





CERTIFICATE OF FINAL INSPECTION AND ACCEPTANCE

PROJECT NAME: Mary River Project "M.Ine Inlet site"
PROJECT NUMBER: CT000071 DATE: 17 / Aug 2014
OWNER: Baffinland Iron Mine Corporation
LOCATION: Nunavut.

SCOPE OF INSTALLATION(S): THE WORK

Geotextile underlay and overlay and liner install on "Landform,
Hazardous Waste North and south, Ammer shop and Rucking shop.
Areas 100%. Tested and clean up.
Geotextile underlay and liner install Sedimentation Pond stock Pile
West and East. 100%. tested and clean up.

Part 1 – LAYFIELD ENVIRONMENTAL SYSTEMS LTD.

I, Yonatan Espindola, a duly appointed representative of Layfield Environmental Systems Ltd. (LESL), have visually observed the installations (as outlined above), and have found the Work to be complete and free of defects and declare that the Work was completed in accordance with the project specifications, Layfield Environmental Systems' QC program and the terms and conditions of the contract.

Layfield Environmental Systems Representative:

Name: Yonatan Espindola
Title: Supervisor
Date: 17 / Aug / 2014 Signature: Yonatan Espindola

Part 2 – OWNER (or Representative)

I, Marlon Coalley, a duly appointed representative of Hatch
for Baffinland, do hereby take over and accept the installation(s)
described above, and confirm that the work has been completed in accordance with the project
specifications and the terms of the conditions of the contract.

I have evaluated and measured the work together with the Layfield Environmental Systems representative, and agree that the measurements shown are both true and correct, and that the installation has met our approval.

Owners Representative:

Name: Marlon Coalley
Title: Construction Manager
Company: Hatch
Date: Aug 18 / 2014 Signature: Marlon Coalley

Comments: _____

HATCH				VENDOR DATA REVIEW			
Doc Number	E349000-CC004-02-198-0001-005	Sub	01				
Date Received							
Review Grade			Next Submittal Status				
<input type="checkbox"/> C1 - Proceed to next submission & status			<input type="checkbox"/> Internal Review				
<input type="checkbox"/> C2 - Proceed with exceptions as noted to next submission & status			<input type="checkbox"/> Certified Final				
<input type="checkbox"/> C3 - Do not proceed, revise as noted & resubmit			<input type="checkbox"/> Final				
			<input type="checkbox"/> As-Built				
			Next Submittal Date:				
<input type="checkbox"/> No further submission required - Complete			<input type="checkbox"/>				
<input type="checkbox"/> C4 - No further submission required - Cancelled			<input type="checkbox"/>				
<input type="checkbox"/> No further submission required - Superseded			<input type="checkbox"/>				
Package Coordinator: Name, signature and Date:							
<small>REVIEWED ONLY FOR GENERAL CONFORMITY WITH THE SPECIFICATIONS. ACCEPTANCE BY THE ENGINEER DOES NOT WARRANT OR REPRESENT THAT THE INFORMATION CONTAINED ON THIS DRAWING/DOCUMENT IS EITHER ACCURATE OR COMPLETE. THE SOLE RESPONSIBILITY FOR CORRECT DESIGN, DETAILS & DIMENSIONS SHALL REMAIN WITH THE PARTY SUBMITTING THE DRAWING/DOCUMENT.</small>							



CERTIFICATE OF ACCEPTANCE
OF SOIL SUBGRADE SURFACE

PROJECT NAME: Mary River Project
PROJECT NUMBER: CT-000071
OWNER: Baffinland Iron Mine Corporation
LOCATION: Snow Containment Cell

I, the undersigned, a duly appointed representative of Layfield Environmental Systems Ltd. (LESL), have visually observed the soil subgrade described below, and found it to be an acceptable surface on which to install geomembrane.

This certification is based on observations of the surface of the subgrade only. No subterranean inspections or tests have been performed by Layfield Environmental Systems, and LESL makes no representations or warranties regarding conditions which may exist below the surface of the subgrade. Layfield Environmental Systems accepts no responsibility for conformance of the subgrade to this project's specifications.

The soil subgrade accepted on this date refers to its present condition. Any changes in the subgrade condition that result from the effects of inclement weather and/or other forces beyond the control of Layfield Environmental Systems and remedial work to correct the resulting deficiencies, will be the direct responsibility of the General Contractor.

Area Being Accepted: Snow Containment Cell. 3000m². There is a lot of rocks in between land farm and snow containment cell. Hatch said that is was OK because they were not back filling there.

LAYFIELD ENVIRONMENTAL SYSTEMS REPRESENTATIVE:

Date: 7/29/14
Signature: [Signature]
Name: Thomas Wheeler
Title: QC Technician

OWNERS REPRESENTATIVE:

Date: 7/29/14
Signature: [Signature]
Name: Marlon Coalley
Title: Construction Manager
Company: Gale



GEOMEMBRANE DEPLOYMENT LOG

PROJECT NUMBER: CT-000071 PROJECT TITLE: Mary River Project

OWNER: Baffinland Iron Mine Corporation CONTRACTOR:

LOCATION: Snow Containment

GEOMEMBRANE SECONDARY PRIMARY CLOSURE OTHER

SUBGRADE CONDITION (SURFACE COMPACTION, PROTRUSIONS, DESICCATION, EXCESSIVE MOISTURE):

REMARKS: DATE: 27-Jul-14

SHEET NUMBER: 1

DEPLOYMENT EQUIPMENT:

	PANEL LOCATION REFERENCE NUMBER P1	PANEL LOCATION REFERENCE NUMBER P2	PANEL LOCATION REFERENCE NUMBER P3
PANEL/ROLL NUMBER	R2	R2	R2
DEPLOYMENT LENGTH	12m	12m	12m
AMBIENT AIR TEMP.	13	13	13
VISUAL OBSERVATION	OK	OK	OK
OBSERVED OVERLAP	6 INCH	6 INCH	6 INCH
CHECKED BY	TW	TW	TW
ADJACENT PANEL	N= S= P9 E= P2 W=	N= S= P9 E= P3 W= P1	N= S= P9 E= P4 W= P2

