

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



September 26, 2018

Resource Management Officer
Nunavut Field Operations
Crown-Indigenous Relations and Northern Affairs Canada
Box 100
Iqaluit, NU X0A 0H0
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Manager, Major Projects Qikiqtani Inuit Association P.O. Box 219 Iqaluit, NU X0A 0H0

Re: Follow-up to Spill #18-363, Reported on August 27, 2018

Mary River Project - Water Licence No. 2AM-MRY1325

Summary:

On August 27, personnel observed a release of Arctic diesel in the Bulk Fuel Tank Farm at the Mine Site. Upon initial investigation, a bulk fuel tank in a lined engineered containment facility experienced an overflow of diesel from the top of the tank during resupply operations. The fuel tanker resupply was immediately arrested upon overflow discovery and lines were isolated and closed from the fuel resupply module. Spill clean-up in the lined berm mitigated berm contamination. Approximately 1.1 m³ was released and contained in the lined engineered berm, with no possibility of migration outside of containment, and is >100 meters from the nearest water course.

Immediate and Follow-Up Action:

Upon notice of the overflow, the operator immediately shut off the tanker fuel pump, and closed all valves. Once flow had stopped, the valves between TK-001 and TK-002 were opened, allowing the fuel level in TK-001 to return to 91%. Standard operating procedures have been reviewed with operators and updated. Updates include: pre-offload and post-offload fuel percentages in tanks added to the Fuel Transfer sheets, and a secondary inspection of valve position before offloading fuel.

Recommendations:

Retrofit valve signage of valves to be larger and easily visible when in both OFF and ON positions.

Current Status:

The fuel module and fuel tanks are currently in operation and no further release has 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:

William Bowden

Bell Romoles

Environmental Superintendent

James Martin

Reviewed By:

Surface Works Superintendent

Attach: Photos, Map, NT-NU Spill Report

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



Photo 1. Spill location, TK-001.



Photo 2. Spill contained within fuel mod berm.

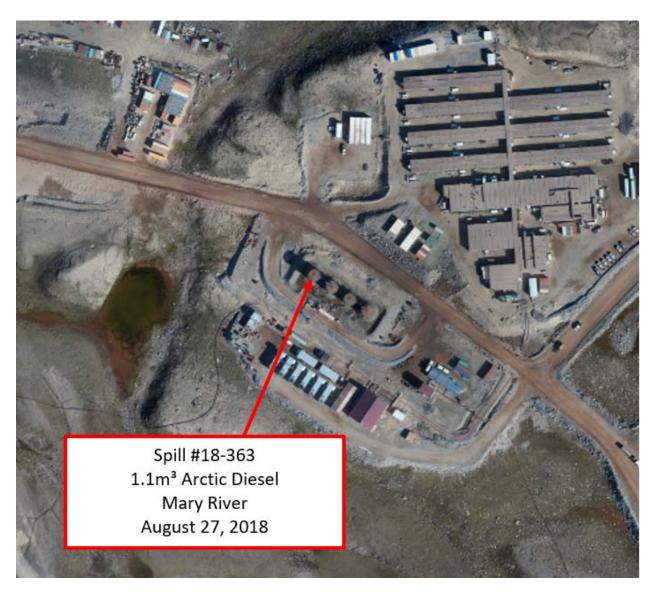


Figure 1 – Map of spill location.



