

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
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Manager, Major Projects
Qikiqtani Inuit Association
P.O. Box 219
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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:

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. 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) 873-8924

EMAIL: spills@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

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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) 873-6924

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 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	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



May 24, 2018

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Qikiqtani Inuit Association
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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 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 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"/> 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



May 26, 2018

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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 #18-141, 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
	OCCURRENCE DATE: MONTH - DAY - YEAR 04-26-2018		OCCURRENCE TIME 09:00			
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 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 <p>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.</p>					
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 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



May 29, 2018

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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



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 04-30-2018	REPORT TIME 19:00	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT	REPORT NUMBER 18 - 145
B	OCCURRENCE DATE: MONTH - DAY - YEAR 04-29-2018	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 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 Diesel Fuel	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES Approx. 0.5 m3	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 AD Wing Fuel Transfer Tank	SPILL CAUSE Float Failure	AREA OF CONTAMINATION IN SQUARE METRES 23m2	
J	FACTORS AFFECTING SPILL OR RECOVERY N/A	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 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. The supervisor shut off the valves immediately, which stopped the release, and initiated spill response. Upon initial investigation, it was discovered that the float for the fuel tank had failed and approximately 0.5m3 of diesel fuel was released onto the camp pad, impacting an area approximately 23m2. Snow berms and spill sorbents confined the spill to an area directly beside the fuel tank. The fuel was collected into a tote and contaminated material placed in quatrex bags. This spill is >100 meters from the nearest water course (which is currently frozen). The investigation is ongoing and further details of the incident 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 647-253-0596
M	ANY ALTERNATE CONTACT Tim Sewell	POSITION Head of HSE	EMPLOYER Baffinland	ALTERNATE CONTACT 647-253-0596
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 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



May 30, 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 #18-148
Mary River Project - Water Licence No. 2AM-MRY1325

Summary:

On April 30 at 11:00 Hrs, a vac truck operator discovered water around the outside of the wasting door at the new Waste Water Treatment Plant (WWTP). Upon investigation, it was discovered that the wasting pump had overfilled the tank, overflowing through the door onto the surrounding camp pad. Approximately 1.3 m³ of raw sewage was released and confined to the adjacent pad. Due to a communication breakdown, one WWTP operator had manually overridden the system and failed to communicate the change to his colleague operator. This caused the wasting pumps to operate permanently, not on a timed cycle, resulting in the overflow.

Immediate and Follow-Up Action:

The power to the plant was shut off and the WWTP operators were called. A vacuum truck was utilised to recover and remove the raw sewage in the plant. The contaminated snow around the plant was excavated and placed in the PWSP for storage and potential future treatment during the open water season.

Recommendations:

All operators at sewage plants need to be in communication throughout the day with systematic checks. It is not common practice to have two operators in the WWTP; any changes in the system must be verified by both operators through a Standard Operating Procedure (SOP). All contractors operating both the WWTP and WTP must follow and implement.

Current Status:

A Standard Operating Procedure for the WWTP and WTP is in progress. This procedure includes a walk down prior to any shutdown, additional training of any new operator that comes on site, and cross signage of operators if more than one operator is on shift.

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, Baffinland NT-NU Spill Report
cc. Grant Goddard, Sylvain Proulx, Tim Sewell, Connor Devereaux, Gerald Rogers, Francois Gaudreau (Baffinland), Stephen Bathory (QIA), Ian Parsons, Jeremy Fraser (INAC).



Photo 1. Overflow spill on ground surrounding the WWTP



Photo 2. Surrounding the 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) 920-8130

FAX: (867) 873-6924

EMAIL: spills@gov.nt.ca

REPORT LINE USE ONLY

A	REPORT DATE: MONTH – DAY – YEAR 05-01-2018	REPORT TIME 18:00	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT	REPORT NUMBER 18 - 148
B	OCCURRENCE DATE: MONTH – DAY – YEAR 04-30-2018	OCCURRENCE TIME 10:45		
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 85		LONGITUDE DEGREES 79 MINUTES 17 SECONDS 98	
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 Horizon, Newterra	CONTRACTOR ADDRESS OR OFFICE LOCATION N/A		
H	PRODUCT SPILLED Sewage	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES Approximately 1.3 m3	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 Wasting Tank Overflow	AREA OF CONTAMINATION IN SQUARE METRES 25m2	
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 April 30, 2018 at 10:45 Hrs a vac truck operator was approaching the new wastewater treatment plant (WWTP) at the Mine Site and observed a release of liquid from the wasting room door. The operator notified Supervision and the WWTP operator. The pumps were immediately shut off. Upon initial investigation, it was determined that an automatic shutoff for the waste tank pump failed to engage resulting in an overflow of the wasting tank. Approximately 1.3m3 of sewage was released and confined to the WWTP pad, impacting an area of approximately 25m2. Contaminated material was disposed of in a lined engineered containment facility. The spill 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 TELEPHONE 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"/> 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



