registration number is :_____.

4. It is understood and agreed that, with respect to Building Permits only, General Conditions paragraphs GC14.1 to GC14.4 inclusive - Form DCL 32, shall not apply.

5. We certify that Bid Security, if required, in one of the forms outlined in paragraph 5 of the "Instruction to Tenderers", Form DCL 193 accompanies this Tender.

6. It is understood and agreed that in the event of this Tender being accepted within 30 (thirty) calendar days of the time stated for closing of tenders and our failing or refusing to carry out the contract in accordance with the terms of our Tender, our bid security, if required by the tender, (i) if in the form of a certified cheque, bank draft, or bonds of, or bonds unconditionally guaranteed as to principal and interest by the Government of Canada, or (ii) if in the form of a Bid Bond, shall be forfeited to Her Majesty the Queen in Right of Canada and the Bonding Company shall be liable in accordance with the terms of the Bond.

7. It is further understood and agreed that notwithstanding (i) the forfeiture of the certified cheque or bonds of (ii) the liability of the Bonding Company, Her Majesty shall be entitled to the payment of any additional amounts that may be required to meet the cost of all loss and damage suffered by Her Majesty by reason of our default in carrying out the contract.

8. We understand that all site work on this project must be fully complete by no later than November 30, 2003 with the exception of the final operation and closure of the Landfarm area which is required to be completed by no later than September 30, 2004. If our Tender is accepted, we agree to start work within _____ calendar days of notification of contract award and to work vigorously and continuously to complete the project within this prescribed time.

9. Modifications set forth in the following Amendment Nos. (please list all amendments) _____ _____ to the tender documents are reflected in the Firm Price/Total Tender.

N.B. There is no need to return the Amendment(s) with the tender.

10. We certify that we are in possession of all the tender documents listed in this tender form.

Tenderer's Company: _____

Witness Name: _____ **Tenderer's Full Name:** _____

Witness Signature: _____ **Tenderer's Signature:** _____

CORPORATE SEAL (if applicable)

Date: _____ **Title:** _____

Address: _____

_____

_____

_____

Phone No.: _____ **Fax No.:** _____

DEPARTMENT OF NATIONAL DEFENCE

SPECIFICATIONS FOR THE CLEANUP OF PIN-3, LADY FRANKLIN POINT DEW LINE SITE

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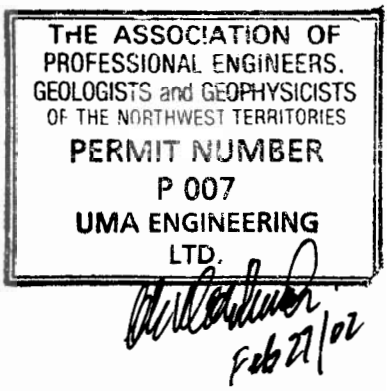
February 2002



Job No.: H-L13/1-9101

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Appendix D Site Photographs: Demolition, Debris
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Siting:	
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H-L13/1-9101-103	Station Area, Site Plan
H-L13/1-9101-104	Main Landfill Area, Site Plan
H-L13/1-9101-105	Hanger Area, Site Plan
H-L13/1-9101-106	Non-Hazardous Waste Landfill and Tier II Disposal Facility Areas, Site Plans
H-L13/1-9101-107	North and South Landfill Areas, Site Plans
H-L13/1-9101-108	Non-Hazardous Waste Landfill, Cross-Section
H-L13/1-9101-109	Landfarm, Plan and Cross-Section
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H-L13/1-9101-111	Main Landfill, Key Trench Excavation Plan and Grading/Instrumentation Plan
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H-L13/1-9101-115	Tier II Disposal Facility, Key Trench Excavation Plan and Grading/Instrumentation Plan
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H-L13/1-9101-204	Module Train Runoff Storage Ponds - Details

ASTM	American Society for Testing and Materials
CCME	Canadian Council of Ministers of the Environment
CEPA	Canadian Environmental Protection Act
CGSB	Canadian General Standards Board
CSA	Canadian Standards Association
CWBS	Contract Work Breakdown Structure
DCC	DEW Line Clean Up Criteria
DCL	Defence Construction Canada Ltd.
DEW Line	Distant Early Warning Line
DIAND	Department of Indian Affairs and Northern Development
DND	Department of National Defence ("Owner")
DNWSO	Director North Warning System Office
EPP	Environmental Protection Plan
ESG	Environmental Sciences Group - Royal Military College
GNWT	Government of Northwest Territories
HEPA	High Efficiency Particulate Air
IATA	International Air Transport Association
LEL	Lower Explosive Limit
LIUNA	Labourers International Union of North America
LRR	Long Range Radar
NFC	National Fire Code
NHW	Non-Hazardous Waste
NIOSH	National Institute of Occupational Safety and Health
NT	Nunavut Territory
NTCL	Northern Transportation Company Ltd.
NWS	North Warning System
NWT	Northwest Territories
OSHA	Occupational Safety and Health Act
PACE	Petroleum Association for Conservation of the Canadian Environment
PAP	PCB Amended Painted
POL	Petroleum, Oils and Lubricants
SGT	Satellite Ground Terminal
SRR	Short Range Radar
TBM	Temporary Benchmark
TDG	Transportation of Dangerous Goods
TDGA	Transportation of Dangerous Goods Act
TPH	Total Petroleum Hydrocarbon
USAF	United States Air Force
UV	Ultraviolet
VOC	Volatile Organic Compound
WHMIS	Workplace Hazardous Materials Information System

Item	Description	Unit	Unit Price	Quantity	Total
A.01005-1	Community Meetings	each	$_____	4	$_____
-2	Return Air Transportation for Community Meetings	person-return trip	$_____	12	$_____
A.01591-1	Engineer's Room and Board	person-day	$_____	850	$_____
-2	Casual Meals	each	$_____	250	$_____
-3	Return Air Transportation Cambridge Bay to PIN-3	person-return trip	$_____	30	$_____
-4	Communication Links	Line-Week	$_____	90	$_____
A.02060-1	Supply of Barge Containers - PCB Amended Painted Materials	each	$_____	5	$_____
-2	Supply of Intermediate Containers - PCB Amended Painted Materials	each	$_____	10	$_____
A.02066-1	Tier I & Tier I/Type A Contaminated Soil Excavation - Site Areas	cubic metre	$_____	2,400	$_____
-2	Tier II & Tier II Type A/B Contaminated Soil Excavations - Site Areas	cubic metre	$_____	4,400	$_____
-3	Contaminated Soil Disposal - Landfill Excavations	cubic metre	$_____	3,900	$_____
-4	Containerization of Hazardous Contaminated Soil - Landfill Excavations	cubic metre	$_____	220	$_____
- 5	Hazardous Contaminated Soil Containers	cubic metre	$_____	250	$_____
- 6	Type B and Type B Tier I Contaminated Soil Excavation and Disposal - Site Areas	cubic metre	$_____	10,200	$_____
-7	Disposal of Type B - Type B Tier I Contaminated Soil - Landfill Excavations	cubic metre	$_____	100	$_____
-8	Hydrocarbon Resistant Liners	cubic metre	$_____	100	$_____
A.02067-1	Granular Nutrient - Total Nutrient Weight	kilogram	$_____	4,200	$_____
-2	Nutrient Application During Primary Construction Activities	event-hectare	$_____	10	$_____
-3	Nutrient Application During Secondary Construction Activities	event-hectare	$_____	3	$_____
-4	Tilling Events During Primary Construction Activities	event-hectare	$_____	25	$_____
-5	Tilling Events During Secondary Construction Activities	event-hectare	$_____	8	$_____

