

Report on Actions Taken:

June 7th 2016, Fisheries Act Direction (File number: 4408-2016-05-10-001) and Response to June 16, 2016, INAC Letter of Non-Compliance Bi-Weekly Report No. 6 for Period September 2 to September 16, 2016



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Spill Report 16-198 - Camp Lake Tributary 1

Spill Report 16-202 - Milne Inlet Tote Road, Tributaries to Mary Lake, David Lake, and Muriel

Spill Report 16-202 – Update 1 - Milne Inlet Tote Road, Tributaries to Muriel Lake (BG-31) and David Lake (BG-28)



Appendix B - Surface Water Quality and Acute Toxicity Results for Affected Areas

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Report Basis

The document provided, herein, is the sixth bi-weekly progress report as required under the June 7 Fisheries Direction provided by Environment Canada (page 6, Measures to be Taken, Item 1) and reports on the period September 2nd through September 16th. Specifically, the bi-weekly reports are to provide updates on the actions taken to address sedimentation issues and ongoing actions being taken at the site to address Items 2 and 3 as outlined in the Fisheries Direction. Previous actions, including pre-freshet actions, were reported on in the June 24th, 2016, Report on Actions Taken and subsequent Bi-Weekly Reports Nos. 1 to 5, incl.



1. Unauthorized Releases and Contributing Factors

A number of unauthorized releases of sediment were reported to Environment Canada (EC), Indigenous and Northern Affairs Canada (INAC), and the NT-NU Spill Line during the months of May and June. These included the Spill Report numbers 16-158, 16-176, 16-181, 16-198, 116-202, and 116-202 Update No. 1. Copies of the original Spill Reports are provided in Appendix A. During the current reporting period, there were no further unauthorized sediment releases reported.

During the reporting period, the monitored streams and tributaries continued to run visually clear of sediment. Near the end of this reporting period, sub-zero temperatures have resulted in the freeze up of many of the monitored streams.

Retention of Third Party Expertise

When sediment release events were first observed and reported, third party expertise was retained and these individuals were brought to site. A list of those individuals and support provided was detailed in the June 24th, 2016, Report on Actions Taken. We continue discussions with those various individuals to provide advice as warranted. During the reporting period, the following consultants/contractors provided assistance:

- In early August, Golder was selected as the key consultant to support Baffinland in the development of the Dust Mitigation Action Plan and the Tote Road and Mine Haul Road Mitigation Action Plans. Action and mitigation plans continued to be developed during this reporting period.
- In late August and early September, Nuna Logistics was contracted to complete select environmental work for Baffinland. This work included the maintenance and clearing of sediment from the ditching system and sumps upstream of culverts and check dams adjacent to the Mine Haul road. The planned work was completed.

2. Water Quality and Acute Toxicity Sampling Results for Areas of Concern

Spill Reports for sediment releases are provided in Appendix A. Potential receivers for the sediment releases included Sheardown Lake, Sheardown Lake Tributary, Camp Lake, Camp Lake Tributaries, Mary River and Mary River Tributaries, David Lake and David Lake Tributaries, Muriel Lake and Muriel Lake Tributaries.

Available water quality and acute toxicity results for Sheardown Lake, Camp Lake, and Mary River systems are provided in Appendix B. These results include data provided in the previous reports covering the period up to September 5th, 2016, as well as new results that became available during the current reporting period. GPS coordinates and maps are provided to show approximate sample locations as well as the location of structures that were installed to mitigate the sediment concerns.



Water quality results have been compared to the Effluent Quality Discharge Limits for Contact Water (Table 11) provided in the Type "A" Water Licence No. 2AM-MRY1325 for the Mary River Project, which are summarized in the table below:

Parameter	Maximum Average Concentration	Maximum Concentration of any
	(mg/L)	Grab Sample (mg/L)
Total Suspended Solids (TSS)	15	30
Oil and Grease	No Visible Sheen	No Visible Sheen
pH	Between 6.0 and 9.5	Between 6.0 and 9.5

Note that in areas where there is or has been active construction, the following effluent discharge limits apply:

Parameter	Maximum Average Concentration	Maximum Concentration of any
	(mg/L)	Grab Sample (mg/L)
Total Suspended Solids (TSS)	50	100
Oil and Grease	No Visible Sheen	No Visible Sheen
pH	Between 6.0 and 9.5	Between 6.0 and 9.5

During the current September 2nd to September 16th reporting period, low flows at LDFG-OUT resulted in sediment being stirred up during sampling on September 5th, resulting in a TSS of 22 mg/L. Continued low flows and freeze-up shortly after prevented the resampling of LDFG-OUT. Similarly, low flows, winter storms and freeze-up prevented the collection of water samples at the monitored streams (culverts) along the Tote Road. Due to decreasing sub-zero temperatures and freeze up, periodic water quality monitoring has been discontinued for the year.

All other monitored locations showed no exceedances to the Water Licence criteria listed above during the reporting period.

Due to the historically non-lethal water quality results over the reporting period for the areas of concern, further acute toxicity analyses was not performed. Previous acute toxicity analyses have shown non-lethal results from the discharge water samples that were collected and reported previously.

3. Corrective Measures for Reported Spills and Other Concerns

3.1. Immediate actions undertaken to address issues

A number of immediate actions were undertaken to address sediment releases to water bodies that were documented in the Spill Reports submitted to authorities. These actions were presented in previous Reports on Actions Taken.

