

APPENDIX E.8.4 INITIAL AND FOLLOW-UP SPILL REPORTS (PART 3 OF 4)



June 15, 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 #18-180, Reported on May 18, 2018, Mary River Project - Water Licence No. 2AM-MRY1325

Summary:

At approximately 13:00 HRS on May 16th, 2018, during the execution of the daily freshet monitoring program at the Mary River Mine Site, environmental technicians observed sediment-laden water to be breaching the series of sediment ponds/check dams that have been constructed along the Camp Lake Jetty access road. Elevated levels of suspended solids were observed from sediment impacted snow melt which mobilized due to the overland flow. In addition to the implementation of erosion and sediment control measures, water quality sampling was conducted of water entering Camp Lake.

Immediate and Follow-Up Action:

Personnel worked to re-direct flow so that it travelled through the series of check dams, as well as installed silt fencing and spring berms at strategic locations to minimize flow, increase retention time in sediment ponds, and reduce further mobilization of sediment prior to water entering Camp Lake. Once short-term erosion and sediment control mitigation measures were implemented, controls for longer-term solutions to minimize similar occurrences at this location were constructed. The existing series of check dams down the Camp Lake Jetty access road drainage channel were excavated and reinforced, as well as reinforcing and increasing the capacity of the existing settling pond structures.

Recommendations:

Continued monitoring during freshet conditions and routine maintenance of check dams and settling ponds (i.e. excavation of material) on an as-needed basis.

Current Status:

Conditions at Camp Lake Jetty, as well as other freshet monitoring locations, are currently being sampled and assessed on a daily basis. A more comprehensive Freshet Report will be submitted to document the water quality of water bodies and surface water drainages near Project infrastructure and summarize the corrective actions implemented to address sediment releases and other areas of concern identified during freshet 2018.

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:

Reviewed by:

Bryan Lukeman

Environmental Coordinator

Connor Devereaux

Environmental Superintendent

Come Dung

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. May 15, 2018: Sediment-laden water flowing into spring berm before entering Camp Lake



Photo 2. May 22, 2018: Camp Lake Jetty access road drainage channel check dam



Photo 3. May 22, 2018: Camp Lake Jetty access road drainage channel check dams and berm



Photo 4. May 22, 2018: Typical check dam/berm cross section



Photo 5: May 21, 2018: Reinforcement of berms/check dams at Camp Lake Jetty, during frozen conditions



Figure 1 – Overview map of sediment release location



Canada NT-NU SPILL REPORT

NT-NU 24-HOUR SPILL REPORT LINE

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

		SACS FORM							REPORT LINE USE ONLY	
A	REPORT DATE: MONTH - DAY - 05-18-2018	YEAR		21:20			CORIGINAL SPILL REPO	ORT,	REPORT NUMBER	
В	05-16-2018			13:00 TG			UPDATE # OTHE ORIGINAL SPILL REPORT			
С	LAND USE PERMIT NUMBER (IF IOL - Commercial I	Lease No.: Q13C		WATER LICENCE NUMBER (IF APPLICABLE) 2AM-MRY1325 Type "A"						
D	GEOGRAPHIC PLACE NAME OF Mary River Project	The state of the s			TION REGION NWT X NUNAVUT ADJACENT JURISDICTION OF OCEAN					
Е			LONGITUDE SECONDS DEGREES			MINUTES				
F	RESPONSIBLE PARTY OR VESS Baffinland Iron Min	PRESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION 2275 Middle Road East, Suite 300, Oakville, ON L6H 0C3 CONTRACTOR ADDRESS OR OFFICE LOCATION								
G	ANY CONTRACTOR INVOLVED N/A		N/A							
ш	PRODUCT SPILLED Sediment-laden wa		Unquantity IN LI	ified a	t present	t time	N/A			
''	SECOND PRODUCT SPILLED (IF	F APPLICABLE)	N/A	TRES, KILO	OGRAMS OR C	CUBIC METRE	N/A			
I	Melting snow, over		Rapid me				N/A	AREA OF CONTAMINATION IN SQUARE METRES N/A		
J	Snow covered area	a, high flow	N/A				N/A			
K	Additional information, comments, actions proposed or taken to contain, recover or dispose of spilled product and contaminated materials. On May 16, 2018, warming temperatures resulting in snowmelt runoff containing sediment-laden water observed to be flowing down the Camp Lake ditching/check dams at 13:00; water samples were subsequently taken. The source of the drainage was snow melt from the Weatherhaven parking area and Camp Lake access road. The event resulted in sediment-laden water flowing onto and under the ice of Camp Lake. In accordance with the Surface Water Management Plan, sedimentation mitigation measures were implemented including silt fences and spring berms in an attempt to settle sediments prior to discharge. With freshet conditions present, daily monitoring of the water quality is ongoing; initial water quality sample results were submitted to ALS lab for analysis. 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 as required by subsection 38(4) of the Fisheries Act.									
L	REPORTED TO SPILL LINE BY Connor Devereaux	Env Superinte	endent	Baffir			647.253.0596		Ext. 6016	
М	ANY ALTERNATE CONTACT Tim Sewell	Head of HSE		Baffir			647,253.0596		Ext. 6054	
			REPORT LIN	E USE ON	ILY			70		
N	RECEIVED AT SPILL LINE BY	POSITION STATION OPERATOR		EMPLOYE	R		VELLOWKNIFE, NT		REPORT LINE NUMBER (867) 920-8130	
LEAD	AGENCY DEC DCCG DGN	WT GN GILA GINAC	□ NEB □ TC	SIGNI	FICANCE D N	MINOR 🗆 MA.	JOR - UNKNOWN	FILE STATE	US OPEN CLOSED	
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THIR	D SUPPORT AGENCY									

PAGE 1 OF 1

Figure 2 – NT-NU Spill report

June 16, 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 #18-182, Reported on May 19, 2018, Mary River Project - Water Licence No. 2AM-MRY1325

Summary:

At approximately 15:00 HRS on May 17th, 2018, during the execution of the daily freshet monitoring program at the Mary River Mine Site, environmental technicians observed sediment-laden water to be flowing at multiple locations at the Mary River Mine Site (SDLT and CLT). Elevated levels of suspended solids were observed from sediment impacted snow melt which mobilized as a result of increased overland flow. In addition to the implementation of erosion and sediment control measures in accordance with the Surface Water Management Plan, water quality sampling was conducted of water entering the receiving water bodies. SDLT reports to Sheardown Lake, while CLT reports to Camp Lake.

Immediate and Follow-Up Action:

Upon discovery of the elevated instream TSS conditions at these drainages, personnel worked to install sedimentation mitigation measures, including silt fences and spring berms, in accordance with the Surface Water Management Plan, in an attempt to slow flow and settle sediments prior to entering the streams.

In the days leading up to freshet, snow pack around the inlets and outlets of select culvert locations was excavated, including the SDLT and CLT crossings, to reduce the volume of snow melt and thus, the amount of overland flow present to mobilize sediment. The excess snow was removed and transported to the approved snow dump areas. By reducing the excess snow at these locations, the severity and frequency of elevated instream TSS events has been reduced.

Recommendations:

Continued monitoring during freshet conditions and routine maintenance of sediment fences and spring berms, where applicable.

Current Status:

Conditions at SDLT and CLT, as well as other freshet monitoring locations, are currently being sampled and assessed on a daily basis. A more comprehensive Freshet Report will be submitted to document the water quality of water bodies and surface water drainages near Project infrastructure and summarize the corrective actions implemented to address sediment releases and other areas of concern identified during freshet 2018.