NT-NU SPILL REPORT

IL CAROLINE CHEMICALS AND OTHER HAZADROLIS MATERIALS

NT-NU 24-HOUR SPILL REPORT LINE

TEL: (867) 920-8130 FAX: (867) 873-6924 EMAIL: spills@gov.nt.ca

A				en et en en en en et						
	REPORT DATE: MONTH - DAY - YEAR 08-28-2018			11:00		RIGINAL SPILL REPORT,	REPORT NUMBER			
	OCCURRENCE DATE: MONTH - D	AV_VEAR			OR	PDATE #	Production of the Control of the Con			
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С	LAND USE PERMIT NUMBER (IF A						000000000000000000000000000000000000000			
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F	RESPONSIBLE PARTY OR VESSE Baffinland Iron Mine		RESPONSIBLE I	ONSIBLE PARTY ADDRESS OR OFFICE LOCATION 75 Middle Road East, Suite 300, Oakville, ON L6H 0C3						
G	ANY CONTRACTOR INVOLVED N/A	N/A	ADDRESS (OR OFFICE LOCATION			0			
	PRODUCT SPILLED	QUANTITY IN LI	TRES, KILC	GRAMS OR CUBIC ME	TRES	U.N. NUMBER				
	Diesel Fuel		Approx.	1.1m3			N/A			
Н	SECOND PRODUCT SPILLED (IF A	APPLICABLE)	N/A	TRES, KILC	OGRAMS OR CUBIC ME	TRES	U.N. NUMBER N/A			
I	SPILL SOURCE MS Bulk Fuel Tank	1	SPILL CAUSE Tank ove	rflow			AREA OF CONTAMINATION	IN SQUARE METRES		
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PAGE 1 OF ___1__

Figure 2 – NT-NU Spill report



Nov 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 #18-436
Mary River Project - Water Licence No. 2AM-MRY1325

Summary:

At 17:45 Hrs on October 25, 2018, a housing maintainer observed water adjacent to the sewage holding tank for the Mobile Maintenance building at Milne Port. Upon investigation, it was determined that the toilet had a malfunctioning valve which caused the tank to overflow, releasing approximately 1m³ of raw sewage. The spill was confined to the laydown and is greater than 100 m from the nearest water body, which is currently frozen. A second minor release of approximately 40L from the holding tank occurred Oct 31, 2018 due to high volumes in the tank resulting in an overflow.

Immediate and Follow-Up Action:

A vacuum truck was utilised to remove sewage from the holding tank to prevent any further release. Sewage released onto the surrounding pad was removed and placed in an engineered lined containment facility. Upon further investigation it was determined that a faulty valve within the toilet caused the tank to over flow. The second minor release, was determined to the result of a non functioning over flow alarm due to a non functioning emergency float.

Recommendations:

Building occupants are to alert the Housing Maintainer as soon as a toilet is observed to be malfunctioning. An overflow alarm system to be researched with focus on an audible alarm to the system. Operators will complete visual tank inspections of volume capacities every site visit.

Current Status:

The faulty valve has been replaced and the issues with the holding tank overflow alarm system have been repaired. The holding tank and toilet 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: Reviewed by:

Connor Devereaux

Environmental Superintendent

James Martin
Site Services 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 (QIA), Justin Hack, Jeremy Fraser (CIRNAC).



Photo 1. Overflow spill on ground surrounding the holding tank. Oct 25, 2018.



Photo 2. Holding tank area after site clean up. Nov 01, 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

