

**APPENDIX E.8.7.2**  
**INITIAL AND FOLLOW UP SPILL REPORTS**  
**OTHER**  
**(Part 2)**



May 12, 2017

Resource Management Officer  
Nunavut Field Operations  
Indigenous and Northern Affairs Canada  
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Manager, Major Projects  
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P.O. Box 219  
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**Re: Follow-up to Spill #17-109, Reported on April 13<sup>th</sup>, 2017**  
**Mary River Project - Water Licence No. 2AM-MRY1325**

**Summary:**

On April 12th, 2017 while an operator was refueling the fuel tank connected to an IT tower generator (Tote Road Km 61) it was noted that fuel was seeping from the tank vent pipe impacting the below adjacent area. Approximately 110L was released, impacting an area of 11 square meters. The location of the spill was confined to the frozen surface below the vent pipe with no possibility of migrating. The spill occurred on crown land, and is greater than 500m from the closest water body, which is frozen. The Environment Canada tank registration number is 00043663.

**Immediate and Follow-Up Action:**

The source of the leak was removed from the system; spill pads and secondary containment were used to mitigate the spill. The contaminated material was removed from site and transported to a Milne Port hazardous storage lined engineered containment. It was identified that the source of the leak was due to snow/ice buildup within the vent pipe blocking the return fuel line to flow back into the tank. The system was modified by removing the external tank vent pipe and replacing it with an internal horizontal pipe which is not exposed to the elements to prevent snow and ice buildup to occur.

**Recommendations:**

Inspection of communication tower power stations to determine if any units are currently operating with a similar tank venting system and modify if required.

**Current Status:**

The tank is currently back in operation and the vent system repaired/modified. The area will continue to be monitored as the ground thaws.

Should you require further information or clarification on the above noted spill, please feel free to contact William Bowden at (647) 253-0596 x6016, Laura Taylor (647) 253- 0596 x6016 or Allan Knight at (647) 253-0596 x6010

Prepared By:  
Katherine Babin

Reviewed by:  
William Bowden

A handwritten signature in black ink, appearing to read "K Babin".

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

Attach: Photos, Map, NT-NU Spill Report

cc. Todd Burlingame, Wayne McPhee, Sylvain Proulx, William Bowden, Laura Taylor (Baffinland),  
Stephen Bathroy (QIA), Erik Allain, Sarah Forte, Jonathon Mesher (INAC)



**Photo 1 -Tank set up with vent pipe to outside.**



**Photo 2 –Contaminated snow impacted by fuel dripping from vent pipe**



**Photo 3 – Tank set up with hose inside secondary containment**



**Photo 4 – Contaminated snow removed of outside of seacan**



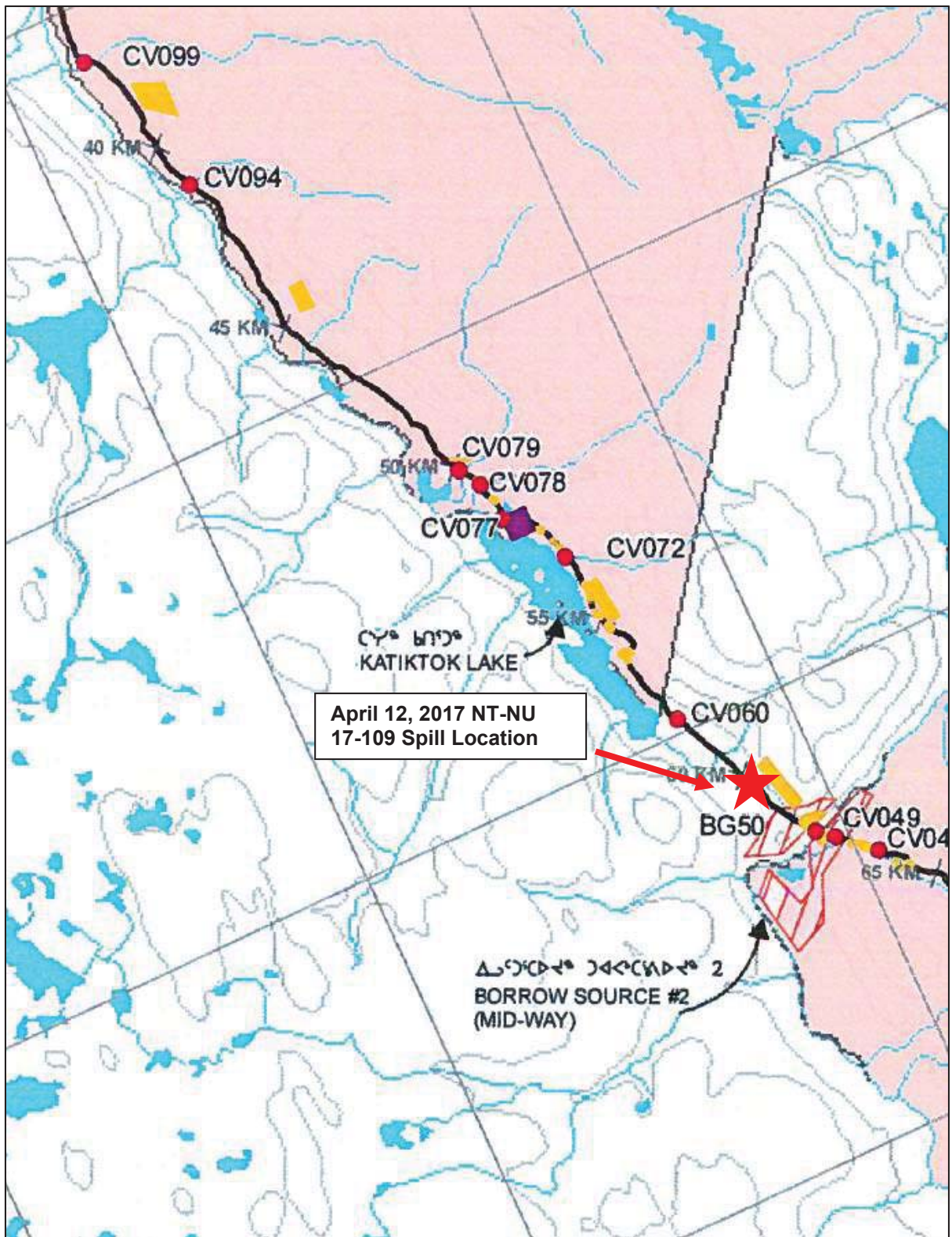


Figure 1: NT-NU 17-109 Spill Location



# 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

<b>A</b>	REPORT DATE: MONTH - DAY - YEAR	REPORT TIME	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT	REPORT NUMBER <b>17 109</b>	
	<b>04-13-2017</b>	<b>21:15 HRS</b>			
<b>B</b>	OCCURRENCE DATE: MONTH - DAY - YEAR	OCCURRENCE TIME			
	<b>04-12-2017</b>	<b>Unknown</b>			
<b>C</b>	LAND USE PERMIT NUMBER (IF APPLICABLE)	WATER LICENCE NUMBER (IF APPLICABLE)			
	<b>IOL - Commercial Lease: Q13C301</b>	<b>2AM-MRY1325 Type "A"</b>			
<b>D</b>	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION	REGION			
	<b>Mary River Mine Site, Baffin Island, NU</b>	<input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN			
<b>E</b>	LATITUDE	LONGITUDE			
	DEGREES <b>71</b> MINUTES <b>27</b> SECONDS <b>20</b>	DEGREES <b>80</b> MINUTES <b>11</b> SECONDS <b>53</b>			
<b>F</b>	RESPONSIBLE PARTY OR VESSEL NAME	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION			
	<b>Baffinland Iron Mines Corp.</b>	<b>2275 Middle Road East, Suite 300, Oakville, ON L6H 0C3</b>			
<b>G</b>	ANY CONTRACTOR INVOLVED	CONTRACTOR ADDRESS OR OFFICE LOCATION			
	<b>N/A</b>	<b>N/A</b>			
<b>H</b>	PRODUCT SPILLED	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES	U.N. NUMBER		
	<b>Diesel Fuel</b>	<b>Approx. 110 L</b>	<b>1202</b>		
	SECOND PRODUCT SPILLED (IF APPLICABLE)	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES	U.N. NUMBER		
	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>		
<b>I</b>	SPILL SOURCE	SPILL CAUSE	AREA OF CONTAMINATION IN SQUARE METRES		
	<b>Generator fuel tank return line</b>	<b>Fuel return line failure</b>	<b>11 m2</b>		
<b>J</b>	FACTORS AFFECTING SPILL OR RECOVERY	DESCRIBE ANY ASSISTANCE REQUIRED	HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT		
	<b>Frozen Conditions and snow</b>	<b>heavy equipment</b>	<b>N/A</b>		
<b>K</b>	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS				
	<p>On April 12th, 2017 while an operator was refueling the fuel tank connected to an IT tower generator (Tote Road Km 61) it was noted that fuel was seeping from the tank vent pipe and impacting the below adjacent area. Approximately 110L was released, impacting an area of 11 square meters. The source of the leak was removed from the system/ repaired and spill pads and secondary containment were used to mitigate the spill. The location of the spill was confined to the frozen surface below the vent pipe with no possibility of migrating, occurred on crown land, and is greater than 500m from the closest water body which is frozen. The clean up of contaminated material is underway and the investigation is ongoing; further details of the incident and cause will be provided in the follow-up report. This spill is being reported as required by the conditions of NWB Water License no. 2AM-MRY1325, Part H, item 9 (b) as well as Environment Canada's Storage Tank Systems for Petroleum and Allied Petroleum Products section 41 paragraph 212(1)(a) of the Canadian EPA, 1999.</p>				
<b>L</b>	REPORTED TO SPILL LINE BY	POSITION	EMPLOYER	LOCATION CALLING FROM	TELEPHONE
	<b>William Bowden</b>	<b>Env. Superintendent</b>	<b>Baffinland</b>	<b>647-253-0596</b>	<b>ext. 6016</b>
<b>M</b>	ANY ALTERNATE CONTACT	POSITION	EMPLOYER	ALTERNATE CONTACT	ALTERNATE TELEPHONE
	<b>Wayen McPhee</b>	<b>Env. Director</b>	<b>Baffinland</b>	<b>416-996-5523</b>	<b>Ext 5088</b>
REPORT LINE USE ONLY					
<b>N</b>	RECEIVED AT SPILL LINE BY	POSITION	EMPLOYER	LOCATION CALLED	REPORT LINE NUMBER
		STATION OPERATOR		YELLOWKNIFE, NT	(867) 920-8130
LEAD AGENCY <input type="checkbox"/> EC <input type="checkbox"/> CCG <input type="checkbox"/> GNWT <input type="checkbox"/> GN <input type="checkbox"/> LA <input type="checkbox"/> INAC <input type="checkbox"/> NEB <input type="checkbox"/> TC			SIGNIFICANCE <input type="checkbox"/> MINOR <input type="checkbox"/> MAJOR <input type="checkbox"/> UNKNOWN		FILE STATUS <input type="checkbox"/> OPEN <input type="checkbox"/> CLOSED
AGENCY		CONTACT NAME	CONTACT TIME	REMARKS	
LEAD AGENCY					
FIRST SUPPORT AGENCY					
SECOND SUPPORT AGENCY					
THIRD SUPPORT AGENCY					