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:

Reviewed by:

Bryan Lukeman

Environmental Coordinator

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. May 17, 2018: Viewing downstream of sediment-laden water at CLT entering Camp Lake



Photo 2. May 17, 2018: Viewing downstream of SDLT of sediment-laden water entering Sheardown Lake



Photo 3. May 9, 2018: Removal of excess snowpack from road crossing above SDLT



Photo 4. May 9, 2018: Removal of excess snowpack from road crossing above SDLT



Photo 5. May 9, 2018: Removal of excess snowpack from road crossing above SDLT



Photo 6. May 13, 2018: Removal of excess snowpack from road crossing above CLT



Figure 1 – Overview map of sediment release location



REPORT DATE: MONTH - DAY - YEAR

OCCURRENCE DATE: MONTH - DAY - YEAR

05-19-2018

05-17-2018

NT-NU SPILL REPORT

REPORT TIME

OCCURRENCE TIME

21:00

15:00

UPDATE #

NT-NU 24-HOUR SPILL REPORT LINE

TEL: (867) 920-8130 FAX: (867) 873-6924

EMAIL: spills@gov.nt.ca REPORT LINE USE ONLY X ORIGINAL SPILL REPORT, REPORT NUMBER 18 - 182 TO THE ORIGINAL SPILL REPORT

PAGE 1 OF

LAND USE PERMIT NUMBER (IF APPLICABLE) WATER LICENCE NUMBER (IF APPLICABLE) IOL - Commercial Lease No.: Q13C301 2AM-MRY1325 Type "A" GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION REGION Mary River Project Mine Site, Baffin Island, NU □ ADJACENT JURISDICTION OR OCEAN LATITUDE LONGITUDE RESPONSIBLE PARTY OR VESSEL NAME RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION 2275 Middle Road East, Suite 300, Oakville, ON L6H 0C3 Baffinland Iron Mines Corp. ANY CONTRACTOR INVOLVED CONTRACTOR ADDRESS OR OFFICE LOCATION G N/A PRODUCT SPILLED U.N. NUMBER QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES Sediment-laden water Unquantified N/A SECOND PRODUCT SPILLED (IF APPLICABLE) QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES U.N. NUMBER N/A SPILL CAUSE AREA OF CONTAMINATION IN SQUARE METRES Melting snow, overland flow N/A Rapid melt FACTORS AFFECTING SPILL OR RECOVERY DESCRIBE ANY ASSISTANCE REQUIRED HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT Snow covered area, high flow N/A

On May 17, 2018, warming temperatures resulting in snowmelt runoff containing sediment-laden water observed to be flowing at multiple locations at the Mary River Mine Site (SDLT and CLT). The source of the sedimentation was snow melt from surrounding mine site infrastructure. The event resulted in sediment-laden water flowing onto and under the ice of Camp Lake and Sheardown Lake which are currently frozen. In accordance with the Surface Water Management Plan, sedimentation K mitigation measures were implemented including silt fences and spring berms in an attempt to settle sediments prior to discharge. With freshet conditions present, daily monitoring of the water quality is ongoing; initial water quality sample results were submitted to ALS lab for analysis. 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 as

required by subsection 38(4) of the Fisheries Act.

ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS

ı	Connor Devereau			PLOYER Baffinland		CATION CALLING FRO 47.253.0596	DM	Ext. 6016
_	Connor Devereau	Life Superintendent		ammanu	О	47.255.0590		EXI. 0010
	ANY ALTERNATE CONTACT	POSITION	EN	PLOYER		TERNATE CONTACT		ALTERNATE TELEPHONE.
M	Tim Sewell	Head of HSE	В	affinland	6	47.253.0596		Ext. 6054
REPORT LI				ISE ONLY				
N	RECEIVED AT SPILL LINE BY	POSITION	EN	PLOYER	LO	CATION CALLED		REPORT LINE NUMBER
IN		STATION OPERATOR			YE	LLOWKNIFE, NT		(867) 920-8130
LEAD	AGENCY DEC DCCG DG	SNWT - GN - ILA - INAC - NEB - TC		SIGNIFICANCE - MINOR - MAJOR - UNKNOWN FILE STA			TUS - OPEN - CLOSED	
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SEC	OND SUPPORT AGENCY							
THE	D SUDDODT ACENCY							

Figure 2 - NT-NU Spill report



July 05, 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 #18-209, Reported on June 05, 2018, Mary River Project - Water Licence No. 2AM-MRY1325

Summary:

As part of Baffinland's 2018 Tote Road monitoring program, on May 30th, a crossing located at Km 86 (BG27) was identified from received sample results to be flowing above applicable water licence criteria for total suspended solids (TSS). The sediment was generated by the melting snow pack adjacent to the road and other sample results indicate natural sedimentation upstream is also contributing to the elevated TSS in the stream.

Immediate and Follow-Up Action:

Upon discovery of the elevated TSS conditions downstream of the culvert crossing, personnel installed sedimentation mitigation measures. Mitigation measures included riprap armoring of the ditches and silt fences to slow flow velocities and settle sediments prior to entering the culvert and stream, as outlined in the Surface Water Management Plan.

Recommendations:

Continued monitoring during summer rain events and routine maintenance of sediment control measures will be completed on an as-needed basis.

Current Status:

Conditions at BG27 improved following the installation of sediment control measures, with TSS levels returning to below applicable water licence criteria. A more comprehensive Freshet Report will be submitted to document the water quality of surface water crossings along the Tote Road and summarize the areas of concern identified during freshet 2018.

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:

Dominic Ritgen

Environmental Coordinator

Reviewed by:

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. May 30, 2018: Viewing downstream BG27 entering waterbody



Photo 2. May 30, 2018: Viewing Upstream of BG27





Photo 3. June 6, 2018: Bank armoring with riprap



Photo 4. June 6, 2018: Bank armoring with riprap





Photo 5. June 6, 2018: Silt fence being installed upstream of crossing



Photo 6. June 7, 2018: Water flowing clear following mitigation measures in place



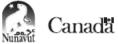


Figure 1 – Overview map of sediment release location





THIRD SUPPORT AGENCY



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
Д	REPORT DATE: MONTH - DAY 06-05-2018	AY – YEAR		19:00		X	ORIGINAL SPILL REF	PORT,	REPORT NUMBER
, ,	OCCURRENCE DATE: MONTH	_ DAV _VEAD			NCE TIME	OF	QUPDATE#		
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_	LAND USE PERMIT NUMBER ((IF APPLICABLE)			WATER LICENCE NUMB	ER (IF	APPLICABLE)		
C	IOL - Commercial	Lease No.: Q13C	301		2AM-MRY132	5 Ty	/pe "A"		
$\overline{}$	GEOGRAPHIC PLACE NAME O				REGION	_	-		
D	Mary River Project	NU .	□ NWT X NUN	WUT	☐ ADJACENT JUR	RISDICTION	OR OCEAN		
Е	LATITUDE	LONGITUDE							
느	DEGREES - RESPONSIBLE PARTY OR VES		DEGREES - DRESS OR OFFICE LOC		MINUTES -	S	ECONDS -		
F	Baffinland Iron M	2275 Mid	ldle Ro	ad East, Suite			N L6H	0C3	
G	ANY CONTRACTOR INVOLVED N/A)	N/A	ADDRESS (OR OFFICE LOCATION				
\vdash	PRODUCT SPILLED		QUANTITY IN LI	TRES, KILO	GRAMS OR CUBIC ME	TRES	U.N. NUMBER		
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L	N/A		N/A				N/A		
П	Freshet melting s	nownack	SPILL CAUSE	t impa	cted water		AREA OF CONTAMINATION IN SQUARE METRES N/A		
Ļ.	FACTORS AFFECTING SPILL O	•	DESCRIBE ANY				HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT		
J	Poor access	ON RECOVERT	N/A			N/A			
\vdash		COMMENTS, ACTIONS PROPO		O CONTAIN	CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS				
K	As part of Baffinland's 2018 Tote Road monitoring program, crossings are being monitored for turbid water and sediment impacted drainage upon the start of flows. On May 30, 2018, one crossing- BG27 (Km 86) was identified from received sample results to be flowing above applicable water licence criteria for total suspended solids (TSS) downstream of the crossing. The sediment appears to be generated by the melting snow pack adjacent to the road, however sample results indicate natural sedimentation upstream is also contributing to the elevated TSS in the stream. Sedimentation mitigation measure such as silt fences, jute, spring berms and rip rap are planned and will be installed where possible based on safe access, snow, ice cover and frozen ground. The Tote Road monitoring program is ongoing. 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 as required by subsection 38(4) of the Fisheries Act.								
L	REPORTED TO SPILL LINE BY William Bowden	POSITION Env Superinte	endent	EMPLOYE Baffin			CATION CALLING FR 47.253.0596	ROM .	TELEPHONE Ext. 6016
-	ANY ALTERNATE CONTACT	POSITION		EMPLOYE			TERNATE CONTACT		ALTERNATE TELEPHONE
M	Tim Sewell	Head of HSE		Baffin	land	8ء	47,253.0596		Ext 6054
			REPORT LIN	E USE ON	LY				
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FIRS	ST SUPPORT AGENCY								
SEC	OND SUPPORT AGENCY								

PAGE 1 OF 1

Figure 2 – NT-NU Spill report



July 09, 2018

Resource Management Officer Nunavut Field Operations Indigenous and Northern Affairs Canada Box 100 Iqaluit, NU X0A 0H0 Jonathan.mesher@aandc-aadnc.qc.ca Manager, Major Projects Qikiqtani Inuit Association P.O. Box 219 Iqaluit, NU X0A 0H0

Re: Follow-up to Spill #18-214, Reported on June 09, 2018, Mary River Project - Water Licence No. 2AM-MRY1325

Summary:

On June 8th, 2018, runoff from the tundra was observed to be flowing into the adjacent ditches between kilometer 107 and 108 along the Mine Haul Road. Upon investigation, surface water runoff from the surrounding tundra entered two culverts resulted in sediment impacted water entering Mary River tributary (non fish bearing). Surface water was immediately diverted away from the Mary River tributary preventing any potential sedimentation impact.