Schedule of Unit Prices

Item	Description	Unit	Unit Price	Quantity	Total
A.02209-1	Reshaping	square metre	$_____	50,000	$_____
-2	Types 2, 2 Select, 3, 4 and 5 Granular Fill - Above Grade - Main Landfill	cubic metre	$_____	72,000	$_____
-3	Trench Excavation 2.5 metres Base Width, 1.5 metres Depth - Main Landfill	lineal metre	$_____	620	$_____
-4	Types 2, 4 and 5 Granular Fill - Above Grade - Tier II Disposal Facility	cubic metre	$_____	58,000	$_____
-5	Trench Excavation, Tier II Disposal Facility; 4.0 metres Base Width, 1.5 metres Depth	lineal metre	$_____	290	$_____
-6	Type 2 Granular Fill	cubic metre	$_____	66,000	$_____
-7	Type 2 Select Granular Fill	cubic metre	$_____	3,800	$_____
-8	Type 3 Granular Fill	cubic metre	$_____	9,000	$_____
-9	Type 6 Intermediate Fill	cubic metre	$_____	4,700	$_____
-10	Unclassified Excavation	cubic metre	$_____	4,200	$_____
-11	Test Pit Excavation - Equipment Usage	operating	$_____	30	$_____
-12	Bentonite	kg	$_____	92,000	$_____
-13	Water Bentonite Slurry Application	square metre	$_____	1,200	$_____
-14	Sand Bentonite Levelling Course	cubic metre	$_____	350	$_____
A.02219-1	Unknown Debris Removal	cubic metre	$_____	200	$_____
A.02240-1	Secondary Landfill Excavation	cubic metre	$_____	1,300	$_____
-2	Disposal of Non-Hazardous Wastes - Landfill Excavation	cubic metre	$_____	3,750	$_____
A.02498-1	Non-Woven Geotextile - Installation	square metre	$_____	58,000	$_____
-2	Woven Geotextile - Installation	square metre	$_____	750	$_____
A.02499-1	Geomembrane - Installation	square metre	$_____	30,000	$_____
A.02510-1	Drilling	metre	$_____	105	$_____
-2	Monitoring Wells - Supply and Installation	each	$_____	16	$_____
-3	Vertical Thermistors - Supply and Installation	each	$_____	8	$_____
-4	Survey Control Monuments - Supply and Installation	each	$_____	5	$_____

TOTAL SCHEDULE A $_____

Schedule of Lump Sum Pay Items

Item	Description	Amount
B.01005-1	Work Methodology Plan	$_____
-2	Worker Orientation Seminar	$_____
B.01110-1	Mobilization	$_____
-2	Primary Demobilization	$_____
-3	Secondary Demobilization	$_____
B.01380-1	Project Photographs	$_____
B.01545-1	Health and Safety Plans	$_____
B.01720-1	Project Record Documents	$_____
B.02060-1	Demolition: Module Train Rubble including Module Train Runoff Storage Pond and All Related Drainage Facilities	$_____
-2	Demolition: Communication Dishes (4)	$_____
-3	Demolition: (1) Station Area Fuel Storage Tanks and Associated Foundations and Pipe (65,000 US Gal Capacity each)	$_____
-4	Demolition: (2) Beach Area Fuel Storage Tanks and Associated Foundations and Pipe (65,000 US Gal Capacity each)	$_____
-5	Demolition: (2) Underground Fuel Storage Tanks - Airstrip Apron Area	$_____
-6	Demolition: Utility Poles including HF Air Ground Antenna	$_____
-7	Demolition: TVRO Antenna	$_____
-8	Demolition: Sewage Outfall Line	$_____
-9	Demolition: Abandoned POL Line - Station, Hangar, South and Main Landfill Areas	$_____
-10	Demolition: Hazmat POL Storage Shed	$_____
B.02067-1	Landfarm Operation	$_____
-2	Landfarm Closure	$_____
B.02219-1	Known Debris Removal - Site Area	$_____
B.02240-1	Primary Landfill Excavation - South Beach Landfill	$_____
-2	Primary Landfill Excavation - Main Landfill	$_____
B.02498-1	Non-Woven Geotextile - Supply	$_____
-2	Woven Geotextile - Supply	$_____
B.02499-1	Geomembrane - Supply	$_____
	TOTAL SCHEDULE B	$_____

Schedule of Prime Cost Allowances

Item	Description	Amount
C.01591-1	Engineer's Office Supplies	$ 75,000
C.02090-1	Unknown Hazardous Material Collection	$ 100,000
	TOTAL SCHEDULE C	$ 175,000

Balance of Project Complete (Firm Price) $_____

Summary of Cost Schedules

A.	Unit Prices: Total Schedule A	$_____
B.	Lump Sum Items: Total Schedule B	$_____
C.	Prime Cost Allowances: Total Schedule C	$ 175,000
D.	Balance of Project Complete: Total Schedule D	$_____
	TOTAL	$_____

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1 Description of Work

.1 Work under this contract covers the environmental cleanup and demolition of facilities at the PIN-3, Lady Franklin Point DEW Line Site, as indicated on the Drawings and Specifications.

.2 Specific cleanup work at the PIN-3 site includes, but is not limited to, the following:

.1 Mobilization and demobilization of all personnel, equipment, support facilities and materials required to complete the work.

.2 Excavation of DCC Tier I, DCC Tier II, Type A, Type B hydrocarbon contaminated soil, and potential excavation of hazardous contaminated soil.

.3 Disposal/treatment of contaminated soil, excluding hazardous contaminated, as indicated on the Drawings and in the Specifications.

.4 Provision of containers and containerization of any hazardous contaminated soil.

.5 Demolition of structures, including removal of asbestos material, building materials coated with PCB-amended and lead-based paint, creosote-treated poles, related utilities, communication equipment and other ancillary facilities as indicated on the Drawings.

.6 Provision of containers and containerization of PCB-amended painted demolition materials (>50 ppm PCBs).

.7 Disposal of contents, cleaning, demolition and disposal of POL, mogas and diesel storage tanks and distribution lines, as indicated on the Drawings.

.8 Collection, double-bagging and disposal of asbestos containing material.

.9 Collection, sorting and disposal of site debris including POL barrels and contents, scrap metal, and building components.

.10 Packaging and containerization, including the supply of containers, of all hazardous waste materials collected or generated by the Contractor.

.11 Establishment of a Temporary PCB Materials Storage Area at a location approved by the Engineer and transportation of hazardous waste materials, including containerized PCB Amended Painted Materials, to this Temporary Storage Area at PIN-3.

.12 Closure and regrading of existing landfills at the PIN-3 site (NWS Landfill, North and South Landfills), including:

.1 Placement of additional granular fill over the landfill.

.2 Grading to promote positive drainage away from the landfill area.

.13 Closure and leachate containment of an existing landfill at the PIN-3 site (Portion of Main Landfill), including:

.1 Supply and installation of geomembranes and geotextiles on specific areas, where indicated on the Drawings.

.2 Placement of additional granular fill over the landfill.

.3 Grading to promote positive drainage away from the landfill area.

.4 Supply and installation of groundwater monitoring wells, and thermistor strings, as indicated on the Drawings.

.14 Development and closure of one Non-Hazardous Waste Landfill at the PIN-3 site, including:

- .1 Construction of exterior berms.
- .2 Placement of non-hazardous demolition waste and site debris and Tier I contaminated soil in the landfill.
- .3 Compaction of landfill debris.
- .4 Placement and compaction of intermediate granular cover in the landfill.
- .5 Placement and compaction of final granular cover over the landfill.
- .6 Grading to promote drainage away from the landfill.
- .7 Supply and installation of groundwater monitoring wells in and around the landfill, as indicated on the Drawings.

