GEOSYNTHETICS INVENTORY LOG

PROJECT NUMBER: 07C-015 PROJECT TITLE: Fuel Farm
OWNER: Baffinland Iron Mines CONTRACTOR: _____
LOCATION: Mary River SHEET NUMBER: 1 of 1

MATERIAL TYPE: (GEOMEMBRANE) GEONET (GEOTEXTILE) OTHER _____
DATE OF ARRIVAL: _____ DATE OF INVENTORY: Sept. 29, Oct. 11, 2007
UNLOADING METHOD: _____ INVENTORY BY: ASM
PRODUCT TYPE: LP-16 + Hazgard 500 CONDITION IN TRUCK: _____
MATERIAL MANUFACTURER: _____

Panel / Roll Number	Material Dimensions			QC Certificate Available Y / N	Conf. Sample Removed Y / N	Other _____	Remarks
	Length	Width	Thickness or Weight				
A-4	38.5m	19.28m	Haz 500		N		
A-3	38.5m	19.28m	Haz 500		N		
A-2	38.5m	19.28m	Haz 500		N		
A-1	38.5m	19.28m	Haz 500		N		
B-1	38.5m	18.4m	Haz 500		N		
B-2	38.5m	18.4m	Haz 500		N		
	150'	15'	LP-16				45 rolls

SUBMITTED BY: ASM
DATE: October 26 2007

LAYFIELD

GEOMEMBRANE TRIAL SEAM LOG

PROJECT NUMBER: 07C-015 **PROJECT TITLE:** Fuel Farm

OWNER: Baffinland **CONTRACTOR:**

LOCATION: Mary River **SHEET NUMBER:** 1

✓ **TF - # FUSION** ____ **TX - # = EXTRUSION** ____ **TS - # = SOLVENT**

SAMPLE NUMBER	APPROX. TIME & DATE	WELDING MACHINE NUMBER	WELD TECH.	TEMPERATURES: AMBIENT AIR TEMP.	TEMPERATURES: PREHEAT OR MACHINE SPEED	TEMPERATURES: EXTRUDER	TEMPERATURES: WEDGE TEMP.	TEST RESULTS: INSIDE PEEL MODE / STRENGTH	TEST RESULTS: OUTSIDE PEEL MODE / STRENGTH	TEST RESULTS: SHEAR MODE / STRENGTH	PASS OR RETEST	CHECKED BY	REMARKS
TF-1	10-8 1645	Demtech 20610	Am	-3°C	50%		825°	38/ /29/ /41 31/ / / /36		109/ /99	P	Am	Cloudy
TF-2	10-9 1245	Demtech 20610	Am	-5°C	50%		825°	37/ /33/ /39 31/ / / /34		103/ /106	P	Am	
TF-3	10-14 1235	Demtech 20610	Am	-3°C	50%		825°	39/ /31/ /40 42/ / / /36		111/ /108	P	Am.	Overcast
TF-4	10-15 1330	Demtech 20610	Am	-2°C	50%		825°	43/ /32/ /36 31/ / / /33		110/ /97	P	Am.	

SUBMITTED BY: Oct. 26, 2007
DATE: ASm.

LAYFIELD

GEOMEMBRANE SEAM LOG

PROJECT NUMBER: 07C-015 **PROJECT TITLE:** Fuel Farm.

OWNER: Baffinland Iron Mine **CONTRACTOR:**

LOCATION: Mary River

PASSING TRIAL SEAMS

	NO.	TIME	TECH ID
✓ FUSION	TF-1	1645	AM.
EXTRUSION			
SOLVENT			

SHEET NUMBER: 1

DATE: October 8, 2007

SEAM NUMBER	SEAM SECTION * START POINT	SEAM SECTION * FINISH POINT	APPROX. START TIME	AMB. AIR TEMP.	WELD TECH.	PREHEAT OR MACH. SPEED	MACHINE TEMPERATURES DIGITAL SET WEDGE OR BARREL	MACHINE TEMPERATURES DIGITAL SET WEDGE OR BARREL	APPROX. LENGTH WELDED	DESTR. NUMBER	CHK'D BY	REMARKS	NON-DESTRUCTIVE TEST DATE	NON-DESTRUCTIVE CHECKED BY
A4/A3	WEOS	-EEOS	1710	-3°C	AM	50%	825°	-	37 m		AM		10-8	AM.
/	-						-	-						
/	-						-	-						
/	-						-	-						
/	-						-	-						
/	-						-	-						
/	-						-	-						
/	-						-	-						
/	-						-	-						
/	-						-	-						
/	-						-	-						
							DAILY TOTAL		37 m					