Immediate and Follow-Up Action:

Culvert inlets along the Mine Haul Road drainage ditch were blocked off to divert water away from the Mary River catchment area preventing any further sediment laden water. The check dam at the end of the magazine road was also excavated to capture suspended solids.

Recommendations:

Additional monitoring during summer rain events and routine maintenance of sediment control measures will be initiated and completed as required. A water management engineering review associated with the Mine Haul Road will be undertaken and remedial action implemented.

Current Status:

Culvert inlets remain blocked and are functioning to prevent water flow towards the Mary River tributary.

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:

Dominic Ritgen

Environmental Coordinator

Reviewed by:

Connor Devereaux

Environmental Superintendent

Attach: Photos, Map, NT-NU Spill Report

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

(Baffinland), Stephen Bathory (QIA), Ian Parsons, Jeremy Fraser (INAC)



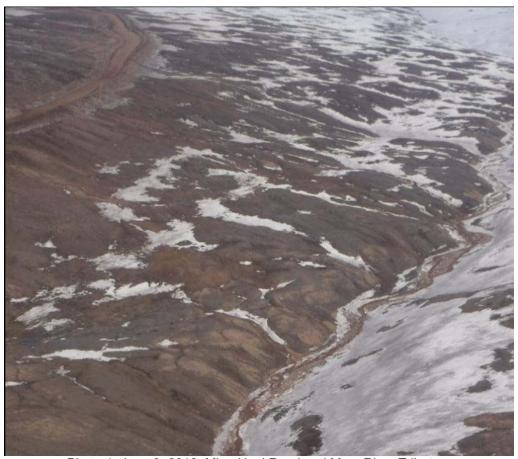


Photo 1. June 9, 2018: Mine Haul Road and Mary River Tributary



Photo 2. June 13, 2018: Mary River downstream of Mary River Tributary





Photo 3. June 10, 2018: Minimal flow from culvert outlet after inlet was blocked off to divert runoff from the Mine Haul Road





Photo 4. July 9, 2018: Reinforcement of Check Dams as part of ongoing maintenance



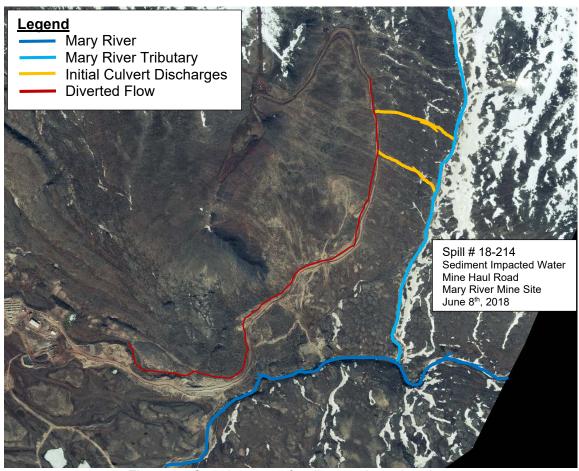


Figure 1 – Overview map of sediment release locations







Canada

NT-NU SPILL REPORT

OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS

NT-NU 24-HOUR SPILL REPORT LINE TEL: (867) 920-8130

TEL: (867) 920-8130 FAX: (867) 873-6924

EMAIL: spills@gov.nt.ca
REPORT LINE USE ONLY

۸	REPORT DATE: MONTH - DAY - YEAR				TIME	X ORIGINAL SPILL RE	DOUT			
Α	06-09-2018			21:00			OR	POHI,	REPORT NUMBER	
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ם	06-08-2018			Unkr	Unknown					
С	LAND USE PERMIT NUMBER (IF				WATER LICENCE NUMBER (IF APPLICABLE)					
•					2AM-MRY1325 Type "A"					
D	GEOGRAPHIC PLACE NAME OF Mary River Mine S			OCATION.	REGION					
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F	Baffinland Iron Mir	nes Corp.	I			-	300, Oakville,	ON L6H	0C3	
G	ANY CONTRACTOR INVOLVED N/A		CONTRACTOR	ADDRESS	OR OFFICE L	OCATION				
<u>~</u>	PRODUCT SPILLED		N/A QUANTITY IN LI	TREE IVE	000111000	OLIDIO METRI	ES U.N. NUMBER			
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	N/A	,	N/A				N/A			
	SPILL SOURCE		SPILL CAUSE					AREA OF CONTAMINATION IN SQUARE METRES		
ı	Spring freshet/mel		Rapid sn					N/A		
J	FACTORS AFFECTING SPILL OF Steep embankmen			ESCRIBE ANY ASSISTANCE REQUIRED			I	HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT N/A		
_		, I	N/A	O CONTAI	N DECOVED	on Dienoer	1			
K	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS On June 8th, 2018, runoff from the tundra was observed to be flowing into the adjacent ditches between kilometer 107 and 108 along the Mine Haul Road. Upon initial investigation, it appears surface water runoff through two culverts has resulted in sediment impacted water entering Mary River tributary. Sedimentation mitigation measures such as check dams and silt fences/curtains are being implemented in an attempt to settle sediments prior to discharge to the receiving environment. Surface water is also being diverted away from problematic areas to locations that will minimize flows towards Mary River. A follow up report will be provided with further information on mitigation measures. This incident 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 as required by subsection 38(4) of the Fisheries Act.									
L	REPORTED TO SPILL LINE BY Connor Devereaux	POSITION Env. Superint	endent	Baffi	ER nland		416-364-882		ELEPHONE ext. 6016	
N 4	ANY ALTERNATE CONTACT	POSITION		EMPLOY			ALTERNATE CONTACT	г А	LTERNATE TELEPHONE	
M	Tim Sewell	Head of Envir			nland		416-364-882	0	ext. 6054	
			REPORT LIN							
N	RECEIVED AT SPILL LINE BY	POSITION		EMPLOY	ER		LOCATION CALLED		REPORT LINE NUMBER	
		STATION OPERATOR		Ц			YELLOWKNIFE, NT	- 0	967) 920-8130	
LEAD	AGENCY DEC DCCG DGN	NWT □GN □ILA □INAC	□ NEB □TC	SIGN	IFICANCE	MINOR MA	JOR UNKNOWN	FILE STATU	JS □ OPEN □ CLOSED	
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THIRD SUPPORT AGENCY										

PAGE 1 OF __1__

Figure 2 – NT-NU Spill report



July 15, 2018

Resource Management Officer Nunavut Field Operations Indigenous and Northern Affairs Canada Box 100 Iqaluit, NU X0A 0H0 Jonathan.Mesher@aandc-aadnc.qc.ca Manager, Major Projects Qikiqtani Inuit Association P.O. Box 219 Iqaluit, NU X0A 0H0

Re: Follow-up to Spill #18-232, Reported on June 15, 2018, Mary River Project - Water Licence No. 2AM-MRY1325

Summary:

On June 14 2018, during an inspection a spill was discovered at the Port Site Hazardous Waste Berm #1 (MP-HWB-01). Upon investigation, it was determined that the source of the spill was caused by damage to a waste oil tote. The spill is contained within the MP-HWB-01 which is an engineered lined containment berm. Estimates of product released is approx. one cubic metre.

Immediate and Follow-Up Action:

Upon discovery of the spill, crews cleaned up waste oil using absorbent pads and the contaminated berm cover material was removed. Clean material was then placed in the influenced areas to return the berm back to its original condition. The damaged tote was pumped out and packed for backhaul disposal. The remaining water in MP-HWB-01 was transferred to the contaminated snow dump to be treated utilizing the oily water treatment facility

Recommendations:

Standard Operating Procedures (SOP) have been reviewed by operators working within containment facilities.

Current Status:

The containment berm has been cleaned of all oil and contaminated material. Influenced area has been replaced with clean cover material.