.15 Development and closure of a new Tier II Disposal Facility at the PIN-3 DEW Line Site, including:

- .1 Site preparation and reshaping.
- .2 Construction of exterior berms.
- .3 Supply and installation of geotextiles and geomembranes, as indicated on the Drawings.
- .4 Placement of Tier II contaminated soil in the landfill.
- .5 Placement and compaction of intermediate granular cover in the landfill.
- .6 Placement and compaction of final granular cover in the landfill.
- .7 Grading to promote drainage away from the landfill.
- .8 Supply and installation of thermistor strings and groundwater monitoring wells in and around the landfill, as indicated on the Drawings.

.16 Partial excavation of the Main Landfill, including.

- .1 Excavation of contaminated soil and sorting of the debris into hazardous and non-hazardous components.
- .2 On-site disposal of contaminated soil.
- .3 Placement of clean granular material following landfill excavation to promote drainage away from the area.

.17 Complete excavation of the South Beach Landfill, including.

- .1 Excavation of contaminated soil and debris from the landfill and sorting of the debris into hazardous and non-hazardous components.
- .2 On-site disposal of non-hazardous debris and contaminated soil.
- .3 Containerization of hazardous debris and hazardous contaminated soil, as required.
- .4 Placement of granular material following landfill excavation to promote drainage away from the area.

.18 Development, operation and closure of a Hydrocarbon Contaminated Soil Treatment Area at the PIN-3 site, as indicated on the Drawings, including:

- .1 Construction of treatment area, including the development of access roads, as required.

.2 Placement and/or stockpiling of Type B hydrocarbon contaminated soil at the treatment area.

.3 Work - specific activities associated with the treatment of hydrocarbon contaminated soil, such as tilling and the application of nutrients.

.4 Management of surface water runoff.

.5 Supply and installation of groundwater monitoring wells in and around the treatment area, as indicated on the drawings.

.6 Closure of the treatment area, and decommissioning of monitoring instrumentation.

.19 General site grading of work areas at the PIN-3 site, including:

.1 Contaminated soil excavation areas.

.2 Construction of the Temporary PCB Materials Storage Area, as approved by the Engineer.

.3 Areas disturbed during the removal of site debris, demolition activities, borrow extraction operations, and any areas disturbed during the establishment and operation of laydown, construction camp, and equipment storage areas.

.20 Provision of adequate mechanical excavating equipment to excavate test pits, as required by the Engineer, to a maximum depth of 2.5 m at PIN-3 in advance of primary cleanup activities.

.21 Provision of survey information as required for setting out of work, measurement for payment, and Record Drawing purposes.

.22 Installation of permanent survey control monuments in the work areas at the PIN-3 site, as designated on the Drawings.

.23 Provision of the following site support services:

.1 Construction Camp as specified in Section 01591 - Construction Camp, including operation, maintenance, catering and janitorial service.

.2 Provision and maintenance of Engineer's vehicles as specified.

.3 Safety, fire protection, office and medical services as specified.

.4 Return air transportation services for Contractor's personnel, and Engineer and Engineer's support personnel from Cambridge Bay to the PIN-3 DEW Line site.

.5 Communication services for the Contractor and Engineer.

.6 Provision of wildlife monitors as specified in the Environmental Protection Plan.

.24 Specific testing requirements of the Contractor as identified in Section 01410 - Testing Laboratory Services, or elsewhere within these Specifications, that will be the responsibility of the Contractor.

.3 Specific work related to the project that is <u>not</u> included under this contract includes:

.1 Specific testing requirements, as specified in Section 01410 - Testing Laboratory Services, that will be the responsibility of the Owner.

.2 Testing of hazardous waste materials in accordance with all appropriate regulations for shipment and off-site disposal.

.3 The off-site transport of the waste materials from the Temporary Storage Area and the disposal of the waste materials at licensed disposal facilities.

2 Documents Required

.1 Maintain at job site, one copy each of the following:

.1 Contract Drawings.
.2 Specifications.
.3 Addenda.
.4 Change orders.
.5 Other modifications to Contract.
.6 Field test reports.
.7 Copy of approved work schedule.
.8 Standards listed in specific sections of the Specification including NIOSH, OSHA, WHMIS, TDGA, etc.
.9 Permits, licenses, and land use regulations.
.10 Labour and Materials Payment and Performance Bonds.
.11 Up to date Record Drawings.
.12 Site specific Safe Work Plan and Contractor's Company Safety Manual.
.13 First Aid Credentials of Site Medic.
.14 Health and Safety Plan.

3 Site Conditions

.1 Limited subsurface investigation was carried out.

.2 Geotechnical Reports are included in the Contract tender package.

.3 The geotechnical reports are engineering reports giving properties of the soils and recommendations for the design as prepared for the use of the Engineer. The recommendations given in the reports are not to be construed as requirements of the contract unless they are contained in sections of the Specifications or are specifically referenced therein.

.4 Information is supplied to assist in evaluating and carrying out the contract requirements. However, the Engineer will use these reports as a guide as to what will be considered good construction practice.

.5 The geotechnical reports by their nature cannot reveal all conditions that exist or can occur on the site, and the Contractor is assumed to be knowledgeable of the limitations of testing procedures. Should subsurface conditions be found to vary substantially from the Geotechnical Reports, changes in the design will be made with the resulting credits or expenditures accruing to the Owner.

.6 Geotechnical data is provided for information only and is based on conditions at the time of investigation and at the test hole locations shown and may not be indicative of the entire site or the present conditions. The Owner, Engineer and Owner's Consultants and Consultants' employees disclaim any responsibility for the accuracy, true location and extent of geotechnical investigations that have been prepared by others. They further disclaim responsibility for interpretation of that data by bidders, such as in projecting rock profiles, soil stability and present level and extent of underground water, etc.

.7 The information presented on the Drawings and in the Specifications is based upon site conditions as reported during field investigation programs of July and August of 2000 and 2001.

.8 Information obtained from USAF records indicates that the following waste materials may exist at the DEW Line Site:

- waste oil
- PCB transformers/capacitors
- asbestos
- sewage
- lead-based paints
- radioactive tubes
- scrap metal
- radar components
- fuel drums
- lime
- antifreeze
- wood
- AVGAS (aviation fuel)
- sulfamic acid
- cathode-ray tubes and screens
- filtron tubes
- oscillators
- meters
- copper wire
- transmission fluid
- l-l-l-trichloroethane
- PBX telephone equipment
- mercury vapour rectifier tubes
- paint thinners
- batteries
- chlorinated hydrocarbons
- corrosion inhibitors
- lye
- corrosives
- paper
- plastics
- solvent
- dynamite
- RF interference filters
- generators
- scopes
- vehicles
- rubber fuel bladders

.9 A limited number of record drawings of upgraded and existing Long Range Radar (LRR) facilities at the PIN-3 site, as well as colour copies of the photographs and exhibits included in the Appendix are available for review, upon making an appointment at the following office:

.1 UMA Engineering Ltd.
17007 - 107 Avenue
Edmonton, Alberta
Phone: 780-486-7000

A copy of the record drawings (11" x 17") of the existing LRR facilities at PIN-3 will be made available to the Contractor following the award of the Contract.

.10 Information regarding the delineation and analytical testing of contaminated soil areas, as indicated on the Drawings, has been provided by the Environmental Sciences Group - Royal Military College.