In the case of the Milne Ore Pad and the Mine Site Ore Pad drainage and collection systems, construction of ditch systems were completed by June 15 and July 15, respectively. As of those dates, the ditching systems were functional and currently performance is under observation and evaluation. Construction Summary Reports (CSRs) for the facilities are currently in preparation and will be submitted to the Nunavut Water Board within three months after the substantial completion of construction.

3.2. Detailed work completed by area of concern

Any new work actions taken during the September $2^{nd} - 16^{th}$ reporting period for the areas of concern are provided in Appendix C. Actions taken are appended to the overall action list provided in the previous work action lists. In addition, new photos for the current reporting period are provided as warranted. Appendix C is subdivided as follows:



Appendix C.1: Spill Report 16-158 - Sheardown Lake Tributaries and Sheardown Lake.

Appendix C.2: Spill Report 16-176 - Camp Lake Tributaries and Camp Lake.

Appendix C.3: Spill Report 16-181- Mine Haul Road to Mary River and Sheardown Lake Tributary.

Appendix C.4: Spill Report 16-198 - Camp Lake Tributary 1

Appendix C.5: Spill Report 16-202 and Update No. 1 - Milne Inlet Tote Road, Tributaries to Mary Lake, David Lake, and Muriel Lake.

Appendix C.6: Milne Port Ore Stockpile Drainage Collection System.

Appendix C.7: Impacted Snow Removal from Milne Beach and Tote Road Bridges

4. Next Steps

4.1. Bi-weekly update reports

This will be the last biweekly update report (No. 6) before the completion report is submitted by September 30, 2016.

4.2. Completed construction repairs

Construction repairs for the areas of concern including the Milne Port Ore Stockpile Drainage system and the Mine Site Crusher Stockpile Pad have been substantially completed by the established July 17, 2016, deadline.

4.3. Lessons-learned

Baffinland will conduct an extensive review and analyses of lessons- learned with regard to sedimentation issues along the roads and at the camps. Key conclusions and recommendations will be provided in the Completion Report which will be provided to regulators and inspectors. Baffinland will be open to any comments and recommendations received and will make revisions as is appropriate.

4.4. Long-term action plans

Longer term action plans related to dust mitigation and Tote Road work as related to drainage considerations are underway and will be provided by September 30, 2016.

4.5. Completion Report

A completion report that summarizes the results of all work to date and is signed off by the CEO of the company will be provided by September 30, 2016.

Appendix A

NT-NU Spill Reports

Spill Report 16-158 - Sheardown Lake Tributaries and Sheardown Lake.

Spill Report 16-176 - Camp Lake Tributaries and Camp Lake.

Spill Report 16-181- Mine Haul Road to Mary River and Sheardown Lake Tributary.

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Spill Report 16-202 – Update 1 - Milne Inlet Tote Road, Tributaries to Muriel Lake (BG-31) and David Lake (BG-28)





Canadä 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	05-10-2016	ILAII		14:30 HRS		DRIGINAL SPILL REPORT,	REPORT NUMBER		
В	OCCURRENCE DATE: MONTH – E	TH – DAY – YEAR		19:00 HRS		JPDATE # THE ORIGINAL SPILL REPO	DRT 16 - 158		
С	IOL - Commercial L	301	WATER LICENCE 2AM-MRY	,	,				
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Н	sediment / discolor		_	fied at present t		N/A			
11	SECOND PRODUCT SPILLED (IF $\mathbf{N/A}$	APPLICABLE)	QUANTITY IN LIT	RES, KILOGRAMS OR CUE	BIC METRES	U.N. NUMBER			
Ι	SPILL SOURCE Melting snow		spill cause suspected	d entrained dus	t	AREA OF CONTAMINATIO	N IN SQUARE METRES		
J	FACTORS AFFECTING SPILL OR Snow covered area		DESCRIBE ANY A	ASSISTANCE REQUIRED		HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT N/A			
	On Saturday, May 7, 2016, a snowmelt event occurred at the Mine Site. Runoff containing sediments and discoloured water were observed to flow into Sheardown Tributary and Sheardown Lake at around 1900 HRS. The source of the suspected off-spec drainage was dirty snow located downwind of the Crusher Pad. The event resulted in some siltation/discoloured water in two streams flowing from adjacent areas onto and under the ice of Sheardown Lake. In accordance with the Surface Water Management Plan, controls were implemented that included installation of silt fences and the deployment of flocculent and treated jute to settle sediments prior to discharge. Further actions are planned that will reduce the potential impact from the dirty snow source area. Dirty snow removal, check dam/sump construction, and additional flocculation are being considered. Daily monitoring of the water quality and flow is ongoing. Spill report updates will be provided as warranted. A follow-up report documenting the occurrence and providing recommendations will be submitted within 30 days								
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REPORT DATE: MONTH - DAY - YEAR