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:

Reviewed by:

Dominic Ritgen

Environmental Coordinator

Connor Devereaux

Environmental Superintendent

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

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





Photo 1. MP-HWB-01 oil spill



Photo 2. MP-HWB-01 after 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

Α	DEDOCTED LIEU LIEU DAY ME							REPORT LINE USE ONLY	
^		RT DATE: MONTH - DAY - YEAR		REPORT TI	ME	X ORIGINAL SPILL RE	PORT,	05000711111050	
	06-15-2018 OCCURRENCE DATE: MONTH - DA			21:00		OR		REPORT NUMBER	
В	Unknown					TO THE ORIGINAL SPI	LL REPORT	18 - 232	
С	LAND USE PERMIT NUMBER (IF AF				ATER LICENCE NUMBER				
_	IOL - Commercial Le GEOGRAPHIC PLACE NAME OR DI				ZAM-MRY1325 REGION	Type "A"			
D	Mary River Mine Site, Baffin Island, NU								
	DEGITEED		SECONDS 12	2 0	ONGITUDE EGREES 80	MINUTES 53	S SE	ECONDS 14	
F		Baffinland Iron Mines Corp. 2275 Middle Road East, Sutie 300, Oakville, ON L6H 0C3							
G	1477		N/A						
	PRODUCT SPILLED Waste Oil				GRAMS OR CUBIC METR				
н	SECOND PRODUCT SPILLED (IF A	DELIGABLE:	Approx.		Meter GRAMS OR CUBIC METR	N/A ES U.N. NUMBER			
٠.	N/A	PPLICABLE)	N/A	TRES, KILOG	SHAMS OR CUBIC METH	N/A			
	SPILL SOURCE		SPILL CAUSE			1071	MINATION IN	SQUARE METRES	
I	Damaged plastic tot		Puncture		r province	N/A	AREA OF CONTAMINATION IN SQUARE METRES N/A HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT		
J	On water in lined be		N/A	NOOIO IANU	E REQUIRED	N/A	-		
	ADDITIONAL INFORMATION, COMM	MENTS, ACTIONS PROPOS	SED OR TAKEN TO	O CONTAIN,	RECOVER OR DISPOSE	OF SPILLED PRODUCT	AND CONTA	MINATED MATERIALS	
	On June 14 2018, during an inspection a spill was discovered at the Port Site Hazardous Waste Berm #1 (MP-HWB-01). Upon investigation, it is suspected that the source of the spill was caused by damage to a waste oil tote during the winter months. The spill is contained within the MP-HWB-01 which is an engineered lined containment berm. The facility is located approximately 100 m from the nearest water body. Initial estimates of product released is approx. 1 cubic metre. The free product will be removed and disposed of and the remaining water in MP-HWB-01 will be treated utilizing the oily water treatment facility. A detailed report of the of the incident will be provided within the thirty day reporting period. This incident 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.								
K	will be removed and oily water treatment day reporting period no. 2AM-MRY1325, F Surface Rights Tribu	Initial estimate disposed of an facility. A detai I. This incident Part H, item 9(b) Inal Act.	es of produ nd the rem iled report is being re	rm. The uct releasining v of the deported to subs	facility is loca ased is approx water in MP-HV of the incident as required by section 12(3) o	ted approxima . 1 cubic metron VB-01 will be to will be provide the condition of the Nunavut	ately 100 e. The fi reated u ed withi ns of Wa Waters	0 m from the ree product utilizing the in the thirty ater License and Nunavut	
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Figure 2. Baffinland NT NU spill report



July 20, 2018

Jonathan Mesher, Resource Management Officer Nunavut Field Operations Iqaluit Office Indigenous Affairs and Northern Development Canada Box 100 Iqaluit, NU XOA OHO Curtis Didham, Enforcement Officer David MacDonald, Enforcement Officer Environment and Climate Change Canada 933 Mivvik Street Iqaluit, NU XOA 0H0

Re: Follow-up to Spill #18-244, Reported on June 20, 2018, Mary River Project - Water Licence No. 2AM-MRY1325

Summary:

On June 19th, personnel monitoring the Waste Rock Stockpile Pond (MS-08) and facility's ditching, observed an overflow of water from the west drainage ditch of the facility. This water under normal operating conditions reports the Waste Rock Stockpile Pond. Upon investigation, the overflow was resultant of specific berm walls being insufficient to contain the surface water flow sourcing from the stockpile and reporting to the Waste Rock Stockpile Pond at a crossing where a culvert was installed which resulted in pooling water and overflow.

Baffinland took immediate action and arrested the overflow. The capacity of the west drainage ditch was increased to eliminate pooling within the ditch at the culvert and the overflow was contained. The perimeter emergency ditch was extended to contain overflow runoff still located at the spill location and as a future preventative action. The overflow water was tested and determined to have pH levels below 6.0 after the incident was initially identified. However, follow up water quality monitoring of the over flow spill location indicated pH levels above 6, having returned to above applicable MMER and Water licence criteria. The overflow occurred on a flat IOL tundra plateau >5km away from the nearest fisheries receiving water bodies of Camp Lake and Camp Lake Tributary. Water quality monitoring results down gradient of the spill location and further downstream in potential receiving environments are presented in this follow-up report.

As per MMER Reporting section 31(1) 31(2)

- (a) Waste rock surface water runoff overflowed the west drainage ditch at one discrete location, which reports to the Waste Rock Stockpile Pond. Monitoring of the overflow indicates water quality was below applicable pH guidelines on initial onset of the incident.
- (b) The estimated quantity of the deposit is unknown, however was arrested within the hour of being identified. Monitoring of the Waste Rock facility the previous day to the incident occurring had not identified the overflow occurring.
- (c) Exceedances of pH concentrations were deposited at the overflow location identified on the west drainage ditch.
- (d) No deleterious substances were deposited through the Final Discharge Point.
- (e) Camp Lake and Camp Lake Tributary would be the ultimate receiving body of water. It is located >5km away from the seepage
- (f) An Acute lethality test was conducted downstream on Camp Lake Tributary, a potential fisheries receiving water body, and is presented in this follow up as sample ID L1-02.
- (g) N/A
- (h) See summary above for circumstances of deposit. The west drainage ditch berm wall was increased in size and the capacity of the drainage ditch increased to eliminate potential pooling water. The emergency containment ditch down gradient of the spill was extended to capture overflow water in the immediate spill location down gradient of the west ditch overflow.



Immediate and Follow-Up Action:

The overflow was arrested upon discovery and monitoring of the over flow location was initiated. The west drainage ditch berm wall was increased in size and the capacity of the drainage ditch was increased to eliminate pooling within the ditch and promote flow from the ditch into the Waste Rock Stockpile Pond. Overflow water was captured by extending the emergency ditch around the west perimeter of the pond and culvert overflow location.

Recommendations:

Ensure effective drainage ditching flow path into the Waste Rock Stockpile Pond with earth works as required. Continued daily monitoring of both the drainage ditch and emergency ditches that are resident of the Waste Rock Stockpile Facility to safeguard against future incidents.

Current Status:

The West drainage ditch is flowing as intended and no further overflow has been observed from either drainage ditch resident of the facility during daily monitoring.

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:

Blel Boole. William Bowden

Environmental Superintendent

Reviewed by:

Simon Fleury Mine Manager

Attach: Photos, Map, Monitoring Results, NT-NU Spill Report

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





Photo 1. June 19th, 2018 -Heavy equipment support upon discovery to arrest over flow from West Drainage Ditch.



Photo 2. June 20th, 2018 – West drainage ditch inflow into the Waste Rock Stockpile Pond following berm reinforcement.