June 3, 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 #18-153
Mary River Project - Water Licence No. 2AM-MRY1325

Summary:

On May 4th, 2018, 20:00 Hrs, an Environment Department employee observed discoloured water near Lift Station 5 at AE Wing North. It was determined to be sewage upon inspection. Housing Maintenance and Surface Works Supervision was notified immediately. The source of the spill was an overflow of lift station 5. The lift station was being discharged through a regular vacuum truck schedule however due to an error in the implementation of this schedule the overflow occurred. Communications and associated vacuum truck scheduling procedures are being revised to prevent an overflow reoccurrence. Approximately 250 Litres impacted the adjacent MSC pad to the lift station migrating over an area of approx. 15m². The spill is >100 m from the nearest water body which is currently frozen.

Immediate and Follow-Up Action:

The Environment Department contacted Fixed Plant Housing Maintainers and the lift station was emptied with the Vacuum truck. Contaminated material was removed and disposed of. Implementation of a regular prescribed lift station vacuum truck schedule continues.

Recommendations:

To mitigate re-occurrence due to similar circumstances additional check and balances have been implemented to the vacuum truck scheduling protocols. Additional supervision for contractor and BIM vacuum truck operators and the prescribed schedule was implemented to support business needs.

Current Status:

The lift station is currently operational. Robust discharge vacuum truck scheduling protocols with revised checks and balances have been implemented to prevent a reoccurrence. Regular daily inspections of lift stations 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 "Benjamin Widdowson".

Ben Widdowson
Environmental Coordinator

Reviewed by:

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

William Bowden and Gordon Mudryk
Environmental Superintendent and Site Services Manager

Attach: Photos, Map, Baffinland NT-NU Spill Report
cc. Grant Goddard, Sylvain Proulx, Tim Sewell, Connor Devereaux, Gerald Rogers, Francois Gaudreau (Baffinland), Stephen Bathory (QIA), Ian Parsons, Jeremy Fraser (INAC).