PAGE 1 OF 1

Figure 2: NT-NU Spill Report 17-109



May 22 2017

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Director, Major Projects  
Qikiqtani Inuit Association  
P.O. Box 219  
Iqaluit, NU X0A 0H0

**Re: Follow-up to Spill #17-117, Reported on April 22nd, 2017**  
**Mary River Project - Water Licence No. 2AM-MRY1325**

**Summary:**

At 09:30 HRS on April 22nd, Surface Works vacuum truck operator discovered that the OHT laydown wash car had overflowed. Upon investigation, it was determined that the heat trace failed causing the contents of the wash car to freeze. Incoming sewage was unable to enter the wash car resulting in an overflow. Approximately 125 L of raw sewage was released to the adjacent pad, on IOL, impacting an area of 9 m<sup>2</sup>. The location of the spill was confined to the OHT laydown, with no chance of migrating and is greater than 75 metres from the closest water body which is currently frozen.

**Immediate and Follow-Up Action:**

The operator notified his supervisor and pumped out the remaining sewage in the wash car. The contaminated snow and material was scraped up with heavy equipment and disposed of in engineered lined containment. The heat trace and piping was repaired.

**Recommendations:**

Routine checks of wash cars and piping while being regularly emptied is recommended.

**Current Status:**

The heat trace and influent piping was repaired and the wash car is currently operational.

Should you require further information or clarification on the above noted spill, please feel free to contact William Bowden / Laura Taylor at (647) 253-0596 x6016 or Allan Knight at (647) 253-0596 x6010

Prepared By:

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

Connor Devereaux  
Environmental Coordinator

Reviewed by:

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

William Bowden  
Environmental Superintendent

Attach: Photos, Map, NT-NU Spill Report

cc. Todd Burlingame, Wayne McPhee, Sylvain Proulx Eric Steinmetzer Lyle Hemmerling J-P Provencher (Baffinland) Stephen Bathory (QIA), Erik Allain, Sarah Forte, Jonathon Mesher (INAC).





Figure 1 – Raw sewage spill from washcar in OHT laydown



Figure 2 – Raw Sewage spill from washcar in OHT Laydown post clean up





17-117 125 L Sewage spill  
April 22, 2017



Canada

# NT-NU SPILL REPORT

OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS

NT-NU 24-HOUR SPILL REPORT LINE

TEL: (867) 920-8130

FAX: (867) 873-6924

EMAIL: spills@gov.nt.ca

REPORT LINE USE ONLY

<b>A</b>	REPORT DATE: MONTH - DAY - YEAR <b>04-22-2017</b>	REPORT TIME <b>21:15</b>	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # TO THE ORIGINAL SPILL REPORT	REPORT NUMBER <b>17-117</b>
<b>B</b>	OCCURRENCE DATE: MONTH - DAY - YEAR <b>04-22-2017</b>	OCCURRENCE TIME <b>09:30</b>		
<b>C</b>	LAND USE PERMIT NUMBER (IF APPLICABLE) <b>IOL - Commercial Lease: Q13C301</b>	WATER LICENCE NUMBER (IF APPLICABLE) <b>2AM-MRY1325 Type "A"</b>		
<b>D</b>	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION <b>Mary River Mine Site, Baffin Island, NU</b>		REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN	
<b>E</b>	LATITUDE DEGREES <b>71</b> MINUTES <b>19</b> SECONDS <b>07</b>		LONGITUDE DEGREES <b>79</b> MINUTES <b>18</b> SECONDS <b>49</b>	
<b>F</b>	RESPONSIBLE PARTY OR VESSEL NAME <b>Baffinland Iron Mines Corp.</b>	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION <b>2275 Middle Road East, Suite 300, Oakville, ON L6H 0C3</b>		
<b>G</b>	ANY CONTRACTOR INVOLVED <b>N/A</b>	CONTRACTOR ADDRESS OR OFFICE LOCATION <b>N/A</b>		
<b>H</b>	PRODUCT SPILLED <b>Raw sewage</b>	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES <b>125 Litres</b>	U.N. NUMBER <b>N/A</b>	
	SECOND PRODUCT SPILLED (IF APPLICABLE) <b>N/A</b>	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES <b>N/A</b>	U.N. NUMBER <b>N/A</b>	
<b>I</b>	SPILL SOURCE <b>OHT trailer wash car</b>	SPILL CAUSE <b>Frozen conditions, overflow</b>	AREA OF CONTAMINATION IN SQUARE METRES <b>9 m2</b>	
<b>J</b>	FACTORS AFFECTING SPILL OR RECOVERY <b>Snow and ice</b>	DESCRIBE ANY ASSISTANCE REQUIRED <b>N/A</b>	HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT <b>N/A</b>	
<b>K</b>	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS  <b>At 09:30 HRS on April 22nd, Surface Works vacuum truck operator discovered that the OHT laydown wash car had overflowed. The operator notified his supervisor and pumped out the remaining sewage in the wash car. Upon initial investigation, it was suspected that the heat trace failed causing the contents of the wash car to freeze; incoming sewage was unable to enter wash car resulting in an overflow. Approximately 125 L of raw sewage was released to the adjacent pad, on IOL, impacting an area of 9 m2. The location of the spill was confined to the OHT laydown, with no chance of migrating and is greater than 100 metres from the closest water body which is currently frozen. The investigation and repairs are ongoing and further details of the incident will be provided in the follow-up report. This spill is being reported as required by the conditions of water license no. 2AM-MRY1325, Part H, item 9 (b) pursuant to subsection 12(3) of the Nunavut Waters and Nunavut Surface Rights Tribunal Act.</b>			
<b>L</b>	REPORTED TO SPILL LINE BY <b>William Bowden</b>	POSITION <b>Env. Superintendent</b>	EMPLOYER <b>Baffinland</b>	LOCATION CALLING FROM <b>647-253-0596</b>
<b>M</b>	ANY ALTERNATE CONTACT <b>Wayne McPhee</b>	POSITION <b>Dir. Sust Development</b>	EMPLOYER <b>Baffinland</b>	ALTERNATE CONTACT <b>Off Site</b>
REPORT LINE USE ONLY				
<b>N</b>	RECEIVED AT SPILL LINE BY <b>STATION OPERATOR</b>	POSITION <b>STATION OPERATOR</b>	EMPLOYER <b>YELLOWKNIFE, NT</b>	REPORT LINE NUMBER <b>(867) 920-8130</b>
LEAD AGENCY <input type="checkbox"/> EC <input type="checkbox"/> CCG <input type="checkbox"/> GNWT <input type="checkbox"/> GN <input type="checkbox"/> LA <input type="checkbox"/> NAC <input type="checkbox"/> NEB <input type="checkbox"/> TC		SIGNIFICANCE <input type="checkbox"/> MINOR <input type="checkbox"/> MAJOR <input type="checkbox"/> UNKNOWN		FILE STATUS <input type="checkbox"/> OPEN <input type="checkbox"/> CLOSED
AGENCY	CONTACT NAME	CONTACT TIME	REMARKS	
LEAD AGENCY				
FIRST SUPPORT AGENCY				
SECOND SUPPORT AGENCY				
THIRD SUPPORT AGENCY				

PAGE 1 OF 1

Figure2: NT-NU Spill Report 17-117



May 28<sup>th</sup>, 2017

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Director, Major Projects  
Qikiqtani Inuit Association  
P.O. Box 219  
Iqaluit, NU X0A 0H0

**Re: Follow-up to Spill #17-134, Reported on April 29<sup>th</sup>, 2017**  
**Mary River Project - Water Licence No. 2AM-MRY1325**

**Summary:**

At 10:30 HRS on April 29th, a worker advised the environmental department that there was a dark area on the ground behind the wash bay directly beside a fuel tank. It was determined after inspection that there was a diesel spill from the tank. The workers responded immediately by placing spill pads and duck ponds to collect the diesel. Approx. 270 L of diesel fuel spilled on the camp pad, impacting an area of less than 20m<sup>2</sup>. The contaminated material was cleaned up and properly disposed of. The location of the spill was confined to the east side of the wash bay pad, and is greater than 100 meters from the closest water body which is currently frozen. The Wiggins Nozzle was tightened to stop the leak.

**Recommendations:**

Routine checks of tanks is ongoing and will be focusing efforts to inspect the Wiggins nozzles as well as all other devices used on the fuel tanks.

**Current Status:**

The wash bay fuel tank is used to heat the wash bay. It is currently in use and there has been no leakage from the nozzle.

Should you require further information or clarification on the above noted spill, please feel free to contact William Bowden / Laura Taylor at (647) 253-0596 x6016 or Allan Knight at (647) 253-0596 x6010

Prepared by:

A handwritten signature in black ink, appearing to be "L. Taylor", written over a light blue rectangular background.

Laura Taylor  
Environmental Superintendent

Approved By:

Gordon Mudryk  
Site Services Manager

Attach: Photos, Map, NT-NU Spill Report

cc. Todd Burlingame, Wayne McPhee, Sylvain Proulx, Eric Steinmetzer, Gordon Mudryk (Baffinland)  
Stephen Bathory (QIA), Erik Allain, Sarah Forte, Jonathon Mesher (INAC).