Α	REPORT DATE: MONTH - DAY - Y 10-26-2018	AY – YEAR			IME	▼ORIGINAL SPILL REPORT,	REPORT NUMBER									
В	OCCURRENCE DATE: MONTH - 0	AY - YEAR	OCCURRE 17:45			☐ UPDATE # TO THE ORIGINAL SPILL REPO	18 - 436									
Ľ	LAND USE PERMIT NUMBER (IF															
С	IOL - Commercial L				WATER LICENCE NUMBER (IF APPLICABLE) 2AM-MRY1325 Type "A"											
	GEOGRAPHIC PLACE NAME OR		OCATION	REGION												
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	ANY CONTRACTOR INVOLVED			OR OFFICE LOCATION												
G	N/A		N/A													
	PRODUCT SPILLED				GRAMS OR CUBIC METRI											
н	Raw Sewage		Approx.		GRAMS OR CUBIC METRI	N/A										
١	SECOND PRODUCT SPILLED (IF	APPLICABLE)	N/A	TRES, KILO	GRAMS OR CUBIC METRI	IN. NUMBER										
 	SPILL SOURCE		SPILL CAUSE			AREA OF CONTAMINATION	I IN SQUARE METRES									
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J	FACTORS AFFECTING SPILL OR Congested area, sn		N/A	ASSISTANO	CE REQUIRED	N/A	HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT N/A									
\vdash	ADDITIONAL INFORMATION, COM	MENTS, ACTIONS PROPO	SED OR TAKEN TO	CONTAIN	, RECOVER OR DISPOSE	OF SPILLED PRODUCT AND CO	NTAMINATED MATERIALS									
K	determined that the was immediately purcontaminated snow 1m3 was released i location of the spill body which is curreprovided in the follolicense no. 2AM-MF Nunavut Surface Ri	e toilet had malfumped down to which was disp mpacting the su was confined to ently frozen. The ow-up report. The RY1325, Part H, i ghts Tribunal A	unctioned of prevent an posed of in urrounding the laydo and investigating spill is because of the model.	which of y furth of the policy down and tion and pursua	caused the tank er release. Crevolishing waste s wn covering and d is greater than d cleanup are coreported as requ	to overflow. The hows then initiated releastabilization pond. A area of approx. 140 m from the neongoing, further detaired by the Condition 12(3) of the Nuna	At 17:45 Hrs on October 25, 2018, a housing maintainer observed water adjacent to the sewage holding tank for the Mobile Maintenance building at Milne Port. Upon initial investigation, it was determined that the toilet had malfunctioned which caused the tank to overflow. The holding tank was immediately pumped down to prevent any further release. Crews then initiated removal of all contaminated snow which was disposed of in the polishing waste stabilization pond. Approximately 1m3 was released impacting the surrounding laydown covering an area of approx. 140m2. The location of the spill was confined to the laydown and is greater than 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	POSITION		EMPLOYER												
_	Connor Devereaux			D - 60	-	LOCATION CALLING FROM	TELEPHONE									
			tendent	Baffin	land	Mary River	TELEPHONE 416 364 8820									
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PAGE 1 OF __1

Figure 2. Baffinland NT NU spill report



Dec 12, 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 #18-451
Mary River Project - Water Licence No. 2AM-MRY1325

Summary:

At 07:25 Hrs on November 13, 2018 the Site Services Supervisor, on inspection observed liquid sourcing from the main sewage lift station at the Mine Site Complex (MSC), impacting the adjacent MSC pad. Upon investigation it was determined that the high level float malfunctioned and failed to engage the lift station pumps which caused the tank to overflow, releasing approximately $0.5 \, \mathrm{m}^3$ of raw sewage. The spill was confined to the MSC pad, impacting an area of approximately $20 \, \mathrm{m}^2$, and was greater than 100m from the nearest water body which is currently frozen.

Immediate and Follow-Up Action:

The sewage overflow was immediately arrested, and the lift station holding tank pumped down to prevent further release. The contaminated snow was collected, to the extent possible, and deposited in an engineered lined containment facility. The lift station pumps were serviced and the high level float was replaced and tested. Following the repair both pumps turn on when the high level float is engaged.

Recommendations:

Continue inspections of lift stations to mitigate potential releases.

Upgrade the alarm system to identify pump failure with externally visible lights.

Current Status:

Bill Bonder

The faulty high level float has been replaced and the pumping system tested. 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.

Jeff Bush

Prepared by: Reviewed by:

William Bowden

Environmental Superintendent Site Services 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, Fai Ndofor (QIA), Justin Hack, Jeremy Fraser (INAC).



Photo 1. Overflow release on camp pad adjacent to main holding tank...



Photo 2. Overflow release after site 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	
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$^{\wedge}$	11-13-2018			22:00		OR		REPORT NUMBER	
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D	GEOGRAPHIC PLACE NAME Mary River Mine				REGION □ NWT X NUNAV	UT □ ADJACENT JU	RISDICTION	OR OCEAN	
E	DEGREES 71	MINUTES 18	SECONDS 50)	LONGITUDE DEGREES 79	MINUTES 16	s	econds 59	
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J	Congested area,		N/A	DESCRIBE ANY ASSISTANCE REQUIRED N/A			N/A		
	ADDITIONAL INFORMATION,	COMMENTS, ACTIONS PRO	POSED OR TAKEN T	O CONTAIN	N, RECOVER OR DISPOSE	OF SPILLED PRODUCT	AND CONTA	AMINATED MATERIALS	
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_	William Bowden	Env. Superi	ntendent	Baffir		Mary River		416 364 8820 ALTERNATE TELEPHONE	
M	Tim Sewell	Head of HSI	E	Baffir	170	LOCATION	,	ext. 6016	
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FIRS	D AGENCY	CONTACT NAME		CONT	Annual Service		FILE SIMI	(867) 920-8130	