* *REFERENCE SEAM ENDPOINTS FROM AN END OF SEAM (EOS), A REPAIR, OR A POINT LOCATION ON THE SEAM.*

SUBMITTED BY: ASM

DATE: October 26, 2007

LAYFIELD

GEOMEMBRANE SEAM LOG

PROJECT NUMBER: 07C-015 **PROJECT TITLE:** Fuel Farm

OWNER: Baffinland Iron Mines **CONTRACTOR:**

LOCATION: Mary River

PASSING TRIAL SEAMS

	NO.	TIME	TECH ID
✓ FUSION	TF-2	1245	A.M
EXTRUSION			
SOLVENT			

SHEET NUMBER: 2

DATE: Oct. 9, 2007

SEAM NUMBER	SEAM SECTION * START POINT	SEAM SECTION * FINISH POINT	APPROX. START TIME	AMB. AIR TEMP.	WELD TECH.	PREHEAT OR MACH. SPEED	MACHINE TEMPERATURES DIGITAL SET WEDGE OR BARREL	MACHINE TEMPERATURES DIGITAL SET WEDGE OR BARREL	APPROX. LENGTH WELDED	DESTR. NUMBER	CHK'D BY	REMARKS	NON-DESTRUCTIVE TEST DATE	NON-DESTRUCTIVE CHECKED BY
A3/A2	WEOS	EEOS	1303	-5	AM	50%	825°-	-	36.9m		AM		10-9	AM
A2/A1	WEOS	EEOS	1359	-5	AM	50%	825°-	-	36.7m		AM		10-9	AM
/	-						-	-						
/	-						-	-						
/	-						-	-						
/	-						-	-						
/	-						-	-						
/	-						-	-						
/	-						-	-						
/	-						-	-						
/	-						-	-						
							DAILY TOTAL		73.6m					

* *REFERENCE SEAM ENDPOINTS FROM AN END OF SEAM (EOS), A REPAIR, OR A POINT LOCATION ON THE SEAM.*

SUBMITTED BY: ASM

DATE: October 26, 2007

LAYFIELD

GEOMEMBRANE SEAM LOG

PROJECT NUMBER: 07C-015 **PROJECT TITLE:** Fuel Farm

OWNER: Baffinland Iron Mines **CONTRACTOR:**

LOCATION: Mary River

PASSING TRIAL SEAMS

	NO.	TIME	TECH ID
✓ FUSION	TF3	1235	AM
EXTRUSION			
SOLVENT			

SHEET NUMBER: 3

DATE: October 14, 2007

SEAM NUMBER	SEAM SECTION * START POINT	SEAM SECTION * FINISH POINT	APPROX. START TIME	AMB. AIR TEMP.	WELD TECH.	PREHEAT OR MACH. SPEED	MACHINE TEMPERATURES DIGITAL SET WEDGE OR BARREL	MACHINE TEMPERATURES DIGITAL SET WEDGE OR BARREL	APPROX. LENGTH WELDED	DESTR. NUMBER	CHK'D BY	REMARKS	NON-DESTRUCTIVE TEST DATE	NON-DESTRUCTIVE CHECKED BY
A1/B1	WEOS	EEOS	1308	-3°C	AM	50%	825°	-	353m		AM		10-14	AM.
/	-						-	-						
/	-						-	-						
/	-						-	-						
/	-						-	-						
/	-						-	-						
/	-						-	-						
/	-						-	-						
/	-						-	-						
/	-						-	-						
/	-						-	-						
							DAILY TOTAL		353m					