DESCRIPTION	PANEL LOCATION REFERENCE NUMBER P4	PANEL LOCATION REFERENCE NUMBER P5	PANEL LOCATION REFERENCE NUMBER P6
PANEL/ROLL NUMBER	R2	R2	R2
DEPLOYMENT LENGTH	12m	12m	12m
AMBIENT AIR TEMP.	13	13	13
VISUAL OBSERVATION	OK	OK	OK
OBSERVED OVERLAP	6 INCH	6 INCH	6 INCH
CHECKED BY	TW	TW	TW
ADJACENT PANEL	N= S= P9 E= P5 W= P3	N= S= P9 E= P6 W= P4	N= S= P9 E= P7 W= P5

DESCRIPTION	PANEL LOCATION REFERENCE NUMBER P7	PANEL LOCATION REFERENCE NUMBER P8	PANEL LOCATION REFERENCE NUMBER P9
PANEL/ROLL NUMBER	R2	R2	R2
DEPLOYMENT LENGTH	12m	12m	50m
AMBIENT AIR TEMP.	13	13	13
VISUAL OBSERVATION	OK	OK	OK
OBSERVED OVERLAP	6 INCH	6 INCH	6 INCH
CHECKED BY	TW	TW	TW
ADJACENT PANEL	N= S= P9 E= P8 W= P6	N= S= P9 E= W= P7	N= P1 to P8 S= P10 E= W=

DESCRIPTION	PANEL LOCATION REFERENCE NUMBER	PANEL LOCATION REFERENCE NUMBER	PANEL LOCATION REFERENCE NUMBER
PANEL/ROLL NUMBER			
DEPLOYMENT LENGTH			
AMBIENT AIR TEMP.			
VISUAL OBSERVATION			
OBSERVED OVERLAP			
CHECKED BY			
ADJACENT PANEL	N= S= E= W=	N= S= E= W=	N= S= E= W=

SUBMITTED BY: TW

DATE: 27-Jul-14



GEOMEMBRANE DEPLOYMENT LOG

PROJECT NUMBER: CT-000071 PROJECT TITLE: Mary River Project

OWNER: Baffinland Iron Mine Corporation CONTRACTOR: _____

LOCATION: Snow Containment

GEOMEMBRANE SECONDARY PRIMARY CLOSURE OTHER _____

SUBGRADE CONDITION (SURFACE COMPACTION, PROTRUSIONS, DESICCATION, EXCESSIVE MOISTURE): _____

REMARKS: _____ DATE: 28-Jul-14

_____ SHEET NUMBER: 2

DEPLOYMENT EQUIPMENT: _____

	PANEL LOCATION REFERENCE NUMBER <u>P10</u>	PANEL LOCATION REFERENCE NUMBER <u>P11</u>	PANEL LOCATION REFERENCE NUMBER <u>P12</u>
PANEL/ROLL NUMBER	<u>R6</u>	<u>R6</u>	<u>R6</u>
DEPLOYMENT LENGTH	<u>50m</u>	<u>50m</u>	<u>28m</u>
AMBIENT AIR TEMP.	<u>10</u>	<u>10</u>	<u>10</u>
VISUAL OBSERVATION	<u>OK</u>	<u>OK</u>	<u>OK</u>
OBSERVED OVERLAP	<u>6 INCH</u>	<u>6 INCH</u>	<u>6 INCH</u>
CHECKED BY	<u>TW</u>	<u>TW</u>	<u>TW</u>
ADJACENT PANEL	N= <u>P9</u> S= <u>P11</u> E= _____ W= _____	N= <u>P10</u> S= <u>P12-P13</u> E= _____ W= _____	N= <u>P11</u> S= <u>P14</u> E= <u>P13</u> W= _____

DESCRIPTION	PANEL LOCATION REFERENCE NUMBER <u>P13</u>	PANEL LOCATION REFERENCE NUMBER <u>P14</u>	PANEL LOCATION REFERENCE NUMBER <u>P15</u>
PANEL/ROLL NUMBER	<u>R11</u>	<u>R11</u>	<u>R11</u>
DEPLOYMENT LENGTH	<u>22m</u>	<u>50m</u>	<u>11.5m</u>
AMBIENT AIR TEMP.	<u>10</u>	<u>10</u>	<u>10</u>
VISUAL OBSERVATION	<u>OK</u>	<u>OK</u>	<u>OK</u>
OBSERVED OVERLAP	<u>6 INCH</u>	<u>6 INCH</u>	<u>6 INCH</u>
CHECKED BY	<u>TW</u>	<u>TW</u>	<u>TW</u>
ADJACENT PANEL	N= <u>P11</u> S= <u>P14</u> E= _____ W= <u>P12</u>	N= <u>P12-P13</u> S= <u>P15-P24</u> E= _____ W= _____	N= <u>P14</u> S= <u>P16</u> E= _____ W= <u>P17</u>

DESCRIPTION	PANEL LOCATION REFERENCE NUMBER <u>P16</u>	PANEL LOCATION REFERENCE NUMBER <u>P17</u>	PANEL LOCATION REFERENCE NUMBER <u>P18</u>
PANEL/ROLL NUMBER	<u>R11</u>	<u>R11</u>	<u>R11</u>
DEPLOYMENT LENGTH	<u>11.5m</u>	<u>15m</u>	<u>15m</u>
AMBIENT AIR TEMP.	_____ <u>10</u>	_____ <u>10</u>	_____ <u>10</u>
VISUAL OBSERVATION	<u>OK</u>	<u>OK</u>	<u>OK</u>
OBSERVED OVERLAP	<u>6 INCH</u>	<u>6 INCH</u>	<u>6 INCH</u>
CHECKED BY	<u>TW</u>	<u>TW</u>	<u>TW</u>
ADJACENT PANEL	N= <u>P15</u> S= _____ E= _____ W= <u>P17</u>	N= <u>P14</u> S= _____ E= <u>P15-P16</u> W= <u>P18</u>	N= <u>P14</u> S= _____ E= <u>P17</u> W= <u>P19</u>