Figure 1 – Overview map of overflow location



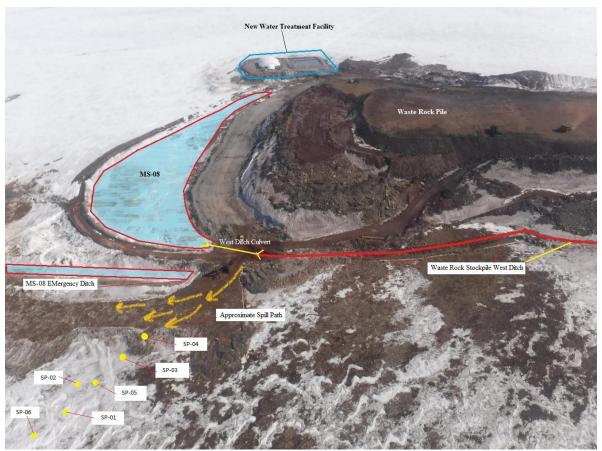


Figure 2 - Detailed map of spill location

Date	Sample ID	Sample Time	рН	Temp. (°C)	Specific Conductivity (µs/cm)	Dissolved Oxygen (%)	Turbidity (NTU)	GPS Location
19-Jun-18	SP-01	18:20	5.32	4.3	3168	85.1	52.33	71°20'41"N 79°14' 36"E
19-Jun-18	SP-02	18:30	5.4	5.5	3170	86.9	12.8	71°20' 42"N 79°14' 43"E
19-Jun-18	SP-03	18:35	6.03	5.5	2695	79.2	0.29	71°20' 43"N 79°14' 51"E
19-Jun-18	SP-04	18:40	6.38	5.7	2142	86.24	53.02	71°20' 44"N 79°14' 54"E
19-Jun-18	SP-05	18:55	5.77	6.1	2964	5.77	5.7	71°20' 42"N 79°14' 44"E
19-Jun-18	SP-06	19:05	5.49	5.1	3117	79	50.1	71°20' 39"N 79°14' 30"E
20-Jun-18	SP-01	12:25	6.07	7.5	2663	53.6	105	71°20' 41"N 79°14' 36"E
20-Jun-18	SP-03	12:45	6.67	4.5	1873	90.1	0	71°20' 43"N 79°14' 51"E
20-Jun-18	SP-04	12:55	6.81	5.5	1983	100.6	0.72	71°20' 44"N 79°14' 54"E
20-Jun-18	SP-05	13:00	6.57	7.6	1865	85.8	1.03	71°20' 42"N 79°14' 44"E
22-Jun-18	SP-01	1:16	6.34	2.7	816	85.2	2.09	71°20' 41"N 79°14' 36"E
22-Jun-18	SP-02	1:25	6.5	3.5	1374	78.3	13.04	71°20' 42"N 79°14' 43"E
22-Jun-18	SP-03	1:30	6.62	2.7	1593	79.7	1.15	71°20' 43"N 79°14' 51"E
22-Jun-18	SP-04	1:37	7.32	3.3	1119	91.1	1.05	71°20' 44"N 79°14' 54"E
22-Jun-18	SP-05	1:43	7.15	3.8	1165	87.5	2.2	71°20' 42"N 79°14' 44"E
22-Jun-18	SP-06	1:50	6.81	3.2	915	72.8	32.95	71°20' 39"N 79°14' 30"E

ALS		Sample ID	L1-02
7/20/2018		ALS ID	L2122777-4
L2122777		Date Sampled	7/3/2018 11:50:00 AM
Analyte	Units	LOR	Water
Conductivity	umhos/cm	3	105
Hardness (as CaCO3)	mg/L	10	51
pH	pH units	0.1	7.95
Total Suspended Solids	mg/L	2	<2.0
Total Dissolved Solids	mg/L	10	49 *
Turbidity	NTU	0.1	0.72
Alkalinity, Total (as CaCO3)	mg/L	10	48
Ammonia, Total (as N)	mg/L	0.02	<0.020
Bromide (Br)	mg/L	0.02	<0.10
Chloride (CI)	mg/L	0.5	0.91
Nitrate and Nitrite as N	mg/L	0.021	0.022
Nitrate (as N)	mg/L	0.021	0.022
Nitrite (as N)	mg/L	0.005	<0.0050
Total Kjeldahl Nitrogen	mg/L	0.15	<0.050
Phosphorus, Total	mg/L	0.003	0.0036
Sulfate (SO4)		0.003	5.51
Dissolved Organic Carbon	mg/L	0.5	1.94
	mg/L	0.5	2.16
Total Organic Carbon	mg/L	0.00001	<0.000010
Mercury (Hg)-Total	mg/L		0.0112
Aluminum (Al)-Total	mg/L	0.003	
Antimony (Sb)-Total	mg/L	0.0001 0.0001	<0.00010 <0.00010
Arsenic (As)-Total	mg/L		0.0072
Barium (Ba)-Total	mg/L	0.00005	<0.0072
Beryllium (Be)-Total	mg/L	0.0005	
Bismuth (Bi)-Total	mg/L	0.0005	<0.00050
Boron (B)-Total	mg/L	0.01	<0.010
Cadmium (Cd)-Total	mg/L	0.00001	<0.000010
Calcium (Ca)-Total	mg/L	0.05	10.5
Chromium (Cr)-Total	mg/L	0.0005	<0.00050
Cobalt (Co)-Total	mg/L	0.0001	<0.00010
Copper (Cu)-Total	mg/L	0.0005	0.00167
Iron (Fe)-Total	mg/L	0.03	<0.030
Lead (Pb)-Total	mg/L	0.00005	<0.000050
Lithium (Li)-Total	mg/L	0.001	<0.0010
Magnesium (Mg)-Total	mg/L	0.05	6.44
Manganese (Mn)-Total	mg/L	0.00007	0.000293
Molybdenum (Mo)-Total	mg/L	0.00005	0.000274
Nickel (Ni)-Total	mg/L	0.0005	0.00053
Potassium (K)-Total	mg/L	0.2	1.19
Selenium (Se)-Total	mg/L	0.001	<0.0010
Silicon (Si)-Total	mg/L	0.1	0.58
Silver (Ag)-Total	mg/L	0.00001	<0.000010
Sodium (Na)-Total	mg/L	0.05	0.601

ALS		Sample ID	L1-02
7/20/2018		ALS ID	L2122777-4
L2122777		Date Sampled	7/3/2018 11:50:00 AM
Analyte	Units	LOR	Water
Strontium (Sr)-Total	mg/L	0.0001	0.00532
Thallium (TI)-Total	mg/L	0.0001	<0.00010
Tin (Sn)-Total	mg/L	0.0001	<0.00010
Titanium (Ti)-Total	mg/L	0.01	<0.010
Uranium (U)-Total	mg/L	0.00001	0.000472
Vanadium (V)-Total	mg/L	0.001	<0.0010
Zinc (Zn)-Total	mg/L	0.003	<0.0030
Aluminum (Al)-Dissolved	mg/L	0.003	0.0062
Antimony (Sb)-Dissolved	mg/L	0.0001	<0.00010
Arsenic (As)-Dissolved	mg/L	0.0001	<0.00010
Barium (Ba)-Dissolved	mg/L	0.00005	0.00717
Beryllium (Be)-Dissolved	mg/L	0.0005	<0.00050
Bismuth (Bi)-Dissolved	mg/L	0.0005	<0.00050
Boron (B)-Dissolved	mg/L	0.01	<0.010
Cadmium (Cd)-Dissolved	mg/L	0.00001	<0.000010
Calcium (Ca)-Dissolved	mg/L	0.05	10.2
Chromium (Cr)-Dissolved	mg/L	0.0005	<0.00050
Cobalt (Co)-Dissolved	mg/L	0.0001	<0.00010
Copper (Cu)-Dissolved	mg/L	0.0005	0.00159
Iron (Fe)-Dissolved	mg/L	0.03	<0.030
Lead (Pb)-Dissolved	mg/L	0.00005	<0.000050
Lithium (Li)-Dissolved	mg/L	0.001	<0.0010
Magnesium (Mg)-Dissolved	mg/L	0.05	6.29
Manganese (Mn)-Dissolved	mg/L	0.00007	0.000165
Mercury (Hg)-Dissolved	mg/L	0.00001	<0.000010
Molybdenum (Mo)-Dissolved	mg/L	0.00005	0.000293
Nickel (Ni)-Dissolved	mg/L	0.0005	<0.00050
Potassium (K)-Dissolved	mg/L	0.2	1.21
Selenium (Se)-Dissolved	mg/L	0.001	<0.0010
Silicon (Si)-Dissolved	mg/L	0.1	0.55
Silver (Ag)-Dissolved	mg/L	0.00001	<0.000010
Sodium (Na)-Dissolved	mg/L	0.05	0.607
Strontium (Sr)-Dissolved	mg/L	0.0001	0.00521
Thallium (TI)-Dissolved	mg/L	0.0001	<0.00010
Tin (Sn)-Dissolved	mg/L	0.0001	<0.00010
Titanium (Ti)-Dissolved	mg/L	0.01	<0.010
Uranium (U)-Dissolved	mg/L	0.00001	0.000456
Vanadium (V)-Dissolved	mg/L	0.001	<0.0010
Zinc (Zn)-Dissolved	mg/L	0.003	<0.0030
Phenols (4AAP)	mg/L	0.001	0.0016
Chlorophyll a	ug/L	0.1	0.18
Phaeophytin a	ug/L	0.1	0.18



AquaTox Testing & Consulting Inc.