.11 The PIN-3 Site Video included with the tender package shows site conditions recorded during the 2000 and 2001 field investigation program. This information is intended to provide information on the general conditions of the site, and is not intended to depict the total scope of work. The Owner and Engineer cannot guarantee the accuracy of and are not responsible for the interpretation of this information.

4 Owner's Representatives

.1 Engineer: Within the context of these Specifications, the term Engineer refers to the Owner's representative, an employee of Defence Construction Canada Ltd. Direct all primary communication to the Engineer.

.2 Engineer's Authorized Personnel: Within the context of these Specifications, the term Engineer's Authorized Personnel refers to personnel from the Environmental Sciences Group and/or Owner's Consultants. Engineer's Authorized Personnel provide recommendations/technical guidance to the Engineer, as required, for the enforcement of these specifications. Instructions from Engineer's Authorized Personnel shall be transmitted through the Engineer.

5 Work Schedule

.1 Provide and maintain work schedule in accordance with instructions of Section 01014 - Project Control.

.2 Keep the Engineer advised of planned work activities in accordance with the instructions of Section 01014 - Project Control, and at least 24 hours in advance of operations, unless otherwise indicated herein.

6 Cost Breakdown

.1 Submit breakdown of firm price items in the Contract. Obtain approval by the Engineer of the format of this submission prior to submitting first progress claim.

.2 Provide cost breakdown line items for the elements of the Contract Work Breakdown Structure (CWBS) specified in Section 01014 - Project Control, for the work of individual sections as specified in the applicable sections, and for any additional items as requested by or agreed with the Engineer.

.3 Submit the Contract Work Breakdown Structure (CWBS) within 30 days following the contract award date. SUBMIT A PRELIMINARY DRAFT OF THE CWBS WITH THE TENDER PACKAGE.

7 Measurement for Payment

.1 Notify Engineer of planned work activities in accordance with requirements of Section 01014 - Project Control, and at least 48 hours in advance of operations to permit required measurements for payment.

.2 Items measured for payment will be paid under Schedule A, Schedule of Unit Prices of the Tender Form. Specific lump sum pay items will be paid under Schedule B - Schedule of Lump Sum Items of the Tender Form. Items specified to be paid on a cost recoverable basis will be paid under Schedule C - Prime Cost Allowance, of the Tender Form. All other items, whether specifically defined in the specific sections of the Specifications or not, will be paid under Schedule D, Balance of Project complete, in the Tender Form.

.3 Direct costs include all costs directly attributable to a particular pay item including equipment, operators, materials, equipment maintenance and depreciation, etc. All direct costs for unit price items are to be included in the appropriate unit price in Schedule A, Schedule of Unit Prices in the Tender Form.

All direct costs for lump sum items are to be included in the appropriate lump sum price in Schedule B, Schedule of Lump Sum Items in the Tender Form.

.4 Indirect costs include all costs not directly attributable to the pay items including profit, camp, supervision, overhead, administration, etc. All indirect costs associated with pay items in Schedule A and B shall be included in Schedule D, Balance of Project Complete in the Tender Form.

.5 Include costs of any statement of or requirement for work, goods or services required in this section that are not covered by appropriate payment clauses in other sections (including fixed camp costs) in Schedule D - Balance of Project Complete, Firm Price, in the Tender Form.

.6 Include equipment depreciation and major equipment repair costs in the appropriate unit price, lump sum or prime cost allowance pay item.

.7 Fixed camp costs shall include costs for:

.1 Design, supply, installation and operation of construction camp facilities as specified in Section 01591 - Construction Camp.

.2 Design, supply, installation and operation of camp support facilities including heating, lighting, fuel, potable and domestic water systems, sewage collection, treatment and disposal, refuse and garbage collection and disposal, fire safety requirements, kitchen equipment, laundry equipment, recreational facilities and vehicle parking.

.3 Obtaining and complying with all licenses, permits, and authorizations required to comply fully with all laws, ordinances and regulations of the Federal, Territorial and local authorities, including all costs for the inspection of camp and electrical facilities by Government of Nunavut.

.4 Shutdown and reopening of the construction camp.

.5 Demobilization of the construction camp from the site at the completion of the Contract.

.8 Except as otherwise indicated herein, work under this Section will not be measured. Include all costs in Schedule D - Balance of Project Complete in the Tender Form.

8 Contractor's Use of Site

.1 The PIN-3 site serves as a NWS site, and will remain unoccupied for the duration of the project, except during the periodic maintenance and inspection of the facilities by NWSO personnel. The PIN-3 Module Train was destroyed by fire in January 2000.

.2 Contractor has use of the PIN-3 site with the following restrictions:

.1 Do not unreasonably encumber sites with materials or equipment.

.2 Move stored products or equipment which interfere with operations of Engineer.

.3 Use of site shall comply with the Site Use Restrictions included in the Appendix, and with the environmental protection requirements of Section 01560 - Environmental Protection and the Environmental Protection Plan.

.4 Contractor's operations shall not interfere with the operations of the NWS.

.5 There is no NWS equipment or fuel available on site for use by the Contractor.

.3 Maintain all access roads used by the Contractor during cleanup/construction activities.

9 Codes and Standards

.1 Perform work in accordance with the Specifications and meet or exceed all codes, standards and regulations applicable to the Work and issued under the authority of the Government of Canada and the Government of Nunavut. Advise the Engineer of any discrepancies in the codes, standards and regulations applicable to the Work.

.2 Codes, standards and regulations applicable to the work and which form part of the Contract have been referenced in various Sections of the Contract Specifications.

.3 Additional codes, standards and regulations applicable to the work, but which are not part of the Contract Documents, shall be considered by the Contractor. Non-reference of any such codes does not relieve the Contractor from his responsibility to comply with such codes, standards or regulations.

.4 In any case of conflict between the requirements specified in the codes, standards or regulations applicable to the work, the most stringent requirement shall apply.

10 Permits

.1 The Contractor shall be responsible for obtaining and paying for all permits and licenses associated with the development and operation of the construction camp.

.2 The Owner has applied for a Water Use License and a Quarrying Permit. A Land Use Permit has been issued and is included with this specification. All restrictions and requirements of this License shall apply to the Contractor.

.3 Pay all costs associated with complying to the requirements for the permits and licenses noted in Clauses 10.1 and 10.2 above.

.4 Register, obtain and pay for all required licenses and permits for individual tradesmen employed for work as referenced in the various Sections of the Contract Specifications.

.5 The Engineer will register the Temporary PCB Materials Storage Area with the National Registry of PCB Storage Facilities. Provide to the Engineer all requested information including the contents, location and access of the Temporary PCB Storage Area.

11 Project Meetings

.1 Project meetings will be held as outlined in Section 01014 - Project Control.

12 Site Supervision

.1 Designate a competent and qualified supervisor to be on site at all times during construction, to have full authority to make decisions for the Contractor, to be knowledgeable of the requirements of the contract, and to act upon Engineer's instructions.

13 Community Relations

.1 Prior to the commencement of work and at the beginning and end of each construction season, arrange meetings with the Engineer, Owner, local leaders, officials, authorities, and public in Kugluktuk. Be prepared to discuss local hiring practices and any other items of operations which may impact upon the local communities.

.2 Provide and pay for the following associated with these meetings:

.1 Translation services for these meetings.
.2 Meeting facility rental (including beverages, coffee, tea, etc.).

.3 Return air and ground transportation for Engineer's personnel from Cambridge Bay to Kugluktuk. A maximum of three representatives from the Owner/Engineer will attend these meetings.

.3 Costs for the items identified in Clauses 13.2.1 and 13.2.2 above will be measured for payment by the number of meetings held and will be paid under Item A.01005-1 in the Schedule of Unit Prices.