DESCRIPTION	PANEL LOCATION REFERENCE NUMBER <u>P19</u>	PANEL LOCATION REFERENCE NUMBER <u>P20</u>	PANEL LOCATION REFERENCE NUMBER <u>P21</u>
PANEL/ROLL NUMBER	<u>R11</u>	<u>R24</u>	<u>R5</u>
DEPLOYMENT LENGTH	<u>15m</u>	<u>15m</u>	<u>15m</u>
AMBIENT AIR TEMP.	_____ <u>13</u>	_____ <u>13</u>	_____ <u>13</u>
VISUAL OBSERVATION	<u>OK</u>	<u>OK</u>	<u>OK</u>
OBSERVED OVERLAP	<u>6 INCH</u>	<u>6 INCH</u>	<u>6 INCH</u>
CHECKED BY	<u>TW</u>	<u>TW</u>	<u>TW</u>
ADJACENT PANEL	N= <u>P14</u> S= _____ E= <u>P18</u> W= <u>P20</u>	N= <u>P14</u> S= _____ E= <u>P19</u> W= <u>P21</u>	N= <u>P14</u> S= _____ E= <u>P20</u> W= <u>P22</u>

SUBMITTED BY: TW

DATE: 28-Jul-14



GEOMEMBRANE DEPLOYMENT LOG

PROJECT NUMBER: CT-000071 PROJECT TITLE: Mary River Project
OWNER: Baffinland Iron Mine Corporation CONTRACTOR: _____
LOCATION: Snow Containment
GEOMEMBRANE SECONDARY PRIMARY CLOSURE OTHER _____
SUBGRADE CONDITION (SURFACE COMPACTION, PROTRUSIONS, DESICCATION, EXCESSIVE MOISTURE): _____
REMARKS: _____ DATE: 28-Jul-14
SHEET NUMBER: 2B

DEPLOYMENT EQUIPMENT: _____

	PANEL LOCATION REFERENCE NUMBER <u>P22</u>	PANEL LOCATION REFERENCE NUMBER <u>P23</u>	PANEL LOCATION REFERENCE NUMBER _____
PANEL/ROLL NUMBER	<u>R5</u>	<u>R5</u>	
DEPLOYMENT LENGTH	<u>15m</u>	<u>12m</u>	
AMBIENT AIR TEMP.	<u>13</u>	<u>13</u>	
VISUAL OBSERVATION	<u>OK</u>	<u>OK</u>	
OBSERVED OVERLAP	<u>6 INCH</u>	<u>6 INCH</u>	
CHECKED BY	<u>TW</u>	<u>TW</u>	
ADJACENT PANEL	N= <u>P14</u> S= _____ E= <u>P21</u> W= <u>P23-P24</u>	N= <u>P24</u> S= _____ E= <u>P22</u> W= _____	N= _____ S= _____ E= _____ W= _____

DESCRIPTION	PANEL LOCATION REFERENCE NUMBER _____	PANEL LOCATION REFERENCE NUMBER _____	PANEL LOCATION REFERENCE NUMBER _____
PANEL/ROLL NUMBER			
DEPLOYMENT LENGTH			
AMBIENT AIR TEMP.			
VISUAL OBSERVATION			
OBSERVED OVERLAP			
CHECKED BY			
ADJACENT PANEL	N= _____ S= _____ E= _____ W= _____	N= _____ S= _____ E= _____ W= _____	N= _____ S= _____ E= _____ W= _____

DESCRIPTION	PANEL LOCATION REFERENCE NUMBER _____	PANEL LOCATION REFERENCE NUMBER _____	PANEL LOCATION REFERENCE NUMBER _____
PANEL/ROLL NUMBER			
DEPLOYMENT LENGTH			
AMBIENT AIR TEMP.			
VISUAL OBSERVATION			
OBSERVED OVERLAP			
CHECKED BY			
ADJACENT PANEL	N= _____ S= _____ E= _____ W= _____	N= _____ S= _____ E= _____ W= _____	N= _____ S= _____ E= _____ W= _____

DESCRIPTION	PANEL LOCATION REFERENCE NUMBER _____	PANEL LOCATION REFERENCE NUMBER _____	PANEL LOCATION REFERENCE NUMBER _____
PANEL/ROLL NUMBER			
DEPLOYMENT LENGTH			
AMBIENT AIR TEMP.			
VISUAL OBSERVATION			
OBSERVED OVERLAP			
CHECKED BY			
ADJACENT PANEL	N= _____ S= _____ E= _____ W= _____	N= _____ S= _____ E= _____ W= _____	N= _____ S= _____ E= _____ W= _____

SUBMITTED BY: TW

DATE: 28-Jul-14

GEOMEMBRANE TRIAL SEAM LOG

PROJECT NUMBER:	<u>CT-000071</u>	PROJECT TITLE:	<u>Mary River Project</u>
OWNER:	<u>Baffinland Iron Mine Corporation</u>	CONTRACTOR:	<u></u>
LOCATION:	<u>Snow Containment</u>	SHEET NUMBER:	<u>1</u>

X TF - # FUSION

TX - # = EXTRUSION

TS - # = SOLVENT

[illegible]



GEOMEMBRANE SEAM LOG

PROJECT NUMBER: CT-000071 **PROJECT TITLE:** Mary River Project
OWNER: Baffinland Iron Mine Corporation **CONTRACTOR:** _____
LOCATION: Snow Containment