PAGE 1 OF __1

Figure 2. Baffinland NT NU spill report



December 19, 2018

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

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

Re: Spill #18-459 - Follow-Up Spill Report
Mary River Project - Water Licence No. 2AM-MRY1325 - Amendment 1

At approximately 17:00 HRS on November 19, 2018 during a routine inspection, a release of water from the piping of the Mary River Mine Site Complex (MSC) was discovered. At the time of the discovery, the release of water was frozen solid and was not active. Because the water was originally assessed to be greywater from the MSC kitchen, the release, estimated to be 0.5 m³, was reported to the NT-NU Spill Line and other relevant regulators on November 20, 2018. Upon further investigation, the release was determined to be potable water from a drain associated with the MSC ice machine, and not a greywater spill from the MSC kitchen.

Current Status:

The piping associated with the release has been addressed. No further action is required.

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:

Connor Devereaux

Environmental Superintendent

Reviewed by:

James Martin

Site Services Superintendent

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

cc. Grant Goddard, Sylvain Proulx, Tim Sewell, William Bowden, Gerald Rogers, Francois Gaudreau

(Baffinland), Sean Joseph, Fai Ndofor (QIA), Justin Hack, Jeremy Fraser (CIRNAC).



Photo 1 - Potable Water Release (Nov. 19, 2018)





Figure 1 – Location of Potable Water Release







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

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	ST SUPPORT AGENCY OND SUPPORT AGENCY				CTTIME				(867) 920-8130

PAGE 1 OF ___1__

Figure 2 - Baffinland NT NU Spill Report



Dec 24, 2018

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

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

Re: Follow-up to Spill #18-463
Mary River Project - Water Licence No. 2AM-MRY1325

Summary:

At \sim 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.

Immediate and Follow-Up Action:

The sewage release was immediately arrested. The contaminated snow was collected and deposited in an Polishing Waste Stabilization Pond. Standard operating procedures were reviewed with operators.

Recommendations:

Standard operating procedures will require the operator to verify the valve is closed and an end cap is attached to the hose upon completion of filling or emptying holding tanks.

Current Status:

The use of the vacuum truck continues and no further incidents have occurred.

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:

Connor Devereaux

Environmental Superintendent

Reviewed by:

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 drainage release on camp pad adjacent to RBC holding tank.



Photo 2. Camp pad adjacent to RBC holding tank after site 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		
Α	REPORT DATE: MONTH – DAY – YEAR 11-25-2018 OCCURRENCE DATE: MONTH – DAY – YEAR			18:00):	XORIGINAL SPILL REF	PORT,	REPORT NUMBER		
В	11-25-2018			01:00			UPDATE # O THE ORIGINAL SPILL REPORT			
С		l Lease: Q13C3			WATER LICENCE NUMBER 2AM-MRY1325					
D	GEOGRAPHIC PLACE NAME (Mary River Mine			OCATION	□NWT X NUNAV	JT □ ADJACENT JUI	RISDICTION	OR OCEAN		
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F	Baffinland Iron Mines Corp. 2275 Mid				odress or office Locat oad East, Suite 3		N L6H	0C3		
G	1477.4	D	N/A		OR OFFICE LOCATION					
	PRODUCT SPILLED Raw Sewage	Approx.	0.5 m3		N/A					
П	SECOND PRODUCT SPILLED N/A	(IF APPLICABLE)	N/A	ITRES, KIL	OGRAMS OR CUBIC METR	N/A				
1	SPILL SOURCE Vacuum Truck				perator error	Approx. 14	40m2	SQUARE METRES		
J	Snow and Ice Additional information,		N/A	DESCRIBE ANY ASSISTANCE REQUIRED N/A			HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT N/A			
K	impacting the roa 100 m from the n details will be pro conditions of wat Nunavut Waters	c at the Mine Sicclosing the valve out through the event further relin the engineer ad and covering earest water bovided in the foter license no. 2 and Nunavut Su	te. Upon com ye or attachin hose. The op ease. Crews ed lined cont g an area of a dy which is o llow-up repor AM-MRY132	pletion og the operato then in ainme pprox. curren t. This 5, Part Tribu	n, the operator pend cap and stars stopped the trunitiated removalent facility. Approdute 140 m2. The local for the ires spill is being read the local fact, and the nal Act, and the	placed the intained to drive as the aster a should be contaminated the second of the second as requestigation is the second as requestigation to subsecond for the second of the second	ke hose way, wh rt dista ed sno- n3 was oill is g ongoir uired b osection raph 5.	e into travel nich allowed nce to close w/ice which released, reater than ng, further y the n 12(3) of the 1(a).		
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PAGE 1 OF ___1