.4 Costs for the items identified in Clause 13.2.3 above will be measured for payment by the number of person-return-trips, and will be paid under Item A.01005-2 in the Schedule of Unit Prices.

.5 The unit price items, as described in Clauses 13.3 and 13.4 above, shall include direct costs only. All indirect costs associated with the work described in Clauses 13.3 and 13.4 above, including profit, camp, supervision, overhead, etc., shall be included in Schedule D – Balance of Project Complete in the Tender Form.

14 Setting Out of Work

.1 Existing survey control data required for layout of the work is shown on the Drawings.

.2 Install additional permanent survey control monuments as indicated on the Drawings or where approved by the Engineer, in accordance with Section 02510 - Instrumentation, of the specifications.

.3 Employ fully qualified and experienced survey personnel to provide all survey control required for the work.

.4 Set grades and lay out work in detail from control points and grades given by Engineer and shown on the Drawings.

.5 Notify Engineer immediately of any discrepancies between existing ground elevations and design ground lines.

.6 Assume full responsibility for and execute complete layout of work to locations, lines and elevations indicated.

.7 Provide devices, instruments and labour needed to lay out and construct work.

.8 Supply survey equipment as specified in Section 01500 - Temporary Facilities, to facilitate Engineer's inspection of work.

.9 Supply fluorescent orange paint, stakes, marker posts, flagging, and other survey markers required for laying out work and for the Engineer's use in checking survey.

.10 Provide and pay for a survey rodman when required to assist the Engineer with survey work associated with the Contract. The requirement for this assistance will be limited to an average of **four** hours per week during the cleanup/construction period at the site.

.11 Provide to the Engineer, on request, all survey information.

.12 Protect existing survey stakes, benchmarks and monuments. Re-establish benchmarks and monuments disturbed by the Contractor at no cost to the Owner.

15 Location of Equipment and Fixtures

.1 Location of equipment, fixtures and outlets indicated or specified are to be considered as approximate.

.2 Inform Engineer of impending installation and obtain his approval for actual location if deviation from specified location is contemplated.

.3 Submit field drawings to indicate relative position of various services and equipment when required by Engineer.

16 Cutting, Fitting and Patching

.1 Execute cutting (including excavation), fitting and patching required to make work fit properly.

.2 Where new work connects with existing and where existing work is altered, cut, patch, join and make good to match existing work.

.3 Where demolition has exposed openings in facilities to remain, repair and make good such openings.

17 Existing Services

.1 The location of equipment, fixtures, outlets, and utility services specified or indicated on the Drawings is to be considered as approximate.

.2 Where work involves breaking into or connecting to existing services, carry out work, with minimum of disturbance to site operations.

.3 Before commencing Work, establish location and extent of services in area of Work, and notify Engineer of findings. Confirm locations of buried utilities by non-destructive testing methods and/or hand-excavate test excavations within 0.9 metres of the buried utility.

.4 Submit schedule to and obtain approval from Engineer for any shut-down or closure of active service or facility. Comply with the requirements of the Site Use Restrictions included in the Appendix. Adhere to approved schedule and provide notice to affected parties.

.5 Where unknown services are encountered, immediately advise Engineer and confirm findings in writing.

.6 Record locations of maintained, joined, re-routed and abandoned service lines indicating horizontal distances and vertical elevations.

.7 Take necessary precautions and prevent damage to existing services and facilities.

.8 Repair and replace services or facilities damaged as a result of Contractor's operations at no additional cost to the Engineer.

18 Additional Drawings

.1 Engineer may furnish additional drawings to assist proper execution of work. These drawings will be issued for clarification only. Such drawings shall have the same meaning and intent as if they were included with plans referred to in Contract documents.

.2 Contractor will be responsible for printing and distributing drawings and specifications for his own requirements.

19 Materials and Equipment

.1 Provide material and equipment of specified design and quality, performing to published ratings, and for which replacement parts are readily available.

.2 No substitutions will be permitted without prior written approval of the Engineer.

20 Indemnification

.1 Indemnify and save harmless the Owner, the Engineer, the Owner's Consultants and Consultants' employees against liability occasioned in any way through provision of the goods and services of the Contractor. Pay all royalties and fully indemnify the Owner, the Engineer, the Owner's Consultants and Consultants' employees against all suits or actions arising from the claim of any persons who are, or claim to be, patentees of any apparatus or process used on or in connection with the work.

21 Relics and Antiquities

.1 Relics and antiquities and items of historical or scientific interest such as cairns, tent rings, commemorative plaques, inscribed tablets, and similar objects found on-site or in buildings to be demolished shall remain the property of the appropriate jurisdictional authority. Comply with environmental protection requirements of Section 01560 - Environmental Protection, and the Environmental Protection Plan.

.2 Prior to commencing work at the site, review the following with the Engineer:

.1 The extent of the archaeological sensitive areas.
.2 The methods to be used by the Contractor to mark and protect the areas from construction/cleanup activities.

.3 Give immediate notice to Engineer if evidence of archaeological finds are encountered during construction/cleanup activities, and await the Engineer's written instructions before proceeding with work in this area.

.4 Protect archaeological finds and similar objects found during course of work.

22 Work Methodology Plan

.1 Submit five copies of a preliminary draft of the Work Methodology Plan to the Engineer for review with the tender package. The Work Methodology Plan shall demonstrate how the various cleanup and demolition activities will be carried out. The Draft Work Methodology Plan to be submitted with the tender package must include the names and qualifications of the Contractor's superintendent, hazardous waste material practitioner, drilling subcontractor, and quantity surveyor. FAILURE TO SUBMIT THE DRAFT WORK METHODOLOGY PLAN WITH THE TENDER MAY BE CAUSE FOR REJECTION OF THE TENDER.

.2 Provide, prior to the start of work, five copies of a final draft of the Work Methodology Plan.

.3 Do not commence mobilization to the site and on site work until the Work Methodology Plan has been reviewed by the Engineer, and until the Contractor has demonstrated to the Engineer that all required permits to be acquired by the Contractor for the work have been obtained.

.4 The Work Methodology Plan is to address, **but is not necessarily limited to**, the following cleanup activities:

.1 Demolition (Section 02060).
.2 Contaminated Soil Excavation (Section 02066).
.3 Landfarm Operation (Section 02067).
.4 Asbestos Abatement (Section 02081).
.5 Hazardous Waste Material (Section 02090).

.6 Landfilling (Section 02209).
.7 Closure of Landfills (Section 02209).
.8 Landfill Waste Excavation (Section 02240).

.5 Specific information to be included in the Work Methodology Plan is identified in the relevant sections of the Specifications. In addition to these specific requirements, the Plan shall also describe the proposed wildlife monitoring plan, including the number and experience of the bear monitors, number and gauge of firearms to be used, etc.

.6 The Work Methodology Plan shall clearly and succinctly describe how the Contractor proposes to undertake the work.

.7 Upon completion of review, Engineer will review the Work Methodology Plan and return it to the Contractor noted either "Reviewed/No Comment"; "Revise and Resubmit"; "Rejected/See Remarks"; or "Not Reviewed", as applicable.

.8 All costs for the preparation and submission to the Engineer of the Work Methodology Plan are to be included in the lump sum price for the Work Methodology Plan, Item B.01005-1, as indicated in Schedule B, Schedule of Lump Sum Items in the Tender Form.

.9 The lump sum payment for the Work Methodology Plan will be made upon review of the final version of the Plan by the Engineer, and the demonstration by the Contractor to the Engineer that all required permits to be acquired by the Contractor for the Work have been obtained.