NT-NU SPILL REPORT

OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS

REPORT TIME

NT-NU 24-HOUR SPILL REPORT LINE

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

REPORT LINE USE ONLY

A	05-17-2016		19:0	0 hrs	IX OF OR	RIGINAL SPILL REPORT,	REPORT NUMBER
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G	ANY CONTRACTOR INVOLVED N/A		CONTRACTOR ADDRESS	S OR OFFICE LOCA	TION		
	PRODUCT SPILLED Sediment		QUANTITY IN LITRES, KI Unquantified			J.N. NUMBER N/A	
Н	SECOND PRODUCT SPILLED (IF APPLICABLE)	QUANTITY IN LITRES, KI	LOGRAMS OR CUBI	C METRES	U.N. NUMBER N/A	
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LEAD	AGENCY DEC DCCG DG	iNWT □ GN □ ILA □ INAC	□ NEB □ TC SIGI	NIFICANCE - MINC	R - MAJOR I	UNKNOWN FILE S	TATUS □ OPEN □ CLOSED
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REPORT DATE: MONTH - DAY - YEAR

NT-NU SPILL REPORT

OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS

REPORT TIME

NT-NU 24-HOUR SPILL REPORT LINE

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

REPORT LINE USE ONLY

B 05-20-2016 19:00 hrs 10-00 hrs 10-	A	REPORT DATE: MONTH – DAY 05-21-2016	′–YEAR		21:00			▼ORIGINAL SPILL REPORT,		REPORT NUMBER
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C IOL - Commercial Lease: 013G301 D SECORAPHIC PLACE NAME OR DISTRINGS AND DIRECTION PROMINAMED LOCATION Mary River Mine Site, Baffin Island, NU E TATTUDE E SECONDS DEGREES MINUTES SECONDS RESPONSIBLE PARTY OR VESSEL NAME BAffin Island Iron Mines Corp. 2275 Middle Road East, Sutle 300, Oakville, ON L6H 0C3 ANY CONTRACTOR NOUVED N/A PRODUCT SPILLED OF APPLICABLE) N/A PRODUCT SPILLED OF APPLICABLE) N/A N/A PRODUCT SPILLED OF APPLICABLE) N/A N/A SPILL SOUNCE Melt Water Melting of snow on road base N/A ADDITIONAL NOCAMENTS, ACTIONS PRODUCES OF REVENTY ON TRUST OF SPILLED PRODUCT AND CONTRACTOR NAME TO CONTRACTO	В			19:00 hrs				L REPORT	10 - 101	
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Melt Water	H		(IF APPLICABLE)		ITRES, KILC	GRAMS OR CUI	BIC METRES			
DESCRIBE ANY ASSISTANCE REQUIRED N/A ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS On May 20 and 21, 2016, runoff containing sediment was observed to be flowing from the surface of the Mine Haul Road through several breaks (punch outs) on the outer edge of the road. The punch outs were installed to allow contact water on the road surface to be efficiently discharged from the road surface. On the afternoon of May 19, discharges of contact water increased and it became apparent that there was risk to Mary River and Sheardown tributary/Lake. The berm punch outs were sealed and road contact water has been diverted to three selected locations that will minimize potential flows to downstream fish habitat and water bodies. Check dams, silt fences/curtains, floculants are being utilized to assist with this initial effort. It is expected that the sediment will settle and will be discharged back to the receiving environment. Report updates will be provided with further information in the near future. This incident is being reported as required by the conditions of Water Licence No. 2AM-MRY1325 and as required by subsection 38(4) of the Fisheries Act. L REPORTED TO SPILL LINE BY DISTION EMPLOYER Baffinland Provided With Env. Superintendent Provided With Env. Sup					_				IINATION IN	SQUARE METRES
ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS On May 20 and 21, 2016, runoff containing sediment was observed to be flowing from the surface of the Mine Haul Road through several breaks (punch outs) on the outer edge of the road. The punch outs were installed to allow contact water on the road surface to be efficiently discharged from the road surface. On the afternoon of May 19, discharges of contact water increased and it became apparent that there was risk to Mary River and Sheardown tributary/Lake. The berm punch outs were sealed and road contact water has been diverted to three selected locations that will minimize potential flows to downstream fish habitat and water bodies. Check dams, silt fences/curtains, floculants are being utilized to assist with this initial effort. It is expected that the sediment will settle and will be discharged back to the receiving environment. Report updates will be provided with further information in the near future. This incident is being reported as required by the conditions of Water Licence No. 2AM-MRY1325 and as required by subsection 38(4) of the Fisheries Act. L REPORTED TO SPILL LINE BY Jim Millard Env. Manager Baffinland Mary River 647-253-0596 M ANY ALTERNATE CONTACT Allan Knight Env. Superintendent Env. Superintendent Baffinland Position Allen From Alternate Contact Allan Knight For Station Operator Station Operator Report Line Use ONLY REPORT LINE USE	1						base			