Figure 1 – Area of contamination from fuel leak



Figure 2 – Leaking Wiggins Nozzle into drip tray that mixed with snow melt overtopping





Figure 3 – Area after Occurance



Figure2: NT-NU Spill Report 17-134



Canada

## NT-NU SPILL REPORT

OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS

NT-NU 24-HOUR SPILL REPORT LINE

TEL: (867) 920-8130

FAX: (867) 873-6924

EMAIL: spills@gov.nt.ca

REPORT LINE USE ONLY

A	REPORT DATE: MONTH - DAY - YEAR <b>04-29-2017</b>	REPORT TIME <b>10:30 AM</b>	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT		REPORT NUMBER <b>17</b>
	B	OCCURRENCE DATE: MONTH - DAY - YEAR <b>04-29-2017</b>	OCCURRENCE TIME <b>Unknown</b>		
C	LAND USE PERMIT NUMBER (IF APPLICABLE) <b>IOL - Commercial Lease: Q13C301</b>		WATER LICENCE NUMBER (IF APPLICABLE) <b>2AM-MRY1325 Type "A"</b>		
D	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION <b>Mary River Mine Site, Baffin Island, NU</b>		REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN		
E	LATITUDE DEGREES <b>71</b> MINUTES <b>18</b> SECONDS <b>46</b>		LONGITUDE DEGREES <b>79</b> MINUTES <b>16</b> SECONDS <b>29</b>		
F	RESPONSIBLE PARTY OR VESSEL NAME <b>Baffinland Iron Mines Corp.</b>		RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION <b>2275 Middle Road East, Suite 300, Oakville, ON L6H 0C3</b>		
G	ANY CONTRACTOR INVOLVED <b>N/A</b>		CONTRACTOR ADDRESS OR OFFICE LOCATION <b>N/A</b>		
H	PRODUCT SPILLED <b>Diesel Fuel</b>		QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES <b>Approx. 270 Litres</b>	U.N. NUMBER <b>N/A</b>	
	SECOND PRODUCT SPILLED (IF APPLICABLE) <b>N/A</b>		QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES <b>N/A</b>	U.N. NUMBER <b>N/A</b>	
I	SPILL SOURCE <b>Wash Bay Heating Fuel tank</b>		SPILL CAUSE <b>Leaking Wiggins nozzle</b>		AREA OF CONTAMINATION IN SQUARE METRES <b>20m2</b>
J	FACTORS AFFECTING SPILL OR RECOVERY <b>N/A</b>		DESCRIBE ANY ASSISTANCE REQUIRED <b>N/A</b>		HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT <b>N/A</b>
K	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS  <b>At 10:30 HRS on April 29th, a worker advised the environmental department that there was a dark area on the ground behind the wash bay directly beside a fuel tank. It was determined after inspection that there was a diesel spill from the tank. The workers responded immediately by placing spill pads and duck ponds to collect the diesel. Approx. 270 L of diesel fuel spilled on the camp pad, impacting an area of less than 20m2. The contaminated material was cleaned up and properly disposed of. The location of the spill was confined to the east side of the wash bay pad, and is greater than 100 meters from the closest water body which is currently frozen. The investigation is ongoing and further details of the incident will be provided in the follow-up report. This spill is being reported as required by the conditions of water license no. 2AM-MRY1325, Part H, item 9 (b) pursuant to subsection 12(3) of the Nunavut Waters and Nunavut Surface Rights Tribunal Act.</b>				
L	REPORTED TO SPILL LINE BY <b>Laura Taylor</b>	POSITION <b>Env. Superintendent</b>	EMPLOYER <b>Baffinland</b>	LOCATION CALLING FROM <b>647-253-0596</b>	TELEPHONE <b>ext. 6016</b>
M	ANY ALTERNATE CONTACT <b>Wayne McPhee</b>	POSITION <b>Dir. Sust Development</b>	EMPLOYER <b>Baffinland</b>	ALTERNATE CONTACT <b>Off Site</b>	ALTERNATE TELEPHONE <b>5088</b>
REPORT LINE USE ONLY					
N	RECEIVED AT SPILL LINE BY	POSITION STATION OPERATOR	EMPLOYER	LOCATION CALLED YELLOWKNIFE, NT	REPORT LINE NUMBER (867) 920-8130
LEAD AGENCY <input type="checkbox"/> EC <input type="checkbox"/> CCG <input type="checkbox"/> GNWT <input type="checkbox"/> GN <input type="checkbox"/> ILA <input type="checkbox"/> INAC <input type="checkbox"/> NEB <input type="checkbox"/> TC			SIGNIFICANCE <input type="checkbox"/> MINOR <input type="checkbox"/> MAJOR <input type="checkbox"/> UNKNOWN		FILE STATUS <input type="checkbox"/> OPEN <input type="checkbox"/> CLOSED
AGENCY		CONTACT NAME	CONTACT TIME	REMARKS	
LEAD AGENCY					
FIRST SUPPORT AGENCY					
SECOND SUPPORT AGENCY					
THIRD SUPPORT AGENCY					

PAGE 1 OF 1



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**Re: Follow-up to Spill #17-133, Reported on April 29, 2017**  
**Mary River Project - Water Licence No. 2AM-MRY1325**

**Summary:**

On April 29, 2017 at 07:00 HRS, site services staff notified the environment department of a spill outside a sewage lift station located on the south side of MSC AF Wing. It was observed that the sewage lift station appeared to be functioning properly but raw sewage was observed on the adjacent pad. The source of spill was located at the inlet to the life station where a fernco coupler separated on the 4" gravity line. It is estimated that 170 litres of raw sewage was released to the adjacent ground. The location of the spill was confined to the Mine Site Complex pad, on IOL and is greater than 100 metres from the closest water body which is currently frozen. 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.

**Immediate and Follow-Up Action:**

Fernco coupler was replaced and additional support was added underneath the pipe to limit movement.

**Recommendations:**

Routine inspections of the pipes and inlets should be completed to ensure all components are functioning as designed and there is no worn out or damaged parts.

**Current Status:**

The fernco coupler was replaced and fixed on the 4" gravity line into the lift station.

Should you require further information or clarification on the above noted spill, please feel free to contact William Bowden at (647) 253-0596 x6016, Laura Taylor (647) 253- 0596 x6039 or Allan Knight at (647) 253-0596 x6010.

Prepared By:

A handwritten signature in black ink, appearing to read "K. Babin".

Katherine Babin  
Environmental Coordinator

Reviewed by:

A handwritten signature in black ink, appearing to read "L. Taylor".

Laura Taylor  
Environmental Superintendent

Approved By:

Gordon Mudryk  
Site Services Manager



Attach: Photos, Map, NT-NU Spill Report

cc. Todd Burlingame, Wayne McPhee, Sylvain Proulx, Eric Steinmetzer, Gordon Mudryk, Harold Audet (Baffinland) Stephen Bathory (QIA), Erik Allain, Sarah Forte, Jonathon Mesher (INAC)



Photos:



Photo 1 – Fernco coupler separated on the 4" gravity line into the lift station



**Photo 2 – Raw sewage released to the adjacent ground south of MSC AF Wing**





Photo 3 – New coupler and wood support installed on 4" gravity line

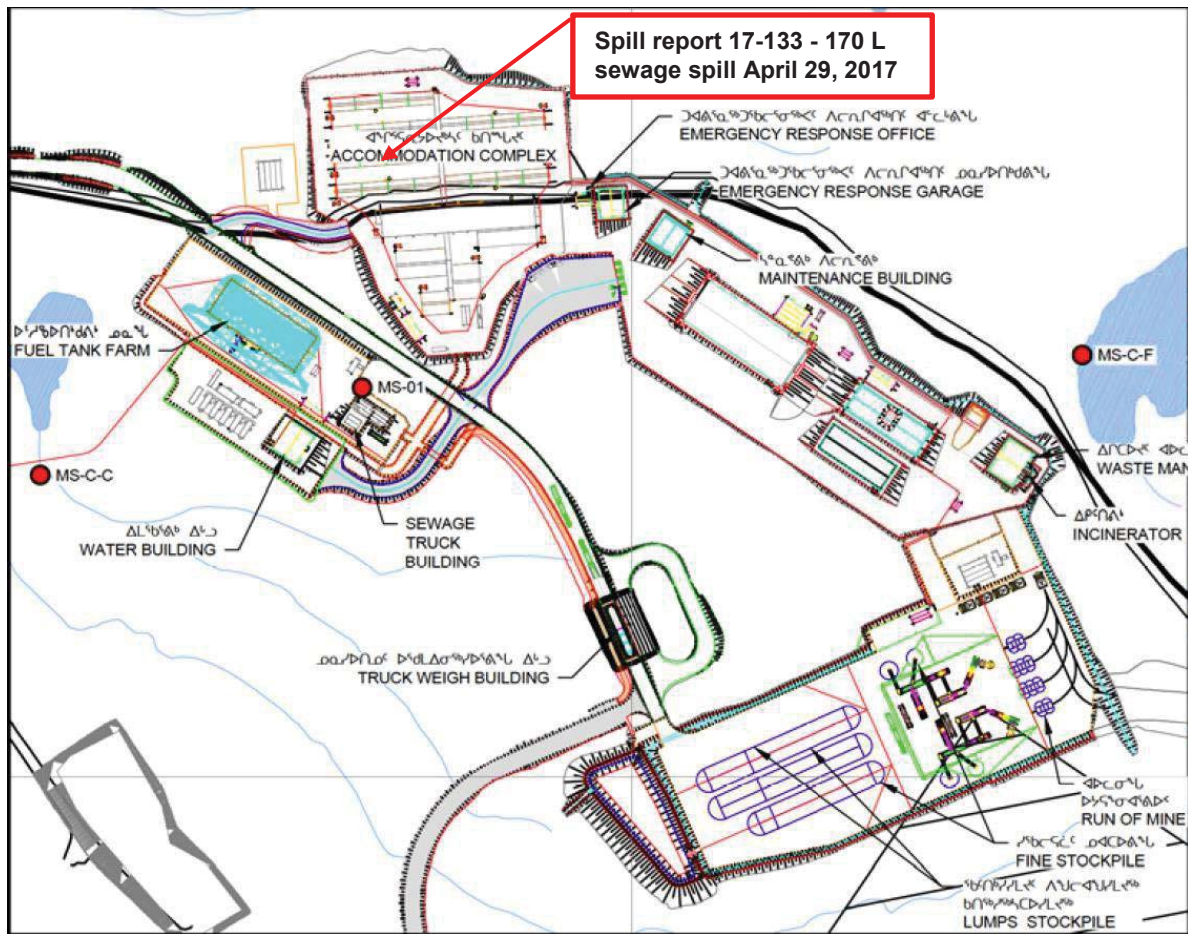


Figure 1 – Map of spill location



# 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

<b>A</b>	REPORT DATE: MONTH - day - YEAR <b>04-29-2017</b>	REPORT TIME <b>8:00 am</b>	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # TO THE ORIGINAL SPILL REPORT	REPORT NUMBER <b>17 - 0</b>
<b>B</b>	OCCURRENCE DATE: MONTH - day - YEAR <b>04-29-2017</b>	OCCURRENCE TIME <b>Unknown</b>		
<b>C</b>	IANDUSE PERMIT NUMBER (if APPLICABLE) <b>IOL - Commercial Lease: Q13C301</b>	WATER LICENSE NUMBER (if APPLICABLE) <b>2AM-MRY1325 Type "A"</b>		
<b>d</b>	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION <b>Mary River Mine Site, Baffin Island, NU</b>	REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN		
<b>E</b>	LATITUDE deg REEs <b>71</b> MINUTES <b>18</b> sECONDs <b>54</b>		LONGITUDE deg REEs <b>79</b> MINUTES <b>17</b> sECONDs <b>03</b>	
<b>f</b>	RESPONSIBLE PARTY OR VESSEL NAME <b>Baffinland Iron Mines Corp.</b>	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION <b>2275 Middle Road East, Suite 300, Oakville, ON L6H 0C3</b>		
<b>g</b>	ANY CONTRACTOR INVOLVED <b>N/A</b>	CONTRACTOR ADDRESS OR OFFICE LOCATION <b>N/A</b>		
<b>h</b>	PRODUCT SPILLED <b>Raw Sewage</b>	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES <b>&lt;170 L</b>	U.N. NUMBER <b>N/A</b>	
	SECONd PRODUCT SPILLED (if APPLICABLE) <b>N/A</b>	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES <b>N/A</b>	U.N. NUMBER <b>N/A</b>	
<b>i</b>	SPIILLSOURCE <b>Sewage Lift Station</b>	SPIILL CAUSE <b>Coupler separated on gravity line</b>	AREA OF CONTAMINATION IN SQUARE METRES <b>10 m3</b>	
<b>j</b>	FACTORS AFFECTING SPILL OR RECOVERY <b>Congested area, snow, ice, electrical</b>	DESCRIBE ANY ASSISTANCE REQUIRED <b>N/A</b>	HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT <b>N/A</b>	
<b>k</b>	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS <b>At 07:00 HRS on April 29th, site services staff notified the environment department of possible spill outside a sewage lift station outside the MSC AF Wing West. It was observed that the sewage lift station appeared to functionally properly. Snow and ice was cleared from inlet pipe. Source of spill was located at the inlet where a fernco coupler separated on the 4" gravity line into the lift station. It is estimated that 170 litres of raw sewage was released to the adjacent ground. The location of the spill was confined to the Mine Site Complex pad, and is greater than 100 metres from the closest water body which is currently frozen. The investigation and repairs are ongoing and further details of the incident will be provided in the follow-up report. This spill is being reported as required by the conditions of water license no. 2AM-MRY1325, Part H, item 9 (b) pursuant to subsection 12(3) of the Nunavut Waters and Nunavut Surface Rights Tribunal Act.</b>			
<b>l</b>	REPORTED TO SPILL LINE BY <b>Laura Taylor</b>	POSITION <b>Env. Superintendent</b>	EMPLOYER <b>Baffinland</b>	LOCATION CALLING FROM <b>647-253-0596</b>
<b>M</b>	ANY ALTERNATE CONTACT <b>Wayne McPhee</b>	POSITION <b>Dir. Sust Development</b>	EMPLOYER <b>Baffinland</b>	ALTERNATE CONTACT Off Site LOCATION <b>5088</b>
REPORT LINE USE ONLY				
<b>N</b>	RECEIVED AT SPILL LINE BY <b>STATION OPERATOR</b>	POSITION <b>STATION OPERATOR</b>	EMPLOYER <b>STATION OPERATOR</b>	LOCATION CALLED YELLOWKNIFE, NT <b>(867) 920-8130</b>
LEAD AGENCY <b>AgEncy</b>		SIGNIFICANCE MINOR MAJOR UNKNOWN		FILE STATUS OPEN CLOSED
CONTACT NAME <b>AgEncy</b>		CONTACT TIME <b>AgEncy</b>		REMARKS <b>AgEncy</b>
FIRST SUPPORT AGENCY <b>AgEncy</b>		CONTACT TIME <b>AgEncy</b>		REMARKS <b>AgEncy</b>
SECOND SUPPORT AGENCY <b>AgEncy</b>		CONTACT TIME <b>AgEncy</b>		REMARKS <b>AgEncy</b>
THIRD SUPPORT AGENCY <b>AgEncy</b>		CONTACT TIME <b>AgEncy</b>		REMARKS <b>AgEncy</b>

Figure 2 – NT-NU Spill report 17-133



June 2, 2017

Resource Management Officer  
Nunavut Field Operations  
Indigenous and Northern Affairs Canada  
Box 100  
Iqaluit, NU X0A 0H0  
Justin.Hack@aandc-aadnc.gc.ca

Director, Major Projects  
Qikiqtani Inuit Association  
P.O. Box 219  
Iqaluit, NU X0A 0H0

**Re: Follow-up to Spill #17-141, Reported on May 3rd, 2017**  
**Mary River Project - Water Licence No. 2AM-MRY1325**

**Summary:**

On May 3rd 2017 at 1430 HRS, a 777 haul truck located off to the side of the road between km 109 and km 110 on the mine haul road was waiting for repairs. After the haul truck was repaired it was restarted and at that time the oil cooler causing approximately 220L of coolant to be released, impacting an area of 2 square meters. The location of the spill was confined to the frozen surface of the road with no possibility of migrating, and is greater than 500m from the closest water body which is currently frozen.

**Immediate and Follow-Up Action:**

A berm was formed around the equipment to prevent the spill from migrating. The source of the leak was removed from the system and repaired. Spill pads and secondary containment were used to remove excess pooling coolant.

**Recommendations:**

Preventative maintenance inspection programs for Cat 777s are continuing to be implemented to reduce operational breakdowns and resultant spills.

**Current Status:**

The coolant line was replaced and the Cat 777 was put back into service. The affected area was cleaned up and the contaminated snow was placed in the snow dump a lined engineered containment facility.

Should you require further information or clarification on the above noted spill, please feel free to contact William Bowden or Laura Taylor at (647) 253-0596 x6016 or Allan Knight at (647) 253-0596 x6010.

Prepared By:

Katherine Babin

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

Environmental Coordinator

Reviewed by:

Laura Taylor

A handwritten signature in black ink, appearing to read "L. Taylor".

Environmental Superintendent

Attach: Photos, Map, NT-NU Spill Report

cc. Todd Burlingame, Wayne McPhee, Sylvain Proulx, Robert Gagne, Josh Manning, Adam Gyorffy Stephen Bathory (QIA), Erik Allain, Sarah Forte, Jonathon Mesher (INAC)



Photo 1 – Spill tray placed underneath 777 during spill



Photo 3 – Photo of spill location 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

REPORT LINE USE ONLY

<b>A</b>	REPORT DATE: MONTH – DAY – YEAR <b>05-03-2017</b>	REPORT TIME <b>18:30HRS</b>	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # TO THE ORIGINAL SPILL REPORT	REPORT NUMBER <b>17-141</b>
<b>B</b>	OCCURRENCE DATE: MONTH – DAY – YEAR <b>04-12-2017</b>	OCCURRENCE TIME <b>17:30 HRS</b>		
<b>C</b>	LAND USE PERMIT NUMBER (IF APPLICABLE) <b>IOL - Commercial Lease: Q13C301</b>	WATER LICENCE NUMBER (IF APPLICABLE) <b>2AM-MRY1325 Type "A"</b>		
<b>D</b>	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION <b>Mary River Mine Site, Baffin Island, NU</b>		REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN	
<b>E</b>	LATITUDE DEGREES <b>71</b> MINUTES <b>19</b> SECONDS <b>46</b>		LONGITUDE DEGREES <b>79</b> MINUTES <b>13</b> SECONDS <b>16</b>	
<b>F</b>	RESPONSIBLE PARTY OR VESSEL NAME <b>Baffinland Iron Mines Corp.</b>	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION <b>2275 Middle Road East, Suite 300, Oakville, ON L6H 0C3</b>		
<b>G</b>	ANY CONTRACTOR INVOLVED <b>N/A</b>	CONTRACTOR ADDRESS OR OFFICE LOCATION <b>N/A</b>		
<b>H</b>	PRODUCT SPILLED <b>Coolant</b>	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES <b>Approx. 220 L</b>	U.N. NUMBER	
	SECOND PRODUCT SPILLED (IF APPLICABLE) <b>N/A</b>	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES <b>N/A</b>	U.N. NUMBER <b>N/A</b>	
<b>I</b>	SPILL SOURCE <b>777 Haul truck</b>	SPILL CAUSE <b>Coolant hose clamp broke</b>	AREA OF CONTAMINATION IN SQUARE METRES <b>2 m2</b>	
<b>J</b>	FACTORS AFFECTING SPILL OR RECOVERY <b>Frozen Conditions and snow</b>	DESCRIBE ANY ASSISTANCE REQUIRED <b>heavy equipment</b>	HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT <b>N/A</b>	
<b>K</b>	<p>ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS</p> <p>On May 3rd, 2017, a haul truck located between km 109 and km 110 off to the side of the mine road broken down waiting for repairs. When the haul truck was repaired it was restarted and at that time the oil cooler cracked causing approx 220L of coolant to be released, impacting an area of 2 square meters. The source of the leak was removed from the system/ repaired and spill pads and secondary containment were used to mitigate the spill. The location of the spill was confined to the frozen surface on top of the pit with no possibility of migrating, and is greater than 500m from the closest water body which is frozen. The clean up of contaminated material is underway and the investigation is ongoing; further details of the incident and cause will be provided in the follow-up report. This spill is being reported as required by the conditions of water license no. 2AM-MRY1325, Part H, item 9 (b) pursuant to subsection 12(3) of the Nunavut Waters and Nunavut Surface Rights Tribunal Act.</p>			
<b>L</b>	REPORTED TO SPILL LINE BY <b>Laura Taylor</b>	POSITION <b>Env. Superintendent</b>	EMPLOYER <b>Baffinland</b>	LOCATION CALLING FROM <b>647-253-0596</b>
<b>M</b>	ANY ALTERNATE CONTACT <b>Wayen McPhee</b>	POSITION <b>Env. Director</b>	EMPLOYER <b>Baffinland</b>	ALTERNATE CONTACT <b>416-996-5523</b>
REPORT LINE USE ONLY				
<b>N</b>	RECEIVED AT SPILL LINE BY	POSITION STATION OPERATOR	EMPLOYER	LOCATION CALLED YELLOWKNIFE, NT
LEAD AGENCY <input type="checkbox"/> EC <input type="checkbox"/> CCG <input type="checkbox"/> GNWT <input type="checkbox"/> GN <input type="checkbox"/> LA <input type="checkbox"/> NAC <input type="checkbox"/> NEB <input type="checkbox"/> TC			SIGNIFICANCE <input type="checkbox"/> MINOR <input type="checkbox"/> MAJOR <input type="checkbox"/> UNKNOWN	FILE STATUS <input type="checkbox"/> OPEN <input type="checkbox"/> CLOSED
AGENCY		CONTACT NAME	CONTACT TIME	REMARKS
LEAD AGENCY				
FIRST SUPPORT AGENCY				
SECOND SUPPORT AGENCY				
THIRD SUPPORT AGENCY				