23 Worker Orientation Seminar

.1 Develop, prior to the start of work, course material for a Worker Orientation Seminar. The outline of this seminar is to be approved by the Engineer and is intended to describe the cleanup activities at the site, and provide instruction in the applicable health, safety, and environmental policies and regulations as related to the site work activities. Course material is to be prepared and presented in the English language and the local Inuit dialect.

.2 Submit five copies of the Worker Orientation Seminar course material to the Engineer for review at least thirty days prior to mobilizing to the site. Include information describing the facility to be used for conducting the seminars.

.3 The Orientation Course is to address, but is not necessarily limited to, the following topics:

.1 Project Communication:
.1 Roles of Engineer and Engineer's authorized representatives.
.2 Lines of Project Communication.

.2 Cleanup Activities (Scope of Work)
- .1 Demolition and disposal or containerization of demolition waste materials.
- .2 Excavation and disposal/containerization of contaminated soils.
- .3 Landfill waste excavation.
- .4 Asbestos abatement.
- .5 Collection and disposal of site debris.
- .6 Collection, containerization, and transportation of hazardous waste material.
- .7 Construction of landfills.
- .8 Regrading of landfills.
- .9 Landfarm construction and operation.
- .10 Site grading.

.3 Regional Overview of the Kugluktuk Area
- .1 Land Use of Area (hunting, fishing activities, etc.)
- .2 Location of site relative to communities
- .3 Heritage Resources
- .4 Climate
- .5 Geology, Hydrology
- .6 Flora and Fauna

.4 Project Organization/Schedule/Administration
- .1 Personnel Policies
- .2 Supervisory Reporting Relationships
- .3 Communication
- .4 Payroll and Banking Procedures
- .5 Work Schedules and Hours
- .6 Camp Rules

.5 Environmental Issues and Protection Procedures
- .1 Climate
- .2 Land Use
- .3 Water Resources/Fisheries
- .4 Terrestrial Resources
- .5 Heritage Resources
- .6 Spill Contingency Plans/Procedures
- .7 Training Activities

.6 General Health and Safety
- .1 Teamwork
- .2 Work Attitudes/Productivity
- .3 First Aid Procedures
- .4 Protective Equipment and Clothing
- .5 Safe Operation of Equipment and Tools
- .6 WHMIS Requirements
- .7 Shared Use of Roads

.7 Work Specific Task Requirements
- .1 Asbestos Abatement
- .2 Contaminated Soil Cleanup
- .3 Demolition and Material Disposal
- .4 Barrel Collection and Disposal/Containerization
- .5 Transportation of Dangerous Goods
- .6 Permafrost Protection
- .7 Environmental Mitigation Procedures

.4 Prior to the start of work and at the start of each construction season, conduct Worker Orientation Seminars for all supervisors, foremen, the Contractor's general workforce, the Engineer, and the Engineer's on-site support staff based on the course material approved by the Engineer.

.5 Develop a training seminar of approximately eight hours in length for supervisors, foremen, the Engineer, and the Engineer's on-site support staff. Develop a training seminar of approximately four hours in length for the Contractor's general workforce. Each person on site is to attend one of the seminars. Require each attendee to sign a record of attendance upon completion of the seminar. Retain, for the Engineer's review at any time, this record of attendance.

.6 All costs for the preparation of the Worker Orientation Seminar Material and for conducting the seminars, including the preparation of meeting room facilities as required, are to be included in the lump sum price for Worker Orientation Seminar, Item B.01005-2, as indicated in Schedule B, Schedule of Lump Sum Items in the Tender Form.

.7 The lump sum payment for the Worker Orientation Seminar will be made in two progress instalments as follows:

- .1 Sixty percent of the lump sum price tendered for the Worker Orientation Seminar will be paid upon completion by the Contractor and review by the Engineer of the Worker Orientation Seminar course material, and upon conducting the seminar prior to the start of work.
- .2 Forty percent of the lump sum price tendered for the Worker Orientation Seminar will be paid upon demonstration by the Contractor to the Engineer that all of the Contractor's workforce have attended the seminar at the start of each construction season, and upon demobilization from the site, as described in Section 01110, Mobilization and Demobilization.

24 Examination of Site

.1 Prior to mobilization, check field conditions to obtain actual dimensions required to ensure correct execution of the Work, and notify the Engineer in writing, of all matters which could prejudice proper execution of the work.

.2 Commencement of mobilization shall constitute acceptance of existing conditions, and verification of dimensions.

25 Statistical Information

.1 Provide statistical and status reports as outlined in Annex A of the Form of Tender.

.2 This information is required to provide statistics that will aid in assessing and monitoring socioeconomic benefits of this project.

26 Site Maintenance

.1 Keep the site free from the accumulation of waste materials and debris as specified in Section 01560 - Environmental Protection.

.2 Upon completion of the work, clean away and dispose of all surplus material, supplies, rubbish and temporary works leaving the site neat and tidy to the requirements of the Engineer and the Land Use Permit.

27 Contractor Submission Requirements

.1 A listing of the documents and information to be submitted by the Contractor is presented in Table 01005-1 at the end of this Section.

.2 Submit all information and documents by the dates indicated, unless otherwise directed by the Engineer.

.3 THE FAILURE OF TENDERERS TO SUBMIT ALL DOCUMENTS AND INFORMATION AS INDICATED TO BE SUBMITTED WITH THE TENDER MAY BE CAUSE FOR REJECTION OF THE TENDER.

TABLE 01005-1
PIN-3, Lady Franklin Point: DEW Line Cleanup Project
CONTRACTOR SUBMITTAL SCHEDULE

Specification		Description	Date
Section	Clause		
Tender Form		Tender Form DCL 150	**With Tender**
Tender Form	5	Bid Security	**With Tender**
Standard Const. Cont. Documents	E - 4.1	Proof of Insurance	Prior to start of on-site work
Standard Const. Cont. Documents	F	Contract Security Requirements	Within 14 days of Tender acceptance
Price Schedules		Schedule A - Schedule of Unit Prices	**With Tender**
Price Schedules		Schedule B - Schedule of Lump Sum Pay Items	**With Tender**
Price Schedules		Schedule C - Schedule of Prime Cost Allowances	**With Tender**
Price Schedules		Schedule D - Balance of Project Complete	**With Tender**
Price Schedules		Summary of Price Schedules	**With Tender**
Annex A		Inuit Benefits Report	30th of each month
01005	6.1	Breakdown of Firm Price Items in Contract	For Engineer's approval prior to first progress claim
01005 01014	6.3 1.1.1.6	Preliminary Draft -- Contract Work Breakdown Structure	**With Tender**
01005 01014	6.3 1.1.1.6	Final Contract Work Breakdown Structure	30 days following award
01005	14.11	Survey Information	Upon Engineer's request
01005	22.1	Preliminary Draft -- Work Methodology Plan (5 copies)	**With Tender**
01005	22.2	Final Work Methodology Plan (5 copies)	Prior to start of work
01005	23.2	Worker Orientation Course Seminar Info. (5 copies)	30 days prior to mobilization
01005	23.5	Record of Attendance to Training Centre	Upon Engineer's request
01014	1.1.2.3	Preliminary Draft - Site Cleanup Schedule	**With Tender**
01014	1.1.2.3	Final Draft - Site Cleanup Schedule	30 days following award
01014	1.1.2.4 2.3/5.1.5	Updated Site Cleanup Schedule	With Progress Payment request
01014	1.1.3.2	Cash Flow Reporting and Projections	Upon Engineer's request
01014	1.1.4.1	Status of Materials and Equipment	Upon Engineer's request
01014	1.1.5.3	Lost Time Accident Statistics	Upon Engineer's request