On May 20 and 21, 2016, runoff containing sediment was observed to be flowing from the surface of the Mine Haul Road through several breaks (punch outs) on the outer edge of the road. The punch outs were installed to allow contact water on the road surface to be efficiently discharged from the road surface. On the afternoon of May 19, discharges of contact water increased and it became apparent that there was risk to Mary River and Sheardown tributary/Lake. The berm punch outs were sealed and road contact water has been diverted to three selected locations that will minimize potential flows to downstream fish habitat and water bodies. Check dams, silt fences/curtains, floculants are being utilized to assist with this initial effort. It is expected that the sediment will settle and will be discharged back to the receiving environment. Report updates will be provided with further information in the near future. This incident is being reported as required by the conditions of Water Licence No. 2AM-MRY1325 and as required by subsection 38(4) of the Fisheries Act. L REPORTED TO SPILL LINE BY Jim Millard Env. Manager Baffinland Mary River 647-253-0596 M ANY ALTERNATE CONTACT POSITION EMPLOYER LOCATION CALLING FROM FLOVER Affinland Sufficiency Sufficiency Station Operators S	J				' ASSISTAN	CE REQUIRED		HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT N/A		
the Mine Haul Road through several breaks (punch outs) on the outer edge of the road. The punch outs were installed to allow contact water on the road surface to be efficiently discharged from the road surface. On the afternoon of May 19, discharges of contact water increased and it became apparent that there was risk to Mary River and Sheardown tributary/Lake. The berm punch outs were sealed and road contact water has been diverted to three selected locations that will minimize potential flows to downstream fish habitat and water bodies. Check dams, silt fences/curtains, floculants are being utilized to assist with this initial effort. It is expected that the sediment will settle and will be discharged back to the receiving environment. Report updates will be provided with further information in the near future. This incident is being reported as required by the conditions of Water Licence No. 2AM-MRY1325 and as required by subsection 38(4) of the Fisheries Act. L REPORTED TO SPILL LINE BY Jim Millard Env. Manager Baffinland Mary River 647-253-0596 M ANY ALTERNATE CONTACT Allan Knight Env. Superintendent Baffinland Mary River 647-253-0596 N REPORT LINE USE ONLY REP		ADDITIONAL INFORMATION, O	COMMENTS, ACTIONS PROPO	OSED OR TAKEN T	O CONTAIN	I, RECOVER OR	DISPOSE OF	SPILLED PRODUCT	AND CONTAI	MINATED MATERIALS
Mary River G47-253-0596	K	road surface. On apparent that the sealed and road of potential flows to floculants are bei and will be discha- further information	the afternoon of re was risk to Mar contact water has downstream fish ing utilized to ass arged back to the on in the near futu	May 19, dis been diven habitat an ist with this receiving one.	scharg d Shea rted to id wate s initia enviror icident	es of cont irdown tri three sele ir bodies. I effort. It nment. Re is being i	tact wate butary/L ected loe Check d is expect port uporeported	er increased ake. The ber cations that values, silt fencted that the dates will be	and it by me punctured in the puncture in the	pecame th outs were imize tains, nt will settle ed with conditions of
Allan Knight Env. Superintendent Baffinland 902-403-1337 6016 RECEIVED AT SPILL LINE BY POSITION STATION OPERATOR STATION OPERATOR SIGNIFICANCE MINOR MAJOR UNKNOWN FILE STATUS OPEN CLOSED	L			r					-	
RECEIVED AT SPILL LINE BY STATION OPERATOR POSITION STATION OPERATOR STATION OPERATOR SIGNIFICANCE MINOR MAJOR UNKNOWN FILE STATUS OPEN CLOSE AGENCY CONTACT NAME CONTACT TIME REMARKS FIRST SUPPORT AGENCY SUPPORT AGENC	М			tendent			AL Q L	TERNATE CONTACT 02-403-1337 CATION		-
N STATION OPERATOR SIGNIFICANCE MINOR MAJOR UNKNOWN FILE STATUS OPEN CLOSE AGENCY CONTACT NAME CONTACT TIME REMARKS LEAD AGENCY FIRST SUPPORT AGENCY SECOND SUPPORT AGENCY STATUS OPEN CLOSE SECOND SUPPORT AGENCY STATUS OPEN CLOSE AGENCY CONTACT NAME CONTACT TIME REMARKS SECOND SUPPORT AGENCY STATUS OPEN CLOSE AGENCY CONTACT NAME CONTACT TIME REMARKS SECOND SUPPORT AGENCY STATUS OPEN CLOSE AGENCY CONTACT NAME CONTACT TIME REMARKS SECOND SUPPORT AGENCY STATUS OPEN CLOSE AGENCY CONTACT NAME CONTACT TIME REMARKS				REPORT LIN	IE USE ON	LY			·	
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AGENCY CONTACT NAME CONTACT TIME REMARKS LEAD AGENCY FIRST SUPPORT AGENCY SECOND SUPPORT AGENCY FIRST SUPPORT AGENCY	IN		STATION OPERATOR				YE	ELLOWKNIFE, NT	(8	67) 920-8130
LEAD AGENCY FIRST SUPPORT AGENCY SECOND SUPPORT AGENCY Output Description: SECOND SUPPORT AGENCY SECOND SUPPORT AGENCY SECOND SUPPORT AGENCY	LEAD	AGENCY DEC DCCG DC	GNWT □ GN □ ILA □ INAC	NEB □TC	SIGNII	FICANCE MIN	IOR MAJO	R 🗆 UNKNOWN	FILE STATU	S □ OPEN □ CLOSED
FIRST SUPPORT AGENCY SECOND SUPPORT AGENCY SECOND SUPPORT AGENCY	AGEN	NCY	CONTACT NAME		CONT	ACT TIME		REMARKS		
SECOND SUPPORT AGENCY	LEAD	AGENCY								
	FIRS	T SUPPORT AGENCY								
THIRD SUPPORT AGENCY	SECO	OND SUPPORT AGENCY								
	THIR	D 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

