

Attachment 2

Summary of 2018 Reportable Spills



TABLE 6.1
BAFFINLAND IRON MINES CORPORATION
MARY RIVER PROJECT
2018 QIA AND NWB ANNUAL REPORT FOR OPERATIONS
LIST OF REPORTED SPILLS AND UNAUTHORIZED DISCHARGES – 2018

Date	Quantity (m ³)	Material Spilled	Approximate Location (UTM; NAD 83)	Project Area	Specific Location	Proximity to Water Body	Spill Line ID	Occurred within a Engineered Lined Facility?
18-Jan-18	0.2	Sewage (Untreated)	17 W 561319 7913244	Mine Site	MSC STP	> 100 m	18-016	No
21-Jan-18	0.4	Grey Water	17 W 558106 7914488	Mine Site	Exploration Camp Lift Station	> 200 m	18-020	No
21-Jan-18	0.15	Sewage (Untreated)	17 W 503981 7975985	Milne Port	PSC Main Lift Station	> 100 m	18-022	No
7-Feb-18	0.225	Sewage (Untreated)	17 W 515949 8795593	Mine Site	MSC Lift Station	> 100 m	18-037	No
9-Feb-18	2	Sewage (Untreated)	17 W 503904 7975985	Milne Port	PSC Lift Station	> 100 m	18-040	No
14-Feb-18	10	Impacted Water	17 W 558030 7915074	Mine Site	Nuna Shop	> 160 m	18-045	No
22-Feb-18	0.2	Sewage (Untreated)	17 W 561334 7913430	Mine Site	MSC Lift Station	> 100 m	18-051	No
23-Feb-18	0.15	Sewage (Untreated)	17 W 561406 7913420	Mine Site	MSC Lift Station	> 100 m	18-050	No
25-Feb-18	0.2	Fuel - Diesel	17 W 503721 7976171	Milne Port	Bulk Fuel Storage Facility	> 100 m	18-052	Yes
27-Feb-18	0.2	Sewage (Untreated)	17 W 561405 7913370	Mine Site	MSC Lift Station	> 100 m	18-062	No
16-Mar-18	0.2	Sewage (Untreated)	17 W 515949 8795593	Mine Site	MSC Lift Station	> 100 m	18-089	No
18-Mar-18	0.3	Sewage (Untreated)	17 W 561334 7913430	Mine Site	MSC Lift Station	> 100 m	18-098	No
19-Mar-18	0.3	Sewage (Untreated)	17 W 503856 7976140	Milne Port	PSC Lift Station	> 100 m	18-100	No
9-Apr-18	1	Sewage (Untreated)	17 W 503856 7976140	Mine Site	MSC AF South Lift Station	> 100 m	18-118	No
23-Apr-18	0.25	Sewage (Untreated)	17 W 561405 7913370	Mine Site	MSC Lift Station	> 100 m	18-131	No
23-Apr-18	0.25	Sewage (Untreated)	17 W 561276 7913366	Mine Site	MSC Lift Station	> 100 m	18-140	No
26-Apr-18	0.3	Sewage (Untreated)	17 W 558045 7914517	Mine Site	Exploration Camp Lift Station	> 100 m	18-141	No
29-Apr-18	0.5	Fuel - Diesel	17 W 561334 7913430	Mine Site	MSC Day Tank	> 100 m	18-145	No
30-Apr-18	1.3	Sewage (Untreated)	17 W 560374 7914333	Mine Site	Saillivik Camp STP	> 100 m	18-148	No
4-May-18	0.25	Sewage (Untreated)	17 W 561345 7913368	Mine Site	MSC Lift Station	> 100 m	18-153	No
6-May-18	0.5	Sewage (Treated)	17 W 561345 7913368	Mine Site	Saillivik Camp STP	> 100 m	18-154	No
16-May-18	-	Sediment	17 W 557782 7914735	Mine Site	Camp Lake	0	18-180	No
17-May-18	-	Sediment	17 W 557599 7914843	Mine Site	Sheardown Lake & Camp Lake Tributaries	0	18-182	No
5-Jun-18	-	Sediment	17 W 547824 7919418	Tote Road	Water Crossing BG-27 (Km 86)	0	18-209	No
8-Jun-18	-	Sediment	17 W 564789 7914370	Mine Site	Mine Haul Road (Km 107 - 108)	0	18-214	No
15-Jun-18	1	Waste Oil	17 W 503913 7976295	Milne Port	MP-HWB-1	100 m	18-232	Yes
19-Jun-18	-	Non-Compliant Runoff	17 W 562879 7916667	Mine Site	Waste Rock Facility - West Ditch	> 3 km	18-244	No
22-Jul-18	0.03	Gear Oil	17 W 503194 7976665	Milne Port	Ore Dock - Milne Inlet	0	18-286	No
12-Aug-18	0.2	Fuel - Diesel	17 W 503720 7976170	Milne Port	Bulk Fuel Storage Facility	> 100 m	18-324	Yes
27-Aug-18	1.1	Fuel - Diesel	17 W 561333 7913430	Mine Site	Bulk Fuel Storage Facility	> 100 m	18-363	Yes
25-Oct-18	1	Sewage (Untreated)	17 W 503797 7976201	Milne Port	Mobile Maintenance Building	> 100 m	18-436	No
13-Nov-18	0.5	Sewage (Untreated)	17 W 561387 7913276	Mine Site	MSC Main Lift Station	> 100 m	18-451	No
20-Nov-18	0.5	Grey Water	17 W 561345 7913368	Mine Site	MSC Kitchen	> 100 m	18-459	No
25-Nov-18	0.5	Sewage (Untreated)	17 W 558146 7914457	Mine Site	Exploration Camp Sewage Holding Tank	> 100 m	18-463	No
14-Dec-18	0.1	Fuel - Diesel	17 W 516150 7963030	Tote Road	Km 21	90 m	18-479	No
18-Dec-18	0.6	Sewage (Untreated)	17 W 561403 7913432	Mine Site	MSC Lift Station	> 100 m	18-481	No

APPENDIX E.8.4
INITIAL AND FOLLOW-UP SPILL REPORTS
(PART 1 OF 4)



February 17, 2018

Resource Management Officer
Nunavut Field Operations
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Manager, Major Projects
Qikiqtani Inuit Association
P.O. Box 219
Iqaluit, NU X0A 0H0

Re: Follow-up to Spill #18-016
Mary River Project - Water Licence No. 2AM-MRY1325

Summary:

On January 18, 2018 at 06:30 hrs a vacuum truck operator was approaching the wastewater treatment plant (WWTP) at the Mine Site and observed liquid leaking from a vent line on the plant. It was determined that the equalization (EQ) storage tank was full and sewage had spilled over into the exhaust fan line. An investigation determined that a float level switch malfunctioned and did not action the pump which moves waste to the aeration tank from the EQ tank causing the backup and overflow out of the fan vent. Approximately 200L of sewage was released to the WWTP pad, impacting an area of approximately 15m². The location was >100m to the nearest water course which is currently frozen.

Immediate and Follow-Up Action:

On arrival the operator placed a hose on the vent line to prevent any further spillage and notified supervision and the WWTP operator. A vacuum truck was then used to pump down the level of waste in the EQ tank. Once the pumping system malfunction was determined by the WWTP operator, the operator replaced the float level switch and the system was brought back into normal operation.

Recommendations:

Continued routine inspections of system and pumping system.

Current Status:

The wastewater treatment plant is currently operational with the float switch and pump functioning as designed.

Should you require further information or clarification on the above noted spill, please feel free to contact William Bowden or Connor Devereaux at (647) 253- 0596 x6016.

Prepared by:

A handwritten signature in black ink, appearing to be "DR" or similar initials.

Dominic Ritgen
Environmental Coordinator

Reviewed by:

A handwritten signature in black ink, appearing to be "Connor Devereaux".

Connor Devereaux
Environmental Superintendent

Attach: Photos, Map, Baffinland NT-NU Spill Report

cc. Todd Burlingame, Sylvain Proulx, Tim Sewell, William Bowden, Gerald Rogers, Francois Gaudreau (Baffinland), Stephen Bathory (QIA), Erik Allain, Sarah Forte (INAC).



Photo 1. Overflow spill on ground surrounding WWTP.



Photo 2. Fan vent discharge location.



Photo 3. Surrounding WWTP pad after site clean up.

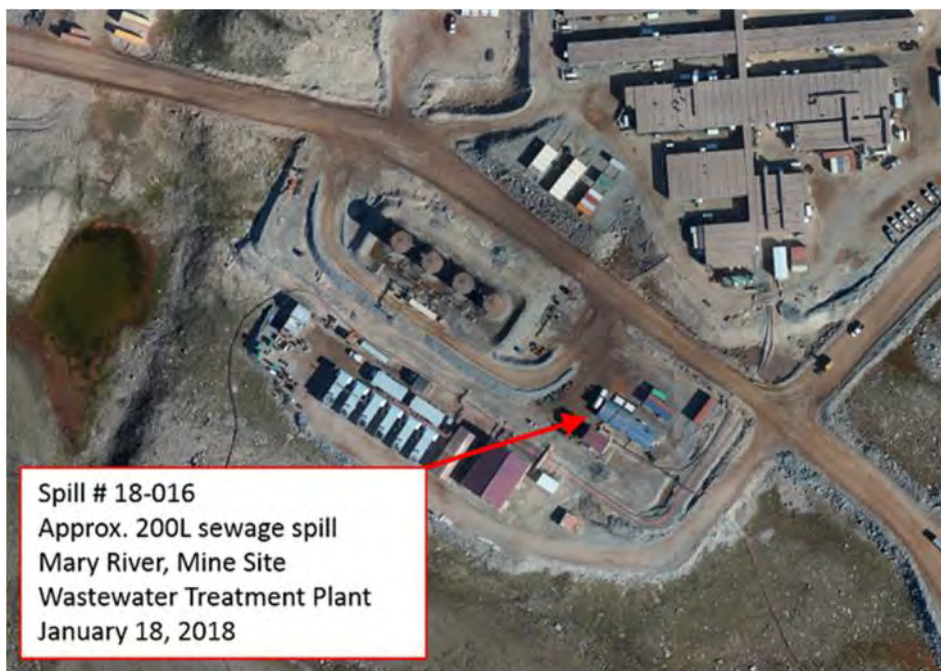


Figure 1. Map of spill location



Canada

NT-NU SPILL REPORT

OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS

NT-NU 24-HOUR SPILL REPORT LINE

TEL: (867) 920-6130

FAX: (867) 873-6924

EMAIL: spills@gov.nt.ca

REPORT LINE USE ONLY

A	REPORT DATE: MONTH - DAY - YEAR 01-18-2018	REPORT TIME 15:00	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # TO THE ORIGINAL SPILL REPORT	REPORT NUMBER ---
B	OCCURRENCE DATE: MONTH - DAY - YEAR 01-18-2018	OCCURRENCE TIME 7:00		
C	LAND USE PERMIT NUMBER (IF APPLICABLE) IOL - Commercial Lease: Q13C301	WATER LICENCE NUMBER (IF APPLICABLE) 2AM-MRY1325 Type "A"		
D	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION Mary River Milne Inlet Site, Baffin Island, NU	REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN		
E	LATITUDE DEGREES 71 MINUTES 18 SECONDS 49	LONGITUDE DEGREES 79 MINUTES 17 SECONDS 06		
F	RESPONSIBLE PARTY OR VESSEL NAME Baffinland Iron Mines Corp.	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION 2275 Middle Road East, Suite 300, Oakville, ON L6H 0C3		
G	ANY CONTRACTOR INVOLVED NUNA	CONTRACTOR ADDRESS OR OFFICE LOCATION N/A		
H	PRODUCT SPILLED Raw Sewage	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES Apx. 200L	U.N. NUMBER N/A	
	SECOND PRODUCT SPILLED (IF APPLICABLE) N/A	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES N/A	U.N. NUMBER N/A	
I	SPILL SOURCE Wastewater treatment plant	SPILL CAUSE EQ tank overflow	AREA OF CONTAMINATION IN SQUARE METRES 15m2	
J	FACTORS AFFECTING SPILL OR RECOVERY Frozen, cold conditions	DESCRIBE ANY ASSISTANCE REQUIRED N/A	HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT N/A	
K	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS On January 18, 2018 at 6:30 Hrs a truck operator was approaching the wastewater treatment plant (WWTP) at the Mine Site and observed liquid leaking from a vent line on the plant. The operator placed a hose on the vent line to prevent any further spillage and notified Supervision and the WWTP operator. It was determined that the EQ storage tank was full and sewage had spilled over into the exhaust fan line. Pump failure could have contributed to the overflow. Approximately 200L of sewage was released to the WWTP pad, impacting an area of approximately 15m2. The location is >100m to the nearest water course which is currently frozen. An investigation is underway to determine the cause and details of the cleanup will be provided in the follow-up report. This spill is being reported as required by the conditions of NWB Water License no. 2AM-MRY1325, Part H, item 9 (b) pursuant to subsection 12(3) of the Nunavut Waters and Nunavut Surface Rights Tribunal Act.			
L	REPORTED TO SPILL LINE BY William Bowden	POSITION Env. Superintendent	EMPLOYER Baffinland	LOCATION CALLING FROM Mary River
M	ANY ALTERNATE CONTACT Tim Sewell	POSITION Head of HSE	EMPLOYER Baffinland	ALTERNATE CONTACT 6016
REPORT LINE USE ONLY				
N	RECEIVED AT SPILL LINE BY STATION OPERATOR	POSITION STATION OPERATOR	EMPLOYER YELLOWKNIFE, NT	REPORT LINE NUMBER (867) 920-8130
LEAD AGENCY <input type="checkbox"/> EC <input type="checkbox"/> COG <input type="checkbox"/> GNWT <input type="checkbox"/> GN <input type="checkbox"/> ILA <input type="checkbox"/> INAC <input type="checkbox"/> NEB <input type="checkbox"/> TC		SIGNIFICANCE <input type="checkbox"/> MINOR <input type="checkbox"/> MAJOR <input type="checkbox"/> UNKNOWN		FILE STATUS <input type="checkbox"/> OPEN <input type="checkbox"/> CLOSED
AGENCY	CONTACT NAME	CONTACT TIME	REMARKS	
LEAD AGENCY				
FIRST SUPPORT AGENCY				
SECOND SUPPORT AGENCY				
THIRD SUPPORT AGENCY				

PAGE 1 OF _____

Figure 2. Baffinland NT NU spill report



February 20, 2018

Resource Management Officer
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Manager, Major Projects
Qikiqtani Inuit Association
P.O. Box 219
Iqaluit, NU X0A 0H0

Re: Follow-up to Spill #18-020, Reported on January 21, 2018
Mary River Project - Water Licence No. 2AM-MRY1325

Summary:

At 03:30 hrs on January 21st, 2018, kitchen staff noticed the high level fault light was on at the Weatherhaven grey water lift station. Upon initial investigation, it was determined that a coupling had failed causing the discharge pipe to separate inside the lift station building. Approximately 400L of grey water was released into the lift station building, migrating out under the base, impacting an area of 10 m². The location of the spill was confined to the Weatherhaven Complex Pad. The spill is >200m from Camp Lake, which is ice covered.

Immediate and Follow-Up Action:

All influent sources to the lift station were immediately shut off. Grey water released inside the building and surrounding camp pad was sucked up using a vac truck and taken to the Polishing Waste Stabilization Pond. The pipe and fittings were replaced before the lift station was put back into service.

Recommendations:

Continued inspections of the piping and lift stations to be completed to ensure all components are functioning as designed. Provide additional support under connection points on horizontal lines to reduce stress at the coupling.

Current Status:

The Weatherhaven lift station is currently operational and routine inspections are ongoing.

Should you require further information or clarification on the above noted spill, please feel free to contact William Bowden or Connor Devereaux at (647) 253-0596 x6016.

Prepared By:

A handwritten signature in black ink, appearing to read "Ben Widdowson".

Ben Widdowson
Environmental Coordinator

Reviewed by:

A handwritten signature in black ink, appearing to read "Connor Devereaux".