Specification		Description	Date
Section	Clause		
01014	1.1.5.1/ 2.3	Manpower Report	Upon Engineer's request
01014	2.3	List of Critical Material Items Awaiting Receipt	Upon Engineer's request
01014	2.3/2.4	Request for Contract Progress Payments	Monthly
01014	2.5	Weekly Progress Reports	Weekly
01020	4.7	Estimates for Prime Cost Allowances	Upon Engineer's request
01380	2.6,4.12,5.3	Progress Photographs and Negatives	Monthly with progress statement
01380	3.9,4.13,5.3	Final Photographs and Negatives	Prior to final progress payment request
01410	2.4	CAEAL Laboratory Certification	Upon Engineer's request
01410	4.13	Sketch of Proposed Laboratory	Prior to fabrication or construction
01500	11.3	Documentation Certifying Calibration of Survey Equipment	Prior to each construction season
01545	1.5	Safety Meeting Minutes	Weekly
01545	1.9	Procedures for the Handling and Storage of Firearms	Prior to start of construction
01545	4.5	Proof of First Aid Credentials	Prior to start of construction
01545	5.1	Accident Reports	Promptly after incident
01545	9.2	WHMIS Data Sheets	Upon delivery of materials to site
01546	1.2	Details of Fire Safety Program	Prior to start of construction
01560	1.3	Oil and Hazardous Material Contingency Plan	Prior to start of construction
01560	3.2	Copies of Environmental Agency Submittals/Approvals	As required
01560	5.6	Details of Sewage Disposal System	Prior to acquisition/installation of camp
01560	5.7	Sewage Lagoon - Depth of Permafrost Data	Monthly during construction
01591	2.3	Plan of Construction Camp Layout and Siting	Prior to acquisition/installation of camp
01591	2.4	Proof of Camp Licenses, Permits, Authorizations	Prior to establishing camp
01591	3.2	Proof of Adherence to Environmental Regulations	Before opening camp
01591	3.5/3.6	Results of Water Supply Testing	Prior to opening camp
01591	4.3	Camp Details	Prior to mobilization
01591	7.7	Key-locks and Keys for Engineer's Sleeping Quarters	Upon Engineer's use of facilities
01410/01591	4.14/10.11	Key-locks and keys for Engineer's Office and Laboratory	Upon Engineer's use of facilities
01591	16.2	Camp Rules	Prior to commencing camp operations
01600	2.2	Material and Equipment List	Within 7 days of Engineer's written request
01600	5.1	Material Testing Laboratory Report - Perf. Specified Material	Upon Engineer's request
01720	3.1	All Survey Information	At season completion, or upon Engineer's request

Specification		Description	Date
Section	Clause		
01720	1.5	Project Record Drawings	At project completion/prior to final inspect.
01720	2.2	Manufacturers' Data Books	Within 120 days of project completion
01720	3.1	Records	Within 90 days of project completion
02060	1.7.1	Drawings, Diagrams, Details of Disassembly Work	Prior to demolition work (as required)
02060	3.5.9	Inventory of Contents in Containers	Upon completion of demolition work
02060	3.6.7	Results of VOC (LEL) Testing of Tanks	Upon Engineer's request
02060	3.7.8	Inventory of Contents in Containers	Upon completion of demolition activities
02066	3.2.7	List of Numbered Hazardous Contaminated Soil Containers	Prior to project completion
02067	3.3.9	Landfarm Operation Report	Monthly
02081	1.10.1	Minutes of Contractor's Meeting with the Government of Nunavut re: Asbestos Plan	After meeting
02081	1.10.3	Notifications to Regulatory Authorities of Asbestos Schedule	Prior to commencement of asbestos work
02081	1.11.2.2	Written Approval of Asbestos Plan	When required
02081	3.0.1/3.6.7	Asbestos Removal Inventory	Upon completion of demolition work
02081	3.4.3.1	General Plan for Decontamination Facilities	Prior to Acquisition and Installation of the Facilities
02240	3.4.4	Record of Excavated and Stockpiled Material	Daily
02498	1.4.1	Manufacturer's Certification - Geotextiles	Prior to shipment of material to the site
02499	1.5.2	Manufacturer's Certification - Geomembranes	Prior to shipment of material to the site
02510	2.7.7	O & M Manuals for Data Loggers	Immediately following data logger installation
02510	3.6.1	Monitoring Well Installation Reports and Keys	Upon completion of installation
02510	3.7.1	Thermistor Cable Installation Reports and Keys	Upon completion of thermistor installation

1 Project Control

2 Method

3 Project Milestones

4 Cleanup Stage Network Planning

5 Updating, Monitoring and Reporting Progress

6 Effect of Acceptance

7 Measurement for Payment

1 Project Control

.1 Implement and operate throughout the Contract period until the completion of all work, a project control system which includes the following features:

.1 Contract Work Breakdown Structure:

.1 Contract Work Breakdown Structure (CWBS) based on the Contractor's costs breakdown and any modifications requested by the Engineer.

.2 CWBS shall be an organization of the work to be performed, services to be provided and data to be submitted by the Contractor, as well as payments to be made to the Contractor under the terms of the Contract.

.3 The CWBS shall clearly define the work elements of each item of the CWBS.

.4 The CWBS shall include a breakdown of pay items included under Schedule D, Balance of Project Complete in the Tender Form. All unit price, lump sum, and cost allowance pay items included in Schedule A, B, and C, respectively, of the Tender Form shall also be included in the CWBS. In addition, specific labour and equipment rates for the various work components shall be provided.

.5 Prepare the CWBS in computerized spreadsheet format compatible with the most recent release of Microsoft Excel software. Provide CWBS in hard copy and diskette format.

.6 Submit a preliminary draft of the CWBS with the tender package. Submit the final CWBS within 30 days following contract award date.

.2 Schedule:

.1 Provide a Site Cleanup Schedule in a bar chart format that identifies the critical path. Schedule shall cover the complete project from Contract award to completion including work of subcontractors, activity sequencing and duration estimates for submittal of shop drawings and samples, procurement of materials, award of subcontracts, installation and testing. Schedule shall be based on the framework of the CWBS and the milestone dates specified herein.

.2 Within the Site Cleanup Schedule, present the breakdown of work tasks into sufficient detail such that the maximum duration of any single work task is seven days.

.3 Submit a preliminary draft of the Site Cleanup Schedule with the tender package. Submit the final Schedule within 30 days following contract award date.

.4 Submit the updated Site Cleanup Schedule with the request for Contract progress payments. The updated Site Cleanup Schedule shall show revision number and revision date, and bear authorizing signature.

.3 Cost and Quantity Control:

.1 Maintain accurate up to date record of quantities of work carried out. Do not exceed authorized quantities unless authorized by the Engineer in writing.

.2 Provide cash flow reporting and projections based on the outline of the CWBS upon Engineer's request.

.4 Equipment and Material Control:

.1 Record data on status of construction material and equipment and report upon Engineer's request.

.5 Manpower:

.1 Record and report manpower listing for each company employed under this Contract, including subcontractors, detailing man-hours during the current month and cumulative total to date and report upon Engineer's request.

.2 Provide statistical reporting as specified in Annex A of the Form of Tender.

.3 Provide statistics related to lost time accidents upon Engineer's request.

.2 The purpose of the Project Control information is to:

.1 Provide the Owner with the basis for allocating Owner's resources to the project.

.2 Identify cash flow requirements.

.3 Document how specific project milestones will be achieved.