Photo 1. AE Lift Station after clean up

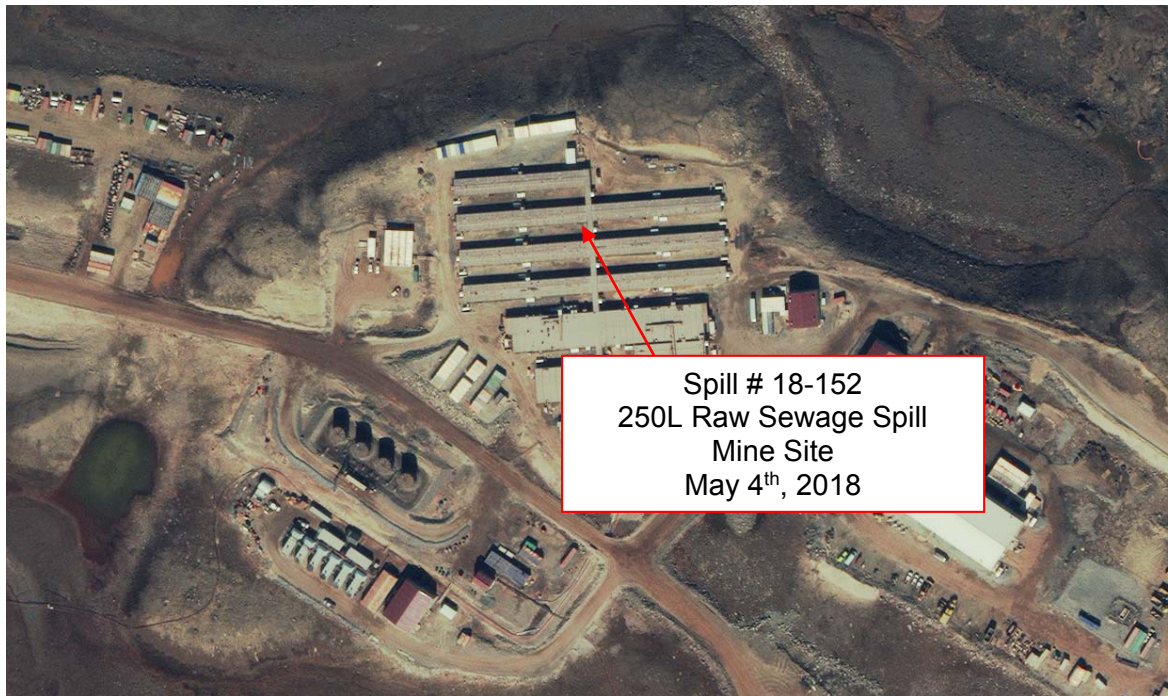


Figure 1. Map of spill location



Canada

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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 05-04-2018	REPORT TIME 21:00	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT		REPORT NUMBER 18 - 153
B	OCCURRENCE DATE: MONTH - DAY - YEAR 05-03-2018	OCCURRENCE TIME 20:00			
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 71 MINUTES 18 SECONDS 53		LONGITUDE DEGREES 79 MINUTES 17 SECONDS 03		
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		
H	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 failure	AREA OF CONTAMINATION IN SQUARE METRES Approx. 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 At 20:00 Hrs on May 3, 2018, an Environment Department employee observed water near the Lift station 5 at AE Wing North. The cause of the spill is unknown it was observed that the discharge line was cracked and the pumps were disengaged. The vac truck was called and the lift station was pumped down to prevent any further release. Approximately 250 Litres impacted the adjacent MSC pad to the lift station migrating over an area of approx. 15m2. 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	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"/> GRWT <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. Baffinland NT NU spill report



June 5, 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 #18-154
Mary River Project - Water Licence No. 2AM-MRY1325

Summary:

On May 5, 2018 at 11:00 Hrs a vac truck operator was approaching the new wastewater treatment plant (WWTP) at the Mine Site and observed liquid leaking from the effluent tank door. Upon investigation, it was determined that the effluent tank had overflowed and approximately 0.5m³ of treated effluent was released to the WWTP pad, impacting an area of approximately 10m². Communications and associated vacuum truck scheduling procedures are being revised to prevent an overflow reoccurrence. The location is >100m to the nearest water course which was frozen.

Immediate and Follow-Up Action:

The WWTP operator instructed the vacuum truck to bring down the levels of the effluent tank to prevent over flow immediately. Contaminated material was removed with an excavator and disposed of.

Recommendations:

It was recommended that a Standard Operating Procedure (SOP) be implemented to define operational check and balances of the plant while ensuring all communication and responsibility requirements of an operating WWTP and discharge system are clearly outlined. An audio alarm system was recommended for installation to warn of high tank levels

Current Status:

An SOP was developed and implemented that verifies tank levels and operational checks. An audio alarm has been ordered to mitigate potential overflow occurrences. Communication strategies have been defined and primary responsibilities assigned to ensure that all WWTP parties are coordinated through Project site services. A permit to work system was implemented for the WWTP which defines the above.

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 "Bill Bowden".

William Bowden
Environmental Superintendent

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

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



Photo 1. WWTP Before clean up



Photo 2. AE Lift Station after 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 05-06-2018	REPORT TIME 13:00	<input type="checkbox"/> ORIGINAL SPILL REPORT, OR <input checked="" type="checkbox"/> UPDATE # 18-154 TO THE ORIGINAL SPILL REPORT	REPORT NUMBER 18 - 154
	OCCURRENCE DATE: MONTH - DAY - YEAR 05-05-2018	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 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 84		LONGITUDE DEGREES 79 MINUTES 17 SECONDS 93	
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 Horizon	CONTRACTOR ADDRESS OR OFFICE LOCATION N/A		
H	PRODUCT SPILLED Treated Effluent	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES Approximately 0.5m3	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 Effluent Tank Overflow	AREA OF CONTAMINATION IN SQUARE METRES 10m2	
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 May 5, 2018 at 11:00 Hrs a vac truck operator was approaching the new wastewater treatment plant (WWTP) at the Mine Site and observed liquid leaking from the effluent tank door. The operator then called his supervisor and the WWTP operator. The operator was instructed to vacuum down the tank to prevent further spillage. Upon investigation, it was determined that the effluent tank had overflowed and approximately 0.5m3 of treated effluent was released to the WWTP pad, impacting an area of approximately 10m2. Contaminated material was removed and disposed of. 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 TELEPHONE 416 364 8820
M	ANY ALTERNATE CONTACT Tim Sewell	POSITION Head of HSE	EMPLOYER Baffinland	ALTERNATE CONTACT LOCATION 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"/> 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