Connor Devereaux
Environmental Superintendent

Attach: Photos, Map, NT-NU Spill Report

cc. Todd Burlingame, Sylvain Proulx, Gerald Rogers, Francois Gaudreau, Tim Sewell, William Bowden (Baffinland), Stephen Bathory (QIA), Erik Allain, Sarah Forte (INAC)



Photo 1. Overflow spill on ground outside Weatherhaven lift station



Photo 2. Spill clean up inside Weatherhaven lift station



Photo 3. Spill Clean up outside Weatherhaven lift station

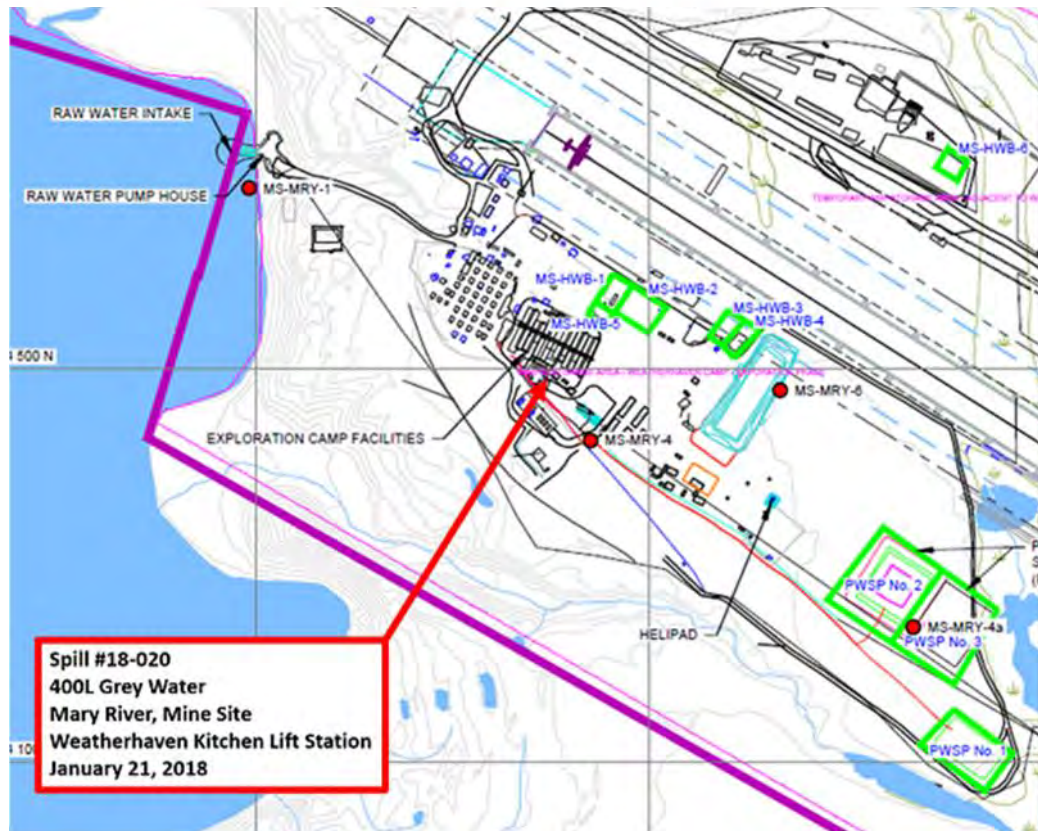
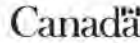


Figure 1 – Map of spill location



NT-NU SPILL REPORT

OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS

NT-NU 24-HOUR SPILL REPORT LINE

TEL: (867) 920-8130

FAX: (867) 873-6924

EMAIL: spills@gov.nt.ca

REPORT LINE USE ONLY

A	REPORT DATE: MONTH - DAY - YEAR 01-21-2018	REPORT TIME 21:00	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # TO THE ORIGINAL SPILL REPORT	REPORT NUMBER 18 020
B	OCCURRENCE DATE: MONTH - DAY - YEAR 01-21-2018		OCCURRENCE TIME 3:30	
C	LAND USE PERMIT NUMBER (IF APPLICABLE) IOL - Commercial Lease: Q13C301		WATER LICENCE NUMBER (IF APPLICABLE) 2AM-MRY1325 Type "A"	
D	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION Mary River Mine Site, Baffin Island, NU		REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN	
E	LATITUDE DEGREES 71 MINUTES 19 SECONDS 32		LONGITUDE DEGREES 79 MINUTES 22 SECONDS 26	
F	RESPONSIBLE PARTY OR VESSEL NAME Baffinland Iron Mines Corp.		RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION 2275 Middle Road East, Suite 300, Oakville, ON L6H 0C3	
G	ANY CONTRACTOR INVOLVED N/A		CONTRACTOR ADDRESS OR OFFICE LOCATION N/A	
H	PRODUCT SPILLED Grey water		QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES Approx. 400 L	U.N. NUMBER N/A
	SECOND PRODUCT SPILLED (IF APPLICABLE) N/A		QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES N/A	U.N. NUMBER N/A
I	SPILL SOURCE Lift station discharge line		SPILL CAUSE Pipe fitting failure	AREA OF CONTAMINATION IN SQUARE METRES 10m2
J	FACTORS AFFECTING SPILL OR RECOVERY Congested area, snow and ice		DESCRIBE ANY ASSISTANCE REQUIRED N/A	HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT N/A
K	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS At 03:30 Hrs on January 21st, kitchen staff noticed the high level fault light was on at the Weatherhaven grey water lift station. Housing maintainers responded to the scene and sources to the lift station were immediately shut off. It was discovered that the discharge line had separated at a coupling. Grey water released inside the building and surrounding camp pad was sucked up using a vac truck. The pipe and fittings were replaced before the lift station was put back into service. Upon initial investigation, it was determined that the coupling had failed causing the discharge pipe to separate. Approximately 400 L of grey water was released into the lift station building, migrating out under the base, impacting an area of approx. 10 m2. The investigation and cleanup are ongoing, further details will be provided in the follow-up report. This spill is being reported as required by the conditions of water license no. 2AM-MRY1325, Part H, item 9 (b) pursuant to subsection 12(3) of the Nunavut Waters and Nunavut Surface Rights Tribunal Act.			
L	REPORTED TO SPILL LINE BY Connor Devereaux	POSITION Env. Superintendent	EMPLOYER Baffinland	LOCATION CALLING FROM Mary River
M	ANY ALTERNATE CONTACT Tim Sewell	POSITION Head of HSE	EMPLOYER Baffinland	ALTERNATE CONTACT ext. 6016
REPORT LINE USE ONLY				
N	RECEIVED AT SPILL LINE BY STATION OPERATOR	POSITION STATION OPERATOR	EMPLOYER YELLOWKNIFE, NT	REPORT LINE NUMBER (867) 920-8130
LEAD AGENCY <input type="checkbox"/> EC <input type="checkbox"/> CCG <input type="checkbox"/> GNWT <input type="checkbox"/> GN <input type="checkbox"/> ILA <input type="checkbox"/> INAC <input type="checkbox"/> NEB <input type="checkbox"/> TC			SIGNIFICANCE <input type="checkbox"/> MINOR <input type="checkbox"/> MAJOR <input type="checkbox"/> UNKNOWN	
FILE STATUS <input type="checkbox"/> OPEN <input type="checkbox"/> CLOSED				
AGENCY	CONTACT NAME	CONTACT TIME	REMARKS	
LEAD AGENCY				
FIRST SUPPORT AGENCY				
SECOND SUPPORT AGENCY				
THIRD SUPPORT AGENCY				

Figure 2 – NT-NU Spill report



February 20, 2018

Resource Management Officer
Nunavut Field Operations
Indigenous and Northern Affairs Canada
Box 100
Iqaluit, NU X0A 0H0
Jonathan.mesher@aadnc-aadnc.gc.ca

Manager, Major Projects
Qikiqtani Inuit Association
P.O. Box 219
Iqaluit, NU X0A 0H0

Re: Follow-up to Spill #18-022, Reported on January 22, 2018
Mary River Project - Water Licence No. 2AM-MRY1325

Summary:

On January 21, 2018 at 12:30 hrs, Site Services Fixed Plant workers noticed raw sewage coming out of the bottom of the main lift station door at the Port Site Complex. Upon initial investigation, it was determined the floatation switch to turn on the pump had failed to trigger, causing the main tank to overflow. Approximately 150L of sewage was released to the adjacent camp pad ground surface, impacting approximately 5 m² area. This location is greater than >100 m to the nearest water course which is currently frozen.

Immediate and Follow-Up Action:

The pumps were immediately put into manual mode to pump down the level in the lift station. The contaminated snow was collected and deposited in the Polishing Waste Stabilization Pond. The floatation switch was cleaned and tested before the lift station was put back into service.

Recommendations:

Continued daily lift station inspections of the system. Lift Station floats are to be checked weekly to ensure no build up of sewage on the float. System will be pump tested to confirm the system is functioning properly.

Current Status:

The lift station is currently back in operation and inspected regularly.

Should you require further information or clarification on the above noted spill, please feel free to contact William Bowden or Connor Devereaux at (647) 253-0596 x6016

Prepared By:

A handwritten signature in black ink, appearing to read "Ben Widdowson".

Ben Widdowson
Environmental Coordinator

Reviewed by:

A handwritten signature in black ink, appearing to read "Connor Devereaux".

Connor Devereaux
Environmental Superintendent

Attach: Photos, Map, NT-NU Spill Report

cc. Todd Burlingame, Sylvain Proulx, Gerald Rogers, Francois Gaudreau, Tim Sewell, William Bowden
(Baffinland), Stephen Bathory (QIA), Erik Allain, Sarah Forte (INAC)



Photo 1. Overflow spill on ground outside PSC lift station



Photo 2. Spill clean up outside PSC lift station



Figure 1 – Map of spill location



Canada

NT-NU SPILL REPORT

OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS

NT-NU 24-HOUR SPILL REPORT LINE

TEL: (867) 920-8130

FAX: (867) 873-6924

EMAIL: spills@gov.nt.ca

REPORT LINE USE ONLY

A	REPORT DATE: MONTH - DAY - YEAR 01-22-2018	REPORT TIME 11:30	<input type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # TO THE ORIGINAL SPILL REPORT	REPORT NUMBER 18
B	OCCURRENCE DATE: MONTH - DAY - YEAR 01-21-2018	OCCURRENCE TIME 12:30		
C	LAND USE PERMIT NUMBER (IF APPLICABLE) IOL - Commercial Lease: Q13C301	WATER LICENSE NUMBER (IF APPLICABLE) 2AM-MRY1325 Type "A"		
D	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION Mary River Mine Site, Baffin Island, NU		REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN	
E	LATITUDE DEGREES 71 MINUTES 88 SECONDS 38		LONGITUDE DEGREES 80 MINUTES 88 SECONDS 62	
F	RESPONSIBLE PARTY OR VESSEL NAME Baffinland Iron Mines Corp.	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION 2275 Middle Road East, Suite 300, Oakville, ON L6H 0C3		
G	ANY CONTRACTOR INVOLVED N/A	CONTRACTOR ADDRESS OR OFFICE LOCATION N/A		
H	PRODUCT SPILLED Raw Sewage	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES Approx. 150 L	U.N. NUMBER N/A	
	SECOND PRODUCT SPILLED (IF APPLICABLE) N/A	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES N/A	U.N. NUMBER N/A	
I	SPILL SOURCE PSC Main Lift Station	SPILL CAUSE Flotation switch failure	AREA OF CONTAMINATION IN SQUARE METRES 5 m2	
J	FACTORS AFFECTING SPILL OR RECOVERY Congested area, snow and ice	DESCRIBE ANY ASSISTANCE REQUIRED N/A	HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT N/A	
K	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS On January 21, 2018 at 1230 HRS, Site Services Fixed Plant workers noticed raw sewage coming out of the bottom of the main lift station door at the Port Site Complex. Upon initial investigation, it was determined the flotation switch to turn on the pump had failed to trigger, causing the main tank to overflow. The pumps were immediately put into manual mode to pump down the level in the lift station. Approximately 150 L of sewage was released to the adjacent camp pad ground surface, impacting approximately 5 m2 area. This location is greater than >100 m to the nearest water course (which is currently frozen). The investigation of the incident is being completed and the results will be provided in the follow-up report. This spill is being reported as required by the conditions of NWB Water License no. 2AM-MRY1325, Part H, item 9 (b) pursuant to subsection 12(3) of the Nunavut Waters and Nunavut Surface Rights Tribunal Act.			
L	REPORTED TO SPILL LINE BY Connor Devereaux	POSITION Env. Superintendent	EMPLOYER Baffinland	LOCATION CALLING FROM Mary River
M	ANY ALTERNATE CONTACT Tim Sewell	POSITION Head of HSE	EMPLOYER Baffinland	ALTERNATE CONTACT 6016
REPORT LINE USE ONLY				
N	RECEIVED AT SPILL LINE BY STATION OPERATOR	POSITION STATION OPERATOR	EMPLOYER YELLOWKNIFE, NT	REPORT LINE NUMBER (867) 920-8130
LEAD AGENCY <input type="checkbox"/> EC <input type="checkbox"/> CCG <input type="checkbox"/> GNWT <input type="checkbox"/> GN <input type="checkbox"/> IIA <input type="checkbox"/> INAC <input type="checkbox"/> NEB <input type="checkbox"/> TC		SIGNIFICANCE <input type="checkbox"/> MINOR <input type="checkbox"/> MAJOR <input type="checkbox"/> UNKNOWN		FILE STATUS <input type="checkbox"/> OPEN <input type="checkbox"/> CLOSED
AGENCY	CONTACT NAME	CONTACT TIME	REMARKS	
LEAD AGENCY				
FIRST SUPPORT AGENCY				
SECOND SUPPORT AGENCY				
THIRD SUPPORT AGENCY				

PAGE 1 OF 1

Figure 2 – NT-NU Spill report

2275 Upper Middle Road East, Suite 300 | Oakville, ON, Canada L6H 0C3
Main: 416.364.8820 | Fax: 416.364.0193 | www.baffinland.com



March 07, 2018

Resource Management Officer
Nunavut Field Operations
Indigenous and Northern Affairs Canada
Box 100
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Jonathan.mesher@aandc-aadnc.gc.ca

Manager, Major Projects
Qikiqtani Inuit Association
P.O. Box 219
Iqaluit, NU X0A 0H0

Re: Follow-up to Spill #18-037, Reported on February 7, 2018 Mary River Project - Water Licence No. 2AM-MRY1325

Summary:

On February 7, 2018 at 09:00 hrs, while conducting inspections of the MSC lift stations, a housing maintainer observed water adjacent to the South AA lift station. Upon initial investigation, it was determined that the lift station pumps had failed to activate, due to the tank floats inside becoming entangled causing the tank to overflow. Approximately 225L of sewage was released to the adjacent ground surface, impacting an area of 14 m² contained to the camp pad. The spill location is greater than 100 m to the nearest water body which is currently frozen and non-fish bearing.

Immediate and Follow-Up Action:

The lift station was manually pumped down to prevent further overflow. The contaminated snow was collected and deposited in an engineered lined containment facility. The inner floats were evaluated and restored to working order before the lift station was put back into service.

Recommendations:

Continued daily lift station inspections of the system. Lift Station floats are to be checked during each inspection to ensure they are not entangled.

Current Status:

The lift station is currently back in operation and inspected regularly.

Should you require further information or clarification on the above noted spill, please feel free to contact William Bowden or Connor Devereaux at (647) 253-0596 x6016

Prepared By:

A handwritten signature in black ink, appearing to read "B. Lukeman".

Bryan Lukeman
Environmental Coordinator

Reviewed by:

A handwritten signature in black ink, appearing to read "Bill Bowden".