Α	REPORT DATE: MONTH – DAY – 05-31-2016	TEAT		TEPORT TIME		ORIGINAL SPILL REPORT,	
В	OCCURRENCE DATE: MONTH -		OCCURRENCE TIME			R UPDATE # DTHE ORIGINAL SPILL REPORT	16 198
	unknown - within last several days LAND USE PERMIT NUMBER (IF APPLICABLE)			unknown	ENCE NUMBER (IF		
С	IOL - Commercial I	Lease: Q13C301		2AM-N	IRY1325 Ty	,	
D	GEOGRAPHIC PLACE NAME OR Mary River Mine Si			CATION REGION	NUNAVUT	☐ ADJACENT JURISDICTION	N OR OCEAN
Ε	LATITUDE DEGREES 71	MINUTES 19	SECONDS 46	LONGITUDI DEGREES	79	MINUTES 22	SECONDS 41
F	RESPONSIBLE PARTY OR VESS Baffinland Iron Mir			ARTY ADDRESS OR O		₁ 0, Oakville, ON L6H	I 0C3
G	ANY CONTRACTOR INVOLVED N/A		CONTRACTOR A	DDRESS OR OFFICE	LOCATION		
	PRODUCT SPILLED Sediment			RES, KILOGRAMS OF		U.N. NUMBER	
Н	SECOND PRODUCT SPILLED (IF	APPLICABLE)	-	RES, KILOGRAMS OI		U.N. NUMBER	
	N/A		44m3			N/A	
I	steep sandy strear	n bank	spill cause warming t	temperatures	5	AREA OF CONTAMINATION IN 110m2	N SQUARE METRES
J	FACTORS AFFECTING SPILL OF POOR ACCESS	RECOVERY	DESCRIBE ANY A	ASSISTANCE REQUIF	RED	HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT N/A	
K	investigation, the s may have been can material that partia the sediment depo stabilization of the	used by water dra ally encroached o	aining from on the strea	the airstrip. m. Once dis	The even	t resulted in sandy ilt fences were ered	deposit of
	and redirected to a mobile in water. A will be submitted v	stream embankı ın area that is mo follow-up report	ment at that ore stable.	t location. T The material	he water w is coarse s	rill be rerouted fron sand and does not	n this location appear to be
L	mobile in water. A	stream embanki an area that is mo follow-up report vithin 30 days.	ment at that ore stable. It document	t location. T The material	he water w is coarse s rrence and	vill be rerouted from sand and does not I providing recomm	n this location appear to be nendations
L M	mobile in water. A will be submitted w	stream embanki an area that is mo follow-up report vithin 30 days.	ment at that ore stable. It document	t location. T The material ing the occu	he water wis coarse strence and	rill be rerouted fron sand and does not I providing recomn	n this location appear to be nendations
	mobile in water. A will be submitted verified to spill line by Jim Millard ANY ALTERNATE CONTACT	stream embanking area that is months follow-up report within 30 days. POSITION Env. Manager POSITION	ment at that ore stable. It document	t location. T The material ing the occu EMPLOYER Baffinland EMPLOYER Baffinland	he water wis coarse strence and	rill be rerouted from sand and does not I providing recommodition calling from Mary River	this location appear to be nendations TELEPHONE 647-253-0596 ALTERNATE TELEPHONE
M	mobile in water. A will be submitted verified to spill line by Jim Millard ANY ALTERNATE CONTACT	stream embanking area that is months follow-up report within 30 days. POSITION Env. Manager POSITION	endent	t location. T The material ing the occu EMPLOYER Baffinland EMPLOYER Baffinland	he water wis coarse strence and	rill be rerouted from sand and does not I providing recommodition calling from Mary River	this location appear to be nendations TELEPHONE 647-253-0596 ALTERNATE TELEPHONE
M	mobile in water. A will be submitted verified to spill line by Jim Millard ANY ALTERNATE CONTACT Allan Knight	stream embanking area that is months follow-up report vithin 30 days. POSITION Env. Manager POSITION Env. Superint	endent	t location. T The material ing the occur EMPLOYER Baffinland EMPLOYER Baffinland USE ONLY	he water wis coarse strence and	rill be rerouted from sand and does not a providing recommodation calling from Mary River TERNATE CONTACT 202-403-1337	this location appear to be nendations TELEPHONE 647-253-0596 ALTERNATE TELEPHONE 6016
M N LEAL	mobile in water. A will be submitted verified to spill line by Jim Millard ANY ALTERNATE CONTACT Allan Knight RECEIVED AT SPILL LINE BY DAGENCY EC CCG GN	POSITION Env. Manager POSITION Env. Manager POSITION Env. Superint POSITION Env. Superint	endent	EMPLOYER Baffinland EMPLOYER Baffinland EMPLOYER Baffinland EMPLOYER SIGNIFICANCE	he water wis coarse strence and	CATION CALLING FROM Mary River TERNATE CONTACT OCATION CALLED ELLOWKNIFE, NT R UNKNOWN FILE STAT	this location appear to be nendations TELEPHONE 647-253-0596 ALTERNATE TELEPHONE 6016
M N	mobile in water. A will be submitted verified to spill line by Jim Millard ANY ALTERNATE CONTACT Allan Knight RECEIVED AT SPILL LINE BY DAGENCY EC CCG GN	POSITION POSITION Env. Superint POSITION Env. Superint	endent	t location. T The material ing the occur EMPLOYER Baffinland EMPLOYER Baffinland EMPLOYER EMPLOYER	he water wis coarse strence and	cill be rerouted from sand and does not and providing recommodation calling from Mary River TERNATE CONTACT DOCATION CALLED ELLOWKNIFE, NT	TELEPHONE 647-253-0596 ALTERNATE TELEPHONE 6016 REPORT LINE NUMBER (867) 920-8130
N LEAL	mobile in water. A will be submitted verified to spill line by Jim Millard ANY ALTERNATE CONTACT Allan Knight RECEIVED AT SPILL LINE BY DAGENCY EC CCG GN	POSITION Env. Manager POSITION Env. Manager POSITION Env. Superint POSITION Env. Superint	endent	EMPLOYER Baffinland EMPLOYER Baffinland EMPLOYER Baffinland EMPLOYER SIGNIFICANCE	he water wis coarse strence and	CATION CALLING FROM Mary River TERNATE CONTACT OCATION CALLED ELLOWKNIFE, NT R UNKNOWN FILE STAT	TELEPHONE 647-253-0596 ALTERNATE TELEPHONE 6016 REPORT LINE NUMBER (867) 920-8130
N LEAL AGE	mobile in water. A will be submitted verified to spill line by Jim Millard ANY ALTERNATE CONTACT Allan Knight RECEIVED AT SPILL LINE BY D'AGENCY EC CCG GN NCY C	POSITION Env. Manager POSITION Env. Manager POSITION Env. Superint POSITION Env. Superint	endent	EMPLOYER Baffinland EMPLOYER Baffinland EMPLOYER Baffinland EMPLOYER SIGNIFICANCE	he water wis coarse strence and	CATION CALLING FROM Mary River TERNATE CONTACT OCATION CALLED ELLOWKNIFE, NT R UNKNOWN FILE STAT	TELEPHONE 647-253-0596 ALTERNATE TELEPHONE 6016 REPORT LINE NUMBER (867) 920-8130
N LEAL AGE	mobile in water. A will be submitted verified to spill line by Jim Millard ANY ALTERNATE CONTACT Allan Knight RECEIVED AT SPILL LINE BY D'AGENCY EC CCG GN NCY COMMON	POSITION Env. Manager POSITION Env. Manager POSITION Env. Superint POSITION Env. Superint	endent	EMPLOYER Baffinland EMPLOYER Baffinland EMPLOYER Baffinland EMPLOYER SIGNIFICANCE	he water wis coarse strence and	CATION CALLING FROM Mary River TERNATE CONTACT OCATION CALLED ELLOWKNIFE, NT R UNKNOWN FILE STAT	TELEPHONE 647-253-0596 ALTERNATE TELEPHONE 6016 REPORT LINE NUMBER (867) 920-8130