B-11 Nicholas Beaver Rd. Puslinch ON N0B 2J0

Tel: (519) 763-4412 Fax: (519) 763-4419

TOXICITY TEST REPORT

Daphnia magna Page 1 of 2

Work Order: Sample Number: 236482 55347

SAMPLE IDENTIFICATION

Company:

ALS Laboratory Group, Waterloo

Sampled By:

Not provided

Location:

Waterloo ON

Time Collected:

16:20 2018-06-20

Job Number:

L2117340

Date Collected: Date Received:

2018-06-22

Substance: Sampling Method:

L2117340-1 L1-02 Not provided

Date Tested:

2018-06-22

Sample Description:

Clear, light yellow, odourless.

Temp. on arrival:

19.0°C

Test Method:

Reference Method for Determining Acute Lethality of Effluents to Daphnia magna. Environment

Canada EPS 1/RM/14 (Second Edition, December 2000, with February 2016 amendments).

	48-h TEST RESULTS		
Substance	Effect	Value	
Control	Mean Immobility	0.0 %	
	Mean Mortality	0.0 %	
100%	Mean Immobility	0.0 %	
	Mean Mortality	0.0 %	

The results reported relate only to the sample tested.

REFERENCE TOXICANT DATA

Toxicant:

Sodium Chloride

Historical Mean LC50:

6.0 g/L

Date Tested:

2018-06-12

Warning Limits (\pm 2SD):

5.6 - 6.4 g/LDm18-11

LC50: 95% Confidence Limits: 6.6 g/L*

Organism Batch:

Statistical Method:

6.3 - 6.9 g/L

Analyst(s):

MDS, SEW, AW

Spearman-Kärber

Daphnia magna CULTURE HEALTH DATA

Time to First Brood:

7 days

Mean Young Per Brood:

28.7

Culture Mortality:

2.2% (previous 7 days)

TEST CONDITIONS

Number of Replicates:

3

Sample Treatment: pH Adjustment:

None None

Test Organisms / Replicate:

10

Test Aeration:

None

Total Organisms / Test Level:

30

Organism Batch:

Dm18-11

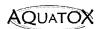
• Organism Loading Rate:

15.0 mL/organism

Test Method Deviation(s):

None

*Note: The reference toxicant test result exceeded the 95% warning limits for historical data. No other unusual circumstances were observed and therefore the test result is considered acceptable.



TOXICITY TEST REPORT

Daphnia magna

Page 2 of 2

Work Order: 236482 Sample Number: 55347

	Hardness (mg/L as CaCO ₃)	Hardness Adjustment	pН	D.O. (mg/L)	Cond. (µmhos/cm)	Temp.	O ₂ Sat. (%)*	Total Pre-Aeration Time (h) @ 30 mL/min/L
Initial Water Chemistry:	48	None	8.1	9.5	85	20.0	109	0:30
			0 hours			Pro Historian make make and an analysis		
Date & Time Technician:	2018-06-22 CZN/TZL	13:50						
Test Conc. (%)	Mortality	Immobility	pН	D.O.	Cond.	Temp.	O ₂ Sat. (%)*	Hardness
100A	0	0	8.1	9.2	99	20.0	106	48
100B	0	0	8.1	9.2	99	20.0	106	48
100C	0	0	8.1	9.2	99	20.0	106	48
Control A	0	0	8.6	8.6	769	20.0	100	240
Control B	0	0	8.6	8.6	769	20.0	100	240
Control C	0	0	8.6	8.6	769	20.0	100	240
Notes:								
			24 hours					
Date & Time Technician:	2018-06-23 MDS	13:50						
Test Conc. (%)	Mortality	Immobility	pН	D.O.	Cond.	Temp.		
100A	_	0	_	-	Anton	20.0		
100B	_	0	_	_	_	20.0		
100C	_	0	_		_	20.0		
Control A	_	0	_	-	_	20.0		
Control B	_	0	_	_		20.0		
Control C	-	0	_	_	_	20.0		
Notes:								
			48 hours					ASSESSED AND ACCOUNT OF THE PROPERTY OF THE PR
Date & Time Technician:	2018-06-24 MDS	13:50						
Test Conc. (%)	Mortality	Immobility	pН	D.O.	Cond.	Temp.		
100A	0	0	8.1	8.5	92	21.0		
100B	0	0	8.2	8.4	99	21.0		
100C	0	0	8.3	8.5	95	21.0		
Control A	0	0	8.6	8.4	780	21.0		
Control B	0	0	8.6	8.4	777	21.0		
Control C	0	0	8.6	8.3	777	21.0		
Notes:								
Control organisms sho		0						
Organism Batch:	Dm18-11							

Number immobile does not include number of mortalities.

⁻ = not measured/not required

 $^{^{\}ast}$ adjusted for actual temp. & barometric pressure



AquaTox Testing & Consulting Inc. B-11 Nicholas Beaver Rd. Puslinch ON N0B 2J0

Tel: (519) 763-4412 Fax: (519) 763-4419

TOXICITY TEST REPORT **Rainbow Trout**

Page 1 of 2

Work Order: Sample Number: 236482 55347

SAMPLE IDENTIFICATION

Company:

ALS Laboratory Group, Waterloo

Sampled By:

Not provided

Location:

Waterloo ON

Time Collected: Date Collected:

16:20 2018-06-20

Job Number:

L2117340

2018-06-22

Substance:

L2117340-1 L1-02

Date Received:

Sampling Method:

Not provided

Date Tested:

2018-06-22

Sample Description:

Clear, light yellow, odourless.

Temp. on arrival: 19.0°C

Test Method:

Reference Method for Determining Acute Lethality of Liquid Effluents to Rainbow Trout.

Environment Canada, EPS 1/RM/13 (2nd Edition, December 2000, with May 2007 and February 2016

amendments).

96-h TEST RESULTS

Substance	Effect	Value
Control	Mean Immobility	0.0 %
	Mean Mortality	0.0 %
100%	Mean Immobility	0.0 %
	Mean Mortality	0.0 %

The results reported relate only to the sample tested and as received.

POTASSIUM CHLORIDE REFERENCE TOXICANT DATA

Organism Batch: 2018-06-08 T18-14 Date Tested: LC50: 3308 mg/L Historical Mean LC50: 3710 mg/L 3012 - 3772 mg/L 95% Confidence Limits: Warning Limits (\pm 2SD): 3074 - 4476 mg/L Statistical Method: Linear Regression (MLE) Analyst(s): FS, TA, AW

TEST FISH

Control Fish Sample Size: 10 Cumulative stock tank mortality: 0 % (prev. 7 days) Mean Fish Weight (± 2 SD): $0.39 \pm 0.20 \text{ g}$ Mean Fish Fork Length (\pm 2 SD): 36.7 ± 6.9 mm Range of Weights: 0.21 - 0.52 g 30 - 40 mm Range of Fork Lengths (mm):

Fish Loading Rate: 0.2 g/L

TEST CONDITIONS

Test Organism: Oncorhynchus mykiss Volume Tested (L): 19 Sample Treatment: None Number of Replicates: 1 pH Adjustment: None Organisms Per Replicate: 10 Test Aeration: Yes Total Organisms Per Test Level: 10 Pre-aeration/Aeration Rate: $6.5 \pm 1 \text{ mL/min/L}$ Test Method Deviation(s): None

Date: 3018-06-26

yyyy-mm-dd

Approved by: Mancy Messer Project Manager



TOXICITY TEST REPORT **Rainbow Trout**

Page 2 of 2

Work Order:
Sample Number:

236482

55347

Total Pre-Aeration			pН	D.O. (mg/L)	Cond. (µmhos/cm)	Temp.	O ₂ Sat. (%)*
Time (h) 0:30	Initial W	/ater Chemistry:	7.7	9.1	84	16.0	
		ry after 30min air:	7.7	9.3	86	16.0	99
		0 hou	ırs				·
Date & Time Technician:	2018-06-22 TA	13:50					
Test Conc. (%)	Mortality	Immobility	pН	D.O.	Cond.	Temp.	O ₂ Sat. (%)*
100	0	0	7.7	9.3	86	16.0	99
Control	0	0	8.1	9.7	872	14.5	99
Notes:							
		24 ho	urs				
Date & Time Technician:	2018-06-23 TA(SF)	13:50					
Test Conc. (%)	Mortality	Immobility	pН	D.O.	Cond.	Temp.	
100	0	0	_	-	_	14.0	
Control	0	0		_	_	14.0	
Notes:							
H. H. A. C. S. Lee Lee Communication of the second		48 ho	urs				
Date & Time Technician:	2018-06-24 TA(SF)	13:50					
Test Conc. (%)	Mortality	Immobility	pН	D.O.	Cond.	Temp.	
100	0	0	_		_	14.0	
Control	0	0		_	_	14.0	
Notes:							
		72 hou	urs				
Date & Time Technician:	2018-06-25 MW(FS)	13:50					
Test Conc. (%)	Mortality	Immobility	pН	D.O.	Cond.	Temp.	
100	0	0	_	-	_	15.0	
Control	0	0	Management	_	_	15.0	
Notes:							
		96 hou	ırs				
Date & Time Technician:	2018-06-26 FS	13:50					
Test Conc. (%)	Mortality	Immobility	pН	D.O.	Cond.	Temp.	
100	0	0	7.9	8.8	89	15.0	
Control	0	0	8.1	9.5	821	15.0	
Notes:							

Control organisms showing stress:

Organism Batch:

T18-14

Number immobile does not include number of mortalities.

