



Spill #18-463
0.5m³ Raw Sewage Release
Mary River Mine Site
November 25, 2018

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	REPORT TIME	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT	REPORT NUMBER 18 463
	11-25-2018	18:00		
B	OCCURRENCE DATE: MONTH - DAY - YEAR	OCCURRENCE TIME		
	11-25-2018	01:00		
C	LAND USE PERMIT NUMBER (IF APPLICABLE)	WATER LICENSE NUMBER (IF APPLICABLE)		
	IOL - Commercial Lease: Q13C301	2AM-MRY1325 Type "A"		
D	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION	REGION		
	Mary River Mine Site, Baffin Island, NU	<input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN		
E	LATITUDE	LONGITUDE		
	DEGREES 71 MINUTES 19 SECONDS 31	DEGREES 79 MINUTES 22 SECONDS 22		
F	RESPONSIBLE PARTY OR VESSEL NAME	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION		
	Baffinland Iron Mines Corp.	2275 Middle Road East, Suite 300, Oakville, ON L6H 0C3		
G	ANY CONTRACTOR INVOLVED	CONTRACTOR ADDRESS OR OFFICE LOCATION		
	N/A	N/A		
H	PRODUCT SPILLED	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES	U.N. NUMBER	
	Raw Sewage	Approx. 0.5 m3	N/A	
	SECOND PRODUCT SPILLED (IF APPLICABLE)	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES	U.N. NUMBER	
	N/A	N/A	N/A	
I	SPILL SOURCE	SPILL CAUSE	AREA OF CONTAMINATION IN SQUARE METRES	
	Vacuum Truck	Open Valve, Operator error	Approx. 140m2	
J	FACTORS AFFECTING SPILL OR RECOVERY	DESCRIBE ANY ASSISTANCE REQUIRED	HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT	
	Snow and Ice	N/A	N/A	
K	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS At ~01:00 Hrs on November 25, an operator was filling the vacuum truck with raw sewage from the RBC holding tank at the Mine Site. Upon completion, the operator placed the intake hose into travel position without closing the valve or attaching the end cap and started to drive away, which allowed sewage to drain out through the hose. The operator stopped the truck after a short distance to close the valve and prevent further release. Crews then initiated removal of contaminated snow/ice which was disposed of in the engineered lined containment facility. Approximately 0.5 m3 was released, impacting the road and covering an area of approx. 140 m2. The location of the spill is greater than 100 m from the nearest water body which is currently frozen. 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, and the GN EPA paragraph 5.1(a).			
L	REPORTED TO SPILL LINE BY	POSITION	EMPLOYER	LOCATION CALLING FROM
	Connor Devereaux	Env. Superintendent	Baffinland	Mary River
M	ANY ALTERNATE CONTACT	POSITION	EMPLOYER	ALTERNATE CONTACT LOCATION
	Tim Sewell	Head of HSE	Baffinland	ext. 6016
REPORT LINE USE ONLY				
N	RECEIVED AT SPILL LINE BY	POSITION	EMPLOYER	LOCATION CALLED
		STATION OPERATOR		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				

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Figure 2. Baffinland NT NU spill report



January 13, 2019

Resource Management Officer
Nunavut Field Operations
Crown-Indigenous Relations 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 #18-479, Reported on December 15, 2018
Mary River Project - Water Licence No. 2AM-MRY1325

Summary:

On December 14, a raw water truck was reported to have veered off the Tote Road and come to rest on its side at KM21. The Emergency Response Team (ERT) was dispatched to retrieve the driver and passenger, and to respond to a potential spill. Upon initial investigation, it was determined that approximately 100L of diesel fuel and 10L of hydraulic oil were released onto the snow covered tundra surface adjacent to the Tote Road, impacting approximately 75m². The source of the release was arrested and contained with no ability to migrate beyond the immediate impact area. The spill location was situated 90m away from Phillips Creek which is currently frozen.

Immediate and Follow-Up Action:

Upon arrival, the ERT worked swiftly to identify and arrest the source of release. The spill was successfully contained to the immediate impact area adjacent to the Tote Road with no further migration. Contaminated snow and ice was promptly segregated and clean up of the material was initiated. On December 15th personnel returned to auger the ice surrounding the contaminated area to ensure that water released from the damaged truck was frozen to prevent further potential spread during remedial excavation. On December 23rd the water truck was extracted from the side of the road with no further spills. The contaminated snow and ice was excavated and transported to a lined engineered containment facility at the Milne Port Site.

Recommendations:

A structured progressive driving training program is to be implemented for drivers with limited experience operating equipment on the Mary River Project.


Further signage will be installed on the Milne Inlet Tote Road to identify areas that are narrow.

Current Status:


An alternate water truck is currently in operation and the contaminated material removed and properly stored in containment.

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:


William Bowden
Environmental Superintendent

Reviewed By:


Jeff Bush
Surface Works Superintendent

Attach: Photos, Map, NT-NU Spill Report

cc. Tim Sewell, Grant Goddard, Sylvain Proulx, Gerald Rogers, Francois Gaudreau, Connor Devereaux (Baffinland), Fai Ndofor (QIA), Justin Hack, Jeremy Fraser (INAC)



Photo 1. Spill location, KM21.