William Bowden
Environmental Superintendent

Attach: Photos, Map, NT-NU Spill Report

cc. Todd Burlingame, Sylvain Proulx, Gerald Rogers, Francois Gaudreau, Tim Sewell, Connor Devereaux (Baffinland), Stephen Bathory (QIA), Erik Allain, Ian Parsons (INAC)



Photo 1. Overflow spill on ground outside MSC AA South lift station



Photo 2. Spill cleaned up outside MSC AA South lift station

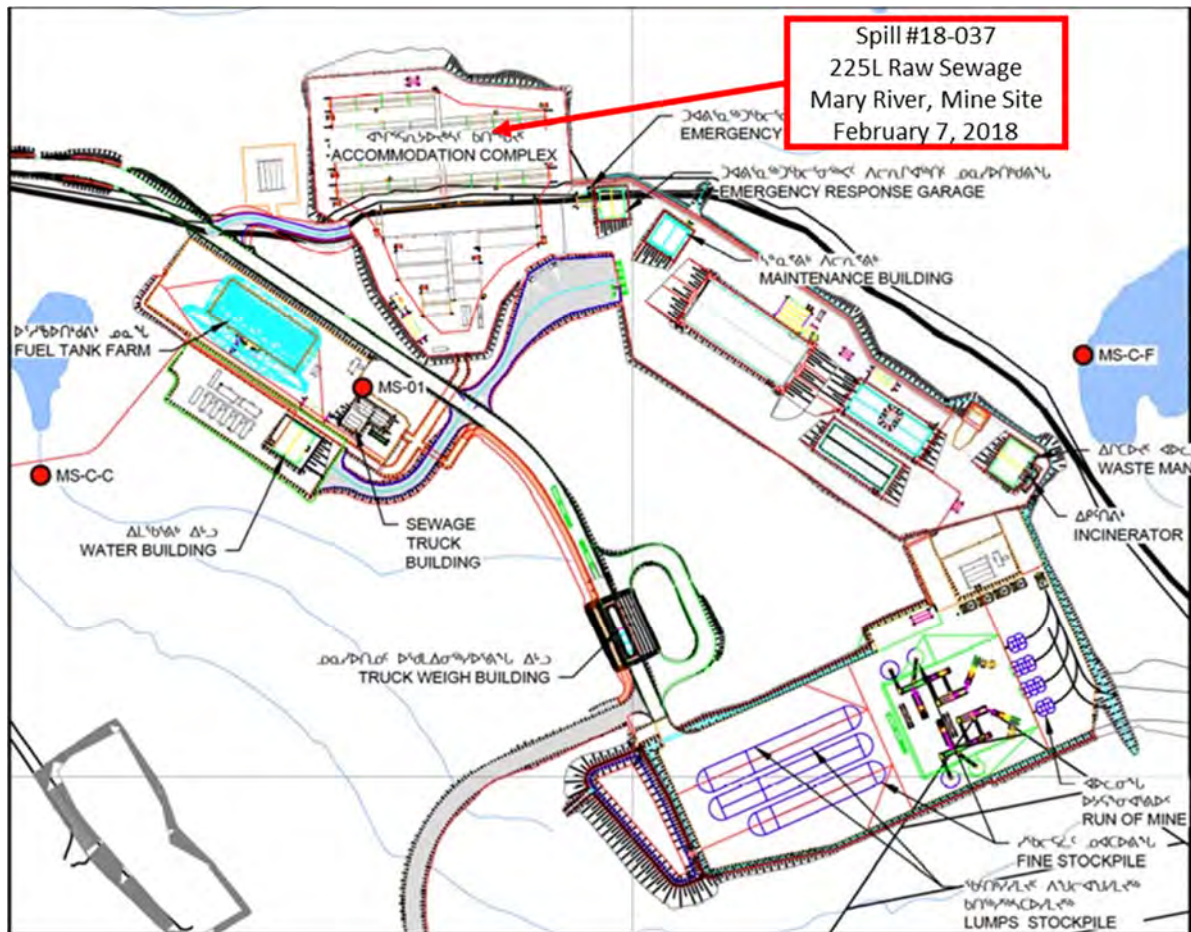


Figure 1 – Map of spill location



NT-NU SPILL REPORT

OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS

NT-NU 24-HOUR SPILL REPORT LINE
TEL: (867) 920-8130
FAX: (867) 873-6924
EMAIL: spills@gov.nt.ca

REPORT LINE USE ONLY

A	REPORT DATE: MONTH - DAY - YEAR 02-07-2018	REPORT TIME 0900	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT	REPORT NUMBER 18
B	OCCURRENCE DATE: MONTH - DAY - YEAR 02-07-2018	OCCURRENCE TIME Unknown		
C	LAND USE PERMIT NUMBER (IF APPLICABLE) IOL - Commercial Lease: Q13C301	WATER LICENSE NUMBER (IF APPLICABLE) 2AM-MRY1325 Type "A"		
D	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION Mary River Mine Site, Baffin Island, NU		REGION: <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN	
E	LATITUDE DEGREES 79 MINUTES 13 SECONDS 43		LONGITUDE DEGREES 56 MINUTES 14 SECONDS 08	
F	RESPONSIBLE PARTY OR VESSEL NAME Baffinland Iron Mines Corp.	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION 2275 Middle Road East, Suite 300, Oakville, ON L6H 0C3		
G	ANY CONTRACTOR INVOLVED N/A	CONTRACTOR ADDRESS OR OFFICE LOCATION N/A		
H	PRODUCT SPILLED Raw Sewage	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES Approx. 225 L	U.N. NUMBER N/A	
	SECOND PRODUCT SPILLED (IF APPLICABLE) N/A	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES N/A	U.N. NUMBER N/A	
I	SPILL SOURCE Lift Station	SPILL CAUSE Float Failure	AREA OF CONTAMINATION IN SQUARE METRES Approx. 14.0 m2	
J	FACTORS AFFECTING SPILL OR RECOVERY	DESCRIBE ANY ASSISTANCE REQUIRED N/A	HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT N/A	
K	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS At 09:00 Hrs on February 7, 2018, while performing inspections of the MSC lift Stations, a housing maintainer observed water adjacent to the South AA lift Station. Upon initial investigation, it was determined that the lift station pumps had failed to activate due to the tank floats becoming in-tangled inside. The lift station was manually pumped down to prevent further overflow and supervision notified. The floats were untangled and the lift station pumps returned to their normal functions. Approximately 225 Litres impacted the adjacent MSC pad to the lift station migrating over an area of approx. 14.0 m2. The spill is >100 m from the nearest water body which is currently frozen. The investigation and cleanup are ongoing, further details will be provided in the follow-up report. This spill is being reported as required by the conditions of water license no. 2AM-MRY1325, Part H, item 9 (b) pursuant to subsection 12(3) of the Nunavut Waters and Nunavut Surface Rights Tribunal Act.			
L	REPORTED TO SPILL LINE BY William Bowden	POSITION Env. Superintendent	EMPLOYER Baffinland	LOCATION CALLING FROM Mary River
M	ANY ALTERNATE CONTACT Tim Sewell	POSITION Head of HSE	EMPLOYER Baffinland	ALTERNATE CONTACT ext. 6016
REPORT LINE USE ONLY				
N	RECEIVED AT SPILL LINE BY	POSITION STATION OPERATOR	EMPLOYER	LOCATION CALLED YELLOWKNIFE, NT
LEAD AGENCY <input type="checkbox"/> EC <input type="checkbox"/> CCG <input type="checkbox"/> GNWT <input type="checkbox"/> GN <input type="checkbox"/> ILA <input type="checkbox"/> INAC <input type="checkbox"/> NER <input type="checkbox"/> TC			SIGNIFICANCE <input type="checkbox"/> MINOR <input type="checkbox"/> MAJOR <input type="checkbox"/> UNKNOWN	
AGENCY			FILE STATUS <input type="checkbox"/> OPEN <input type="checkbox"/> CLOSED	
CONTACT NAME		CONTACT TIME	REMARKS	
LEAD AGENCY				
FIRST SUPPORT AGENCY				
SECOND SUPPORT AGENCY				
THIRD SUPPORT AGENCY				

PAGE 1 OF 1

Figure 2 – NT-NU Spill report

2275 Upper Middle Road East, Suite 300 | Oakville, ON, Canada L6H 0C3
Main: 416.364.8820 | Fax: 416.364.0193 | www.baffinland.com



March 11, 2018

Resource Management Officer
Nunavut Field Operations
Indigenous and Northern Affairs Canada
Box 100
Iqaluit, NU X0A 0H0
Jonathan.mesher@aadnc-aadnc.gc.ca

Manager, Major Projects
Qikiqtani Inuit Association
P.O. Box 219
Iqaluit, NU X0A 0H0

Re: Follow-up to Spill #18-040, Reported on February 9, 2018 Mary River Project - Water Licence No. 2AM-MRY1325

Summary:

On February 9, 2018 at 11:30 hrs, while conducting inspections of the PSC lift stations, a housing maintainer observed frozen water outside the BB wing north lift station. Upon initial investigation, it was determined that there was a blockage in the discharge line to the main lift station, resulting in the lift station to overflow. Approximately 2m³ of sewage was released to the adjacent camp pad ground surface, impacting an approximate area of 24 m². This spill location is greater than 100 m to the nearest water course which is currently frozen.

Immediate and Follow-Up Action:

The lift station was immediately emptied by vacuum truck to prevent further overflow. The contaminated snow was collected and deposited in an engineered lined containment facility to the extent possible. The discharge line was thawed, removing the blockage before the lift station was put back into service.

Recommendations:

Relocate existing warning light to outside the lift station to reduce response time to address possible upset conditions. Additional insulation will be installed at the elbow joint of the discharge line which has proven to be prone to freezing. Continued daily lift station inspections of the system.

Current Status:

The lift station is currently back in operation and inspected regularly.

Should you require further information or clarification on the above noted spill, please feel free to contact William Bowden or Connor Devereaux at (647) 253-0596 x6016

Prepared By:

A handwritten signature in black ink, appearing to read "Benjamin Widdowson".

Ben Widdowson
Environmental Coordinator

Reviewed by:

A handwritten signature in black ink, appearing to read "Bill Bowden".

William Bowden
Environmental Superintendent

Attach: Photos, Map, NT-NU Spill Report

cc. Todd Burlingame, Sylvain Proulx, Gerald Rogers, Francois Gaudreau, Tim Sewell, Connor Devereaux (Baffinland), Stephen Bathory (QIA), Erik Allain, Ian Parsons (INAC)



**Photo 1. Overflow spill on ground outside PSC
BB North lift station**



Photo 2. Spill clean up outside PSC BB North lift station



Figure 1 – Map of spill location



NT-NU SPILL REPORT

OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS

NT-NU 24-HOUR SPILL REPORT LINE

TEL: (867) 920-8130

FAX: (867) 873-6924

EMAIL: spills@gov.nt.ca

REPORT LINE USE ONLY

A	REPORT DATE: MONTH - DAY - YEAR 02-10-18		REPORT TIME 11:30		<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT	REPORT NUMBER 18
	OCCURRENCE DATE: MONTH - DAY - YEAR 02-09-18		OCCURRENCE TIME Unknown			
C	LAND USE PERMIT NUMBER (IF APPLICABLE) IOL - Commercial Lease: Q13C301			WATER LICENCE NUMBER (IF APPLICABLE) 2AM-MRY1325 Type "A"		
D	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION Mary River Mine Site, Baffin Island, NU					REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN
E	LATITUDE DEGREES 71 MINUTES 53 SECONDS 02		LONGITUDE DEGREES 80 MINUTES 53 SECONDS 15			
F	RESPONSIBLE PARTY OR VESSEL NAME Baffinland Iron Mines Corp.		RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION 2275 Middle Road East, Suite 300, Oakville, ON L6H 0C3			
G	ANY CONTRACTOR INVOLVED N/A		CONTRACTOR ADDRESS OR OFFICE LOCATION N/A			
H	PRODUCT SPILLED Raw Sewage		QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES Approx. 2000L		U.N. NUMBER N/A	
	SECOND PRODUCT SPILLED (IF APPLICABLE) N/A		QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES N/A		U.N. NUMBER N/A	
I	SPILL SOURCE Lift Station		SPILL CAUSE Discharge line blockage		AREA OF CONTAMINATION IN SQUARE METRES 24 m2	
J	FACTORS AFFECTING SPILL OR RECOVERY Congested area, snow and ice		DESCRIBE ANY ASSISTANCE REQUIRED N/A		HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT N/A	
K	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS On February 9, 2018 at 11:30 hrs, while conducting inspections of the PSC lift stations, a housing maintainer observed frozen water outside the BB wing north lift station. Upon initial investigation, it was determined that there was a blockage in the discharge line to the main lift station, resulting in the lift station overflowing. The lift station was immediately emptied by vacuum truck to prevent further overflow. Approximately 2000 L of sewage was released to the adjacent camp pad ground surface, impacting an approximate area of 24 m2. This spill is >100 m to the nearest water course (which is currently frozen). The repairs and investigation are ongoing and further details will be provided in the follow-up report. This spill is being reported as required by the conditions of NWB Water License no. 2AM-MRY1325, Part H, item 9 (b) pursuant to subsection 12(3) of the Nunavut Waters and Nunavut Surface Rights Tribunal Act.					
L	REPORTED TO SPILL LINE BY William Bowden	POSITION Env. Superintendent	EMPLOYER Baffinland	LOCATION CALLING FROM Mary River	TELEPHONE 416 364 8820	
M	ANY ALTERNATE CONTACT Tim Sewell	POSITION Head of HSE	EMPLOYER Baffinland	ALTERNATE CONTACT LOCATION	ALTERNATE TELEPHONE 6016	
REPORT LINE USE ONLY						
N	RECEIVED AT SPILL LINE BY	POSITION STATION OPERATOR	EMPLOYER	LOCATION CALLED YELLOWKNIFE, NT	REPORT LINE NUMBER (867) 920-8130	
LEAD AGENCY <input type="checkbox"/> EC <input type="checkbox"/> CCG <input type="checkbox"/> GNWT <input type="checkbox"/> GN <input type="checkbox"/> ILA <input type="checkbox"/> INAC <input type="checkbox"/> NEB <input type="checkbox"/> TC			SIGNIFICANCE <input type="checkbox"/> MINOR <input type="checkbox"/> MAJOR <input type="checkbox"/> UNKNOWN		FILE STATUS <input type="checkbox"/> OPEN <input type="checkbox"/> CLOSED	
AGENCY		CONTACT NAME	CONTACT TIME	REMARKS		
LEAD AGENCY						
FIRST SUPPORT AGENCY						
SECOND SUPPORT AGENCY						
THIRD SUPPORT AGENCY						

PAGE 1 OF _____

Figure 2 – NT-NU Spill report

2275 Upper Middle Road East, Suite 300 | Oakville, ON, Canada L6H 0C3
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March 14, 2018

Resource Management Officer
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Jonathan.mesher@aandc-aadnc.gc.ca

Manager, Major Projects
Qikiqtani Inuit Association
P.O. Box 219
Iqaluit, NU X0A 0H0

Re: Follow-up to Spill #18-045, Reported on February 14, 2018
Mary River Project - Water Licence No. 2AM-MRY1325

Summary:

On February 14, 2018 at approximately 06:30, a fire was reported beside the Nuna shop in proximity to the Mine Site Weatherhaven complex. It was discovered that two light vehicles, one pick up, one cube van, had caught fire. The ignition source is unknown. The Mine Rescue Team was dispatched to extinguish the fire, which took approximately one hour. As a result, there was a significant amount of fire impacted water that was produced, which immediately froze to the adjacent pad where the pick ups were parked due to extreme cold conditions. Approximately 10m³ of fire impacted water was produced, confined to the pad. Constructed berms and extreme temperatures mitigated the migration of the water. This spill is >160m to the nearest water course (which is currently frozen).

Immediate and Follow-Up Action:

After the fire was extinguished, the scene was cordoned off and HSE investigated. The ignition source is still unknown. The scene was released and both pick up trucks were moved to the MRT training ground at KM 98 Laydown. Debris from the trucks and fire and impacted fire ice/snow was scrapped up using an excavator and moved to the landfarm at the Port for storage. Debris still remains to be separated from the contaminated snow which will be processed at Port engineered lined contaminated snow containment facility upon the summer Oily Water Processing Program

Recommendations:

Environment department continues to work with the Mine Rescue Team to ensure fire impacted water is contained and disposed of properly during and after a fire at all Project sites.

Current Status:

Impacted Fire ice/snow remains in the landfarm at Milne Port. MRT will use the trucks for training purposes.

Should you require further information or clarification on the above noted spill, please feel free to contact William Bowden or Connor Devereaux at (647) 253-0596 x6016

Prepared by:

A handwritten signature in black ink, appearing to read "Benjamin Widdowson".

Ben Widdowson
Environmental Coordinator

Reviewed by:

A handwritten signature in black ink, appearing to read "Bill Bowden".