PASSING TRIAL SEAMS

 X FUSION
 EXTRUSION
 SOLVENT

NO.	TIME		TECH ID
	TF 11	12:30	
		27-Jul-14	JB

SHEET NUMBER: 1

DATE: 27-Jul-14

SEAM NUMBER	SEAM SECTION * START POINT FINISH POINT	APPROX. START TIME	AMB. AIR TEMP.	WELD TECH.	PREHEAT OR MACH. SPEED	MACHINE TEMPERATURES		APPROX. LENGTH WELDED (M)	DESTR. NUMBER	CHK'D BY	REMARKS	NON- DESTRUCTIVE	
						DIGITAL SET WEDGE OR BARREL	INDICATOR WEDGE OR BARREL					TEST DATE	CHECKED BY
P1 / P2	SEOS-NEOS	1:47	13	JB	60%		850	12m				29-Jul-14	JB
P2 / P3	SEOS-NEOS	1:57	13	JB	60%		850	12m				29-Jul-14	JB
P3 / P4	SEOS-NEOS	2:00	13	JB	60%		850	12m				29-Jul-14	JB
P4 / P5	SEOS-NEOS	2:07	13	JB	60%		850	12m				29-Jul-14	JB
P5 / P6	SEOS-NEOS	2:20	13	JB	60%		850	12m				29-Jul-14	JB
P6 / P7	SEOS-NEOS	2:25	13	JB	60%		850	12m				29-Jul-14	JB
P7 / P8	SEOS-NEOS	2:42	13	JB	60%		850	12m				29-Jul-14	JB
P9 / TIE IN	EEOS-WEOS	4:00	13	JB	60%		850	50m	DT-1	TW	PASS	29-Jul-14	JB
/													
/													
/													
DAILY TOTAL								134m					

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

SUBMITTED BY: TW

DATE: 29-Jul-14



GEOMEMBRANE SEAM LOG

PROJECT NUMBER: CT-000071 **PROJECT TITLE:** Mary River Project
OWNER: Baffinland Iron Mine Corporation **CONTRACTOR:** _____
LOCATION: Snow Containment

PASSING TRIAL SEAMS

 X FUSION
 EXTRUSION
 SOLVENT

NO.	TIME	TECH ID
TF 12	7:15	28-Jul-14
TF 13	12:30	28-Jul-14

SHEET NUMBER: 2

DATE: 28-Jul-14

SEAM NUMBER	SEAM SECTION * START POINT FINISH POINT	APPROX. START TIME	AMB. AIR TEMP.	WELD TECH.	PREHEAT OR MACH. SPEED	MACHINE TEMPERATURES		APPROX. LENGTH WELDED (M)	DESTR. NUMBER	CHK'D BY	REMARKS	NON- DESTRUCTIVE	
						DIGITAL SET WEDGE OR BARREL	INDICATOR WEDGE OR BARREL					TEST DATE	CHECKED BY
P9 / P10	WEOS-EEOS	8:00	8	JB	60%		850	50m				29-Jul-14	JB
P10 / P11	WEOS-EEOS	8:27	8	JB	60%		850	50m				29-Jul-14	JB
P12 / P13	SEOS-NEOS	8:58	8	JB	60%		850	6.5m				29-Jul-14	JB
P11 12 P13	WEOS-EEOS	9:30	8	JB	60%		850	50m	DT-2	TW	PASS	29-Jul-14	JB
P12 13 P14	WEOS-EEOS	10:00	10	JB	60%		850	50m				29-Jul-14	JB
P15 / P16	WEOS-EEOS	10:30	10	JB	60%		850	11.5m				29-Jul-14	JB
P15 16 P17	NEOS-SEOS	10:40	10	JB	60%		850	12m				29-Jul-14	JB
P17 / P18	NEOS-SEOS	10:48	10	JB	60%		850	15m				29-Jul-14	JB
P18 / P19	NEOS-SEOS	11:00	10	JB	60%		850	15m				29-Jul-14	JB
P19 / P20	NEOS-SEOS	11:05	10	JB	60%		850	15m				29-Jul-14	JB
P20 / P21	NEOS-SEOS	11:25	10	JB	60%		850	15m				29-Jul-14	JB
DAILY TOTAL								290m					

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

SUBMITTED BY: TW

DATE: 29-Jul-14



GEOMEMBRANE SEAM LOG

PROJECT NUMBER: CT-000071 **PROJECT TITLE:** Mary River Project
OWNER: Baffinland Iron Mine Corporation **CONTRACTOR:** _____
LOCATION: Snow Containment

PASSING TRIAL SEAMS

 X FUSION
 EXTRUSION
 SOLVENT

NO.	TIME	TECH ID
TF 12	7:15	28-Jul-14
TF 13	12:30	28-Jul-14

SHEET NUMBER: 2

DATE: 28-Jul-14

SEAM NUMBER	SEAM SECTION * START POINT FINISH POINT	APPROX. START TIME	AMB. AIR TEMP.	WELD TECH.	PREHEAT OR MACH. SPEED	MACHINE TEMPERATURES		APPROX. LENGTH WELDED (M)	DESTR. NUMBER	CHK'D BY	REMARKS	NON- DESTRUCTIVE	
						DIGITAL SET WEDGE OR BARREL	INDICATOR WEDGE OR BARREL					TEST DATE	CHECKED BY
P21 / P22	NEOS-SEOS	1:17	10	JB	60%		850	15m				29-Jul-14	JB
P22 / P23	NEOS-SEOS	1:45	10	JB	60%		850	15m	DT-3	TW	PASS	29-Jul-14	JB
P23 / P24	WEOS-EEOS	2:30	10	JB	60%		850	4m				29-Jul-14	JB
P22 P24	SEOS-NEOS	2:35	10	JB	60%		850	4m				29-Jul-14	JB
P24 to P15	WEOS-EEOS	4:45	10	JB	60%		850	50m				29-Jul-14	JB
/													
/													
/													
/													
/													
DAILY TOTAL								88m					