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 XOA 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.

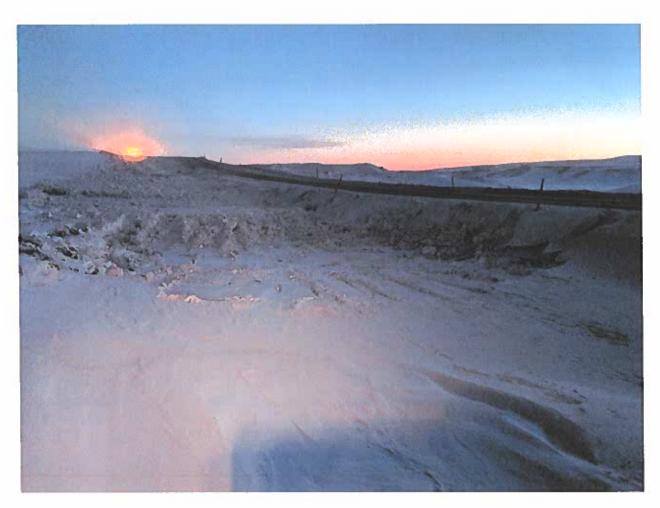


Photo 2. Contaminated snow and ice removed from impacted area.

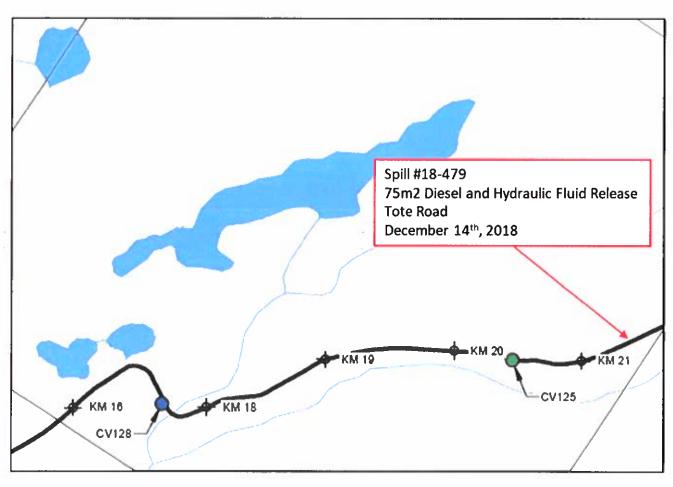


Figure 1 - Map of spill location.



NT-NU SPILL REPORT

OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS

NT-NU 24-HOUR SPILL REPORT LINE

TEL: (867) 920-8130 FAX: (867) 973-6924 EMAIL: sp#is@gov.nt.ca

REPORT LINE USE ONLY

PAGE 1 OF __1_

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<u> </u>	12-14-2018			22:00					PILL HEPOHI		
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\subseteq	IOL - Commercial L					MRY132	<u>5 Ty</u>	pe "A"			
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\vdash	ADDITIONAL INFORMATION, CO	MMENTS, ACTIONS PROPO	SED OR TAKEN 1	TO CONTAI	N, RECOVE	ER OR DISPO	SE OF	SPILLED PRODU	OT AND CONTA	AMINATED MATERIALS	
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M	Tim Sewell	Head of HSE			nland .			CATION	~1	ext. 6016	
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FIR	ST SUPPORT AGENCY										
SEC	OND SUPPORT AGENCY										
	PD SUPPORT AGENCY										

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.Mesher@aandc-aadnc.gc.ca Regulatory Manager Qikiqtani Inuit Association P.O. Box 219 Iqaluit, NU XOA 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:

Reviewed by:

Connor Devereaux

Environmental Superintendent

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.