William Bowden
Environmental Superintendent

Attach: Photos, Map, NT-NU Spill Report

cc. Todd Burlingame, Sylvain Proulx, Gerald Rogers, Francois Gaudreau, Tim Sewell, Connor Devereaux (Baffinland), Stephen Bathory (QIA), Erik Allain, Ian Parsons (INAC)



Photo 1 – Trucks Being Extinguished by MRT Personnel



Photo 2 – Impacted ice/snow being scrapped up by excavator



Photo 3 – Impacted ice/snow being scrapped up by excavator

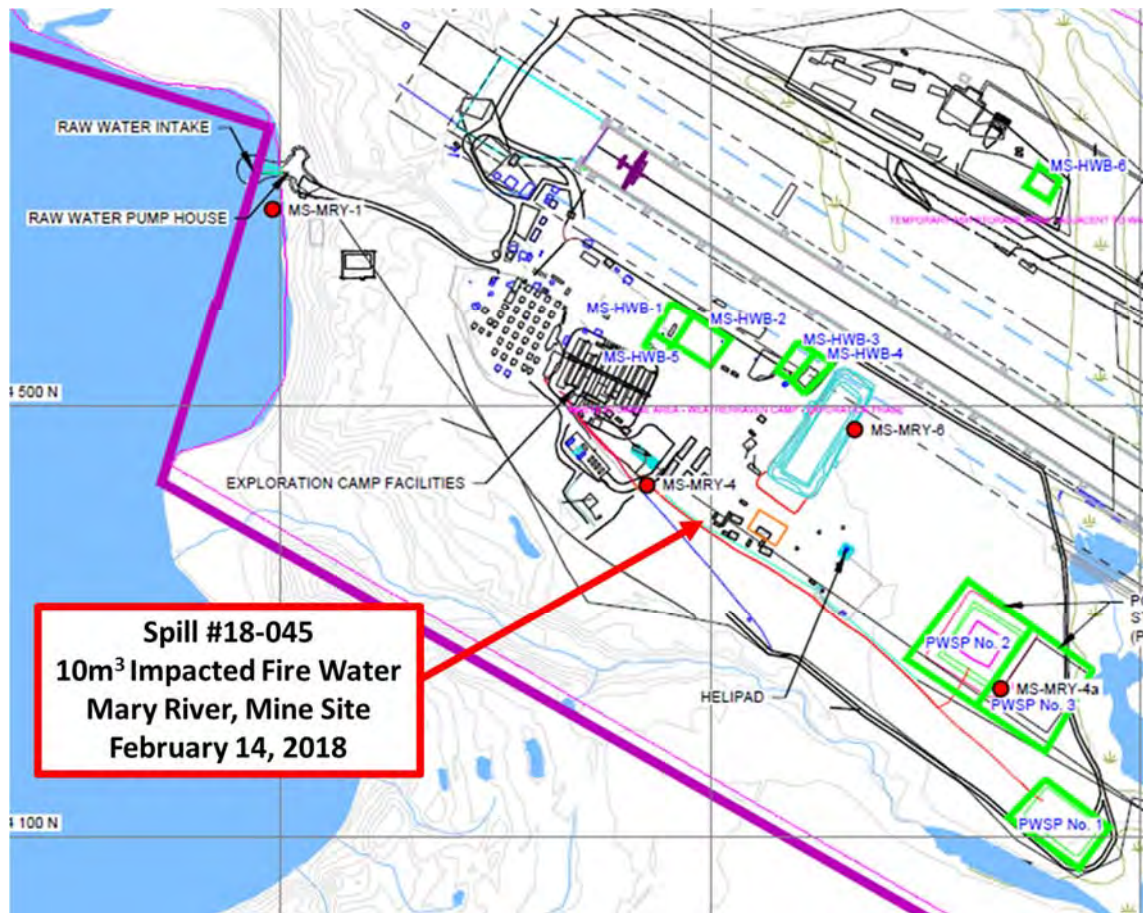


Figure 1 – Map of spill location



Canada

NT-NU SPILL REPORT

OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS

NT-NU 24-HOUR SPILL REPORT LINE

TEL: (867) 920-8130

FAX: (867) 873-6924

EMAIL: spillis@gov.nt.ca

REPORT LINE USE ONLY

A	REPORT DATE: MONTH - DAY - YEAR 02-15-18	REPORT TIME 20:00	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # TO THE ORIGINAL SPILL REPORT		REPORT NUMBER 18 - 045
B	OCCURRENCE DATE: MONTH - DAY - YEAR 02-14-18	OCCURRENCE TIME Unknown			
C	LAND USE PERMIT NUMBER (IF APPLICABLE) IOL - Commercial Lease: Q13C301	WATER LICENSE NUMBER (IF APPLICABLE) 2AM-MRY1325 Type "A"			
D	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION Mary River Mine Site, Baffin Island, NU		REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN		
E	LATITUDE DEGREES 71 MINUTES 19 SECONDS 51		LONGITUDE DEGREES 79 MINUTES 22 SECONDS 32		
F	RESPONSIBLE PARTY OR VESSEL NAME Baffinland Iron Mines Corp.	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION 2275 Middle Road East, Sutie 300, Oakville, ON L6H 0C3			
G	ANY CONTRACTOR INVOLVED Almiq, Nuna	CONTRACTOR ADDRESS OR OFFICE LOCATION N/A			
H	PRODUCT SPILLED Impacted Fire Water	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES Approx. 10m3	U.N. NUMBER N/A		
	SECOND PRODUCT SPILLED (IF APPLICABLE) N/A	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES N/A	U.N. NUMBER N/A		
I	SPILL SOURCE Fire/Fire Fighting Equipment	SPILL CAUSE Fire Fighting	AREA OF CONTAMINATION IN SQUARE METRES		
J	FACTORS AFFECTING SPILL OR RECOVERY Fire, Freezing Conditions	DESCRIBE ANY ASSISTANCE REQUIRED Heavy Equipment	HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT N/A		
K	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS <p>On February 14, 2018 at approximately 06:30, a fire was reported beside the Nuna shop in proximity to the Mine Site Weatherhaven complex. It was discovered that two light vehicles, one pick up, one cube van, had caught fire. The ignition source is unknown at this time. The Mine Rescue Team was dispatched to extinguish the fire, which took approximately an hour. As a result, there was a significant amount of fire impacted water that was produced, which immediately froze to the adjacent pad where the pick ups were parked. Approximately 10m3 of fire impacted water was produced, confined to the pad; berms and extreme temperatures mitigated the migration of the water. This spill is >160m to the nearest water course (which is currently frozen). The investigation is ongoing and further details will be provided in the follow-up report. This spill is being reported as required by the conditions of NWB Water License no. 2AM-MRY1325, Part H, item 9 (b) pursuant to subsection 12(3) of the Nunavut Waters and Nunavut Surface Rights Tribunal Act.</p>				
L	REPORTED TO SPILL LINE BY Connor Devereaux	POSITION Env. Superintendent	EMPLOYER Baffinland	LOCATION CALLING FROM Mary River	TELEPHONE 416 364 8820
M	ANY ALTERNATE CONTACT Tim Sewell	POSITION Head of HSE	EMPLOYER Baffinland	ALTERNATE CONTACT LOCATION	ALTERNATE TELEPHONE 6016
REPORT LINE USE ONLY					
N	RECEIVED AT SPILL LINE BY	POSITION STATION OPERATOR	EMPLOYER	LOCATION CALLED YELLOWKNIFE, NT	REPORT LINE NUMBER (867) 920-8130
LEAD AGENCY <input type="checkbox"/> EC <input type="checkbox"/> CCG <input type="checkbox"/> GNWT <input type="checkbox"/> GN <input type="checkbox"/> ILA <input type="checkbox"/> INAC <input type="checkbox"/> NEB <input type="checkbox"/> TC			SIGNIFICANCE <input type="checkbox"/> MINOR <input type="checkbox"/> MAJOR <input type="checkbox"/> UNKNOWN		FILE STATUS <input type="checkbox"/> OPEN <input type="checkbox"/> CLOSED
AGENCY		CONTACT NAME	CONTACT TIME	REMARKS	
LEAD AGENCY					
FIRST SUPPORT AGENCY					
SECOND SUPPORT AGENCY					
THIRD SUPPORT AGENCY					

PAGE 1 OF _____

Figure 2 – NT-NU Spill report

2275 Upper Middle Road East, Suite 300 | Oakville, ON, Canada L6H 0C3
Main: 416.364.8820 | Fax: 416.364.0193 | www.baffinland.com



March 22, 2018

Resource Management Officer
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Jonathan.mesher@aandc-aadnc.gc.ca

Manager, Major Projects
Qikiqtani Inuit Association
P.O. Box 219
Iqaluit, NU X0A 0H0

Re: Follow-up to Spill #18-051, Reported on February 22, 2018 Mary River Project - Water Licence No. 2AM-MRY1325

Summary:

On February 22, 2018 at approximately 07:50 hrs, while conducting inspections of the MSC lift stations, a housing maintainer observed frozen water outside the AD wing north lift station. Upon initial investigation, it was determined that the lift station had overflowed. The lift station was immediately emptied by vacuum truck to prevent further overflow. Approximately 200L of sewage was released to the adjacent camp pad ground surface, impacting an approximate area of 15m². This lift station is emptied via vacuum truck and the increased influent between loads caused the lift station to overflow. This spill is >100 m to the nearest water course (which is currently frozen).

Immediate and Follow-Up Action:

The lift station was immediately emptied by vacuum truck to prevent further overflow. The contaminated snow was collected and deposited in an engineered lined containment facility to the extent possible. Increased visits by vacuum truck is occurring to ensure no further overflow occurs.

Recommendations:

Baffinland has recommended more frequent checks and vacuum truck operating so that raw sewage levels stay below the emergency overflow levels of the holding tank.

Current Status:

The lift station is currently back in operation and inspected regularly.

Should you require further information or clarification on the above noted spill, please feel free to contact William Bowden or Connor Devereaux at (647)253-0596 x6016

Prepared By:

A handwritten signature in black ink, appearing to read "B. Lukeman".

Bryan Lukeman
Environmental Coordinator

Reviewed by:

A handwritten signature in black ink, appearing to read "Connor Devereaux".

Connor Devereaux
Environmental Superintendent

Attach: Map, Photos, and Initial NT-NU Spill Report

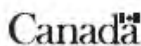
cc. Todd Burlingame, Sylvain Proulx, Gerald Rogers, Francois Gaudreau, Tim Sewell, William Bowden (Baffinland) Stephen Bathory (QIA), Erik Allain, Ian Parsons (INAC)



Photo 1: Lift station and camp pad following clean up



Figure 1 – Map of spill location



NT-NU SPILL REPORT

OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS

NT-NU 24-HOUR SPILL REPORT LINE

TEL: (867) 920-8130

FAX: (867) 873-6924

EMAIL: spills@gov.nt.ca

REPORT LINE USE ONLY

A	REPORT DATE- MONTH - DAY - YEAR 02-24-2018	REPORT TIME 20:45	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # TO THE ORIGINAL SPILL REPORT	REPORT NUMBER 18 051
B	OCCURRENCE DATE- MONTH - DAY - YEAR 02-22-2018	OCCURRENCE TIME 10:30		
C	LAND USE PERMIT NUMBER (IF APPLICABLE) IOL - Commercial Lease: Q13C301	WATER LICENCE NUMBER (IF APPLICABLE) 2AM-MRY1325 Type "A"		
D	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION Mary River Mine Site, Baffin Island, NU	REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN		
E	LATITUDE DEGREES 71 MINUTES 18 SECONDS 55		LONGITUDE DEGREES 79 MINUTES 17 SECONDS 04	
F	RESPONSIBLE PARTY OR VESSEL NAME Baffinland Iron Mines Corp.	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION 2275 Middle Road East, Suite 300, Oakville, ON L6H 0C3		
G	ANY CONTRACTOR INVOLVED N/A	CONTRACTOR ADDRESS OR OFFICE LOCATION N/A		
H	PRODUCT SPILLED Raw Sewage	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES Approx. 200L	U.N. NUMBER N/A	
	SECOND PRODUCT SPILLED (IF APPLICABLE) N/A	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES N/A	U.N. NUMBER N/A	
I	SPIII. SOURCE Lift Station	SPIII. CAUSE Influent to lift station	AREA OF CONTAMINATION IN SQUARE METRES 15m2	
J	FACTORS AFFECTING SPILL OR RECOVERY Congested area, snow and ice	DESCRIBE ANY ASSISTANCE REQUIRED N/A	HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT N/A	
K	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS On February 22, 2018 at approximately 07:50 hrs, while conducting inspections of the MSC lift stations, a housing maintainer observed frozen water outside the AD wing north lift station. Upon initial investigation, it was determined that the lift station had overflowed. The lift station was immediately emptied by vacuum truck to prevent further overflow. Approximately 200L of sewage was released to the adjacent camp pad ground surface, impacting an approximate area of 15m2. This lift station is emptied via vacuum truck and the increased influent between loads caused the lift station to overflow. Increased visits by vacuum truck is occurring to ensure no further overflow occurs. This spill is >100 m to the nearest water course (which is currently frozen). The investigation is ongoing and further details will be provided in the follow-up report. This spill is being reported as required by the conditions of NWB Water License no. 2AM-MRY1325, Part H, item 9 (b) pursuant to subsection 12(3) of the Nunavut Waters and Nunavut Surface Rights Tribunal Act.			
L	REPORTED TO SPILL LINE BY Connor Devereaux	POSITION Env. Superintendent	EMPLOYER Baffinland	LOCATION CALLING FROM Mary River
M	ANY ALTERNATE CONTACT Tim Sewell	POSITION Head of HSE	EMPLOYER Baffinland	ALTERNATE CONTACT ext. 6016
REPORT LINE USE ONLY				
N	RECEIVED AT SPILL LINE BY STATION OPERATOR	POSITION STATION OPERATOR	EMPLOYER YELLOWKNIFE, NT	REPORT LINE NUMBER (867) 920-8130
LEAD AGENCY <input type="checkbox"/> EC <input type="checkbox"/> DCG <input type="checkbox"/> GNWT <input type="checkbox"/> GN <input type="checkbox"/> ILA <input type="checkbox"/> NAC <input type="checkbox"/> NEB <input type="checkbox"/> TC		SIGNIFICANCE <input type="checkbox"/> MINOR <input type="checkbox"/> MAJOR <input type="checkbox"/> UNKNOWN		FILE STATUS <input type="checkbox"/> OPEN <input type="checkbox"/> CLOSED
AGENCY	CONTACT NAME	CONTACT TIME	REMARKS	
LEAD AGENCY				
FIRST SUPPORT AGENCY				
SECOND SUPPORT AGENCY				
THIRD SUPPORT AGENCY				

PAGE 1 OF 1

Figure 2 – NT-NU Spill report



March 23, 2018

Resource Management Officer
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Jonathan.mesher@aandc-aadnc.gc.ca

Manager, Major Projects
Qikiqtani Inuit Association
P.O. Box 219
Iqaluit, NU X0A 0H0

Re: Follow-up to Spill #18-050, Reported on February 24, 2018
Mary River Project - Water Licence No. 2AM-MRY1325

Summary:

On February 23, 2018 at approximately 16:30 hrs, while conducting routine inspections of the MSC lift stations, a housing maintainer observed frozen water outside the AA wing south lift station. Upon initial investigation, it was determined that there was a blockage in the discharge line to the main lift station, resulting in the lift station overfilling. Approximately 150L of sewage was released to the adjacent camp pad ground surface, impacting an approximate area of 10m². This spill is located greater than 100 m to the nearest water course, which is currently frozen.

Immediate and Follow-Up Action:

The lift station was immediately emptied by a vacuum truck to prevent further overflow. The contaminated snow was collected and deposited in an engineered lined containment facility. Additional insulation was added to the discharge line, and the heat trace has been tested to confirm it is in good working condition.

Recommendations:

Investigate the cause of the frozen discharge line and develop a remedy to prevent the line from freezing again. Continue daily lift station inspections of the system.

Current Status:

The lift station is currently operational with regular daily inspections.

Should you require further information or clarification on the above noted spill, please feel free to contact William Bowden or Connor Devereaux at (647) 253-0596 x6016.

Prepared By:

A handwritten signature in black ink, appearing to read "Bryan Lukeman".

Bryan Lukeman
Environmental Coordinator

Reviewed by:

A handwritten signature in black ink, appearing to read "Connor Devereaux".