* *REFERENCE SEAM ENDPOINTS FROM AN END OF SEAM (EOS), A REPAIR, OR A POINT LOCATION ON THE SEAM.*

SUBMITTED BY: ASM

DATE: October 26, 2007

LAYFIELD

GEOMEMBRANE SEAM LOG

PROJECT NUMBER: 07C-015 **PROJECT TITLE:** Fuel Form

OWNER: Baffinland Iron Mines **CONTRACTOR:**

LOCATION: Mary River

PASSING TRIAL SEAMS

✓ FUSION

_____ EXTRUSION

_____ SOLVENT

NO.	TIME	TECH ID
TF-4	1330	AM

SHEET NUMBER: 4

DATE: October 15, 2007

SEAM NUMBER	SEAM SECTION * START POINT	SEAM SECTION * FINISH POINT	APPROX. START TIME	AMB. AIR TEMP.	WELD TECH.	PREHEAT OR MACH. SPEED	MACHINE TEMPERATURES DIGITAL SET WEDGE OR BARREL	MACHINE TEMPERATURES DIGITAL SET WEDGE OR BARREL	APPROX. LENGTH WELDED	DESTR. NUMBER	CHK'D BY	REMARKS	NON-DESTRUCTIVE TEST DATE	NON-DESTRUCTIVE CHECKED BY
B2/B1	EEOS-WEOS		1410	-2°C	AM	50%	825 -	-	349m		AM		10-15	AM
/	-						-	-						
/	-						-	-						
/	-						-	-						
/	-						-	-						
/	-						-	-						
/	-						-	-						
/	-						-	-						
/	-						-	-						
/	-						-	-						
/	-						-	-						
/	-						-	-						
								DAILY TOTAL	34.9m					

* *REFERENCE SEAM ENDPOINTS FROM AN END OF SEAM (EOS), A REPAIR, OR A POINT LOCATION ON THE SEAM.*

SUBMITTED BY: ASM

DATE: October 26, 2007

LAYFIELD

GEOMEMBRANE VACUUM / AIR LANCE TEST LOG

PROJECT NUMBER: 07C-015 **PROJECT TITLE:** Fuel Farm

OWNER: Baffinland Iron Mines **CONTRACTOR:**

LOCATION: Mary River **DATE:**

VACUUM BOX _____ **AIR LANCE** ✓ **SHEET NUMBER:** 1

SEAMS							
SEAM NUMBER	SEAM SECTION * FROM TO	TEST DATE	TECH ID	DEFECTS **	SEAM COMPLETE NO YES	CHK'D BY	REMARKS **
A3-A4	WEOS - EEOS	10-8	AM		✓	AM	
A3-A2	WEOS - EEOS	10-9	AM		✓	AM	
A2-A1	WEOS - EEOS	10-9	AM		✓	AM	
A1-B1	WEOS - EEOS	10-14	AM		✓	AM	
B2-B1	WEOS - EEOS	10-15	AM		✓	AM	
	-						
	-						
	-						
	-						
	-						
	-						
	-						
	-						
	-						
	-						
	-						
	-						
	-						
	-						
	-						

REPAIRS					
DEFECT CODE	TEST DATE	TECH ID	DEFECTS **	CHK'D BY	REMARKS **
1A	10-8	AM		AM	
1B	10-8	AM		AM	
1C	10-9	AM		AM	
1D	10-9	AM		AM	
1E	10-9	AM		AM	
1F	10-9	AM		AM	
1G	10-14	AM		AM	
1H	10-14	AM		AM	
1I	10-14	AM		AM	
1J	10-14	AM		AM	
1K	10-14	AM		AM	
1L	10-14	AM		AM	
1M	10-14	AM		AM	
1N	10-15	AM		AM	
1O	10-15	AM		AM	
1P	10-15	AM		AM	
1Q	10-15	AM		AM	
1R	10-17	AM		AM	