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

SUBMITTED BY: TW

DATE: 29-Jul-14

LAYFIELD GEOMEMBRANE VACUUM / AIR LANCE TEST LOG

PROJECT NUMBER: CT-000071 **PROJECT TITLE:** Mary River Project
OWNER: Baffinland Iron Mine Corporation **CONTRACTOR:** _____
LOCATION: Snow Containment

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

SEAMS								REPAIRS						
SEAM NUMBER	SEAM SECTION * FROM TO	TEST DATE	TECH ID	DEFECTS **	COMPLETE NO YES	CHK'D BY	REMARKS **	DEFECT CODE	TEST DATE	TECH ID	DEFECTS **	CHK'D BY	REMARKS **	
/	-							1 A	29-Jul-14	JB		TW	2' PATCH	
/	-							1 B	29-Jul-14	JB		TW	T-WELD	
/	-							1 C	29-Jul-14	JB		TW	T-WELD	
/	-							1 D	29-Jul-14	JB		TW	T-WELD	
/	-							1 E	29-Jul-14	JB		TW	T-WELD	
/	-							1 F	29-Jul-14	JB		TW	T-WELD	
/	-							1 G	29-Jul-14	JB		TW	T-WELD	
/	-							1 H	29-Jul-14	JB		TW	T-WELD	
/	-							1 I	29-Jul-14	JB		TW	T-WELD	
/	-							1 J	29-Jul-14	JB		TW	T-WELD	
/	-							1 K	29-Jul-14	JB		TW	T-WELD	
/	-							1 L	29-Jul-14	JB		TW	6" WELD	
/	-							1 M	29-Jul-14	JB		TW	2' PATCH	
/	-							1 N	29-Jul-14	JB		TW	2' PATCH	
/	-							1 O	29-Jul-14	JB		TW	T-WELD	
/	-							1 P	29-Jul-14	JB		TW	T-WELD	
/	-							1 Q	29-Jul-14	JB		TW	T-WELD	
/	-							1 R	29-Jul-14	JB		TW	2' PATCH	
/	-							1 S	29-Jul-14	JB		TW	T-WELD	
/	-							1 T	29-Jul-14	JB		TW	T-WELD	

* 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



PROJECT NUMBER:	<u>CT-000071</u>	PROJECT TITLE:	<u>Mary River Project</u>
OWNER:	<u>Baffinland Iron Mine Corporation</u>	CONTRACTOR:	<u></u>
LOCATION:	<u>Snow Containment</u>		

VACUUM BOX X

AIR LANCE

SHEET NUMBER: 2

[illegible]

* 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

LS FORM 6

Layfield Environmental Systems

SUBMITTED BY: TW
DATE: 29-Jul



GEOMEMBRANE SEAM PRESSURE TEST LOG

PROJECT NUMBER: CT-000071

PROJECT TITLE: Mary River Project

OWNER: Baffinland Iron Mine Corporation

CONTRACTOR:

LOCATION: Snow Containment

DATE: 29-Jul-14

SHEET NUMBER: 1A

SEAM NUMBER	SEAM SECTION *		TECH. ID	PRESSURE PSI		TIME		RESULTS		SEAM COMPLETE		CH'KD BY	REMARKS **
	FROM	TO		Start	Finish	START	FINISH	PASS	FAIL	NO	YES		
P8 / P9	WEOS	- EEOS	JB	40	: 40	7:25	7:30	PASS			YES	TW	
P7 / P8	SEOS	- NEOS	JB	40	: 40	7:25	7:30	PASS			YES	TW	
P7 / P9	EEOS	- WEOS	JB	40	: 40	7:25	7:30	PASS			YES	TW	
P6 / P7	SEOS	- NEOS	JB	40	: 40	7:28	7:33	PASS			YES	TW	
P6 / P9	EEOS	- WEOS	JB	40	: 40	7:28	7:33	PASS			YES	TW	
P5 / P6	SEOS	- NEOS	JB	40	: 40	7:40	7:45	PASS			YES	TW	
P5 / P9	EEOS	- WEOS	JB	40	: 40	7:40	7:45	PASS			YES	TW	
P4 / P5	SEOS	- NEOS	JB	40	: 40	7:43	7:48	PASS			YES	TW	
P4 / P9	EEOS	- WEOS	JB	40	: 40	7:43	7:48	PASS			YES	TW	
P3 / P4	SEOS	- NEOS	JB	40	: 40	7:49	7:54	PASS			YES	TW	
P3 / P9	EEOS	- WEOS	JB	40	: 40	7:49	7:54	PASS			YES	TW	
P2 / P3	SEOS	- NEOS	JB	40	: 40	7:50	7:55	PASS			YES	TW	
P2 / P9	EEOS	- WEOS	JB	40	: 40	7:50	7:55	PASS			YES	TW	
P1 / P2	SEOS	- NEOS	JB	40	: 40	7:50	7:55	PASS			YES	TW	
P1 / P9	EEOS	- WEOS	JB	40	: 40	7:50	7:55	PASS			YES	TW	
P23 / P24	WEOS	- EEOS	JB	40	: 40	10:00	10:05	PASS			YES	TW	
P22 / P23	NEOS	- SEOS	JB	40	: 40	10:00	10:05	PASS			YES	TW	