Connor Devereaux
Environmental Superintendent

Attach: Photos, Map, NT-NU Spill Report

cc. Todd Burlingame, Sylvain Proulx, Gerald Rogers, Francois Gaudreau, Tim Sewell, William Bowden (Baffinland), Stephen Bathory (QIA), Erik Allain, Ian Parsons (INAC)



Photo 1. Spill location before clean-up



Photo 2. Lift station and camp pad following clean-up



Figure 1 – Map of spill location



Canada

NT-NU SPILL REPORT

OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS

NT-NU 24-HOUR SPILL REPORT LINE

TEL: (867) 920-8130

FAX: (867) 873-6924

EMAIL: spills@gov.nt.ca

REPORT LINE USE ONLY

A	REPORT DATE: MONTH - DAY - YEAR 02-24-2018	REPORT TIME 18:30	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT	REPORT NUMBER 18 050
B	OCCURRENCE DATE: MONTH - DAY - YEAR 02-23-2018	OCCURRENCE TIME 16:30		
C	LAND USE PERMIT NUMBER (IF APPLICABLE) IOL - Commercial Lease: Q13C301	WATER LICENSE NUMBER (IF APPLICABLE) 2AM-MRY1325 Type "A"		
D	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION Mary River Mine Site, Baffin Island, NU		REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN	
E	LATITUDE DEGREES 71 MINUTES 13 SECONDS 43		LONGITUDE DEGREES 79 MINUTES 14 SECONDS 08	
F	RESPONSIBLE PARTY OR VESSEL NAME Baffinland Iron Mines Corp.	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION 2275 Middle Road East, Suite 300, Oakville, ON L6H 0C3		
G	ANY CONTRACTOR INVOLVED N/A	CONTRACTOR ADDRESS OR OFFICE LOCATION N/A		
H	PRODUCT SPILLED Raw Sewage	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES Approx. 150L	U.N. NUMBER N/A	
	SECOND PRODUCT SPILLED (IF APPLICABLE) N/A	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES N/A	U.N. NUMBER N/A	
I	SPILL SOURCE Lift Station	SPILL CAUSE Discharge line blockage	AREA OF CONTAMINATION IN SQUARE METRES 10m2	
J	FACTORS AFFECTING SPILL OR RECOVERY Congested area, snow and ice	DESCRIBE ANY ASSISTANCE REQUIRED N/A	HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT N/A	
K	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS On February 23, 2018 at approximately 16:30 hrs, while conducting inspections of the MSC lift stations, a housing maintainer observed frozen water outside the AA wing south lift station. Upon initial investigation, it was determined that there was a blockage in the discharge line to the main lift station, resulting in the lift station overflowing. The lift station was immediately emptied by vacuum truck to prevent further overflow. A vacuum truck is continuing to empty the lift station on a daily basis until repairs can be made. Approximately 150L of sewage was released to the adjacent camp pad ground surface, impacting an approximate area of 10m2. This spill is >100 m to the nearest water course (which is currently frozen). The investigation is ongoing and further details will be provided in the follow-up report. This spill is being reported as required by the conditions of NWB Water License no. 2AM-MRY1325, Part H, item 9 (b) pursuant to subsection 12(3) of the Nunavut Waters and Nunavut Surface Rights Tribunal Act.			
L	REPORTED TO SPILL LINE BY Connor Devereaux	POSITION Env. Superintendent	EMPLOYER Baffinland	LOCATION CALLING FROM Mary River TELEPHONE 416 364 8820
M	ANY ALTERNATE CONTACT Tim Sewell	POSITION Head of HSE	EMPLOYER Baffinland	ALTERNATE CONTACT LOCATION ext. 6016
REPORT LINE USE ONLY				
N	RECEIVED AT SPILL LINE BY STATION OPERATOR:	POSITION	EMPLOYER	LOCATION CALLED YELLOWKNIFE, NT REPORT LINE NUMBER (867) 920-8130
LEAD AGENCY <input type="checkbox"/> EC <input type="checkbox"/> CCG <input type="checkbox"/> GNWT <input type="checkbox"/> GN <input type="checkbox"/> IIA <input type="checkbox"/> INAC <input type="checkbox"/> NEB <input type="checkbox"/> TC			SIGNIFICANCE <input type="checkbox"/> MINOR <input type="checkbox"/> MAJOR <input type="checkbox"/> UNKNOWN	
AGENCY			FILE STATUS <input type="checkbox"/> OPEN <input type="checkbox"/> CLOSED	
CONTACT NAME		REMARKS		
LEAD AGENCY				
FIRST SUPPORT AGENCY				
SECOND SUPPORT AGENCY				
THIRD SUPPORT AGENCY				

Figure 2 – NT-NU Spill report



March 25, 2018

Resource Management Officer
Nunavut Field Operations
Indigenous and Northern Affairs Canada
Box 100
Iqaluit, NU X0A 0H0
Jonathan.mesher@aandc-aadnc.gc.ca

Manager, Major Projects
Qikiqtani Inuit Association
P.O. Box 219
Iqaluit, NU X0A 0H0

Re: Follow-up to Spill #18-052, Reported on February 25, 2018
Mary River Project - Water Licence No. 2AM-MRY1325

Summary:

On February 25, 2018 at approximately 04:50 hrs, an operator was filling the rear compartment of the fuel tanker (FLT-004) when the operator noticed fuel coming down the back of the tanker. The compartment has a safe fill level of 12,000L but overflowed at 8,132L. Approximately 200L of diesel fuel was released to the ground surface within the refueling area which is a lined engineered containment berm, impacting an approximate area of 20m². This spill is located greater than 100 m to the nearest water course, which is currently frozen.

Immediate and Follow-Up Action:

The operator immediately shut off the fuel pump, closed the valves and laid down spill pads to contain the spill. The contaminated material was removed and properly disposed of in the landfarm. New material was put down and leveled to return the lined refueling area cover substrate back to its original state. It was determined that belly valve had closed without being actuated during the offload procedure which gave the operator a false indication that the tank was empty.

Recommendations:

Moving forward operators will check the compartments after each offload process and at the beginning of each shift when equipment is being handed off during shift change. New fuel level indicators will be installed on the tanker and a railing is to be installed on the tanker to eliminate the use of fall arrest harnesses and improve access to compartments during refueling checks.

Current Status:

The refueling and transportation of fuel continues, compartment checks are being completed and no further incidents have occurred.

Should you require further information or clarification on the above noted spill, please feel free to contact William Bowden or Connor Devereaux at (647) 253-0596 x6016.

Prepared By:

A handwritten signature in black ink, appearing to read "DRitgen".

Dominic Ritgen
Environmental Coordinator

Reviewed by:

A handwritten signature in black ink, appearing to read "Connor Devereaux".

Connor Devereaux
Environmental Superintendent

Attach: Photos, Map, NT-NU Spill Report

cc. Todd Burlingame, Sylvain Proulx, Gerald Rogers, Francois Gaudreau, Tim Sewell, William Bowden (Baffinland), Stephen Bathory (QIA), Erik Allain, Ian Parsons (INAC)



Photo 1. Spill location before clean-up



Photo 2. Spill location following clean-up



Spill#18-052
200L Arctic Diesel
Milne Port
February 25, 2018

Figure 1 – Map of spill location



Canada

NT-NU SPILL REPORT

OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS

NT-NU 24-HOUR SPILL REPORT LINE

TEL: (867) 920-8130

FAX: (867) 873-6924

EMAIL: spills@gov.nt.ca

REPORT LINE USE ONLY

A	REPORT DATE: MONTH – DAY – YEAR 02-26-2018	REPORT TIME 07:00	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # TO THE ORIGINAL SPILL REPORT		REPORT NUMBER 18 - 052
B	OCCURRENCE DATE: MONTH – DAY – YEAR 02-25-2018	OCCURRENCE TIME 04:50			
C	LAND USE PERMIT NUMBER (IF APPLICABLE) IOL - Commercial Lease: Q13C301	WATER LICENCE NUMBER (IF APPLICABLE) 2AM-MRY1325 Type "A"			
D	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION Mary River Mine Site, Baffin Island, NU		REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN		
E	LATITUDE DEGREES 71 MINUTES 53 SECONDS 08		LONGITUDE DEGREES 80 MINUTES 53 SECONDS 34		
F	RESPONSIBLE PARTY OR VESSEL NAME Baffinland Iron Mines Corp.	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION 2275 Middle Road East, Suite 300, Oakville, ON L6H 0C3			
G	ANY CONTRACTOR INVOLVED N/A	CONTRACTOR ADDRESS OR OFFICE LOCATION N/A			
H	PRODUCT SPILLED Arctic Diesel	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES Approx. 200L	U.N. NUMBER N/A		
	SECOND PRODUCT SPILLED (IF APPLICABLE) N/A	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES N/A	U.N. NUMBER N/A		
I	SPILL SOURCE Fuel tanker	SPILL CAUSE Unknown	AREA OF CONTAMINATION IN SQUARE METRES 20m2		
J	FACTORS AFFECTING SPILL OR RECOVERY Congested area, snow and ice	DESCRIBE ANY ASSISTANCE REQUIRED N/A	HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT N/A		
K	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS On February 25, 2018 at approximately 04:50 hrs, an operator was filling the rear compartment of the fuel tanker (FLT-004) when the operator noticed fuel coming down the back of the tanker. The compartment has a safe fill level of 12,000L but overflowed at 8,132L. The operator immediately shut off the fuel pump, closed the valves and laid down spill pads to contain the spill. Approximately 200L of diesel fuel was released to the ground surface within the refueling area which is a lined engineered containment berm, impacting an approximate area of 20m2. The contaminated material was removed and properly disposed of in the landfarm. The spill occurred >100 m to the nearest water course (which is currently frozen). The investigation is ongoing and further details will be provided in the follow-up report. This spill is being reported as required by the conditions of NWB Water License no. 2AM-MRY1325, Part H, item 9 (b) pursuant to subsection 12(3) of the Nunavut Waters and Nunavut Surface Rights Tribunal Act.				
L	REPORTED TO SPILL LINE BY Connor Devereaux	POSITION Env. Superintendent	EMPLOYER Baffinland	LOCATION CALLING FROM Mary River	TELEPHONE 416 364 8820
M	ANY ALTERNATE CONTACT Tim Sewell	POSITION Head of HSE	EMPLOYER Baffinland	ALTERNATE CONTACT LOCATION	ALTERNATE TELEPHONE ext. 6016
REPORT LINE USE ONLY					
N	RECEIVED AT SPILL LINE BY	POSITION STATION OPERATOR	EMPLOYER	LOCATION CALLED YELLOWKNIFE, NT	REPORT LINE NUMBER (867) 920-8130
LEAD AGENCY <input type="checkbox"/> EC <input type="checkbox"/> CCG <input type="checkbox"/> GNWT <input type="checkbox"/> GN <input type="checkbox"/> ILA <input type="checkbox"/> INAC <input type="checkbox"/> NEB <input type="checkbox"/> TC			SIGNIFICANCE <input type="checkbox"/> MINOR <input type="checkbox"/> MAJOR <input type="checkbox"/> UNKNOWN		FILE STATUS <input type="checkbox"/> OPEN <input type="checkbox"/> CLOSED
AGENCY	CONTACT NAME		CONTACT TIME	REMARKS	
LEAD AGENCY					
FIRST SUPPORT AGENCY					
SECOND SUPPORT AGENCY					
THIRD SUPPORT AGENCY					

PAGE 1 OF 1

Figure 2 – NT-NU Spill report

2275 Upper Middle Road East, Suite 300 | Oakville, ON, Canada L6H 0C3
 Main: 416.364.8820 | Fax: 416.364.0193 | www.baffinland.com



March 28, 2018

Resource Management Officer
Nunavut Field Operations
Indigenous and Northern Affairs Canada
Box 100
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Jonathan.mesher@aandc-aadnc.gc.ca

Manager, Major Projects
Qikiqtani Inuit Association
P.O. Box 219
Iqaluit, NU X0A 0H0

Re: Follow-up to Spill #18-062, Reported on February 27, 2018 Mary River Project - Water Licence No. 2AM-MRY1325

Summary:

On February 27, 2018 at approximately 06:40 hrs, while conducting inspections of the MSC lift stations, a housing maintainer observed frozen water outside the AE wing south lift station. Upon initial investigation, it was determined that the lift station had overflowed. The lift station was immediately emptied by vacuum truck to prevent further overflow. Approximately 200L of sewage was released to the adjacent camp pad ground surface, impacting an approximate area of 30m². A frost fighter was brought in to heat and thaw the ice blockage in the discharge line and have the system brought back into service. This spill is >100 m to the nearest water course (which is currently frozen).

Immediate and Follow-Up Action:

The lift station was immediately emptied by vacuum truck to prevent further overflow and the ice blockage in the line was removed. The contaminated snow was collected and deposited in an engineered lined containment facility.

Recommendations:

Investigate potential causes of the frozen discharge line and develop a remedy to prevent the line from freezing again. Continue daily lift station inspections of the system.

Current Status:

The lift station is currently operational with regular daily inspections.

Should you require further information or clarification on the above noted spill, please feel free to contact William Bowden or Connor Devereaux at (647)253-0596 x6016

Prepared By:

A handwritten signature in black ink, appearing to read "B. Lukeman".

Bryan Lukeman
Environmental Coordinator

Reviewed by:

A handwritten signature in black ink, appearing to read "Connor Devereaux".

Connor Devereaux
Environmental Superintendent

Attach: Photos, Map, NT-NU Spill Report

cc. Todd Burlingame, Sylvain Proulx, Gerald Rogers, Francois Gaudreau, Tim Sewell, William Bowden (Baffinland) Stephen Bathory (QIA), Erik Allain, Ian Parsons (INAC)



Photo 1. Spill location before clean-up



Photo 2. Lift station and camp pad following clean-up



Figure 1 – Map of spill location



Canada

NT-NU SPILL REPORT

OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS

NT-NU 24-HOUR SPILL REPORT LINE

TEL: (867) 920-8130

FAX: (867) 873-6924

EMAIL: spills@gov.nt.ca

REPORT LINE USE ONLY

A	REPORT DATE: MONTH - DAY - YEAR 02-27-2018	REPORT TIME 19:00	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT	REPORT NUMBER 18 062
B	OCCURRENCE DATE: MONTH - DAY - YEAR 02-27-2018	OCCURRENCE TIME 06:40		
C	LAND USE PERMIT NUMBER (IF APPLICABLE) IOL - Commercial Lease: Q13C301		WATER LICENCE NUMBER (IF APPLICABLE) 2AM-MRY1325 Type "A"	
D	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION Mary River Mine Site, Baffin Island, NU		REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN	
E	LATITUDE DEGREES 71 MINUTES 18 SECONDS 53		LONGITUDE DEGREES 79 MINUTES 16 SECONDS 57	
F	RESPONSIBLE PARTY OR VESSEL NAME Baffinland Iron Mines Corp.	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION 2275 Middle Road East, Suite 300, Oakville, ON L6H 0C3		
G	ANY CONTRACTOR INVOLVED N/A	CONTRACTOR ADDRESS OR OFFICE LOCATION N/A		
H	PRODUCT SPILLED Raw Sewage	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES Approx. 200L	U.N. NUMBER N/A	
	SECOND PRODUCT SPILLED (IF APPLICABLE) N/A	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES N/A	U.N. NUMBER N/A	
I	SPILL SOURCE Lift Station	SPILL CAUSE Discharge line frozen	AREA OF CONTAMINATION IN SQUARE METRES 30m2	
J	FACTORS AFFECTING SPILL OR RECOVERY Congested area, snow and ice	DESCRIBE ANY ASSISTANCE REQUIRED N/A	HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT N/A	
K	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS On February 27, 2018 at approximately 06:40 hrs, while conducting inspections of the MSC lift stations, a housing maintainer observed frozen water outside the AE wing south lift station. Upon initial investigation, it was determined that the lift station had overflowed. The lift station was immediately emptied by vacuum truck to prevent further overflow. Approximately 200L of sewage was released to the adjacent camp pad ground surface, impacting an approximate area of 30m2. A frost fighter was brought in to heat and thaw the ice blockage in the discharge line and have the system brought back into service. This spill is >100 m to the nearest water course (which is currently frozen). The investigation is ongoing and further details will be provided in the follow-up report. This spill is being reported as required by the conditions of NWB Water License no. 2AM-MRY1325, Part H, item 9 (b) pursuant to subsection 12(3) of the Nunavut Waters and Nunavut Surface Rights Tribunal Act.			
L	REPORTED TO SPILL LINE BY Connor Devereaux	POSITION Env. Superintendent	EMPLOYER Baffinland	LOCATION CALLING FROM Mary River
M	ANY ALTERNATE CONTACT Tim Sewell	POSITION Head of HSE	EMPLOYER Baffinland	ALTERNATE CONTACT ext. 6016
REPORT LINE USE ONLY				
N	RECEIVED AT SPILL LINE BY STATION OPERATOR:	POSITION STATION OPERATOR:	EMPLOYER	LOCATION CALLED YELLOWKNIFE, NT
LEAD AGENCY <input type="checkbox"/> EC <input type="checkbox"/> CCG <input type="checkbox"/> GNWT <input type="checkbox"/> GN <input type="checkbox"/> ILA <input type="checkbox"/> INAC <input type="checkbox"/> NEB <input type="checkbox"/> TC		SIGNIFICANCE <input type="checkbox"/> MINOR <input type="checkbox"/> MAJOR <input type="checkbox"/> UNKNOWN		FILE STATUS <input type="checkbox"/> OPEN <input type="checkbox"/> CLOSED
AGENCY	CONTACT NAME	CONTACT TIME	REMARKS	
LEAD AGENCY				
FIRST SUPPORT AGENCY				
SECOND SUPPORT AGENCY				
THIRD SUPPORT AGENCY				

PAGE 1 OF 1

Figure 2 – NT-NU Spill report



April 15, 2018

Resource Management Officer
Nunavut Field Operations
Indigenous and Northern Affairs Canada
Box 100
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Jonathan.mesher@aadnc-aadnc.gc.ca

Manager, Major Projects
Qikiqtani Inuit Association
P.O. Box 219
Iqaluit, NU X0A 0H0

Re: Follow-up to Spill #18-089, Reported on March 17, 2018
Mary River Project - Water Licence No. 2AM-MRY1325

Summary:

At 10:30 on March 16, 2018, while performing inspections of the Mine Site Complex (MSC) lift Stations, a housing maintainer observed water adjacent to the South AA lift Station. Upon initial investigation, it was identified that the lift station pumps had failed to activate due to the tank floats malfunctioning and the discharge line had plugged due to extreme winter conditions. The lift station was manually pumped down via vacuum truck to prevent further overflow and supervision notified. Approximately 200L of sewage impacted the MSC pad adjacent to the lift station, migrating over an area of approx. 10 m². The spill is >100 m from the nearest water body which is currently frozen.