* REFERENCE SEAM ENDPOINTS FROM AN END OF SEAM (EOS), A REPAIR NUMBER, OR A POINT LOCATION ON THE SEAM

** RECORD QUANTITY OF LEAKS DETECTED AND REFERENCE NEW DEFECT CODE IN REMARKS

SUBMITTED BY: ASM

DATE: October 26, 2007

LAYFIELD

GEOMEMBRANE DEFECT / REPAIR LOG

PROJECT NUMBER: 07C-015 **PROJECT TITLE:** Fuel Farm

OWNER: Baffinland **CONTRACTOR:**

LOCATION: Mary River **SHEET NUMBER:** 1

DEFECT CODE	LOG DATE	DEFECT LOCATION		DEFECT TYPE	REPAIR TYPE	WELD TECH.	REPAIR DATE	REMARKS **	TEST DATE	CHECKED BY
		SEAM OR PANEL NO.	DEFECT LOCATION DESCRIPTION							
1A	10-8	Seam A4-A3	11.4m from WEOS	WR	P	AM	10-8		10-8	AM
1B	10-8	Seam A4-A3	28.1m from WEOS	WR	P	AM	10-8		10-8	AM
1C	10-9	Seam A3-A2	9m from WEOS	XS		AM	10-9	welded flap	10-9	A.M
1D	10-9	Seam A3-A2	30.1m from WEOS	WR	P	AM	10-9		10-9	A.M
1E	10-9	Seam A3-A2	32.3m from WEOS	WR	P	AM	10-9		10-9	A.M
1F	10-9	Seam A2-A1	east toe	XS		AM	10-9	welded flap.	10-9	A M
1G	10-14	Seam A1-B1	3.8m from EEOS	WR	P	AM	10-14		10-14	A.M.
1H	10-14	Seam A1-B1	22.1m from WEOS	WR	P	AM	10-14		10-14	AM
1I	10-14	Seam A1-B1	23.6m from WEOS	WR	P	AM	10-14		10-14	A M.
1J	10-14	Panel B1	West crest	SR	P	AM	10-14	2.3m from S A1-B1	10-14	AM
1K	10-14	Panel B1	West crest	SR	P	AM	10-14	3.6m from S A1-B1	10-14	AM
1L	10-14	Panel B1	22.1m from W edge	SR	P	AM	10-14	4.1m N of SA1-B1	10-14	AM
1m	10-14	Panel B1	8m from W edge	S.R.	P	AM	10-14	12.2m N of SA1-B1	10-14	AM
1N	10-15	Seam B1-B2	East crest	WR		AM	10-15	welded flap	10-15	AM
1O	10-15	Seam B1-B2	East toe	WR	P	AM	10-15		10-15	A.M.
1P	10-15	Seam B1-B2	6.2m from EEOS	WR		AM	10-15	welded flap	10-15	A.M
1Q	10-15	Panel B2	7m from N edge	SR	P	AM	10-15	4m from W toe	10-15	AM
1R	10-17	Panel B2	.8m from N toe	Sump		AM	10-17	13m from E toe	10-17	AM

DEFECT TYPE: AD - ANIMAL RELATED DAMAGE; B - UNDISPERSED RESIN BEAD; BO - FUSION WELDER BURN; BS - BOOT/SKIRT FROM FML PENETRATION; CO - CHANGE OF OVERLAP; CR - CREASE; D - INSTALLATION DAMAGE; DS-# - DESTRUCTIVE TEST NUMBER; EE - EARTHWORK EQUIPMENT DAMAGE; EXT - EXTENSION; FM - FISHMOUTH; FS - FAILED SEAM LENGTH; FTS - FIELD TEST STRIP; HT - HEAT TACK BURN; IO - INSUFFICIENT OVERLAP (UNDER SPEC.); MD - MANUFACTURER/DELIVERY DAMAGE; PT - PRESSURE TEST CUT; SI - SOIL SURFACE IRREGULARITY; SL - SLAG ON TEXTURED SHEET; T - THREE PANEL INTERSECTION; VL - VACUUM TEST LEAK; WR - WRINKLE; WS - WELDER RESTART; OTHER: SR - snow removal

REPAIR TYPE: P - PATCH, C - CAP, RS - RECONSTRUCTED SEAM, G&W - GRIND/WELD

PASSING TRIAL SEAMS		
NO.	TIME	TECH ID.