Test Data Reviewed By: The Date: Zol8-06-26

[&]quot;-" = not measured/not required

^{*} adjusted for actual temp. & barometric pressure

CHAIN OF CUSTODY RECORD

AqueTox Work Order No. 236482.

20-22m-18 A) ACS. Sample Storage (prior to shipping): Field Sampler Name (print): Custody Refinquished by: Date/Time Shipped: P.O. Number:

AquaTox Testing & Consulting Inc. B-11 Nicholas Beaver Road Puslinch, Ontario Canada N0B 2J0 Shipping Address:

Fax: (519) 763-4419 Voice: (519) 763-4412

Haw thorne Q 4 162705399-18 Environmental /Rick 4 HOP 6910 Waterloo Smith 988-286 Wayne 519 5 Contact Phone: Cilent Fax

	Sample Identification		H			Anahe	Analyses Danisotad	I.		T	1	
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- 2		AquaTox Temp. on Sample Number arrival	wodnisR		BinniqsQ	sinfqsQ	Surviva Sañode Sur		anpesby			# of Containers and Volume
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Please list any special requests or instructions:	1500 Lan 1300 L. J. 1945		Carlo Company	` ` ` ` `		
	4	2018	Co.			

For Lab Use Only

Received By:

Storage Temp.(C)





Subcontract Request Form

Subcontract To:

AQUATOX TESTING AND CONSULTING

11B NICHOLAS BEAVER ROAD RR3 GUELPH,ON N1H 6H9

NOTES:	Please reference on fina ALS requires QC data to			117340 Its.		
Please see	enclosed 1 sa	nple(s) i	n <u>û</u> Container(s	s) .		
SAMPLE NUMBER	ANALYT	ICAL REQI	JIRED	DATE	SAMPLED DUE DATE	Priority Flag
L2117340-1		equest Ac	untoy (CRECIAL REQUESTS		2018	E
			uatox (SPECIAL REQUEST: uatox (SPECIAL REQUEST-		6/28/2018 6/28/2018	
	Info Contact: reporting info contact:	Rick Ha 60 NOR	Houm (519) 886-6910 wthorne THLAND ROAD, UNIT 1 LOO,ON N2V 2B8			
Dioann		Phone:	(519) 886-6910		ck.Hawthorne@als	global.com
Shipped By:	il confirmation of rece		Rick.HawthorsDate Shipped:	ne@alsglob	al.com	
Received By:			Date Received:			
/erified By:			Date Verified:	***************************************		
Sample Integr	rity Issues		Temperature:			









NT-NU SPILL REPORT

NT-NU 24-HOUR SPILL REPORT LINE

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

REPORT LINE USE ONLY

									REPORT LINE USE ONLY
Α	REPORT DATE: MONTH – DAY 06-20-2018	-YEAR		REPORT TI	ME	IX ○	PRIGINAL SPILL REP	ORT,	REPORT NUMBER
В	OCCURRENCE DATE: MONTH	– DAY – YEAR		OCCURRE			IPDATE # THE ORIGINAL SPILL	REPORT	<u>18 - 244 </u>
	LAND USE PERMIT NUMBER (IE APPLICARLE)			/ATER LICENCE NUMB	REB (IE /	APPLICARLE)		
С	IOL - Commercial	Lease: Q13C301		:	2AM-MRY132				
D	GEOGRAPHIC PLACE NAME OF Mary River Mine S			OCATION	REGION		= 45 446547 1115	JOB JOT JON	00 005 44
	LATITUDE	orte, Dariii Iolalia	.,	L	□NWT XINUN/ ONGITUDE	AVUI	☐ ADJACENT JUR	ISDICTION	OR OCEAN
Ε	DEGREES 71	MINUTES 20	SECONDS 38		EGREES 79		MINUTES 14	SE	ECONDS 19
F	RESPONSIBLE PARTY OR VES Baffinland Iron Mi				ress or office Loc ad East, Suite		, Oakville, O	N L6H	0C3
\sim	ANY CONTRACTOR INVOLVED)		ADDRESS O	R OFFICE LOCATION				
G	N/A		N/A				1		
	PRODUCT SPILLED Surface Water		Unquantity in Li		GRAMS OR CUBIC ME	TRES	U.N. NUMBER		
Н	SECOND PRODUCT SPILLED ((IF APPLICABLE)			GRAMS OR CUBIC ME	TRES	U.N. NUMBER		
	N/A		N/A				N/A		
1	SPILL SOURCE Waste Rock Stock	kpile	SPILL CAUSE High ove	rland fl	ow		AREA OF CONTAMI	ination in	SQUARE METRES
J	FACTORS AFFECTING SPILL C Drainage to tundr	DESCRIBE ANY	ASSISTANC	E REQUIRED		HAZARDS TO PERS	SONS, PRO	PERTY OR EQUIPMENT	
	ADDITIONAL INFORMATION, C		OSED OR TAKEN TO	O CONTAIN,	RECOVER OR DISPO	SE OF S	FILLED PRODUCT A	AND CONTA	MINATED MATERIALS
K	observed water so have pH levels be within ditch and s seepage runoff. P waste rock stock follow-up report. spill is being repo 9(b); under the Fis as required by the	elow 6.0. The capa seepage containe reliminary testing oile. Water quality The seepage occ orted as required sheries Act as re e Government of	acity of the d. The perii g indicates y monitorin urred on IO by the cond quired by s Nunavut's,	drainag meter e impact g resul L locat ditions ection Enviro	ge ditch was mergency dit ed water was ts and correc ed > 3 km fro of water licer 31 of the Meta nmental Prote	incre in the tive m ne nse n al Mi ectio	eased to elin vas also exte ne immediat actions will earest fish b no. 2AM-MR\ ning Effluen on Act parag	ninate pended to e vicinibe presented for the pr	oooling to contain ity of the sented in the water. This Part H , item lations; and 1(a).
L	REPORTED TO SPILL LINE BY Connor Devereau			EMPLOYER Baffin			CATION CALLING FRO		ELEPHONE ext. 6016
	ANY ALTERNATE CONTACT	POSITION	teriderit	EMPLOYER		_	ERNATE CONTACT		LTERNATE TELEPHONE
M	Tim Sewell	Head of Envi	ronment	Baffin	land	L 4	16-364-8820		ext. 6054
			REPORT LIN						
IN	RECEIVED AT SPILL LINE BY	POSITION		EMPLOYER	1		CATION CALLED		REPORT LINE NUMBER
Ë		STATION OPERATOR					LOWKNIFE, NT		867) 920-8130
LEA	DAGENCY DEC DCCG DG	GNWT □ GN □ ILA □ INA	C □ NEB □ TC	SIGNIF	ICANCE MINOR	MAJOR	□UNKNOWN	FILE STATU	JS OPEN CLOSED
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SEC	OND CURRORT ACENCY								
SEC	OND SUPPORT AGENCY								

PAGE 1 OF __1__

Figure 3 - NT-NU Spill report



August 22, 2018

Jonathan Mesher, Resource Management Officer Nunavut Field Operations Indigenous and Northern Affairs Canada Box 100 Igaluit, NU X0A 0H0 Curtis Didham, Enforcement Officer Environment and Climate Change Canada 933 Mivvik Street Iqaluit, NU X0A 0H0

Re: Follow-up to Spill #18-286, Reported on July 23, 2018
Mary River Project - Water Licence No. 2AM-MRY1325

Summary:

On July 22, 2018, authorities were notified that a tug owned by Group Ocean (OCEAN K. RUSBY) had experienced equipment malfunction on the starboard oil pump z-drive clutch while travelling through Eclipse Sound. The vessel reported to be slowly loosing gear oil, and proceeded to the intended destination, Milne Inlet Port. The OCEAN K. RUSBY arrived and docked at the Baffinland Port Ship Loader dock that evening. Baffinland proactively deployed oil containment booms and sorbents around the vessel immediately, containing the release and the oil circuit was blanked. Group Ocean reported to regulators that approximately 30 liters of gear oil was released during the incident prior to boom containment at the Baffinland Port Ship Loader dock. A sheen and minor product was visible by helicopter reconnaissance travelling up the channel into Milne Inlet. Spill recovery efforts were initiated. Helicopter reconnaissance continued and showed that the release was readily dissipating through weather and wave action. A call was held with Group Ocean and the Canadian Coast Guard (CCG) on July 24th in which the CCG stated that spill recovery methods were not recommended.