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 06-02-2016	Y-YEAR		REPORT TIME		XORIGINAL SPILL REPOR	Τ,	REPORT NUMBER
Г	OCCURRENCE DATE: MONTH	I – DAY – YEAR		OCCURRENCE	: TIME	DR □ UPDATE #		16 - 202
В	05-31-2016			2100 HRS		TO THE ORIGINAL SPILL RI	EPORT	
С	IOL - Commercial				ER LICENCE NUMBER (•		
D	GEOGRAPHIC PLACE NAME OF Mary River Mine S				REGION	□ ADJACENT JURISE	ICTION	OR OCEAN
Е	LATITUDE			LONG	GITUDE			
	DEGREES	MINUTES	SECONDS		REES	MINUTES	SE	CONDS
F	RESPONSIBLE PARTY OR VERBARRING AND METERS OF THE PARTY OF VERBARRING AND ADDRESS OF THE PARTY O	ines Corp.	2275 Midd	lle Road	<u> </u>	00, Oakville, ON	L6H	0C3
G	ANY CONTRACTOR INVOLVED N/A	0	N/A	DDRESS OR C	FFICE LOCATION			
	PRODUCT SPILLED			*	MS OR CUBIC METRE			
Н	Sediment SECOND PRODUCT SPILLED	(IE ADDI ICADI E)	-	<u> </u>	resent time	N/A S U.N. NUMBER		
•	N/A	(IF APPLICABLE)	N/A	neo, NILUGRA	INIO OH CUBIC METHE	N/A		
I	SPILL SOURCE Freshet erosion		spill cause warming t	emperat	ures	AREA OF CONTAMINA	TION IN	SQUARE METRES
J	FACTORS AFFECTING SPILL O	OR RECOVERY	DESCRIBE ANY A	SSISTANCE F	EQUIRED	HAZARDS TO PERSON N/A	IS, PROF	PERTY OR EQUIPMENT
K	where there was a stream crossings is erosion from so low and fish have flocculant have be excavated and readdition, the emb	CV-223 at km 97 pring freshet. The not yet started t een deployed as moved under the	7, BG-17 at ki here are no fi to move into appropriate supervision	m 90, an sh prese the strea Sedime of Envi	d BG-29 at kment at these loam. In the ments in culvert ronment staff	n 85. The source cations because antime silt fenc outlet basins w within the next	e of the flower	he sediment vs are very d in-ditch carefully ral days. In
L	REPORTED TO SPILL LINE BY Jim Millard	POSITION Env. Manage		MPLOYER Baffinlar		OCATION CALLING FROM		ELEPHONE 647-253-0596
M	ANY ALTERNATE CONTACT Allan Knight	POSITION Env. Superir		MPLOYER Baffinlar	,	ALTERNATE CONTACT 902-403-1337		LTERNATE TELEPHONE 6016
		ı	REPORT LINE	USE ONLY		-		
N	RECEIVED AT SPILL LINE BY	POSITION	E	EMPLOYER	I	OCATION CALLED	R	EPORT LINE NUMBER
IN		STATION OPERATOR			,	/ELLOWKNIFE, NT	3)	
LEAD	AGENCY DEC DCCG DC	GNWT □GN □ILA □INA	C NEB TC	SIGNIFICA	NCE MINOR MAJ	OR UNKNOWN FIL	E STATU	367) 920-8130
AGE	NCY	CONTACT NAME		CONTACT TIME		REMARKS		
LEAD	AGENCY			OOMAOT	ГІМЕ	REMARKS		367) 920-8130 IS
LEAD AGENCY FIRST SUPPORT AGENCY			CONTACT	ΓΙΜΕ	REMARKS		· · · · · · · · · · · · · · · · · · ·	
				CONTACT	ГІМЕ	REMARKS		· · · · · · · · · · · · · · · · · · ·
	T SUPPORT AGENCY OND SUPPORT AGENCY			OOMINGT	ГІМЕ	REMARKS		