Figure 2 – NT-NU Spill report 17-141



June 28, 2017

Resource Management Officer  
Nunavut Field Operations  
Aboriginal Affairs and Northern Development Canada  
Box 100  
Iqaluit, NU X0A 0H0  
Justin.Hack@aandc-aadnc.gc.ca

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

**Re: Follow-up to Spill #17-183, Reported on May 28<sup>th</sup>, 2017**  
**Mary River Project - Water Licence No. 2AM-MRY1325**

**Summary:**

On May 28<sup>th</sup>, 17:00, during an inspection of the Mine Site Hazardous Waste Berm #7 (HWB 7), a spill of waste oil was observed inside the bermed facility. Upon investigation, it is suspected the source of the spill was from a damaged waste oil tote with a maximum capacity of 1 cubic metre. The spill is entirely contained within the engineered lined containment that is inspected annually by a qualified Geotechnical Engineer. An inspection around the foot of the berm of the facility indicated no leakage to the environment. The spill location is greater than 500 meters from the nearest water body and occurred on Inuit Owned Land.

**Immediate and Follow-Up Action:**

The Oily Water Separator (OWS) was employed to treat the contaminated water in the berm starting June 15, 2017 and has processed 220 M<sup>3</sup> to date. Contaminated water processing is ongoing. The berm is storage to numerous 1 m<sup>3</sup> totes containing used hydrocarbons awaiting backhaul for proper disposal during the 2017 backhaul sealift program.

**Recommendations:**

Proper stacking and placement of all hazardous materials within line containment structures has been communicated to all responsible departments. Additional OWS supplies are planned for purchase in 2017.

**Current Status:**

The OWS is processing the contaminated water in the berm under the applicable water licence criteria. Until that time, the integrity of the engineered lined containment is being monitored to ensure there is no release to the receiving environment outside of containment.

Should you require further information or clarification on the above noted spill, please feel free to William Bowden or Laura Taylor at (647) 253-0596 x6016 or Allan Knight at (647) 253-0596 x6010.

Prepared By:

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

Connor Devereaux  
Environmental Coordinator

Reviewed by:

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

William Bowden  
Environmental Superintendent

Attach: Photos, Map, NT-NU Spill Report

cc. Todd Burlingame, Wayne McPhee, Allan Knight, Sylvain Proulx, Eric Steinmetzer, Gordon Mudryk, Jeff Bush (Baffinland), Stephen Bathroy (QIA), Erik Allain, Jonathan Mesher Sarah Forte (INAC)