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

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

DATE: 29-Jul

SUBMITTED BY: TW



GEOMEMBRANE SEAM PRESSURE TEST LOG

PROJECT NUMBER: ct-000071

PROJECT TITLE: Mary River Project

OWNER: Baffinland Iron mine Corporation

CONTRACTOR: _____

LOCATION: Snow Containment

DATE: 29-Jul-14

SHEET NUMBER: 1B

SEAM NUMBER	SEAM SECTION *		TECH. ID	PRESSURE PSI		TIME		RESULTS		SEAM COMPLETE		CH'KD BY	REMARKS **
	FROM	TO		Start	Finish	START	FINISH	PASS	FAIL	NO	YES		
P22 / P24	SEOS	- NEOS	JB	40	: 40	10:00	10:05	PASS			YES	TW	
P14 / P24	WEOS	- EEOS	JB	40	: 40	10:10	10:05	PASS			YES	TW	
P21 / P22	NEOS	- SEOS	JB	40	: 40	10:25	10:30	PASS			YES	TW	
P22 / P14	WEOS	- EEOS	JB	40	: 40	10:25	10:30	PASS			YES	TW	
P20 / P21	NEOS	- SEOS	JB	40	: 40	10:27	10:32	PASS			YES	TW	
P20 / P14	WEOS	- EEOS	JB	40	: 40	10:27	10:32	PASS			YES	TW	
P19 / P20	NEOS	- SEOS	JB	40	: 40	10:35	10:40	PASS			YES	TW	
P19 / P14	WEOS	- EEOS	JB	40	: 40	10:35	10:40	PASS			YES	TW	
P18 / P19	NEOS	- SEOS	JB	40	: 40	10:42	10:47	PASS			YES	TW	
P18 / P14	WEOS	- EEOS	JB	40	: 40	10:42	10:47	PASS			YES	TW	
P17 / P18	NEOS	- SEOS	JB	40	: 40	10:45	10:50	PASS			YES	TW	
P17 / P14	WEOS	- EEOS	JB	40	: 40	10:45	10:50	PASS			YES	TW	
P15 / P17	NEOS	- SEOS	JB	40	: 40	10:50	10:55	PASS			YES	TW	
P15 / P14	WEOS	- EEOS	JB	40	: 40	10:50	10:55	PASS			YES	TW	
P15 / P16	WEOS	- EEOS	JB	40	: 40	10:52	10:57	PASS			YES	TW	
P16 / P17	NEOS	- SEOS	JB	40	: 40	10:52	10:57	PASS			YES	TW	
/	-			:									

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

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

DATE: 30-Jul

SUBMITTED BY: TW



GEOMEMBRANE DESTRUCTIVE TEST REPORT

PROJECT NUMBER: CT-000071 **PROJECT TITLE:** Mary River Project
OWNER: Baffinland Iron Mine Corporation **CONTRACTOR:** _____
LOCATION: Snow Containment **SHEET NUMBER:** 1

DESTRUCTIVE TEST NUMBER*: DT-1 **TEST DATE:** 30-Jul-14
SEAM NUMBER: P1-P9 **ARCHIVE** _____ **LAYFIELD** _____ **OWNER** _____ **ENGINEER** _____
SAMPLE LOCATION: End of WEOS **3RD PARTY** _____ **YES** _____ **NO** _____ **WHO?** _____
DATE SEAMED / SAMPLED: 27-Jul-14 - **DATE FORWARDED TO LAB** _____
TYPE OF SEAM: Fusion **DATE LAB TEST RESULTS REC'D** _____

FIELD TEST RESULTS (units = lbf. / in. width = ppi)

SHEAR STRENGTH			PEEL ADHESION				
SPECIMEN NUMBER	SEAM STRENGTH	** LOCUS OF BREAK CODE	SPECIMEN NUMBER	INSIDE SEAM		OUTSIDE SEAM	
				ADHESION STRENGTH	LOCUS OF BREAK CODE	ADHESION STRENGTH	** LOCUS OF BREAK CODE
1	107	ES-1	2	99	ES-1	98	ES-1
3	103	ES-1	4	94	ES-1	93	ES-1
5	105	ES-1	6	94	ES-1	97	ES-1
7	110	ES-1	8	94	ES-1	93	ES-1
9	101	ES-1	10	95	ES-1	97	ES-1
11			12				

* DESTRUCTIVE TEST NUMBERS SHOULD BE SEQUENTIAL AND ARE TO BE PREFIXED BY EITHER DT (FUSION), DX (EXTRUSION) OR DS (SOLVENT).

LPL: PASS _____ FAIL _____

** REFER TO LOCUS OF BREAK CODE DIRECTORIES PROVIDED FOR UNSUPPORTED AND SUPPORTED MATERIALS.

3RD PARTY / LAB: PASS _____ FAIL _____

NOTES: _____

CHECKED BY: TW
DATE: 30-Jul-14



GEOMEMBRANE DESTRUCTIVE TEST REPORT

PROJECT NUMBER: CT-000071 **PROJECT TITLE:** Mary River Project
OWNER: Baffinland Iron Mine Corporation **CONTRACTOR:** _____
LOCATION: Snow Containment **SHEET NUMBER:** 2

DESTRUCTIVE TEST NUMBER*: DT-2 **TEST DATE:** 30-Jul-14
SEAM NUMBER: P11-P13 **ARCHIVE** _____ **LAYFIELD** _____ **OWNER** _____ **ENGINEER** _____
SAMPLE LOCATION: End of EEOS **3RD PARTY** _____ **YES** _____ **NO** _____ **WHO?** _____
DATE SEAMED / SAMPLED: 28-Jul-14 - **DATE FORWARDED TO LAB** _____
TYPE OF SEAM: Fusion **DATE LAB TEST RESULTS REC'D** _____

FIELD TEST RESULTS (units = lbf. / in. width = ppi)

SHEAR STRENGTH			PEEL ADHESION				
SPECIMEN NUMBER	SEAM STRENGTH	** LOCUS OF BREAK CODE	SPECIMEN NUMBER	INSIDE SEAM		OUTSIDE SEAM	
				ADHESION STRENGTH	LOCUS OF BREAK CODE	ADHESION STRENGTH	** LOCUS OF BREAK CODE
1	111	ES-1	2	100	ES-1	96	ES-1
3	110	ES-1	4	101	ES-1	101	ES-1
5	111	ES-1	6	99	ES-1	100	ES-1
7	107	ES-1	8	96	ES-1	100	ES-1
9	110	ES-1	10	96	ES-1	102	ES-1
11			12				

* DESTRUCTIVE TEST NUMBERS SHOULD BE SEQUENTIAL AND ARE TO BE PREFIXED BY EITHER DT (FUSION), DX (EXTRUSION) OR DS (SOLVENT).