Revisions to the plan will be permitted if the Contractor can demonstrate that such revisions will maximize project efficiencies.

2 Method

.1 Manage cleanup utilizing project control system as specified.

.2 Submit to Engineer for approval, as part of the Work Methodology Plan, full details of project control system.

.3 Contractor's monthly request for Contract progress payments shall be accompanied by monthly progress reports including updated Contractor's Site Cleanup Schedule. Manpower report and a list of critical material and equipment items awaiting receipt shall be provided at Engineer's request.

.4 Submit monthly request for Contract progress payments in a spreadsheet format approved by the Engineer.

.5 Prepare a brief weekly progress report describing major areas of cleanup activity, weekly safety meeting minutes, and weekly manpower and equipment employed. Report format shall be agreed to with the Engineer prior to the first submission.

3 Project Milestones

.1 Incorporate the following project milestones into the Site Cleanup Schedule:

.1 Installation and survey of permanent survey control at designated Work Areas: September 15, 2002 or prior to commencement of work, whichever date comes first.

.2 Provision of adequate mechanical excavating equipment to excavate test pits: September 20, 2002 or prior to commencement of work, whichever date comes first.

.3 Installation of all background groundwater monitoring wells: September 15, 2002.

.4 Installation of groundwater monitoring wells: prior to commencement of landfill or landfarm development.

.5 Substantial Completion of all works: September 30, 2003.

.6 Final Completion of all works, except possibly the operation and closure of the Landfarm Area: November 30, 2003.

.7 Final Completion of all works including closure of Landfarm Area: September 30, 2004.

.2 Schedule work to minimize impacts on the nesting and breeding activities of birds observed near the DEW Line site as described in the Environmental Protection Plan.

4 Cleanup Stage Network Planning

.1 Prior to award of Contract and within 48 hours of notice, the Contractor may be required to submit information in support of the Contractor's tender including Contractor qualifications.

.2 Within 10 working days from Contract award date, meet with Engineer via teleconference call to Edmonton and Ottawa, to confirm scope of project and to outline intended cleanup approach and project control methods. Engineer will review content, format, schedule, and medium for project control data submittals. The Contractor shall pay for long distance charges for this teleconference call.

.3 For the duration of the project, provide specified data and reports to the Engineer.

5 Updating, Monitoring and Reporting Progress

.1 Arrange participation on site and off site of Subcontractors, Suppliers, and other Contractors performing work for Owner, Government authorities and third parties, as and when necessary, for purpose of network planning, scheduling, updating and progress monitoring. Requirements are as follows:

.1 Meetings are to be held on site once every month during the construction season.

.2 A Preconstruction Meeting will be held in Cambridge Bay prior to the commencement of the first construction season. This meeting will include a one-day Partnering Session. The Partnering Session is to be attended by key Contractor personnel including the Site Superintendent and Project Manager; representatives from Defence Construction Canada including the Site Engineer, the Consultant, and the Environmental Sciences Group. The Owner shall provide and pay for the meeting facility and the facilitator, as required.

.3 The Preconstruction Meeting/Partnering Session will also include a visit to the PIN-3 site by all meeting participants and a wildlife monitor for this site visit. The maximum time to be spent on the ground at the PIN-3 site during this visit will be 6 hours. Provide and pay for ground and air transportation for all meeting participants between Cambridge Bay and the PIN-3 site, and the wildlife monitor for this site visit.

.4 A Preconstruction Meeting will be held at Cambridge Bay prior to the commencement of each construction season.

.5 Submit Updated Site Cleanup Schedules to the Engineer and distribute to all subcontractors at least once every month during the construction season.

.2 Inspect whole of work with Engineer at least once per month to establish progress on each current activity shown on the applicable Site Cleanup Schedule.

.3 Meet with the Engineer and Engineer's support personnel at least once per week during the construction season to review work progress, upcoming scheduled activities, and other project issues.

.4 Provide written explanations on activities which are overrunning estimated time. If any such activities are on the critical path, indicate what corrective action will be taken to bring them back on schedule.

.5 If Contractor considers it necessary or advantageous to change sequencing of activities shown on reviewed schedules, he shall submit proposed revisions to the Engineer for consideration. No change shall be made in order of work activities until the Engineer's comments on the review of the revised schedule have been received.

6 Effect of Acceptance

.1 Acceptance by Engineer of Site Cleanup Schedule and revisions thereto, does not relieve Contractor from any duties or responsibilities required by the Contract.

7 Measurement for Payment

.1 The provision of return air and ground transportation from Cambridge Bay to PIN-3 of Engineer's personnel during the Partnering Session will be measured for payment by the number of person-return trips, and will be paid under Item A.01591-3 in the Schedule of Unit Prices, as described in Section 01591 - Construction Camp.

.2 The provision of return air transportation from Cambridge Bay to PIN-3 of Engineer's personnel for the monthly project management meetings will be measured for payment by the number of person-return trips, and will be paid under Item A.01591-3 in the Schedule of Unit Prices, as described in Section 01591 - Construction Camp.

.3 Except as indicated in Clauses 7.1 and 7.2 above, work under this section will not be measured. Include all costs in Schedule D - Balance of Project Complete in the Tender Form. Indicate cost of the work of this section as a separate line item in the Cost Breakdown specified in Section 01005 - General Instructions.

.4 The provision and transport of wildlife monitors as required for the site visit during the Partnering Session, shall be considered incidental to the work, and will not be measured separately.

1 General

2 Prime Cost Allowance

3 Engineer's Office Supplies

4 Unknown Hazardous Waste Material Collection

1 General

.1 Expend each allowance as directed by Engineer.

.2 Each cash allowance will be adjusted to actual cost as defined hereunder and contract price will be amended accordingly by written order.

.3 Progress payments for work and material authorized under cash allowances will be made in accordance with contract terms of payment.

2 Prime Cost Allowances

.1 The following cash allowances are included in Schedule C of the Tender Form:

.1 $75,000 - Item C.01591-1: Engineer's Office Supplies.
.2 $100,000 - Item C.02090-1: Unknown Hazardous Waste Material Collection.

.2 These allowances will be adjusted to actual costs as certified by the Engineer. Costs for the following items shall not be included in the actual costs:

.1 Fixed camp costs: these costs shall be included in Balance of Project Complete in the Tender Form. Indicate the cost of this work as a separate line item in the Cost Breakdown specified in Section 01005 - General Instructions.
.2 Supervision, overhead, profit, and administration costs: these costs shall be included in Balance of Project Complete in the Tender Form. Indicate the cost of this work as a separate line item in the Cost Breakdown specified in Section 01005 - General Instructions.

.3 Refer to Clause 7.5 of Section 01005 - General Instructions for a description of fixed camp costs.

.4 No mark-up on the actual costs shall be paid to the Contractor.

3 Engineer's Office Supplies

.1 Costs for the provision of Engineer's consumable office supplies, including Engineer's charges for satellite and/or long distance telephone and e-mail account charges, will be paid under Prime Cost Allowance, Schedule C, Item C.01591-1 of the Tender Form for Engineer's Office Supplies.

.2 The Contractor shall be responsible for all costs associated with the packaging, handling, and transport of the granular material and soil samples (for confirmatory testing) to the Owner's off-site testing laboratory. These costs will be reimbursed to the Contractor, and paid under the Prime Cost Allowance - Schedule C: 01591-1 of the Tender Form for Engineer's Office Supplies. IT IS CRITICALLY IMPORTANT THAT THE CONTRACTOR ENSURES THAT THE SOIL SAMPLES ARE EXPEDITIOUSLY DELIVERED FROM THE SITE.