Immediate and Follow-Up Action:

The lift station was immediately emptied by a vacuum truck to prevent further overflow. The contaminated snow was collected and deposited in an engineered lined containment facility. Additional insulation was added to the discharge line, and the heat trace has been tested to confirm it is in good working condition. Further repairs were performed and are ongoing to the lift station tank after the tank integrity was called into question.

Recommendations:

Repairs to the lift station tank were recommended and will be monitored along with discharge line repairs. Action further repairs, including tank replacement as required. Continue daily lift station inspections of the system.

Current Status:

The lift station repairs are ongoing and the secondary containment is checked and pumped out as required. Daily inspections continue

Should you require further information or clarification on the above noted spill, please feel free to contact William Bowden or Connor Devereaux at (647) 253-0596 x6016.

Prepared By:

A handwritten signature in black ink, appearing to read "Benjamin Widdowson".

Ben Widdowson
Environmental Coordinator

Reviewed by:

A handwritten signature in black ink, appearing to read "Bill Bowden".

William Bowden
Environmental Superintendent

Attach: Photos, Map, NT-NU Spill Report

cc. William Napier, Sylvain Proulx, Gerald Rogers, Francois Gaudreau, Tim Sewell, Connor Devereaux
Megan Lord Hoyle(Baffinland), Stephen Bathory (QIA), Erik Allain, Ian Parsons (INAC)



Photo 1. Spill location before clean-up



Photo 2. Lift station and camp pad following clean-up



Figure 1 – Map of spill location



Canada

NT-NU SPILL REPORT

OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS

NT-NU 24-HOUR SPILL REPORT LINE

TEL: (867) 920-8130

FAX: (867) 873-6924

EMAIL: spills@gov.nt.ca

REPORT LINE USE ONLY

A	REPORT DATE: MONTH - DAY - YEAR 03-17-2018	REPORT TIME 10:00	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT	REPORT NUMBER 18 089
B	OCCURRENCE DATE: MONTH - DAY - YEAR 03-16-2018	OCCURRENCE TIME 10:30		
C	LAND USE PERMIT NUMBER (IF APPLICABLE) IOL - Commercial Lease: Q13C301	WATER LICENSE NUMBER (IF APPLICABLE) 2AM-MRY1325 Type "A"		
D	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION Mary River Mine Site, Baffin Island, NU		REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN	
E	LATITUDE DEGREES 79 MINUTES 13 SECONDS 43		LONGITUDE DEGREES 56 MINUTES 14 SECONDS 08	
F	RESPONSIBLE PARTY OR VESSEL NAME Baffinland Iron Mines Corp.	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION 2275 Middle Road East, Suite 300, Oakville, ON L6H 0C3		
G	ANY CONTRACTOR INVOLVED N/A	CONTRACTOR ADDRESS OR OFFICE LOCATION N/A		
H	PRODUCT SPILLED Raw Sewage	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES Approx. 200 L	U.N. NUMBER N/A	
	SECOND PRODUCT SPILLED (IF APPLICABLE) N/A	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES N/A	U.N. NUMBER N/A	
I	SPILL SOURCE Lift Station	SPILL CAUSE Float Failure/Frozen Line	AREA OF CONTAMINATION IN SQUARE METRES Approx. 10 m2	
J	FACTORS AFFECTING SPILL OR RECOVERY Snow and ice around lift station	DESCRIBE ANY ASSISTANCE REQUIRED N/A	HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT N/A	
K	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS At 10:30 on March 16, 2018, while performing inspections of the MSC lift Stations, a housing maintainer observed water adjacent to the South AA lift Station. Upon initial investigation, two issues were identified: 1. the lift station pumps had failed to activate due to the tank floats not properly functioning; 2. discharge line plugged from frozen conditions. The lift station was manually pumped down via vacuum truck to prevent further overflow and supervision notified. Approximately 200L impacted the adjacent MSC pad to the lift station migrating over an area of approx. 10 m2. The spill is >100 m from the nearest water body which is currently frozen. The cleanup has been completed and the investigation is ongoing, further details will be provided in the follow-up report. This spill is being reported as required by the conditions of water license no. 2AM-MRY1325, Part H, item 9 (b) pursuant to subsection 12(3) of the Nunavut Waters and Nunavut Surface Rights Tribunal Act.			
L	REPORTED TO SPILL LINE BY Connor Devereaux	POSITION Env. Superintendent	EMPLOYER Baffinland	LOCATION CALLING FROM Mary River
M	ANY ALTERNATE CONTACT Tim Sewell	POSITION Head of HSE	EMPLOYER Baffinland	ALTERNATE CONTACT ext. 6016
REPORT LINE USE ONLY				
N	RECEIVED AT SPILL LINE BY STATION OPERATOR	POSITION	EMPLOYER	LOCATION CALLED YELLOWKNIFE, NT
LEAD AGENCY <input type="checkbox"/> EC <input type="checkbox"/> CCG <input type="checkbox"/> GNWT <input type="checkbox"/> GN <input type="checkbox"/> ILA <input type="checkbox"/> INAC <input type="checkbox"/> NER <input type="checkbox"/> TC		SIGNIFICANCE <input type="checkbox"/> MINOR <input type="checkbox"/> MAJOR <input type="checkbox"/> UNKNOWN		FILE STATUS <input type="checkbox"/> OPEN <input type="checkbox"/> CLOSED
AGENCY	CONTACT NAME	CONTACT TIME	REMARKS	
LEAD AGENCY				
FIRST SUPPORT AGENCY				
SECOND SUPPORT AGENCY				
THIRD SUPPORT AGENCY				

PAGE 1 OF 1

Figure 2 – NT-NU Spill report



April 17, 2018

Resource Management Officer
Nunavut Field Operations
Indigenous and Northern Affairs Canada
Box 100
Iqaluit, NU X0A 0H0
Jonathan.mesher@aadnc-aadnc.gc.ca

Manager, Major Projects
Qikiqtani Inuit Association
P.O. Box 219
Iqaluit, NU X0A 0H0

Re: Follow-up to Spill #18-098, Reported on March 19, 2018
Mary River Project - Water Licence No. 2AM-MRY1325

Summary:

On March 18, 2018 at approximately 22:00 hrs, workers were alerted to an alarm at the AD north wing lift station at the Mine Site Complex (MSC). Upon initial investigation, it was determined that the lift station had overflowed due float issues which activate the alarms. The lift station was immediately emptied by vacuum truck to prevent further overflow. Approximately 300L of sewage was released to the adjacent camp pad ground surface, impacting an approximate area of 20m². This spill is >100 m to the nearest water course (which is currently frozen).

Immediate and Follow-Up Action:

The lift station was immediately emptied by a vacuum truck to prevent further overflow. The contaminated snow was collected to the extent possible and deposited in an engineered lined containment facility. Upon investigation, it was determined the float was positioned too far up the tank to trigger alarms before overflowing.

Recommendations:

Inspections of the system should examine float efficacy. Implement a more robust vacuum truck schedule to pump down the tank more often and prevent future overflow occurrences.

Current Status:

The float has been repositioned to ensure it will trigger alarms before overflowing. The lift station is currently back in operation as a holding tank and inspected regularly.

Should you require further information or clarification on the above noted spill, please feel free to contact William Bowden or Connor Devereaux at (647) 253-0596 x6016.

Prepared By:

Benjamin Widdowson

Ben Widdowson
Environmental Coordinator

Reviewed by:

Bill Bowden

William Bowden
Environmental Superintendent

Attach: Photos, Map, NT-NU Spill Report

cc. William Napier, Sylvain Proulx, Gerald Rogers, Francois Gaudreau, Tim Sewell, Connor Devereaux
Megan Lord Hoyle(Baffinland), Stephen Bathory (QIA), Erik Allain, Ian Parsons (INAC)



Photo 1. Spill location before clean-up



Photo 2. Lift station and camp pad following float readjustment



Figure 1 – Map of spill location



Canada

NT-NU SPILL REPORT

OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS

NT-NU 24-HOUR SPILL REPORT LINE

TEL: (867) 920-8130

FAX: (867) 873-6924

EMAIL: spills@gov.nt.ca

REPORT LINE USE ONLY

A	REPORT DATE: MONTH - DAY - YEAR 03-19-2018	REPORT TIME 19:30	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT		REPORT NUMBER 18 098
B	OCCURRENCE DATE: MONTH - DAY - YEAR 03-18-2018		OCCURRENCE TIME 22:00		
C	LAND USE PERMIT NUMBER (IF APPLICABLE) IOL - Commercial Lease: Q13C301		WATER LICENSE NUMBER (IF APPLICABLE) 2AM-MRY1325 Type "A"		
D	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION Mary River Mine Site, Baffin Island, NU		REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN		
E	LATITUDE DEGREES 71 MINUTES 18 SECONDS 55		LONGITUDE DEGREES 79 MINUTES 17 SECONDS 04		
F	RESPONSIBLE PARTY OR VESSEL NAME Baffinland Iron Mines Corp.	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION 2275 Middle Road East, Suite 300, Oakville, ON L6H 0C3			
G	ANY CONTRACTOR INVOLVED N/A	CONTRACTOR ADDRESS OR OFFICE LOCATION N/A			
H	PRODUCT SPILLED Raw Sewage	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES Approx. 300L	U.N. NUMBER N/A		
	SECOND PRODUCT SPILLED (IF APPLICABLE) N/A	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES N/A	U.N. NUMBER N/A		
I	SPILL SOURCE Lift Station	SPILL CAUSE Overflow	AREA OF CONTAMINATION IN SQUARE METRES 20m2		
J	FACTORS AFFECTING SPILL OR RECOVERY Congested area, snow and ice	DESCRIBE ANY ASSISTANCE REQUIRED N/A	HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT N/A		
K	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS On March 18, 2018 at approximately 22:00 hrs, workers were alerted to an alarm at the AD north wing lift station. Upon initial investigation, it was determined that the lift station had overflowed. The lift station was immediately emptied by vacuum truck to prevent further overflow. Approximately 300L of sewage was released to the adjacent camp pad ground surface, impacting an approximate area of 20m2. This lift station is emptied via vacuum truck and the increased influent between loads caused the lift station to overflow. Surface works crews will increase visits by vacuum truck in an effort to ensure no further overflow occurs. This spill is >100 m to the nearest water course (which is currently frozen). The investigation is ongoing and further details will be provided in the follow-up report. This spill is being reported as required by the conditions of NWB Water License no. 2AM-MRY1325, Part H, Item 9 (b) pursuant to subsection 12(3) of the Nunavut Waters and Nunavut Surface Rights Tribunal Act.				
L	REPORTED TO SPILL LINE BY Connor Devereaux	POSITION Env. Superintendent	EMPLOYER Baffinland	LOCATION CALLING FROM Mary River	TELEPHONE 416 364 8820
M	ANY ALTERNATE CONTACT Tim Sewell	POSITION Head of HSE	EMPLOYER Baffinland	ALTERNATE CONTACT LOCATION	ALTERNATE TELEPHONE ext. 6016
REPORT LINE USE ONLY					
N	RECEIVED AT SPILL LINE BY STATION OPERATOR	POSITION	EMPLOYER	LOCATION CALLED YELLOWKNIFE, NT	REPORT LINE NUMBER (867) 920-8130
LEAD AGENCY <input type="checkbox"/> EC <input type="checkbox"/> CCG <input type="checkbox"/> GNWT <input type="checkbox"/> GN <input type="checkbox"/> ILA <input type="checkbox"/> INAC <input type="checkbox"/> NER <input type="checkbox"/> TC			SIGNIFICANCE <input type="checkbox"/> MINOR <input type="checkbox"/> MAJOR <input type="checkbox"/> UNKNOWN		FILE STATUS <input type="checkbox"/> OPEN <input type="checkbox"/> CLOSED
AGENCY		CONTACT NAME	CONTACT TIME	REMARKS	
LEAD AGENCY					
FIRST SUPPORT AGENCY					
SECOND SUPPORT AGENCY					
THIRD SUPPORT AGENCY					

PAGE 1 OF 1

Figure 2 – NT-NU Spill report



April 18, 2018

Resource Management Officer
Nunavut Field Operations
Indigenous and Northern Affairs Canada
Box 100
Iqaluit, NU X0A 0H0
Jonathan.mesher@aadnc-aadnc.gc.ca

Manager, Major Projects
Qikiqtani Inuit Association
P.O. Box 219
Iqaluit, NU X0A 0H0

Re: Follow-up to Spill #18-100, Reported on March 20, 2018
Mary River Project - Water Licence No. 2AM-MRY1325

Summary:

On March 19, 2018 at approximately 09:00 hrs, during routine sewer line and lift station inspections a housing maintainer noticed sewage leaking from the gravity drain line originating at the Port Site Complex men's dry. It was determined that a Fernco coupling had separated on the gravity drain line due to expansion/contraction of the piping system from extreme temperature change. Approximately 300L of raw sewage was released to the adjacent camp pad ground surface, impacting an approximate area of 15m².

Immediate and Follow-Up Action:

Water sources were shut off to the affected wing and signs were posted restricting water use. The contaminated snow was removed, to the extent possible, and disposed of at the Polishing Waste Stabilization Pond.

Recommendations:

Continued inspections of the piping to be completed to ensure all components are functioning as designed. Provide additional structural support under connection points on horizontal lines to reduce stress at the coupling as required.

Current Status:

The repair to the coupler is currently functioning and the gravity line is in operation and inspected regularly.

Should you require further information or clarification on the above noted spill, please feel free to contact William Bowden or Connor Devereaux at (647) 253-0596 x6016.

Prepared By:

A handwritten signature in blue ink, appearing to read "Ezra Arreak".

Ezra Arreak
Environmental Coordinator

Reviewed by:

A handwritten signature in blue ink, appearing to read "Bill Bowden".