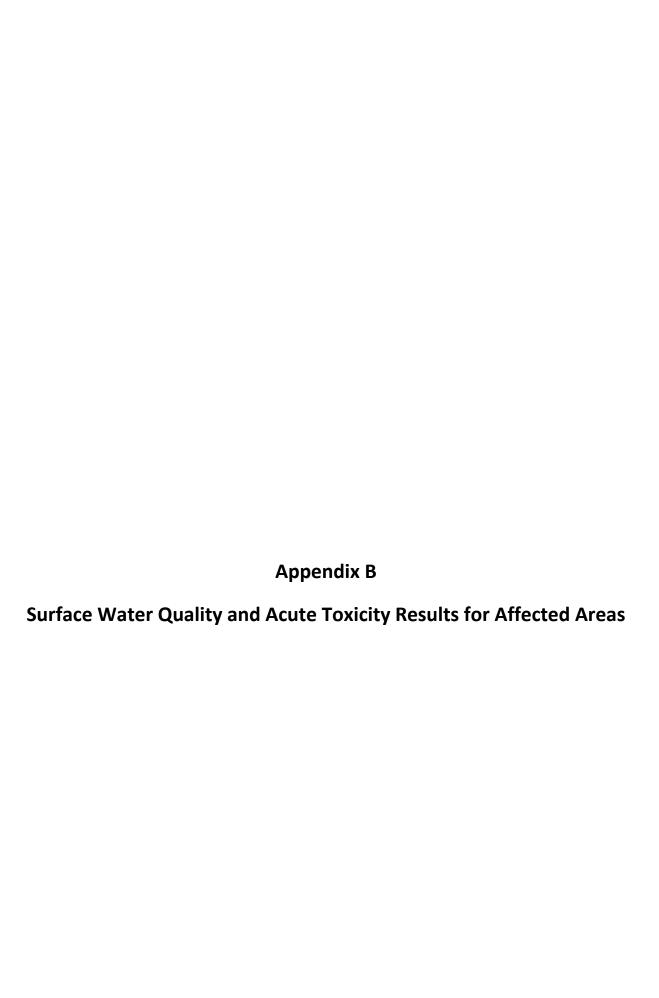
NT-NU SPILL REPORT

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 06-19-2016	/-YEAR				PORT TIME			□ ORIGINAL SPILL REPORT, OR		REPORT NUMBER
В	OCCURRENCE DATE: MONTH	l – DAY – '	YEAR				JRRENCE TIME X		XUPDATE # 1 TO THE ORIGINAL SPILL REPORT		16 - 202
С	IOL - Commercial				•				(IF APPLICABLE) Type "A"		_
D	GEOGRAPHIC PLACE NAME OF Mary River Mine				.OCA		REGION	X NUNAVU	Γ □ ADJACENT	JURISDICTION	OR OCEAN
Ε	LATITUDE DEGREES	MINUTE	ES S	SECONDS			IGITUDE GREES		MINUTES	s	ECONDS
F	RESPONSIBLE PARTY OR VE Baffinland Iron M			RESPONSIBLE 2275 Mid					on 00, Oakville	, ON L6H	0C3
G	ANY CONTRACTOR INVOLVED N/A	D		CONTRACTOR A	ADDI	RESS OR	OFFICE LO	CATION			
Н	PRODUCT SPILLED Sediment			QUANTITY IN LI Unquant		-,			S U.N. NUMBER		
П	SECOND PRODUCT SPILLED N/A	(IF APPLI	ICABLE)	QUANTITY IN LI	TRE	S, KILOGR	AMS OR CL	JBIC METRE	S U.N. NUMBER		
I	SPILL SOURCE Freshet melting s	snowp	oack	SPILL CAUSE warming	tei	mpera	tures		AREA OF CON	ITAMINATION IN	SQUARE METRES
J	FACTORS AFFECTING SPILL (OR RECC	OVERY	DESCRIBE ANY	ASS	SISTANCE	REQUIRED		HAZARDS TO N/A	PERSONS, PRO	PERTY OR EQUIPMENT
K	where there was Road. These local generated by the habitat, although sediment is being dams and silt cur locations where the km 90, and BG-29	ations melti flow g cont tain f	s were BG-31 ng snow pacl from these lo trolled from e for stream BG was sedimen	at km 82 a c adjacent cations is ntering th -31 and b t and turb	t to to e l y s	the ro Murie akes a ilt fen- water	28 at knoad. The Lake at these ce and at strea	n 86.3. le streal (BG-31) location silt cur am cros	The sediments are not and David ons by the catain at BG-sesings CV-2	ent appea expected Lake (BC constructi 28. Previ 23 at km	rs to be to be fish G-28). The ion of check ous 97, BG-17 at
L	REPORTED TO SPILL LINE BY Jim Millard		env. Manager			PLOYER affinla	nd		LOCATION CALLING		TELEPHONE 647-253-0596
M	ANY ALTERNATE CONTACT Allan Knight		SITION Env. Superinte	endent		PLOYER affinla	nd		902-403-13		ALTERNATE TELEPHONE 6016
		1		REPORT LIN	E US	SE ONLY					
Ν	RECEIVED AT SPILL LINE BY		OSITION		EMI	PLOYER			LOCATION CALLED		REPORT LINE NUMBER
LEA	 DAGENCY□EC□CCG□(TATION OPERATOR ☐ GN ☐ ILA ☐ INAC	□ NEB □ TC		SIGNIFICA	ANCE □ MI		YELLOWKNIFE, NT OR □ UNKNOWN		867) 920-8130 JS □ OPEN □ CLOSED
AGE	NCY	CONTAC	CT NAME			CONTACT	TIME		REMARKS		
LEA	D AGENCY										
FIRS	T SUPPORT AGENCY										
SEC	OND SUPPORT AGENCY										