**Photo 1: Initial Spill Area inside MS Old Fuel Bladder Farm (HWB 7)**



**Photo 4: OWS Processing Contaminated Water in MS Old Fuel Bladder Farm (HWB 7)**



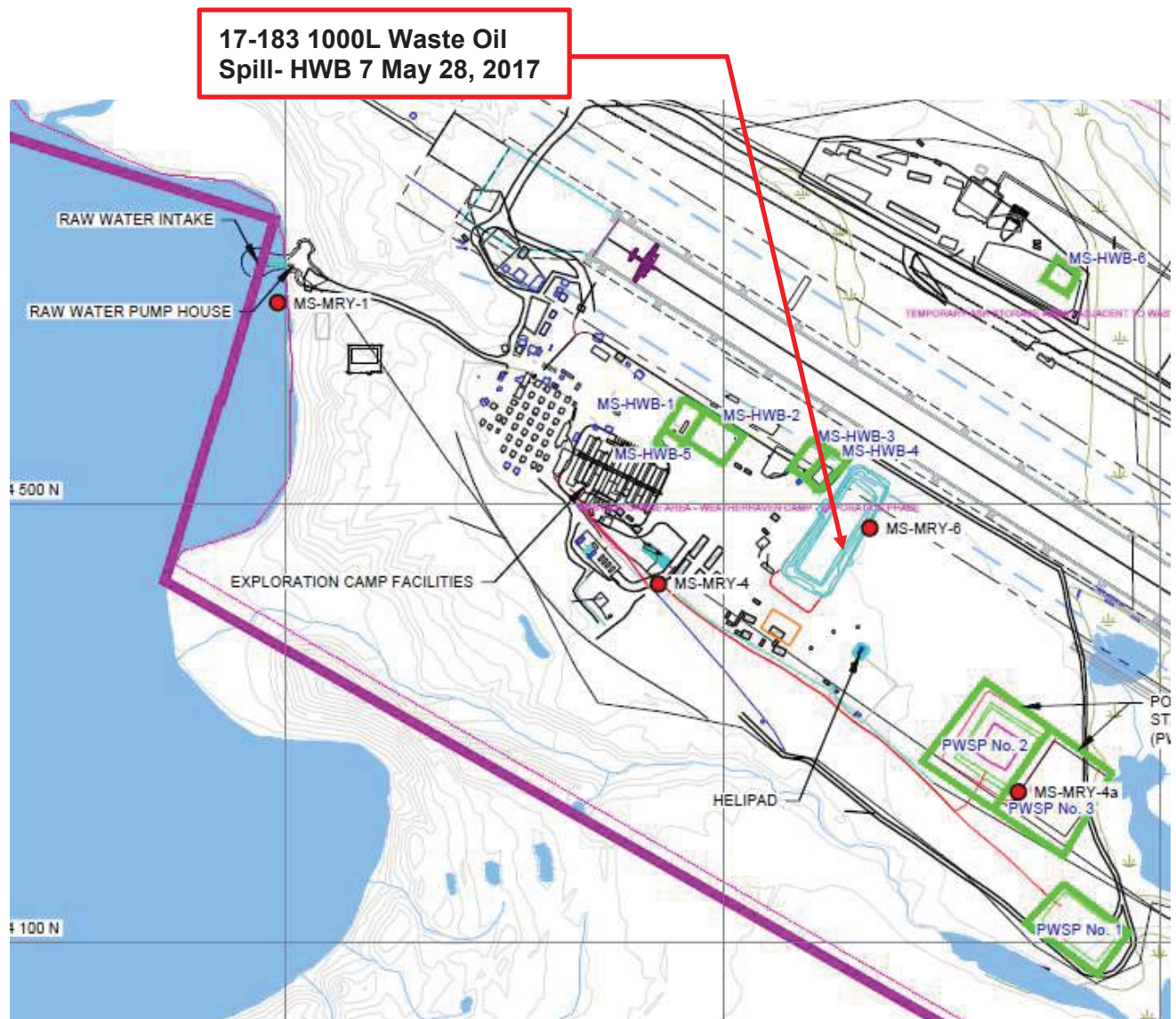


Figure 1: Map of Spill Location





# 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

<b>A</b>	REPORT DATE: MONTH - DAY - YEAR <b>05-28-2017</b>	REPORT TIME <b>13:00 HRS</b>	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # TO THE ORIGINAL SPILL REPORT	REPORT NUMBER <b>17 183</b>
<b>B</b>	OCCURRENCE DATE: MONTH - DAY - YEAR <b>Unknown</b>	OCCURRENCE TIME <b>Unknown</b>		
<b>C</b>	LAND USE PERMIT NUMBER (IF APPLICABLE) <b>IOL - Commercial Lease: Q13C301</b>	WATER LICENCE NUMBER (IF APPLICABLE) <b>2AM-MRY1325 Type "A"</b>		
<b>D</b>	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION <b>Mary River Mine Site, Baffin Island, NU</b>	REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN		
<b>E</b>	LATITUDE DEGREES <b>71</b> MINUTES <b>19</b> SECONDS <b>31</b>	LONGITUDE DEGREES <b>79</b> MINUTES <b>22</b> SECONDS <b>08</b>		
<b>F</b>	RESPONSIBLE PARTY OR VESSEL NAME <b>Baffinland Iron Mines Corp.</b>	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION <b>2275 Middle Road East, Suite 300, Oakville, ON L6H 0C3</b>		
<b>G</b>	ANY CONTRACTOR INVOLVED <b>N/A</b>	CONTRACTOR ADDRESS OR OFFICE LOCATION <b>N/A</b>		
<b>H</b>	PRODUCT SPILLED <b>Waste Oil</b>	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES <b>1 cubic metre</b>	U.N. NUMBER <b>N/A</b>	
	SECOND PRODUCT SPILLED (IF APPLICABLE) <b>N/A</b>	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES <b>N/A</b>	U.N. NUMBER <b>N/A</b>	
<b>I</b>	SPILL SOURCE <b>Damaged waste oil tote in berm</b>	SPILL CAUSE <b>Damaged tote</b>	AREA OF CONTAMINATION IN SQUARE METRES <b>Approx. 200 square metres</b>	
<b>J</b>	FACTORS AFFECTING SPILL OR RECOVERY <b>On water/ice/snow in lined berm</b>	DESCRIBE ANY ASSISTANCE REQUIRED <b>N/A</b>	HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT <b>N/A</b>	
<b>K</b>	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS  On May 28 2017, a spill was discovered during routine inspections of the Mine Site Hazardous Waste Berm #7 (HWB7). Upon initial investigation, it is suspected that the source of the spill was from a damaged waste oil tote with a maximum capacity of 1 cubic metre. The spill is entirely contained within the HWB7 which is a engineered lined containment berm that is inspected annually by a qualified Geotechnical Engineer. The facility is located >500 m from the nearest water body and occurred on Inuit owned land. Initial estimates of product release was less than 1 cubic metre. The free phase product will be recovered from the water surface once the ice and snow in the berm melts. Further details will be provided of the clean up in the follow-up report. This spill is being reported as required by the conditions of Water Licence No. 2AM-MRY1325, Part H , item 9 (b) pursuant to subsection 12(3) of the Nunavut Waters and Nunavut Surface Rights Tribunal Act.			
<b>L</b>	REPORTED TO SPILL LINE BY <b>Laura Taylor</b>	POSITION <b>Env. Superintendent</b>	EMPLOYER <b>Baffinland</b>	LOCATION CALLING FROM <b>Mary River</b>
<b>M</b>	ANY ALTERNATE CONTACT <b>Wayne</b>	POSITION <b>Director Sust. Dev.</b>	EMPLOYER <b>Baffinland</b>	ALTERNATE CONTACT <b>Oakville</b>
REPORT LINE USE ONLY				
<b>N</b>	RECEIVED AT SPILL LINE BY <b>STATION OPERATOR</b>	POSITION <b>STATION OPERATOR</b>	EMPLOYER <b>YELLOWKNIFE, NT</b>	REPORT LINE NUMBER <b>(867) 920-8130</b>
LEAD AGENCY <input type="checkbox"/> EC <input type="checkbox"/> CCG <input type="checkbox"/> GNWT <input type="checkbox"/> GN <input type="checkbox"/> LA <input type="checkbox"/> NAC <input type="checkbox"/> NEB <input type="checkbox"/> TC		SIGNIFICANCE <input type="checkbox"/> MINOR <input type="checkbox"/> MAJOR <input type="checkbox"/> UNKNOWN		FILE STATUS <input type="checkbox"/> OPEN <input type="checkbox"/> CLOSED
AGENCY	CONTACT NAME	CONTACT TIME	REMARKS	
LEAD AGENCY				
FIRST SUPPORT AGENCY				
SECOND SUPPORT AGENCY				
THIRD SUPPORT AGENCY				

PAGE 1 OF 1

Figure 2: NT-NU Spill Report



July 13, 2017

Resource Management Officer  
Nunavut Field Operations  
Indigenous and Northern Affairs Canada  
Box 100  
Iqaluit, NU X0A 0H0  
Justin.Hack@aandc-aadnc.gc.ca

Director, Major Projects  
Qikiqtani Inuit Association  
P.O. Box 219  
Iqaluit, NU X0A 0H0

**Re: Follow-up to Spill #17-207, Reported on June 13<sup>th</sup>, 2017**  
**Mary River Project - Water Licence No. 2AM-MRY1325**

**Summary:**

At 17:30 hrs on June 13<sup>th</sup>, a worker advised the environmental department that there was a leak coming from a tote in front of the maintenance shop. It was determined after inspection that a tote was leaking wash water to the maintenance pad. The workers responded immediately by placing spill pads and duck ponds to collect the sump water that potentially was contaminated with hydrocarbons. Approx. 100 L of sump water spilled on the pad, impacting an area of less than 20m<sup>2</sup>. The contaminated material was cleaned up and properly disposed of. The location of the spill was confined to the west side of the wash bay pad, and is greater than 100 meters from the closest water body. The tote was disposed of and a new tote was put in place for use.

**Recommendations:**

Routine checks of totes is ongoing and will be focusing efforts to inspect the holding containers around the maintenance shop and will be increasing inspections around the area.

**Current Status:**

New totes have been used since to dispose of sump water.

Should you require further information or clarification on the above noted spill, please feel free to contact William Bowden / Laura Taylor at (647) 253-0596 x6016 or Allan Knight at (647) 253-0596 x6010

Prepared by:

A handwritten signature in black ink, appearing to be "L. Taylor", written over a light blue grid background.

Laura Taylor  
Environmental Superintendent

Approved By:

A handwritten signature in black ink, appearing to be "D. Buzzi", written over a light blue grid background.

Derek Buzzi  
Maintenance Manager

Attach: Photos, Map, NT-NU Spill Report

cc. Todd Burlingame, Wayne McPhee, Sylvain Proulx, Eric Steinmetzer, Derek Buzzi, Lee Dixon (Baffinland) Stephen Bathory (QIA), Erik Allain, Sarah Forte, Jonathon Mesher (INAC).

Figure 1 – Area of leak from sump water tote





Figure 3 – Area after Occurrence





Figure2: NT-NU Spill Report 17-2



## 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

<b>A</b>	REPORT DATE: MONTH - DAY - YEAR	REPORT TIME	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT	REPORT NUMBER <b>17 207</b>	
	06-13-2017	05:15 hrs			
<b>B</b>	OCCURRENCE DATE: MONTH - DAY - YEAR	OCCURRENCE TIME			
	06-13-2017	04:30 hrs			
<b>C</b>	LAND USE PERMIT NUMBER (IF APPLICABLE)	WATER LICENCE NUMBER (IF APPLICABLE)			
	IOL - Commercial Lease: Q13C301	2AM-MRY1325 Type "A"			
<b>D</b>	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION	REGION			
	Mary River Mine Site, Baffin Island, NU	<input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN			
<b>E</b>	LATITUDE	LONGITUDE			
	DEGREES 71 MINUTES 18 SECONDS 51	DEGREES 79 MINUTES 16 SECONDS 45			
<b>F</b>	RESPONSIBLE PARTY OR VESSEL NAME	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION			
	Baffinland Iron Mines Corp.	2275 Middle Road East, Suite 300, Oakville, ON L6H 0C3			
<b>G</b>	ANY CONTRACTOR INVOLVED	CONTRACTOR ADDRESS OR OFFICE LOCATION			
	N/A	N/A			
<b>H</b>	PRODUCT SPILLED	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES	U.N. NUMBER		
	Sump Water	< 1 cubic metre	N/A		
<b>H</b>	SECOND PRODUCT SPILLED (IF APPLICABLE)	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES	U.N. NUMBER		
	N/A	N/A	N/A		
<b>I</b>	SPILL SOURCE	SPILL CAUSE	AREA OF CONTAMINATION IN SQUARE METRES		
	Damaged tote being moved	Damaged tote	Approx. 100 square metres		
<b>J</b>	FACTORS AFFECTING SPILL OR RECOVERY	DESCRIBE ANY ASSISTANCE REQUIRED	HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT		
	N/A	N/A	N/A		
<b>K</b>	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS				
	<p>On June 13, 2017, it was noticed that a water tote had leaked onto the ground outside of the Mine Site Maintenance Shop. Upon initial investigation, it was discovered that 1/3 of the tote contained sediments and the lower section of the tote had split. The 1 cubic meter tote would have contained a maximum of 600 litres of water collected from the sumps in the Maintenance Shop. Once discovered a spill boom was placed to stop the contaminated water from flowing onto the road. The contaminated ground surface has been scraped up and placed in a quatrex bag for disposal at the Milne Port Landfarm.</p> <p>The spill site is on IOL located &gt;200 m from the nearest water body.</p> <p>Further details will be provided of the clean up in the follow-up report. This spill is being reported as required by the conditions of Water Licence No. 2AM-MRY1325, Part H, item 9 (b) pursuant to subsection 12(3) of the Nunavut Waters and Nunavut Surface Rights Tribunal Act.</p>				
<b>L</b>	REPORTED TO SPILL LINE BY	POSITION	EMPLOYER	LOCATION CALLING FROM	TELEPHONE
	Allan Knight	Env. Superintendent	Baffinland	Mary River	6010
<b>M</b>	ANY ALTERNATE CONTACT	POSITION	EMPLOYER	ALTERNATE CONTACT	ALTERNATE TELEPHONE
	Wayne	Director Sust. Dev.	Baffinland	Oakville	5088
REPORT LINE USE ONLY					
<b>N</b>	RECEIVED AT SPILL LINE BY	POSITION	EMPLOYER	LOCATION CALLED	REPORT LINE NUMBER
		STATION OPERATOR		YELLOWKNIFE, NT	(867) 920-8130
LEAD AGENCY <input type="checkbox"/> EC <input type="checkbox"/> CCG <input type="checkbox"/> GNWT <input type="checkbox"/> GN <input type="checkbox"/> ILA <input type="checkbox"/> INAC <input type="checkbox"/> NEB <input type="checkbox"/> TC			SIGNIFICANCE <input type="checkbox"/> MINOR <input type="checkbox"/> MAJOR <input type="checkbox"/> UNKNOWN		FILE STATUS <input type="checkbox"/> OPEN <input type="checkbox"/> CLOSED
AGENCY		CONTACT NAME	CONTACT TIME	REMARKS	
LEAD AGENCY					
FIRST SUPPORT AGENCY					
SECOND SUPPORT AGENCY					
THIRD SUPPORT AGENCY					



July 17<sup>th</sup>, 2017

Resource Management Officer  
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Indigenous and Northern Affairs Canada  
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Justin.Hack@aandc-aadnc.gc.ca

Director, Major Projects  
Qikiqtani Inuit Association  
P.O. Box 219  
Iqaluit, NU X0A 0H0

**Re: Follow-up to Spill #17-217, Reported on June 17<sup>th</sup>, 2017**  
**Mary River Project - Water Licence No. 2AM-MRY1325**

**Summary:**

**The rock construction pad at Milne Port, is that it is currently being address through a Request for Modification through the Nunavut Water Board.**

Should you require further information or clarification on the above noted spill, please feel free to contact William Bowden / Laura Taylor at (647) 253-0596 x6016 or Allan Knight at (647) 253-0596 x6010

Prepared by:




A handwritten signature in black ink, appearing to be "L. Taylor", written over a light blue grid background.