William Bowden
Environmental Superintendent

Attach: Photos, Map, NT-NU Spill Report

cc. William Napier, Sylvain Proulx, Gerald Rogers, Francois Gaudreau, Tim Sewell, Megan Lorde Hoyle
Connor Devereaux (Baffinland), Stephen Bathory (QIA), Erik Allain, Ian Parsons (INAC)



Photo 1. Spill location before clean-up



Photo 2. Gravity Drain Line after repairs completed



Spill #18-100
300L Raw Sewage
Milne Inlet
March 19, 2018

Figure 1. Geographical Location of the release



Canada

NT-NU SPILL REPORT

OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS

NT-NU 24-HOUR SPILL REPORT LINE

TEL: (867) 920-9130

FAX: (867) 973-6924

EMAIL: spill@govt.nt.ca

REPORT LINE USE ONLY

A	REPORT DATE: MONTH - DAY - YEAR 03-20-2018	REPORT TIME 09:00	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT OR <input type="checkbox"/> UPDATE # TO THE ORIGINAL SPILL REPORT	REPORT NUMBER 18 100
B	OCCURRENCE DATE: MONTH - DAY - YEAR 03-19-2018	OCCURRENCE TIME 09:00		
C	LAND USE PERMIT NUMBER (IF APPLICABLE): IOL - Commercial Lease: Q13C301	WATER LICENSE NUMBER (IF APPLICABLE): 2AM-MRY1325 Type "A"		
D	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION Mary River Mine Site, Baffin Island, NU	REGION: <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN		
E	LATITUDE DEGREES: 71 MINUTES: 53 SECONDS: 07	LONGITUDE DEGREES: 80 MINUTES: 53 SECONDS: 20		
F	RESPONSIBLE PARTY OR VESSEL NAME Baffinland Iron Mines Corp.	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION 2275 Middle Road East, Suite 300, Oakville, ON L6H 0C3		
G	ANY CONTRACTOR INVOLVED N/A	CONTRACTOR ADDRESS OR OFFICE LOCATION N/A		
H	PRODUCT SPILLED Raw Sewage	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES Approx. 300L	UN NUMBER N/A	
	SECOND PRODUCT SPILLED (IF APPLICABLE): N/A	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES N/A	UN NUMBER N/A	
I	SPILL SOURCE Lift station	SPILL CAUSE Line coupling failure	AREA OF CONTAMINATION IN SQUARE METRES 15m2	
J	FACTORS AFFECTING SPILL OR RECOVERY Congested area, snow and ice	DESCRIBE ANY ASSISTANCE REQUIRED: N/A	HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT N/A	
K	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS: <p>On March 19, 2018 at approximately 09:00 hrs, a worker was conducting routine sewer line inspections when it was observed that the gravity drain line from the reception wing of the Port Site Complex was leaking. Upon initial investigation, it was determined that a coupling had separated. The water was immediately shut off to the affected wing while the coupling was repaired. Approximately 300L of sewage was released to the ground surface below, impacting an approximate area of 15 m2. The contaminated snow was collected in Quatrex bags and will be properly disposed of in the snowdump. This spill is >100 m to the nearest water course (which is currently frozen). The investigation is ongoing and further details will be provided in the follow-up report. This spill is being reported as required by the conditions of NWB Water License no. 2AM-MRY1325, Part H, Item 9 (b) pursuant to subsection 12(3) of the Nunavut Waters and Nunavut Surface Rights Tribunal Act.</p>			
L	REPORTED TO SPILL LINE BY Connor Devereaux	POSITION Env. Superintendent	EMPLOYER Baffinland	LOCATION CALLING FROM Mary River
M	ANY ALTERNATE CONTACT Tim Sewell	POSITION Head of HSE	EMPLOYER Baffinland	ALTERNATE CONTACT ext. 6016
REPORT LINE USE ONLY				
N	RECEIVED AT SPILL LINE BY STATION OPERATOR	POSITION	EMPLOYER	LOCATION CALLED YELLOWKNIFE, NT
LEAD AGENCY: <input type="checkbox"/> E.C. <input type="checkbox"/> C.C.G. <input type="checkbox"/> NWT <input type="checkbox"/> GN <input type="checkbox"/> ICA <input type="checkbox"/> INAC <input type="checkbox"/> N.E.G. <input type="checkbox"/> O.C.			SIGNIFICANCE: <input type="checkbox"/> MINOR <input type="checkbox"/> MAJOR <input type="checkbox"/> UNKNOWN	
FILE STATUS: <input type="checkbox"/> OPEN <input type="checkbox"/> CLOSED				
AGENCY	CONTACT NAME	CONTACT TIME	REMARKS	
LEAD AGENCY				
FIRST SUPPORT AGENCY				
SECOND SUPPORT AGENCY				
THIRD SUPPORT AGENCY				

Figure 2 – NT-NU Spill report

APPENDIX E.8.4
INITIAL AND FOLLOW-UP SPILL REPORTS
(PART 2 OF 4)



May 9, 2018

Resource Management Officer
Nunavut Field Operations
Indigenous and Northern Affairs Canada
Box 100
Iqaluit, NU X0A 0H0
Jonathan.mesher@aadnc-aadnc.gc.ca

Manager, Major Projects
Qikiqtani Inuit Association
P.O. Box 219
Iqaluit, NU X0A 0H0

Re: Follow-up to Spill #18-118, Reported on April 9, 2018
Mary River Project - Water Licence No. 2AM-MRY1325

Summary:

On April 9, 2018 at approximately 09:00 hrs, a housing maintainer conducting routine sewer line inspections observed a 90-degree elbow had separated from the AF South lift station discharge line under the Mine Site Complex (MSC). Upon investigation, it was determined the elbow glue had failed causing the joint to split. Approximately 1m³ of sewage was released and confined to the camp pad adjacent to the lift station, migrating to an extent underneath the MSC, impacting an approximate area of 20 m². This spill is >100 m to the nearest water course (which is currently frozen). The investigation is ongoing and further details will be provided in the follow-up report. This spill is being reported as required by the conditions of NWB Water License no. 2AM-MRY1325, Part H, Item 9 (b) pursuant to subsection 12(3) of the Nunavut Waters and Nunavut Surface Rights Tribunal Act.

Immediate and Follow-Up Action:

The lift station was immediately shut off to prevent further discharge and Supervision was contacted. The lift station was pumped down by vacuum truck and the elbow was repaired.

Recommendations:

Consider strategic secondary containment at repeat failure locations and research different style of coupler aimed to address the expansion and contraction conditions. Continue daily lift station inspections of the system.

Current Status:

The elbow joint is repaired and the discharge line is back in operation. Daily inspections continue

Should you require further information or clarification on the above noted spill, please feel free to contact William Bowden or Connor Devereaux at (647) 253-0596 x6016.

Prepared By:

A handwritten signature in black ink that reads "Benjamin Widdowson".

Ben Widdowson
Environmental Coordinator

Reviewed by:

A handwritten signature in black ink that reads "Bill Bowden".

William Bowden
Environmental Superintendent

Attach: Photos, Map, NT-NU Spill Report

cc. William Napier, Sylvain Proulx, Gerald Rogers, Francois Gaudreau, Tim Sewell, Connor Devereaux
Megan Lord Hoyle(Baffinland), Stephen Bathory (QIA), Erik Allain, Ian Parsons (INAC)

Photo 1. Discharge line before elbow repair

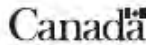


Photo 2. Discharge line following elbow repair





Figure 1 – Map of spill location



NT-NU SPILL REPORT

OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS

NT-NU 24-HOUR SPILL REPORT LINE

TEL: (867) 920-8130

FAX: (867) 873-6924

EMAIL: spillis@gov.nt.ca

REPORT LINE USE ONLY

A	REPORT DATE: MONTH - DAY - YEAR 04-09-2018	REPORT TIME 11:20	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # TO THE ORIGINAL SPILL REPORT	REPORT NUMBER 18 - 118
B	OCCURRENCE DATE: MONTH - DAY - YEAR 04-09-2018	OCCURRENCE TIME 11:00		
C	LAND USE PERMIT NUMBER (IF APPLICABLE) IOL - Commercial Lease: Q13C301	WATER LICENCE NUMBER (IF APPLICABLE) 2AM-MRY1325 Type "A"		
D	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION Mary River Mine Site, Baffin Island, NU		REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN	
E	LATITUDE DEGREES 79 MINUTES 13 SECONDS 42		LONGITUDE DEGREES 56 MINUTES 13 SECONDS 70	
F	RESPONSIBLE PARTY OR VESSEL NAME Baffinland Iron Mines Corp.	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION 2275 Middle Road East, Suite 300, Oakville, ON L6H 0C3		
G	ANY CONTRACTOR INVOLVED N/A	CONTRACTOR ADDRESS OR OFFICE LOCATION N/A		
H	PRODUCT SPILLED Raw Sewage	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES Approx. 1m3	U.N. NUMBER N/A	
	SECOND PRODUCT SPILLED (IF APPLICABLE) N/A	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES N/A	U.N. NUMBER N/A	
I	SPILL SOURCE Lift station	SPILL CAUSE discharge line joint failure	AREA OF CONTAMINATION IN SQUARE METRES Approx. 20m2	
J	FACTORS AFFECTING SPILL OR RECOVERY Congested area, snow and ice	DESCRIBE ANY ASSISTANCE REQUIRED N/A	HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT N/A	
K	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS On April 9, 2018 at approximately 09:00 hrs, a housing maintainer conducting routine sewer line inspections observed a 90 degree elbow had separated from the AF South lift station discharge line under the Mine Site Complex (MSC). Upon investigation, it was determined the elbow glue had failed causing the joint to split. The lift station was immediately shut off to prevent further discharge and Supervision was contacted. The lift station was pumped down by vacuum truck and the elbow is currently under repair. Approximately 1m3 of sewage was released and confined to the camp pad adjacent to the lift station, migrating to an extent underneath the MSC, impacting an approximate area of 20 m2. This spill is >100 m to the nearest water course (which is currently frozen). The investigation is ongoing and further details will be provided in the follow-up report. This spill is being reported as required by the conditions of NWB Water License no. 2AM-MRY1325, Part H, Item 9 (b) pursuant to subsection 12(3) of the Nunavut Waters and Nunavut Surface Rights Tribunal Act.			
L	REPORTED TO SPILL LINE BY William Bowden	POSITION Env. Superintendent	EMPLOYER Baffinland	LOCATION CALLING FROM Mary River
M	ANY ALTERNATE CONTACT Tim Sewell	POSITION Head of HSE	EMPLOYER Baffinland	ALTERNATE CONTACT ext. 6016
REPORT LINE USE ONLY				
N	RECEIVED AT SPILL LINE BY	POSITION STATION OPERATOR	EMPLOYER	LOCATION CALLED YELLOWKNIFE, NT
LEAD AGENCY <input type="checkbox"/> EC <input type="checkbox"/> CCG <input type="checkbox"/> GNWT <input type="checkbox"/> GN <input type="checkbox"/> ILA <input type="checkbox"/> INAC <input type="checkbox"/> NEB <input type="checkbox"/> TC			SIGNIFICANCE <input type="checkbox"/> MINOR <input type="checkbox"/> MAJOR <input type="checkbox"/> UNKNOWN	
AGENCY			FILE STATUS <input type="checkbox"/> OPEN <input type="checkbox"/> CLOSED	
CONTACT NAME			REMARKS	
CONTACT TIME				
LEAD AGENCY				
FIRST SUPPORT AGENCY				
SECOND SUPPORT AGENCY				
THIRD SUPPORT AGENCY				

Figure 2 – NT-NU Spill report



May 23, 2018

Resource Management Officer
Nunavut Field Operations
Indigenous and Northern Affairs Canada
Box 100
Iqaluit, NU X0A 0H0
Jonathan.mesher@aandc-aadnc.gc.ca

Manager, Major Projects
Qikiqtani Inuit Association
P.O. Box 219
Iqaluit, NU X0A 0H0

Re: Follow-up to Spill #18-131, Reported on April 23, 2018
Mary River Project - Water Licence No. 2AM-MRY1325

Summary:

On April 23, 2018 at approximately 05:30 hrs, it was noted that there was sewage seeping from under the snow at the Mine Site Complex (MSC) AE South wing. Upon investigation, it was determined the leak was coming from the discharge line of the lift station. Approximately 250 liters of raw sewage was released and confined to the camp pad adjacent to the lift station, impacting an approximate area of 10m².

Immediate and Follow-Up Action:

The lift station pumps were immediately shut off to prevent further release of raw sewage. The lift station was pumped down via vacuum truck and this practice continues until repairs can be made to the discharge line.

Recommendations:

Continued monitoring of lift station levels to ensure contents are emptied via vacuum truck and delivered to waste water treatment plant. Provide additional structural support under connection points on horizontal lines to reduce stress at the coupling as required once commissioned.

Current Status:

The repair of the gravity line is scheduled to be completed once materials are available and weather is favorable.

Should you require further information or clarification on the above noted spill, please contact William Bowden or Connor Devereaux at (647) 253-0596 x6016.

Prepared by:

A handwritten signature in black ink, appearing to read "C Paquette".

Connor Paquette
Environmental Technician

Reviewed by:

A handwritten signature in black ink, appearing to read "Connor Devereaux".

Connor Devereaux
Environmental Superintendent

Attach: Photos, Map, NT-NU Spill Report

cc. William Napier, Grant Goddard, Sylvain Proulx, Gerald Rogers, Francois Gaudreau, Tim Sewell, Megan Lorde Hoyle, William Bowden, (Baffinland), Stephen Bathory (QIA), Ian Parsons, Jeremy Fraser (INAC)



Photo 1. Discharge line in need of repair for approx. 20 feet



Photo 2. Discharge pipe problematic location



Figure 1. Geographical Location of the release



Canada

NT-NU SPILL REPORT

OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS

NT-NU 24-HOUR SPILL REPORT LINE

TEL: (867) 920-8130

FAX: (867) 873-8924

EMAIL: spills@gov.nt.ca

REPORT LINE USE ONLY

A	REPORT DATE: MONTH - DAY - YEAR 04-23-2018	REPORT TIME 20:30	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # TO THE ORIGINAL SPILL REPORT	REPORT NUMBER 18 - 131
B	OCCURRENCE DATE: MONTH - DAY - YEAR 04-23-2018	OCCURRENCE TIME 05:30		
C	LAND USE PERMIT NUMBER (IF APPLICABLE) IOL - Commercial Lease: Q13C301	WATER LICENCE NUMBER (IF APPLICABLE) 2AM-MRY1325 Type "A"		
D	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION Mary River Mine Site, Baffin Island, NU		REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN	
E	LATITUDE DEGREES 71 MINUTES 18 SECONDS 53		LONGITUDE DEGREES 79 MINUTES 16 SECONDS 57	
F	RESPONSIBLE PARTY OR VESSEL NAME Baffinland Iron Mines Corp.	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION 2275 Middle Road East, Suite 300, Oakville, ON L6H 0C3		
G	ANY CONTRACTOR INVOLVED N/A	CONTRACTOR ADDRESS OR OFFICE LOCATION N/A		
H	PRODUCT SPILLED Raw Sewage	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES Approx 250 L	U.N. NUMBER N/A	
	SECOND PRODUCT SPILLED (IF APPLICABLE) N/A	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES N/A	U.N. NUMBER N/A	
I	SPILL SOURCE Lift Station	SPILL CAUSE Pipe Failure	AREA OF CONTAMINATION IN SQUARE METRES 10m2	
J	FACTORS AFFECTING SPILL OR RECOVERY Congested area, snow and ice	DESCRIBE ANY ASSISTANCE REQUIRED N/A	HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT N/A	
K	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS On April 23, 2018 at approximately 05:30 hrs, it was noted that there was sewage observed seeping from under the snow at the Mine Site Complex (MSC) AE South wing. Upon investigation, it was determined the leak was coming from the discharge line of the lift station. The lift station pumps were immediately shut off to prevent further release of raw sewage. The lift station was pumped down via vacuum truck and this practice will continue until repairs are completed. Approximately 250 liters of sewage was released and confined to the camp pad adjacent to the lift station, impacting an approximate area of 10m2. This spill is >100 m to the nearest water course (which is currently frozen). The investigation is ongoing and further details will be provided in the follow-up report. This spill is being reported as required by the conditions of NWT Water License no. 2AM-MRY1325, Part H, Item 9 (b) pursuant to subsection 12(3) of the Nunavut Waters and Nunavut Surface Rights Tribunal Act.			
L	REPORTED TO SPILL LINE BY Connor Devereaux	POSITION Env. Superintendent	EMPLOYER Baffinland	LOCATION CALLING FROM Mary River
M	ANY ALTERNATE CONTACT Tim Sewell	POSITION Head of HSE	EMPLOYER Baffinland	ALTERNATE TELEPHONE ext. 6016
REPORT LINE USE ONLY				
N	RECEIVED AT SPILL LINE BY	POSITION STATION OPERATOR	EMPLOYER	LOCATION CALLED YELLOWKNIFE, NT
LEAD AGENCY <input type="checkbox"/> EC <input type="checkbox"/> CCG <input type="checkbox"/> GNWT <input type="checkbox"/> GN <input type="checkbox"/> ILA <input type="checkbox"/> INAC <input type="checkbox"/> NEB <input type="checkbox"/> TC			SIGNIFICANCE <input type="checkbox"/> MINOR <input type="checkbox"/> MAJOR <input type="checkbox"/> UNKNOWN	
AGENCY			FILE STATUS <input type="checkbox"/> OPEN <input type="checkbox"/> CLOSED	
CONTACT NAME		CONTACT TIME	REMARKS	
LEAD AGENCY				
FIRST SUPPORT AGENCY				
SECOND SUPPORT AGENCY				
THIRD SUPPORT AGENCY				

Figure 2 – NT-NU Spill report



May 24, 2018

Resource Management Officer
Nunavut Field Operations
Indigenous and Northern Affairs Canada
Box 100
Iqaluit, NU X0A 0H0
Jonathan.mesher@aandc-aadnc.gc.ca

Manager, Major Projects
Qikiqtani Inuit Association
P.O. Box 219
Iqaluit, NU X0A 0H0

Re: Follow-up to Spill #18-140, Reported on April 24, 2018 Mary River Project - Water Licence No. 2AM-MRY1325

Summary:

On April 24, 2018 at approximately 22:00 hrs, while conducting inspections of the MSC lift stations, a housing maintainer observed frozen water outside the AD wing south lift station. Upon investigation, it was determined that the gravity drain line from the wing had separated at the coupling, resulting in raw sewage discharging to the ground. Immediately upon discovering the release the sources to the affected wing were shut off while the coupling was repaired. Approximately 250 L of sewage was released to the adjacent camp pad ground surface, impacting an approximate area of 20 m². The coupling and gravity line was subsequently reconnected and the system was brought back into operation. The contaminated snow was collected and properly disposed of in the polishing waste stabilization pond. This spill is >100 m to the nearest water course (which is currently frozen).