LPL: PASS _____ FAIL _____

** REFER TO LOCUS OF BREAK CODE DIRECTORIES PROVIDED FOR UNSUPPORTED AND SUPPORTED MATERIALS.

3RD PARTY / LAB: PASS _____ FAIL _____

NOTES: _____

CHECKED BY: TW
DATE: 30-Jul-14



GEOMEMBRANE DESTRUCTIVE TEST REPORT

PROJECT NUMBER: CT-000071 **PROJECT TITLE:** Mary River Project
OWNER: Baffinland Iron Mine Corporation **CONTRACTOR:** _____
LOCATION: Snow Containment **SHEET NUMBER:** 3

DESTRUCTIVE TEST NUMBER*: DT-3 **TEST DATE:** 30-Jul-14
SEAM NUMBER: P22-P23 **ARCHIVE** _____ **LAYFIELD** _____ **OWNER** _____ **ENGINEER** _____
SAMPLE LOCATION: End of SEOS **3RD PARTY** _____ **YES** _____ **NO** _____ **WHO?** _____
DATE SEAMED / SAMPLED: 28-Jul-14 - **DATE FORWARDED TO LAB** _____
TYPE OF SEAM: Fusion **DATE LAB TEST RESULTS REC'D** _____

FIELD TEST RESULTS (units = lbf. / in. width = ppi)

SHEAR STRENGTH			PEEL ADHESION				
SPECIMEN NUMBER	SEAM STRENGTH	** LOCUS OF BREAK CODE	SPECIMEN NUMBER	INSIDE SEAM		OUTSIDE SEAM	
				ADHESION STRENGTH	LOCUS OF BREAK CODE	ADHESION STRENGTH	** LOCUS OF BREAK CODE
1	110	ES-1	2	96	ES-1	102	ES-1
3	112	ES-1	4	94	ES-1	103	ES-1
5	109	ES-1	6	96	ES-1	105	ES-1
7	102	ES-1	8	89	ES-1	86	ES-1
9	108	ES-1	10	100	ES-1	102	ES-1
11			12				

* DESTRUCTIVE TEST NUMBERS SHOULD BE SEQUENTIAL AND ARE TO BE PREFIXED BY EITHER DT (FUSION), DX (EXTRUSION) OR DS (SOLVENT).

LPL: PASS _____ FAIL _____

** REFER TO LOCUS OF BREAK CODE DIRECTORIES PROVIDED FOR UNSUPPORTED AND SUPPORTED MATERIALS.

3RD PARTY / LAB: PASS _____ FAIL _____

NOTES: _____

CHECKED BY: TW
DATE: 30-Jul-14



GEOMEMBRANE DEFECT / REPAIR LOG

PROJECT NUMBER: CT-000071 PROJECT TITLE: Mary River Project
OWNER: Baffinland Iron Mine Corporation CONTRACTOR: _____
LOCATION: Snow Containment 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								
1 A	28-Jul-14	P7 P8 P9	6.5m EEOS-WEOS	T	P	MB		28-Jul-14	2' PATCH	29-Jul-14	JB
1 B	28-Jul-14	P6 P7 P9	6.5m WEST OF 1A	T	G&W	MB		28-Jul-14	T-WELD	29-Jul-14	JB
1 C	28-Jul-14	P5 P6 P9	6.5m WEST OF 1B	T	G&W	MB		28-Jul-14	T-WELD	29-Jul-14	JB
1 D	28-Jul-14	P4 P5 P9	6.5m WEST OF 1C	T	G&W	MB		28-Jul-14	T-WELD	29-Jul-14	JB
1 E	28-Jul-14	P3 P4 P9	6.5m WEST OF 1D	T	G&W	MB		28-Jul-14	T-WELD	29-Jul-14	JB
1 F	28-Jul-14	P2 P3 P9	6.5m WEST OF 1E	T	G&W	MB		28-Jul-14	T-WELD	29-Jul-14	JB
1 G	28-Jul-14	P1 P2 P9	6.5m WEST OF 1F	T	G&W	MB		28-Jul-14	T-WELD	29-Jul-14	JB
1 H	28-Jul-14	P14 / P24	4m SEOS-NEOS	T	G&W	MB		29-Jul-14	T-WELD	29-Jul-14	JB
1 I	28-Jul-14	P23 / P24	4m SOUTH OF 1H	T	G&W	MB		29-Jul-14	T-WELD	29-Jul-14	JB
1 J	28-Jul-14	P22 P23 P24	6.5m EAST OF 1I	T	G&W	MB		29-Jul-14	T-WELD	29-Jul-14	JB
1 K	28-Jul-14	P22 P24 P14	4m NORTH OF 1K	T	G&W	MB		29-Jul-14	T-WELD	29-Jul-14	JB
1 L	28-Jul-14	P22 /	3m EAST OF 1K/ 1m SOUTH OF P14	D	G&W	MB		29-Jul-14	6" WELD	29-Jul-14	JB
1 M	28-Jul-14	P21 P22 P14	6.5m EAST OF 1K	T	P	MB		29-Jul-14	2' PATCH	29-Jul-14	JB
1 N	28-Jul-14	P20 P21 P14	6.5m EAST OF 1M	T	P	MB		29-Jul-14	2' PATCH	29-Jul-14	JB
1 O	28-Jul-14	P19 P20 P14	6.5m EAST OF 1N	T	G&W	MB		29-Jul-14	T-WELD	29-Jul-14	JB
1 P	28-Jul-14	P18 P19 P14	6.5m EAST OF 1O	T	G&W	MB		29-Jul-14	T-WELD	29-Jul-14	JB
1 Q	28-Jul-14	P17 P18 P14	6.5m EAST OF 1P	T	G&W	MB		29-Jul-14	T-WELD	29-Jul-14	JB
1 R	28-Jul-14	P15 P17 P14	6.5m EAST OF 1Q	T	P	MB		29-Jul-14	2' PATCH	29-Jul-14	JB
1 S	28-Jul-14	P15 P16 P17	6.5m SOUTH OF 1R	T	G&W	MB		29-Jul-14	T-WELD	29-Jul-14	JB
1 T	28-Jul-14	P11 P12 P13	35m WEOS-EEOS	T	G&W	MB		29-Jul-14	T-WELD	29-Jul-14	JB