Appendix B.1
Sample IDs and Locations

Table B.1.1 - Sample IDs and Locations

Sample Location	Description	Coordinates (Lat/Long)
CLSP-OUT	Camp Lake Sedimentation	N 71 19 42.2
CL31 001	Pond Outlet	W 79 22 55.4
	Camp Lake Tributary # 1	N 71 19 46.8
CLT-OUT	(100 m upstream of Camp	W 79 23 08.6
	Lake Outfall)	,3 23 36.6
	Camp Lake Tributary # 1	
CLT-DS	(100 m downstream of	N 71 19 46.6
CL-DS	Airstrip Drainage outfall into	W 79 22 45.6
	Camp Lake Tributary #1)	
	Sheardown Lake Tributary	N 71 18 58.3
SDLT-OUT	(40 m upstream of	W 79 18 45.5
	Sheardown Lake Outfall)	
1050 0117	Landfill Gate Tributary	N 71 18 41.0
LDFG-OUT	(40 m upstream of	W 79 17 40.6
	Sheardown Lake Outfall)	N 71 10 4F 0
CD4-IN	Upstream of Check Dam #4	N 71 18 45.8
	Daymatuaa wa af Chaali Daya	W79 13 01.0
CD4-OUT	Downstream of Check Dam	N 71 18 43.2
	#4	W 79 12 54.2
CV 194A	Culvert that directs discharge from Check Dam # 4 to Mary	N 71 18 41.6
CV 194A	River	W 79 12 55.3
	_	N 74 40 52 0
MS-C-E	SNP Monitoring Site (290 m	N 71 18 53.9
	upstream of SDLT Outfall)	W 79 17 39.7
SVCD1-IN	Sheardown Valley Checkdam	N 71 18 38.5
	# 1	W 79 15 10.8
SVCD1-T1 & SVCD1-T2	Sheardown Valley Checkdam	N 71 18 38.5
3.021.10.01021.2	# 1 (1 meter downstream)	W 79 15 10.8
MC OO LIC	Mary River - Upstream of	N 71 18 37.8
MS-08-US	Deposit 1	W 79 11 13.4
	Mary River – Downstream of	N 71 18 38.9
MS-08-DS	tributary draining Deposit 1	W 79 12 09.4
	Mary River - Upstream of	N 71 20 51.4
G0-09A	Deposit 1	W 79 00 11.8
	·	
G0-09	Mary River - Upstream of	N 71 20 18.0
	Deposit 1	W 78 59 46.8
G0-09B	Mary River - Upstream of	N 71 19 25.6
20 035	Deposit 1	W 79 00 22.2

Sample Location	Description	Coordinates (Lat/Long)
G0-03	Mary River - Upstream of	N 71 18 22.2
	Deposit 1 Mary River - Upstream of	W 79 07 15.9 N 71 18 37.7
G0-01	Deposit 1	W 79 11 50.8
F0-01	Mary River Tributary draining	N 71 18 38.6
1001	Deposit 1	W 79 11 48.3
E0-10	Mary River – Downstream of	N 71 18 38.4
10-10	F0-01	W 79 11 56.2
E0-03	Mary River – Downstream of	N 71 18 22.6
E0-05	Deposit 1	W 79 14 21.7
E0-21	Mary River – Downstream of Mine Site Treated Wastewater Outfall	N 71 17 58.9 W 79 15 17.2
E0-20	Mary River – Downstream of Mine Site Treated Wastewater Outfall	N 71 17 45.0 W 79 16 34.5
C0-10	Mary River – Downstream of Sheardown Lake Outlet	N 71 17 57.6 W 79 18 15.9
CO-05	Mary River – Downstream of Mine Site	N 71 16 40.2 W 79 22 15.6
CO-01	Mary River – Before Mary Lake	N 71 15 28.5 W 79 25 47.2