Immediate and Follow-Up Action:

Upon the tug's arrival at the Milne Port Ship Loading dock, emergency response and spill containment procedures were activated immediately around the OCEAN K. RUSBY, under the Spill at Sea Response Plan (SSRP) and the Shipboard Oil Pollution Emergency Response Plan (SOPEP). On July 23rd OCEAN K. RUSBY was moved from the west side of the dock to the east side of the dock for safety and operations rationale. During the vessel move, double spill containment booms remained in place, encircling the vessel and were tightened and locked in place upon completion. On July 27th divers surveyed the hull of the vessel and assessed the equipment malfunction and damage. Residual product was cleaned and recovered from the damaged engine and hull of the tug with sorbents. Once no further sheen was observed on the hull or within the spill containment booms the OCEAN K. RUSBY was released after being cleared for use by CCG.

Recommendations:

Baffinland will continue to ensure marine spill response equipment is stocked and response personnel are trained in safe and efficient deployment. Update and evaluate spill response materials available at Milne Port: Mount vertical spill boom anchors on the Ship Loader Dock for decreased deployment time.

Current Status:

OCEAN K. RUSBY has ceased operation of the affected engine and is currently operating in Milne Inlet. No sheen or impact visible in the Inlet from the incident.

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:

Reviewed by:

Bell Bouder

Benjamin Widdewern

Ben Widdowson Environmental Coordinator William Bowden Environmental Superintendent

Attach: Photos, Map, NT-NU Spill Report

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





Photo 1 – OCEAN K. RUSBY at Milne Port upon arrival with two spill containment booms in place, July 22nd, 2018.





Photo 2 – July 24th, 02:00. Vessel following relocation contained within double booms.





Photo 3 – OCEAN K. RUSBY at East side of Milne Port Ship Loading dock with two spill containment booms in place, July 27th, 2018.





Figure 1 – Map of spill containment location at Milne Inlet.



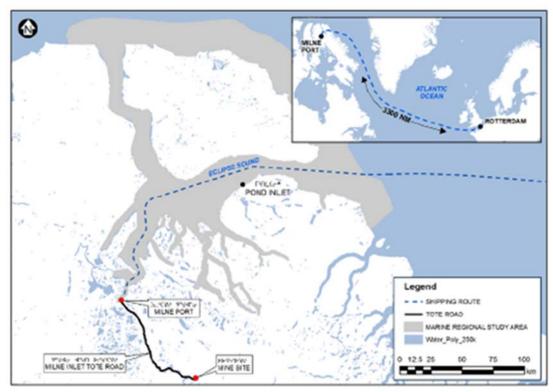


Figure 2 – Shippping route and map.







Canadä

NT-NU SPILL REPORT

NT-NU 24-HOUR SPILL REPORT LINE

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

194									REPORT LINE USE ONLY	
Α	REPORT DATE: MONTH - DAY - Y 07-22-2018	EAR		23:45		IX:	ORIGINAL SPILL REF	PORT,	REPORT NUMBER	
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_	LAND USE PERMIT NUMBER (IF A				WATER LICENCI	E NUMBER (IF	APPLICABLE)			
C	IOL - Commercial L	ease: Q13C301			2AM-MR	Y1325 Ty	pe "A"			
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Е	LATITUDE DEGREES MI	INUTES	SECONDS		LONGITUDE DEGREES		MINUTES	SI	ECONDS	
F	RESPONSIBLE PARTY OR VESSE OCEAN K. RUSBY	EL NAME			DRESS OR OFFI Martin, #5		ec, QC G1K	8N1		
_	ANY CONTRACTOR INVOLVED		CONTRACTOR	ADDRESS	OR OFFICE LOC	CATION	100 mm = 100			
G	Groupe Ocean		105, Abr	raham-l	Martin, #5	00 Queb	ec, QC G1K	8N1		
	PRODUCT SPILLED		QUANTITY IN L	ITRES, KILO	OGRAMS OR CU	BIC METRES	U.N. NUMBER			
	Gear Oil		Approx.	30 litre	es		N/A			
Н	SECOND PRODUCT SPILLED (IF .	QUANTITY IN L	ITRES, KILO	OGRAMS OR CU	BIC METRES	U.N. NUMBER				
	N/A N						N/A			
Ţ	SPILL SOURCE		SPILL CAUSE	er - segment - se	2		AREA OF CONTAMINATION IN SQUARE METRES			
	Ocean Tug		Mechani	ical Fai	lure		unknown			
J	FACTORS AFFECTING SPILL OR RECOVERY DES			ESCRIBE ANY ASSISTANCE REQUIRED				HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT N/A		
		MENTS ACTIONS PROPO	OSED OB TAKEN	TO CONTAIN	I DECOVED OD	DISPOSE OF	SPILLED PRODUCT AND CONTAMINATED MATERIALS			
	z-drive clutch while	travelling throu	ugh Eclips	ced equ	uipment n nd. The ve	nalfuncti ssel rep	ion on the st orted to be s	arboard lowly l	oosing gear	
K	z-drive clutch while oil, and proceeded the Baffinland Port	travelling through to the intended Ship Loader do ne vessel and the ters of gear oil we p Loader dock. Inlet. The invest eporting as requ	ugh Eclips destination ock that evere oil circu was releas A sheen was digation is	ced equese Sound on, Miln rening. I it was I sed duri was visi ongoin /ater Lic	uipment not. The ve le Inlet. Of An oil cor blanked. C ing the ind ble by he log and fur cence 2AI	nalfuncti ssel repo CEAN K. ntainmer Groupe C cident pr licopter i ther deta M-MRY13	ion on the st orted to be s RUSBY arrivat boom and Ocean report rior to boom reconnaissal ails will be po 325, Part H, I	arboard lowly leved and sorbent ed to re contain noe tran	d oil pump cosing gear d docked at its were egulators that nment at the velling up the l in the	
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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



September 12, 2018

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 #18-324, Reported on August 13, 2018
Mary River Project - Water Licence No. 2AM-MRY1325

Summary:

On August 12, 2018 at approximately 12:00hrs, an operator was filling the second compartment of fuel tanker (FLT-004) at the designated Milne Port Fueling Module, when the operator determined that fuel had begun to release from the tanker overflow. The operator immediately stopped the pump, closed the valve and utilized sorbents to arrest and contain the release. Approximately 200L of diesel fuel was released to the ground surface impacting an approximate area of 15m2 within the lined engineered containment berm of the refueling area. The spill occurred >100 m to the nearest water course and had no possibility of migration from the affected area.

Immediate and Follow-Up Action:

The operator immediately shut off the fuel pump, closed the valves and laid down spill pads to contain the spill. The contaminated material was removed and properly disposed of in the landfarm. New material was placed and leveled to return the lined refueling area cover substrate back to its original state. Standard operating procedures have been reviewed with operators and the importance of monitoring levels at all times.

Recommendations:

Procurement of overfill protection system that can be outfitted on all fuel trucks used at the Project to eliminate operator error.

Current Status:

The refueling and transportation of fuel continues and no further incidents have occurred.

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

Prepared By:

Connor Devereaux

Environmental Superintendent

Reviewed by:

James Martin

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 before clean-up



Photo 2. Spill location following clean-up



Figure 1 – Map of spill location



NT-NU SPILL REPORT

OIL. GASOLINE. CHEMICALS AND OTHER HAZARDOUS MATERIALS

NT-NU 24-HOUR SPILL REPORT LINE

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

										REPORT LINE USE ONLY
Α	REPORT DATE: MONTH - DAY - 08-13-2018	- YEAR		13:00			XORIGI OR	INAL SPILL REF	PORT,	REPORT NUMBER
В	OCCURRENCE DATE: MONTH- 08-12-2018	I – DAY – YEAR		12:00		TIME	□ UPDA	ORIGINAL SPIL	L REPORT	18 - 324
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Figure 2 - NT-NU Spill report