Immediate and Follow-Up Action:

The lift station was immediately emptied by vacuum truck to prevent further overflow. The contaminated snow was collected and deposited in an engineered lined containment facility to the extent possible.

Recommendations:

Procure horizontal flow fittings for install on gravity line. Continue inspections of lift stations to ensure components are functioning as designed.

Current Status:

The lift station is currently back in operation and inspected twice-daily.

Should you require further information or clarification on the above noted spill, please feel free to contact William Bowden or Connor Devereaux at (647)253-0596 x6016

Prepared By:

A handwritten signature in black ink, appearing to read "B. Lukeman".

Bryan Lukeman
Environmental Coordinator

Reviewed by:

A handwritten signature in black ink, appearing to read "Connor Devereaux".

Connor Devereaux
Environmental Superintendent

Attach: Map, Photos, and Initial NT-NU Spill Report

cc. Grant Goddard, William Napier, Sylvain Proulx, Gerald Rogers, Francois Gaudreau, Tim Sewell,
William Bowden (Baffinland) Stephen Bathory (QIA) Ian Parsons, Jeremy Fraser (INAC)



Photo 1: Gravity drain line following repair of the separated coupling.



Figure 1 – Map of spill location



Canada

NT-NU SPILL REPORT

OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS

NT-NU 24-HOUR SPILL REPORT LINE

TEL: (867) 920-8130

FAX: (867) 873-6924

EMAIL: spills@gov.nt.ca

REPORT LINE USE ONLY

A	REPORT DATE: MONTH - DAY - YEAR 04-24-2018	REPORT TIME 19:00	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT		REPORT NUMBER 18 140
B	OCCURRENCE DATE: MONTH - DAY - YEAR 04-23-2018		OCCURRENCE TIME 22:00		
C	LAND USE PERMIT NUMBER (IF APPLICABLE) IOL - Commercial Lease: Q13C301		WATER LICENSE NUMBER (IF APPLICABLE) 2AM-MRY1325 Type "A"		
D	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION Mary River Mine Site, Baffin Island, NU		REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN		
E	LATITUDE DEGREES 71 MINUTES 18 SECONDS 53		LONGITUDE DEGREES 79 MINUTES 17 SECONDS 10		
F	RESPONSIBLE PARTY OR VESSEL NAME Baffinland Iron Mines Corp.	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION 2275 Middle Road East, Suite 300, Oakville, ON L6H 0C3			
G	ANY CONTRACTOR INVOLVED N/A	CONTRACTOR ADDRESS OR OFFICE LOCATION N/A			
H	PRODUCT SPILLED Raw Sewage	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES Approx. 250L	U.N. NUMBER N/A		
	SECOND PRODUCT SPILLED (IF APPLICABLE) N/A	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES N/A	U.N. NUMBER N/A		
I	SPILL SOURCE Lift Station	SPILL CAUSE Influent to lift station	AREA OF CONTAMINATION IN SQUARE METRES 20m2		
J	FACTORS AFFECTING SPILL OR RECOVERY Congested area, snow and ice	DESCRIBE ANY ASSISTANCE REQUIRED N/A	HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT N/A		
K	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS On April 24, 2018 at approximately 22:00 hrs, a worker observed frozen water outside the AD wing south lift station. Upon initial investigation, it was determined that the gravity drain line from the wing had separated at a coupling. Sources to the affected wing were immediately shut off while the coupling was repaired. Approximately 250L of sewage was released to the adjacent camp pad ground surface, impacting an approximate area of 20m2. The coupling and gravity line was subsequently reconnected and the system is back in operation. The contaminated snow will be properly disposed of in the polishing waste stabilization pond. This spill is >100 m to the nearest water course (which is currently frozen). The investigation is ongoing and further details will be provided in the follow-up report. This spill is being reported as required by the conditions of NWB Water License no. 2AM-MRY1325, Part H, item 9 (b) pursuant to subsection 12(3) of the Nunavut Waters and Nunavut Surface Rights Tribunal Act.				
L	REPORTED TO SPILL LINE BY Connor Devereaux	POSITION Env. Superintendent	EMPLOYER Baffinland	LOCATION CALLING FROM Mary River	TELEPHONE 416 364 8820
M	ANY ALTERNATE CONTACT Tim Sewell	POSITION Head of HSE	EMPLOYER Baffinland	ALTERNATE CONTACT LOCATION	ALTERNATE TELEPHONE ext. 6016
REPORT LINE USE ONLY					
N	RECEIVED AT SPILL LINE BY	POSITION STATION OPERATOR	EMPLOYER	LOCATION CALLED YELLOWKNIFE, NT	REPORT LINE NUMBER (867) 920-8130
LEAD AGENCY <input type="checkbox"/> EC <input type="checkbox"/> CCG <input type="checkbox"/> GNWT <input type="checkbox"/> GN <input type="checkbox"/> ILA <input type="checkbox"/> INAC <input type="checkbox"/> NER <input type="checkbox"/> TC			SIGNIFICANCE <input type="checkbox"/> MINOR <input type="checkbox"/> MAJOR <input type="checkbox"/> UNKNOWN		FILE STATUS <input type="checkbox"/> OPEN <input type="checkbox"/> CLOSED
AGENCY		CONTACT NAME	CONTACT TIME	REMARKS	
LEAD AGENCY					
FIRST SUPPORT AGENCY					
SECOND SUPPORT AGENCY					
THIRD SUPPORT AGENCY					

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Figure 2 – NT-NU Spill report



May 26, 2018

Resource Management Officer
Nunavut Field Operations
Indigenous and Northern Affairs Canada
Box 100
Iqaluit, NU X0A 0H0
Jonathan.mesher@aadnc-aadnc.gc.ca

Manager, Major Projects
Qikiqtani Inuit Association
P.O. Box 219
Iqaluit, NU X0A 0H0

Re: Follow-up to Spill #18-141, Reported on April 27, 2018
Mary River Project - Water Licence No. 2AM-MRY1325

Summary:

On April 26, 2018 at approximately 09:00 hrs during a routine inspection, housing maintenance found a leak at the Weather Haven Complex at the Mine Site. Upon initial investigation, it was determined that the discharge line sourcing from the dry lift station had separated at a coupling. The coupling was immediately repaired and bump tested to ensure a tight seal. Approximately 300L of sewage was released to the adjacent camp pad ground surface, impacting an approximate area of 15m². The location of the spill was confined to the Weatherhaven Camp pad and is greater than 100 metres from the closest water body which is currently frozen.

Immediate and Follow-Up Action:

The coupling was repaired and the discharge line subsequently reconnected. The coupling was bump tested before the system was put back into service. Contaminated snow and ice was removed and disposed of at the Polishing Waste Stabilization Pond.

Recommendations:

Procure fit for use horizontal flow fittings for install on discharge line. Continued daily lift station inspections of the system, and continued snow/ ice removal during these inspections to prevent build-up and pressure on the couplings.

Current Status:

The lift station is currently back in operation and inspected regularly.

Should you require further information or clarification on the above noted spill, please feel free to contact William Bowden or Connor Devereaux at (647) 253-0596 x6016.

Prepared By:

A handwritten signature in black ink, appearing to read "Bryan Lukeman".

Bryan Lukeman
Environmental Coordinator

Reviewed by:

A handwritten signature in black ink, appearing to read "Connor Devereaux".

Connor Devereaux
Environmental Superintendent

Attach: Photos, Map, NT-NU Spill Report

cc. Grant Goddard, William Napier, Sylvain Proulx, Gerald Rogers, Francois Gaudreau, Tim Sewell, William Bowden, Megan Lord Hoyle (Baffinland), Stephen Bathory (QIA), Ian Parsons, Jeremy Fraser (INAC)



Photo 1. Spill location before repairs are made



Photo 2. Lift station discharge line after repairs were completed.



Figure 1 – Map of spill location



Canada

NT-NU SPILL REPORT

OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS

NT-NU 24-HOUR SPILL REPORT LINE

TEL: (867) 920-8130

FAX: (867) 873-6924

EMAIL: spills@gov.nt.ca

REPORT LINE USE ONLY

A	REPORT DATE: MONTH - DAY - YEAR 04-27-2018	REPORT TIME 15:00	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT	REPORT NUMBER 18 141
B	OCCURRENCE DATE: MONTH - DAY - YEAR 04-26-2018	OCCURRENCE TIME 09:00		
C	LAND USE PERMIT NUMBER (IF APPLICABLE) IOL - Commercial Lease: Q13C301	WATER LICENSE NUMBER (IF APPLICABLE) 2AM-MRY1325 Type "A"		
D	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION Mary River Mine Site, Baffin Island, NU		REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN	
E	LATITUDE DEGREES 71 MINUTES 19 SECONDS 33		LONGITUDE DEGREES 79 MINUTES 22 SECONDS 32	
F	RESPONSIBLE PARTY OR VESSEL NAME Baffinland Iron Mines Corp.	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION 2275 Middle Road East, Suite 300, Oakville, ON L6H 0C3		
G	ANY CONTRACTOR INVOLVED N/A	CONTRACTOR ADDRESS OR OFFICE LOCATION N/A		
H	PRODUCT SPILLED Raw Sewage	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES Approx. 300 L	U.N. NUMBER N/A	
	SECOND PRODUCT SPILLED (IF APPLICABLE) N/A	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES N/A	U.N. NUMBER N/A	
I	SPILL SOURCE Weatherhaven dry lift station	SPILL CAUSE Failure of discharge line	AREA OF CONTAMINATION IN SQUARE METRES 15m2	
J	FACTORS AFFECTING SPILL OR RECOVERY Congested area, snow and ice	DESCRIBE ANY ASSISTANCE REQUIRED N/A	HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT N/A	
K	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS On April 26, 2018 at approximately 09:00 hrs, during a routine inspection, housing maintenance found a leak at the Weather Haven Complex at the Mine Site. Upon initial investigation, it was determined that the discharge line sourcing from the dry lift station had separated at a coupling. The coupling was immediately repaired and bump tested to ensure a tight seal. Approximately 300L of sewage was released to the adjacent camp pad ground surface, impacting an approximate area of 15m2. The coupling and discharge line was subsequently reconnected and the system is back in operation. The location of the spill was confined to the Weatherhaven Camp pad and is greater than 100 metres from the closest water body which is currently frozen. The investigation is ongoing and further details will be provided in the follow-up report. This spill is being reported as required by the conditions of NWB Water License no. 2AM-MRY1325, Part H, item 9 (b) pursuant to subsection 12(3) of the Nunavut Waters and Nunavut Surface Rights Tribunal Act.			
L	REPORTED TO SPILL LINE BY William Bowden	POSITION Env. Superintendent	EMPLOYER Baffinland	LOCATION CALLING FROM Mary River
M	ANY ALTERNATE CONTACT Tim Sewell	POSITION Head of HSE	EMPLOYER Baffinland	ALTERNATE CONTACT ext. 6016
REPORT LINE USE ONLY				
N	RECEIVED AT SPILL LINE BY STATION OPERATOR	POSITION	EMPLOYER	LOCATION CALLED YELLOWKNIFE, NT
LEAD AGENCY <input type="checkbox"/> EC <input type="checkbox"/> CCG <input type="checkbox"/> GNWT <input type="checkbox"/> GN <input type="checkbox"/> ILA <input type="checkbox"/> INAC <input type="checkbox"/> NER <input type="checkbox"/> TC		SIGNIFICANCE <input type="checkbox"/> MINOR <input type="checkbox"/> MAJOR <input type="checkbox"/> UNKNOWN		FILE STATUS <input type="checkbox"/> OPEN <input type="checkbox"/> CLOSED
AGENCY	CONTACT NAME	CONTACT TIME	REMARKS	
LEAD AGENCY				
FIRST SUPPORT AGENCY				
SECOND SUPPORT AGENCY				
THIRD SUPPORT AGENCY				

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Figure 2 – NT-NU Spill report



May 29, 2018

Resource Management Officer
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Jonathan.mesher@aadnc-aadnc.gc.ca

Manager, Major Projects
Qikiqtani Inuit Association
P.O. Box 219
Iqaluit, NU X0A 0H0

Re: Follow-up to Spill #18-145, Reported on April 29, 2018
Mary River Project - Water Licence No. 2AM-MRY1325

Summary:

At 19:00 HRS on April 29th, security informed Site Services supervisor of a leak at the AD wing fuel tank. Upon arrival, the supervisor discovered a flow of fuel coming from the venting cap at the top of the tank. Upon initial investigation, it was discovered that the float for the fuel tank had failed due to a compromised electrical wire and approximately 0.5m³ of diesel fuel was released onto the camp pad, impacting an area approximately 23m². An investigation determined that due to a compromised wire that provided power for the float switch, the float failed causing the day tank pumps to continually be operating. As the supply of fuel exceeded the demand, the day tank filled and excess fuel returned to the main tank through a two inch return line. An audible quarter inch orifice whistle fitting, which was installed on the two-inch line (red fitting under the main vent camp), did not allow the fuel to return at the same rate and the fuel overflowed through the vent on the main tank.

Immediate and Follow-Up Action:

The supervisor shut off the valves immediately, which stopped the release and initiated spill response. Snow berms were constructed and absorbent pads confined the spill to an area directly beside the fuel tank. The emergency response truck was deployed to collect the remaining fuel into a tote. The contaminated material was subsequently scraped up and placed in quatrex bags.

Recommendations:

A retrofit of the remaining fuel tank systems across site to isolate the audible orifice whistle fitting and vent piping to another manifold on the tank and pipe the return line directly into the tank to ensure a closed loop even if float switches failed again.

Current Status:

AD wing fuel tank has been retrofitted with new design to enable continued circulation of fuel. The whistle was moved to a new location, along with the vent cap, to ensure continual recirculation between the tank and the pump if float failure were to occur. Parts are being procured for the retrofit of all fuel day tanks at the Mine Site and Port Site complexes.

Should you require further information or clarification on the above noted spill, please feel free to contact William Bowden or Connor Devereaux at (647) 253-0596 x6016.

Prepared by:

A handwritten signature in black ink, appearing to read "Benjamin Widdowson".

Ben Widdowson
Environmental Coordinator

Reviewed by:

A handwritten signature in black ink, appearing to read "Connor Devereaux".

Connor Devereaux
Environmental Superintendent

Attach: Photos, Map, NT-NU Spill Report

cc. Grant Goddard, Sylvain Proulx, Gerald Rogers, Francois Gaudreau, Tim Sewell, William Bowden (Baffinland), Stephen Bathory (QIA), Ian Parsons, Jeremy Fraser (INAC)



Photo 1. Spill location before clean-up



Photo 2. Spill location after cleanup



Photo 3. Vent pipe and whistle before retrofit



Photo 4. Retrofit implemented on main tank



Photo 5. Return line without audible whistle fitting on main tank



Figure 1 – Map of spill location