Laura Taylor  
Environmental Superintendent

Attach: NT-NU Spill Report

cc. Todd Burlingame, Wayne McPhee, Sylvain Proulx, Eric Steinmetzer, Gerald Stephen Bathory (QIA), Erik Allain, Sarah Forte, Jonathon Mesher (INAC).

Figure2: NT-NU Spill Report 17-217

  		<b>NT-NU SPILL REPORT</b> <small>OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS</small>		<b>NT-NU 24-HOUR SPILL REPORT LINE</b> <small>TEL: (867) 920-8130  FAX: (867) 873-6924  EMAIL: spills@gov.nt.ca</small>	
REPORT LINE USE ONLY					
<b>A</b>	REPORT DATE: MONTH - DAY - YEAR <b>06-18-2017</b>	REPORT TIME <b>15:00</b>	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT		REPORT NUMBER <b>17 217</b>
<b>B</b>	OCCURRENCE DATE: MONTH - DAY - YEAR <b>Unknown</b>	OCCURRENCE TIME <b>Unknown</b>			
<b>C</b>	LAND USE PERMIT NUMBER (IF APPLICABLE) <b>IOL - Commercial Lease No.: Q13C301</b>	WATER LICENCE NUMBER (IF APPLICABLE) <b>2AM-MRY1325 Type "A"</b>			
<b>D</b>	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION <b>Mary River Project Milne Port, Baffin Island, NU</b>		REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN		
<b>E</b>	LATITUDE DEGREES <b>71</b> MINUTES <b>52</b> SECONDS <b>53</b>		LONGITUDE DEGREES <b>80</b> MINUTES <b>54</b> SECONDS <b>24</b>		
<b>F</b>	RESPONSIBLE PARTY OR VESSEL NAME <b>Baffinland Iron Mines Corp.</b>	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION <b>2275 Upper Middle Road East, Suite 300, Oakville, ON, Canada</b>			
<b>G</b>	ANY CONTRACTOR INVOLVED <b>Nuna Logistics, Hatch</b>	CONTRACTOR ADDRESS OR OFFICE LOCATION			
<b>H</b>	PRODUCT SPILLED <b>rock</b>	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES <b>Unknown</b>	U.N. NUMBER <b>N/A</b>		
	SECOND PRODUCT SPILLED (IF APPLICABLE) <b>N/A</b>	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES <b>N/A</b>	U.N. NUMBER <b>N/A</b>		
<b>I</b>	SPILL SOURCE <b>Clean quarried rock</b>	SPILL CAUSE <b>Placement of rock fill in drainag</b>	AREA OF CONTAMINATION IN SQUARE METRES <b>n/a</b>		
<b>J</b>	FACTORS AFFECTING SPILL OR RECOVERY	DESCRIBE ANY ASSISTANCE REQUIRED <b>None</b>	HAZARDS TO PERSONS, PROPERTY OR ENVIRONMENT <b>None</b>		
<b>K</b>	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS  <b>See attached Inspector's Direction issued on June 9, 2017 and response to Inspector's Direction dated June 14, 2017. This is being reported as required by the conditions of Water Licence No. 2AM-MRY1325 and section 16(1) of the Nunavut Water Regulations.</b>				
<b>L</b>	REPORTED TO SPILL LINE BY <b>William Bowden</b>	POSITION <b>Env Superintendent</b>	EMPLOYER <b>Baffinland</b>	LOCATION CALLING FROM <b>Mary River</b>	TELEPHONE <b>ext 6016</b>
<b>M</b>	ANY ALTERNATE CONTACT <b>Wayne Mcphee</b>	POSITION <b>Dir Sust Development</b>	EMPLOYER <b>Baffinland</b>	ALTERNATE CONTACT <b>647-253-0596</b>	ALTERNATE TELEPHONE <b>Ext. 5088</b>
REPORT LINE USE ONLY					
<b>N</b>	RECEIVED AT SPILL LINE BY	POSITION STATION OPERATOR	EMPLOYER	LOCATION CALLED YELLOWKNIFE, NT	REPORT LINE NUMBER (867) 920-8130
LEAD AGENCY <input type="checkbox"/> BC <input type="checkbox"/> CCG <input type="checkbox"/> GNWT <input type="checkbox"/> GN <input type="checkbox"/> ILA <input type="checkbox"/> INAC <input type="checkbox"/> NFB <input type="checkbox"/> TC			SIGNIFICANCE <input type="checkbox"/> MINOR <input type="checkbox"/> MAJOR <input type="checkbox"/> UNKNOWN		FILE STATUS <input type="checkbox"/> OPEN <input type="checkbox"/> CLOSED
AGENCY		CONTACT NAME	CONTACT TIME	REMARKS	
LEAD AGENCY					
FIRST SUPPORT AGENCY					
SECOND SUPPORT AGENCY					
THIRD SUPPORT AGENCY					



July 16, 2017

Resource Management Officer  
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Manager, Major Projects  
Qikiqtani Inuit Association  
P.O. Box 219  
Iqaluit, NU X0A 0H0

**Re: Follow-up to Spill #17-215- Reported on June 17<sup>th</sup>, 2017**  
**Mary River Project - Water Licence No. 2AM-MRY1325**

**Summary:**

At 08:00 HRS on June 17th, housing maintainers were advised of a leak fault light coming from a MSC day tank pump controls. Upon further inspection it was discovered that the fitting on the supply side of the day tank was leaking when the feed pump was running. The master switch for the fuel pumps and the isolation valves on the supply and return piping to and from the day tank were turned off. Approx. 200 L of diesel fuel was released onto the camp pad, occurred on IOL, and impacted an area of approx. 4m<sup>2</sup>. The location of the spill was confined to the MSC camp pad, and is greater than 100 meters from the closest water body.

**Immediate and Follow-Up Action:**

Spill pads were utilised and the contaminated material was completely cleaned up and properly disposed of as access and frozen conditions allow. The fitting on the side of the day tank was replaced.

**Recommendations:**

Continue inspections of the day tanks around site. Train new staff to be conscious of these pump controls.

Should you require further information or clarification on the above noted spill, please feel free to William Bowden or Laura Taylor at (647) 253-0596 x6016 or Allan Knight at (647) 253-0596 x6010.

Prepared By:

A handwritten signature in black ink, appearing to be "L. Taylor", written over a light blue grid background.

Laura Taylor  
Environmental Superintendent

Attach: Map, NT-NU Spill Report

cc. Todd Burlingame, Wayne McPhee, Allan Knight, Sylvain Proulx, Eric Steinmetzer, Gerald Rogers, Gordon Mudryk, Jeff Bush, William Bowden (Baffinland), Stephen Bathroy (QIA), Erik Allain, Jonathan Mesher, Justin Hack, Sarah Forte (INAC)



Figure 1: Map of Spill Location

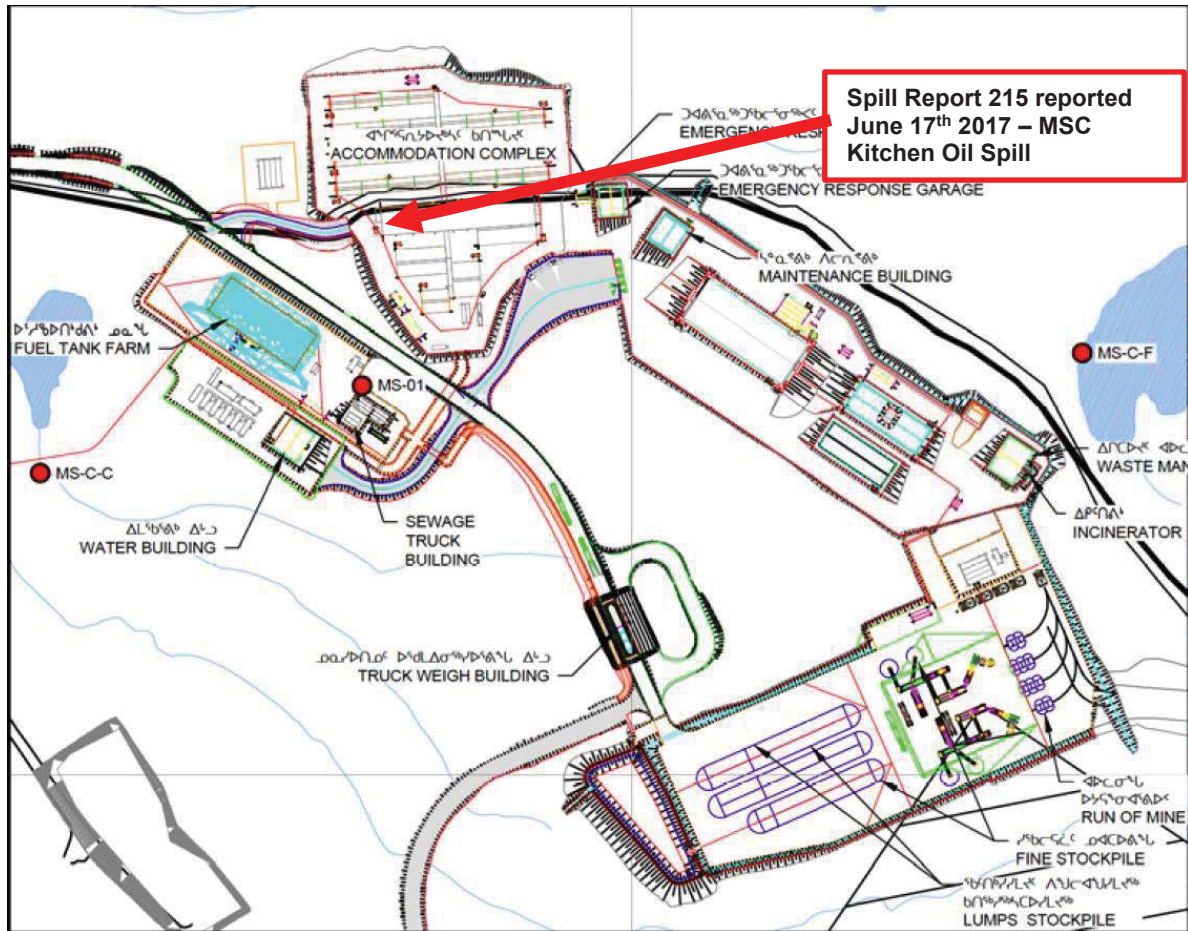
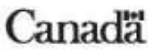