** COLUMNS TO BE USED BY THE PROJECT SUPERVISOR OR LEAD TECHNICIAN ONLY.

SUBMITTED BY: ASM

DATE: Oct. 26, 2007

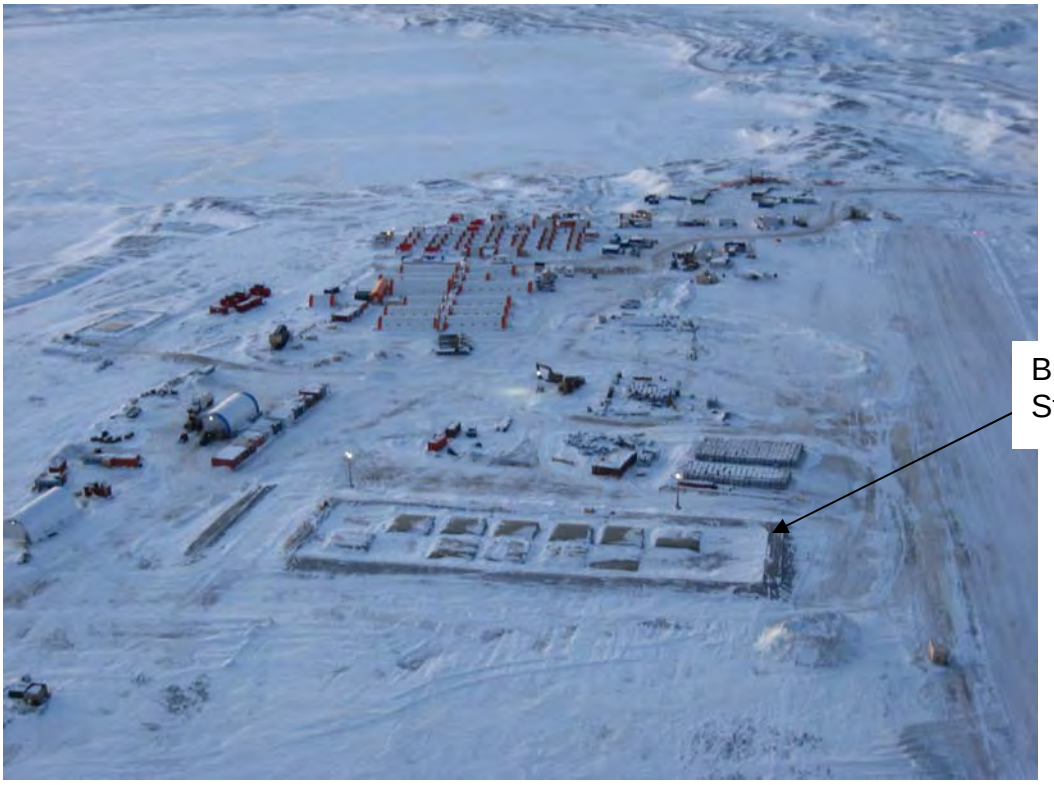

Photo 1: Mary River aerial view. The Bulk Fuel Storage Facility is seen above.


Photo 2: The slopes of the berms are prepared as per the design.

Photo 3: The base of the containment area is being prepared.

Photo 4: The slopes and the base are ready for the installation of the liner.

Photo 5: The liner material is shown above.


Photo 6: The liner is being installed within the containment and slopes.

Photo 7: Liner is installed over the slopes. The slopes and the base of the liner will then be protected with appropriate thickness of granular material.

Photo 8: Granular material is being placed over the liner.

Photo 9: Appropriate amount of cover is being placed over the liner.