Photo 2. Contaminated snow and ice removed from impacted area.

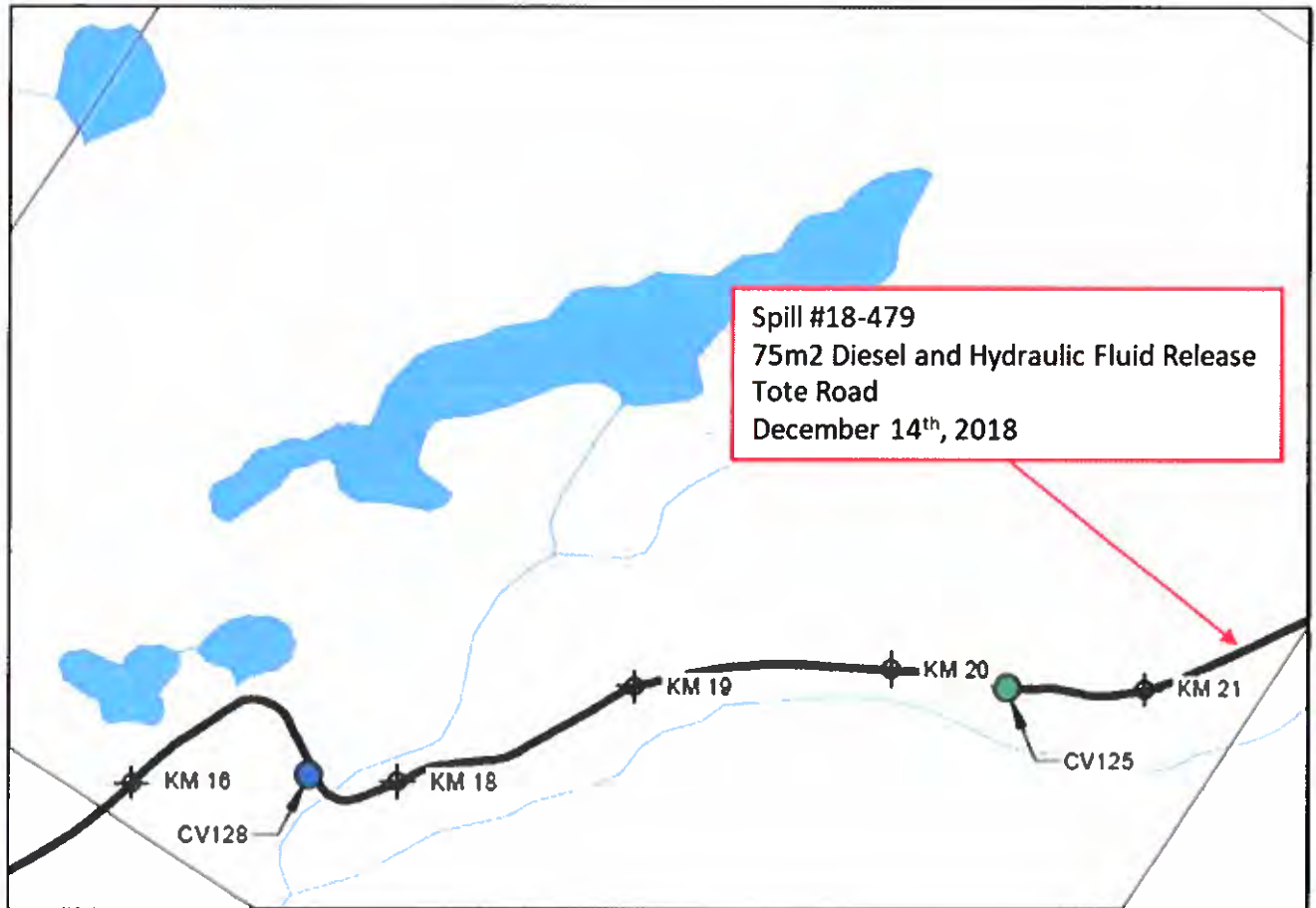


Figure 1 – Map of spill location.