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: _____

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

PASSING TRIAL SEAMS		
NO.	TIME	TECH ID.
TX-1	8:00 28-Jul-14	MB
TX-2	7:30 29-Jul-14	MB

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

LPL FORM 7

LAYFIELD ENVIRONMENTAL SYSTEMS

SUBMITTED BY: TW
DATE: 30-Jul



GEOMEMBRANE DEFECT / REPAIR LOG

PROJECT NUMBER: CT-000071 PROJECT TITLE: Mary River Project
OWNER: Baffinland Iron Mine Corporation CONTRACTOR: _____
LOCATION: Snow Containment SHEET NUMBER: 2

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								
2 A	28-Jul-14	P12 P13 P14	35m WEOS-EEOS	T	G&W	MB		29-Jul-14	T-WELD	29-Jul-14	JB
2 B		/									
2 C											
2 D											
2 E											
2 F											
2 G											
2 H											
2 I											
2 J											
2 K											
2 L											
2 M											
2 N											
2 O											
2 P											
2 Q											
2 R											
2 S											
2 T											

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: _____

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

PASSING TRIAL SEAMS		
NO.	TIME	TECH ID.
	7:30	
TX-2	29-Jul-14	MB

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

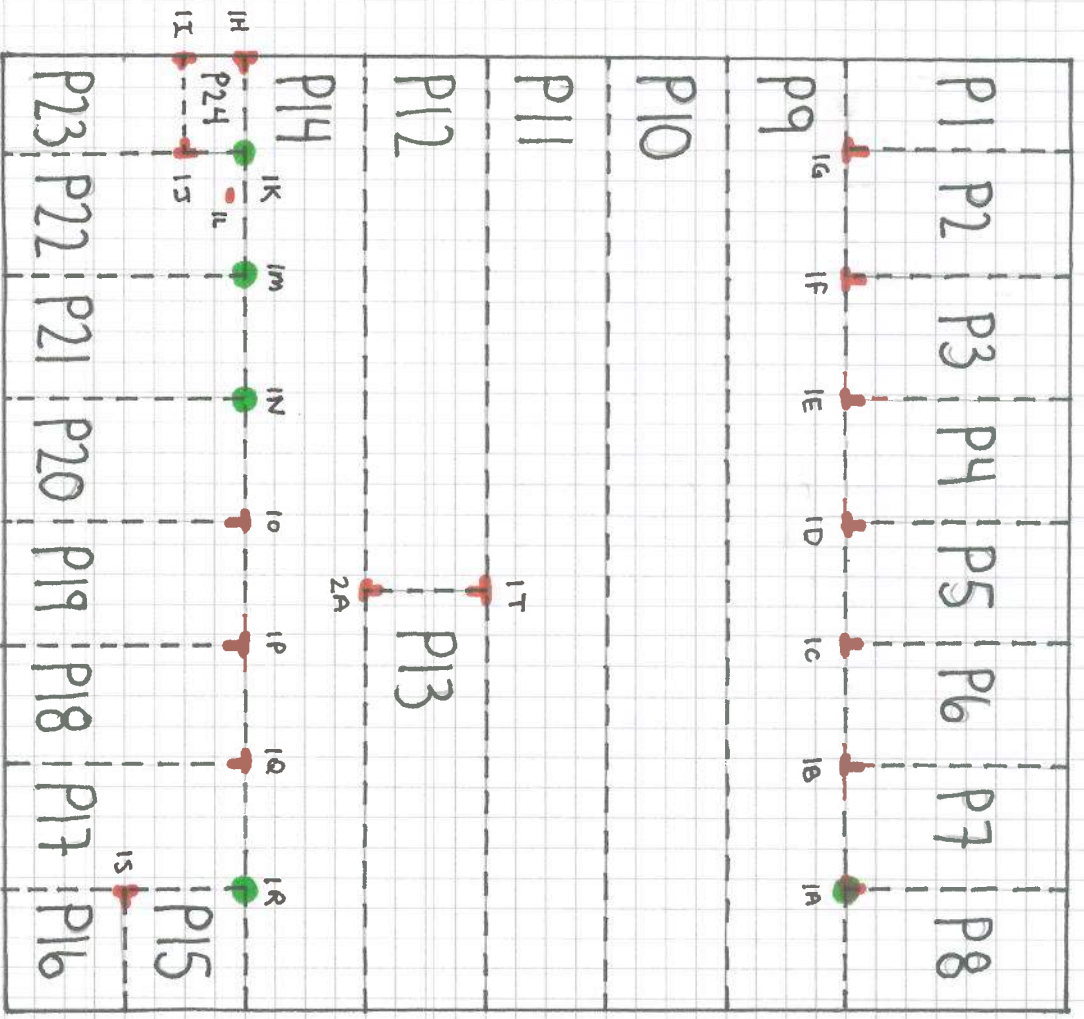
LPL FORM 7

LAYFIELD ENVIRONMENTAL SYSTEMS

SUBMITTED BY: TW

DATE: 30-Jul

Snow Containment



LEGEND

- EVIDENCE OF LINKS
- TIE OF S/S/CF
- LINE/FIELD SCALE
- EVIDENCE OF LINKS
- TIE OF S/S/CF
- LINE/FIELD SCALE
- EVIDENCE OF LINKS
- TIE OF S/S/CF
- LINE/FIELD SCALE



PROJECT NAME
Mary River Project

MATERIAL TYPE

DATE	OF	SCALE	APPRO
DATE	OF	SCALE	APPRO
DATE	OF	SCALE	APPRO