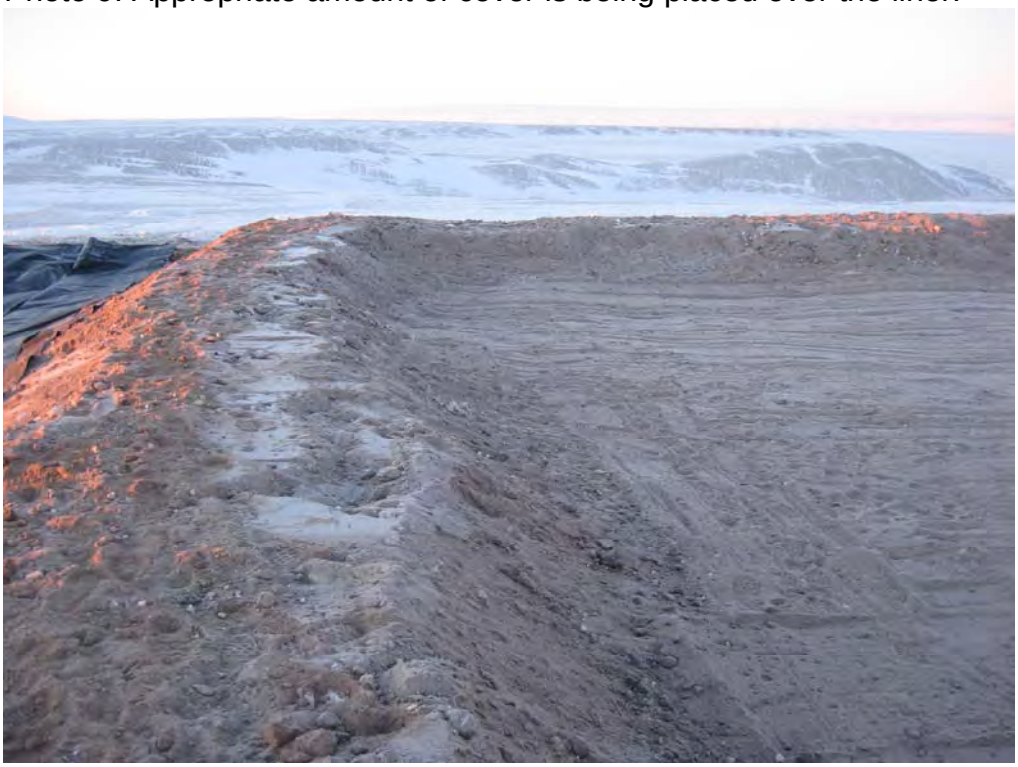

Photo 10: Completed containment is seen above.

Photo 11: Fuel bladders are placed at their appropriate locations as per the design.

Photo 12: Fuel dispensing area is being prepared.

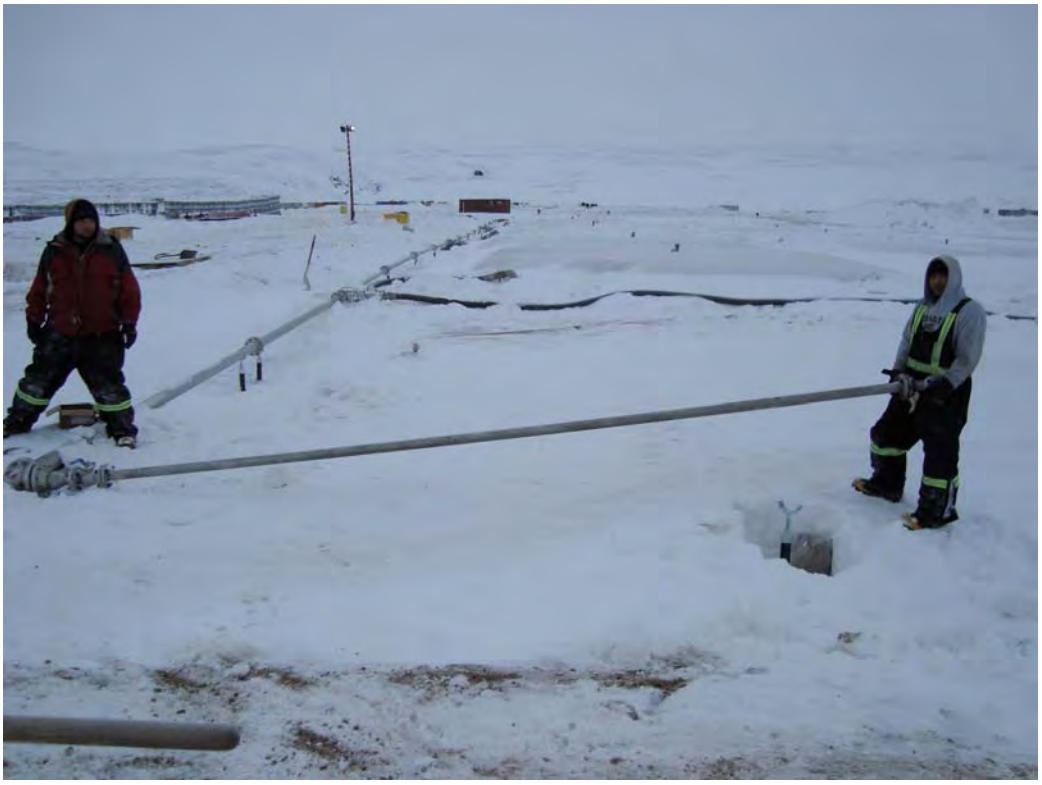

Photo 13: Mechanical crew installing the piping as per the design by SEI.

Photo 14: Bulk Fuel Storage Facility at completion.