NT-NU SPILL REPORT

OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS

NT-NU 24-HOUR SPILL REPORT LINE

TEL: (867) 920-8130

FAX: (867) 873-6024

EMAIL: spills@gov.nt.ca

REPORT LINE USE ONLY

A	REPORT DATE: MONTH - DAY - YEAR 12-15-2018	REPORT TIME 21:45	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT	REPORT NUMBER 18 479
B	OCCURRENCE DATE: MONTH - DAY - YEAR 12-14-2018	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 Project Tote Road, 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 46 SECONDS 02	LONGITUDE DEGREES 80 MINUTES 32 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 Diesel Fuel	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES 100L	U.N. NUMBER	
	SECOND PRODUCT SPILLED (IF APPLICABLE) Hydraulic Oil	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES 10L	U.N. NUMBER	
I	SPILL SOURCE Fluid compartments	SPILL CAUSE Vehicle Accident	AREA OF CONTAMINATION IN SQUARE METRES Approx. 75m2	
J	FACTORS AFFECTING SPILL OR RECOVERY Frozen conditions, 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 22:00 Hrs on December 14, a raw water truck was reported to have veered off the Tote Road and come to rest on its side at KM21. The Emergency Response Team was dispatched to retrieve the driver and passenger, and to respond to a potential spill. Upon initial investigation, it was determined that approximately 100L of diesel fuel and 10L of hydraulic oil were released onto the adjacent Tote Road cut area impacting approximately 75m2. The spilled substances have frozen in place in a historic borrow with no further migration. The spill location is 90m to Phillips Creek which is currently frozen. Once extraction of the water truck is complete all contaminated snow/ice will be removed and taken to the lined engineered containment facility. 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"/> CGG <input type="checkbox"/> GNWT <input type="checkbox"/> GN <input type="checkbox"/> IIA <input type="checkbox"/> INAC <input type="checkbox"/> NEB <input type="checkbox"/> CTC			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				

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Figure 2 – NT-NU Spill report



Jan 18, 2019

Water Resources Officer
Nunavut Field Operations
Crown Indigenous Relations and Northern Affairs Canada
Box 100
Iqaluit, NU X0A 0H0
Jonathan.Meshier@aandc-aadnc.gc.ca

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

Re: Follow-up to Spill #18-481
Mary River Project - Water Licence No. 2AM-MRY1325

Summary:

On December 18, 2018 at approximately 17:15 hrs, while conducting inspections of the MSC lift stations, a housing maintainer observed liquid behind the AC wing north lift station. Upon initial investigation, it was determined that the lift station had overflowed. The housing maintainer immediately engaged pump two to empty the lift station and prevent further overflow. Upon further investigation, the housing maintainer noticed the Fernco coupler had separated from the 4" gravity drain directly behind the lift station. Approximately 600L of sewage was released to the adjacent camp pad ground surface, impacting an approximate area of 15 m². This spill is >100 m to the nearest water course, which is currently frozen.

Immediate and Follow-Up Action:

The sewage release was immediately arrested, and the lift station holding tank pumped down to prevent further release. The contaminated snow was collected and deposited in an engineered lined containment facility. The coupling was repaired and the gravity line was subsequently reconnected.

Recommendations:

Continue daily inspections of lift stations and snow/ice removal from lines to mitigate potential releases.

Current Status:

The coupler has been repaired and the holding tank and pumps are operating as designed.

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

Prepared by:

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

Connor Devereaux
Environmental Superintendent

Reviewed by:

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

Jim Martin
Surface Works Superintendent

Attach: Photos, Map, Baffinland NT-NU Spill Report
cc. Grant Goddard, Sylvain Proulx, Tim Sewell, William Bowden, Gerald Rogers, Francois Gaudreau (Baffinland), Fai Ndofor, Sean Joseph (QIA), Justin Hack, Jeremy Fraser (CIRNAC).



Photo 1. Sewage release on camp pad adjacent to AC North lift station.

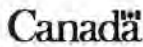


Photo 2. Contaminated snow removed from camp pad adjacent to AC North lift station.



Spill #18-481
0.6m³ Raw Sewage Release
Mary River Mine Site
December 19, 2018

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) 920-8150

FAX: (867) 873-6924

EMAIL: spills@gov.nt.ca

REPORT LINE USE ONLY

A	REPORT DATE: MONTH - DAY - YEAR 12-19-2018	REPORT TIME 16:30	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT OR <input type="checkbox"/> UPDATE # TO THE ORIGINAL SPILL REPORT	REPORT NUMBER 18 481
	B	OCCURRENCE DATE: MONTH - DAY - YEAR 12-18-2018		
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 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. 600L	U/I NUMBER N/A	
	SECOND PRODUCT SPILLED (IF APPLICABLE) N/A	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES N/A	U/I NUMBER N/A	
I	SPILL SOURCE Lift Station	SPILL CAUSE Influent to lift station	AREA OF CONTAMINATION IN SQUARE METRES Approx. 15 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 December 18, 2018 at approximately 17:15 hrs, while conducting inspections of the MSC lift stations, a housing maintainer observed liquid behind the AC wing north lift station. Upon initial investigation, it was determined that the lift station had overflowed. The housing maintainer immediately engaged pump two to empty lift station and prevent further overflow. Upon further investigation, the housing maintainer noticed the Fernco coupler had separated from the 4" gravity drain directly behind the lift station. Approximately 600L of sewage was released to the adjacent camp pad ground surface, impacting an approximate area of 15 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 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	
AGENCY			CONTACT NAME	CONTACT TIME
LEAD AGENCY			REMARKS	
FIRST SUPPORT AGENCY				
SECOND SUPPORT AGENCY				
THIRD SUPPORT AGENCY				

Figure 2. Baffinland NT NU spill report