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	
Α	REPORT DATE: MONTH – DAY	-YEAR		16:30		XORIGINAL SPILL REF	PORT,	SECONT MUMBER	
J 1	12-19-2018 OCCURRENCE DATE: MONTH	DAY WEAD		11.0.1.0.10	ENCE TIME	OR	2 500000	REPORT NUMBER	
В	12-18-2018			17:15		UPDATE #TO THE ORIGINAL SPIL	LL REPORT	<u>18 - 481</u>	
С	LAND USE PERMIT NUMBER (WATER LICENCE NUMBER				
U					2AM-MRY1325	Type "A"			
D	GEOGRAPHIC PLACE NAME C				REGION □ NWT X NUNAVU	UT □ ADJACENT JUI	RISDICTION	OR OCEAN	
Е	LATITUDE DEGREES 71	MINUTES 18	seconds 55	5	LONGITUDE DEGREES 79	MINUTES 16	j si	ECONDS 57	
F	RESPONSIBLE PARTY OR VES Baffinland Iron Mi	lines Corp.	2275 Mid	ddle Ro	oress or office Locatorates and East, Suite 3		ON L6H	0C3	
G	ANY CONTRACTOR INVOLVED N/A)	CONTRACTOR /	ADDRESS (OR OFFICE LOCATION				
.,	PRODUCT SPILLED Raw Sewage		Approx.		OGRAMS OR CUBIC METR	RES U.N. NUMBER			
H	SECOND PRODUCT SPILLED ((IF APPLICABLE)	QUANTITY IN LI	ITRES, KILC	OGRAMS OR CUBIC METR	RES U.N. NUMBER N/A			
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1	Lift Station FACTORS AFFECTING SPILL OF		Influent to			10.1	Approx. 15 m2 HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT		
J	Congested area, s Additional information, c	snow and ice	N/A			N/A			
K	camp pad ground nearest water cou be provided in the Water License no Waters and Nuna	ng maintainer ob vas determined t aged pump two t housing mainta nind the lift statio d surface, impact urse (which is cu e follow-up repo o. 2AM-MRY1325 avut Surface Righ	bserved liqui that the lift si to empty lift si ainer noticed on. Approxin eting an appro urrently froze ort. This spill 5, Part H, iten	id behi station station d the Fe mately roximat en). Th II is bei m 9 (b)	ind the AC wing had overflowed and prevent fuernce coupler he 600L of sewage te area of 15 m2 investigation ing reported as pursuant to su	north lift station. The housing arther overflow and separated fewas released 2. This spill is sis ongoing and required by the absection 12(3)	on. Upon maintain on. Upon from the a >100 m od further condition of the l	on initial iner further e 4" gravity adjacent to the er details will tions of NWB Nunavut	
ī	REPORTED TO SPILL LINE BY Connor Devereau	in convenience	standant	EMPLOYE Raffin		LOCATION CALLING FF	1000000	TELEPHONE 416 364 8820	
_	ANY ALTERNATE CONTACT	JX Env. Superion	ntendent	Baffin EMPLOYE		Mary River ALTERNATE CONTACT		416 364 8820	
М	Tim Sewell	Head of HS	اا	Baffin	ıland	LOCATION		ALTERNATE TELEPHONE	
			REPORT LIN		LY			ext. 6016	
N	RECEIVED AT SPILL LINE BY			EMPLOYE		LOCATION CALLED		ext. 6016	
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-	1	GNWT GN ILA IN.			FICANCE MINOR MA	AJOR □ UNKNOWN	1	ext. 6016 REPORT LINE NUMBER 867) 920-8130	
LEA	ENCY	GNWT GN ILA IN.			FICANCE MINOR MA	AJOR □ UNKNOWN	1	ext. 6016 REPORT LINE NUMBER 867) 920-8130	
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Figure 2. Baffinland NT NU spill report