Figure 2: NT-NU Spill Report

 		<b>NT-NU SPILL REPORT</b> OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS		<b>NT-NU 24-HOUR SPILL REPORT LINE</b> TEL: (867) 920-8130 FAX: (867) 873-6924 EMAIL: spills@gov.nt.ca	
REPORT LINE USE ONLY					
<b>A</b>	REPORT DATE: MONTH - DAY - YEAR <b>06-17-2017</b>		REPORT TIME <b>22:00</b>		<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT
<b>B</b>	OCCURRENCE DATE: MONTH - DAY - YEAR <b>06-17-2017</b>		OCCURRENCE TIME <b>Unknown</b>		
<b>C</b>	LAND USE PERMIT NUMBER (IF APPLICABLE) <b>IOL - Commercial Lease: Q13C301</b>		WATER LICENCE NUMBER (IF APPLICABLE) <b>2AM-MRY1325 Type "A"</b>		
<b>D</b>	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION <b>Mary River Mine Site, Baffin Island, NU</b>		REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN		
<b>E</b>	LATITUDE DEGREES <b>71</b> MINUTES <b>18</b> SECONDS <b>52</b>		LONGITUDE DEGREES <b>79</b> MINUTES <b>17</b> SECONDS <b>04</b>		
<b>F</b>	RESPONSIBLE PARTY OR VESSEL NAME <b>Baffinland Iron Mines Corp.</b>		RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION <b>2275 Middle Road East, Suite 300, Oakville, ON L6H 0C3</b>		
<b>G</b>	ANY CONTRACTOR INVOLVED <b>N/A</b>		CONTRACTOR ADDRESS OR OFFICE LOCATION <b>N/A</b>		
<b>H</b>	PRODUCT SPILLED <b>Diesel Fuel</b>		QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES <b>Approx. 200 Litres</b>		U.N. NUMBER <b>N/A</b>
	SECOND PRODUCT SPILLED (IF APPLICABLE) <b>N/A</b>		QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES <b>N/A</b>		U.N. NUMBER <b>N/A</b>
<b>I</b>	SPILL SOURCE <b>MSC Kitchen Fuel Day Tank</b>		SPILL CAUSE		AREA OF CONTAMINATION IN SQUARE METRES <b>4m2</b>
<b>J</b>	FACTORS AFFECTING SPILL OR RECOVERY <b>Poor access</b>		DESCRIBE ANY ASSISTANCE REQUIRED <b>N/A</b>		HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT <b>N/A</b>
<b>K</b>	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS  <b>At 08:00 HRS on June 17th, housing maintainers were advised of a leak fault light coming from a MSC day tank pump controls. Upon further inspection it was discovered that the fitting on the supply side of the day tank was leaking when the feed pump was running. The master switch for the fuel pumps and the isolation valves on the supply and return piping to and from the day tank were turned off. Approx. 200 L of diesel fuel was released onto the camp pad, occurred on IOL, and impacted an area of approx. 4m2. Spill pads were utilised and the contaminated material will be cleaned up and properly disposed of as access and frozen conditions allow. The location of the spill was confined to the MSC camp pad, and is greater than 100 meters from the closest water body. The investigation is ongoing and further details of the incident will be provided in the follow-up report. This spill is being reported as required by the conditions of water license no. 2AM-MRY1325, Part H, item 9 (b) pursuant to subsection 12(3) of the Nunavut Waters and Nunavut Surface Rights Tribunal Act.</b>				
<b>L</b>	REPORTED TO SPILL LINE BY <b>William Bowden</b>	POSITION <b>Env. Superintendent</b>	EMPLOYER <b>Baffinland</b>	LOCATION CALLING FROM <b>647-253-0596</b>	TELEPHONE <b>ext. 6016</b>
<b>M</b>	ANY ALTERNATE CONTACT <b>Wayne McPhee</b>	POSITION <b>Dir. Sust Development</b>	EMPLOYER <b>Baffinland</b>	ALTERNATE CONTACT LOCATION <b>Off Site</b>	ALTERNATE TELEPHONE <b>5088</b>
REPORT LINE USE ONLY					
<b>N</b>	RECEIVED AT SPILL LINE BY	POSITION STATION OPERATOR	EMPLOYER	LOCATION CALLED YELLOWKNIFE, NT	REPORT LINE NUMBER (867) 920-8130
LEAD AGENCY <input type="checkbox"/> EC <input type="checkbox"/> CCG <input type="checkbox"/> GNWT <input type="checkbox"/> GN <input type="checkbox"/> ILA <input type="checkbox"/> INAC <input type="checkbox"/> NEB <input type="checkbox"/> TC			SIGNIFICANCE <input type="checkbox"/> MINOR <input type="checkbox"/> MAJOR <input type="checkbox"/> UNKNOWN		FILE STATUS <input type="checkbox"/> OPEN <input type="checkbox"/> CLOSED
AGENCY		CONTACT NAME	CONTACT TIME	REMARKS	
LEAD AGENCY					
FIRST SUPPORT AGENCY					
SECOND SUPPORT AGENCY					
THIRD SUPPORT AGENCY					



August 5, 2017

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Qikiqtani Inuit Association  
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**Re: Follow-up to Spill #17-230- Reported on June 1<sup>st</sup>, 2017**  
**Mary River Project - Water Licence No. 2AM-MRY1325**

**Summary:**

On July 1st, the Mine Site Waste Rock Sedimentation Pond (MS-08) was in critical danger of overflowing (<0.5m freeboard). Limited pre-discharge sample results have been received from the lab, based on these preliminary results, it was determined that a controlled discharge out of the normal course of events would be required. The volume discharged and complete sample results will be provided in the follow-up report. The spill site is on IOL located > 3 km from the Mary River, the nearest fish bearing water.

**Immediate and Follow-Up Action:**

Results from sampling on June 27, 2017 were in progress at the time of the controlled discharge. These results were received July 17, 2017 and all parameters were within criteria. Continued water quality monitoring during discharge are included in this report.

**Recommendations:**

Daily inspection of all containment facility volumes.

Should you require further information or clarification on the above noted spill, please feel free to William Bowden or Laura Taylor at (647) 253-0596 x6016 or Allan Knight at (647) 253-0596 x6010.

Prepared By:

A handwritten signature in cursive script, appearing to read "Allan Knight".

Allan Knight  
Environmental Superintendent

Attach: Analytical Results, Map, NT-NU Spill Report

cc. Todd Burlingame, Wayne McPhee, Sylvain Proulx, Eric Steinmetzer, Gerald Rogers, Gordon Mudryk, Jeff Bush, William Bowden, Laura Taylor (Baffinland), Stephen Bathroy (QIA), Erik Allain, Jonathan Mesher, Justin Hack, Sarah Forte (INAC)



Table 1. Water Chemistry Results - MS-08							
Sample Number	Sample ID	Date Sampled	Results Received	Parameter Name	Result	Units	Lab
L1950717-1	MS-08	27-Jun-17	17-Jul-17	Conductivity	52.3	umhos/cm	ALS
L1950717-1	MS-08	27-Jun-17	17-Jul-17	Hardness (as CaCO3)	22	mg/L	ALS
L1950717-1	MS-08	27-Jun-17	17-Jul-17	pH	7.12	pH units	ALS
L1950717-1	MS-08	27-Jun-17	17-Jul-17	Total Suspended Solids	<2.0	mg/L	ALS
L1950717-1	MS-08	27-Jun-17	17-Jul-17	Total Dissolved Solids	25 *	mg/L	ALS
L1950717-1	MS-08	27-Jun-17	17-Jul-17	Turbidity	-	NTU	ALS
L1950717-1	MS-08	27-Jun-17	17-Jul-17	Acidity (as CaCO3)	3.3	mg/L	ALS
L1950717-1	MS-08	27-Jun-17	17-Jul-17	Alkalinity, Total (as CaCO3)	<10	mg/L	ALS
L1950717-1	MS-08	27-Jun-17	17-Jul-17	Ammonia, Total (as N)	0.049	mg/L	ALS
L1950717-1	MS-08	27-Jun-17	17-Jul-17	Chloride (Cl)	<0.50	mg/L	ALS
L1950717-1	MS-08	27-Jun-17	17-Jul-17	Fluoride (F)	<0.020	mg/L	ALS
L1950717-1	MS-08	27-Jun-17	17-Jul-17	Nitrate (as N)	0.081	mg/L	ALS
L1950717-1	MS-08	27-Jun-17	17-Jul-17	Total Kjeldahl Nitrogen	0.17	mg/L	ALS
L1950717-1	MS-08	27-Jun-17	17-Jul-17	Phosphorus, Total	0.0045	mg/L	ALS
L1950717-1	MS-08	27-Jun-17	17-Jul-17	Sulfate (SO4)	15	mg/L	ALS
L1950717-1	MS-08	27-Jun-17	17-Jul-17	Cyanide, Total	<0.0020	mg/L	ALS
L1950717-1	MS-08	27-Jun-17	17-Jul-17	Dissolved Organic Carbon	<1.0	mg/L	ALS
L1950717-1	MS-08	27-Jun-17	17-Jul-17	Total Organic Carbon	<1.0	mg/L	ALS
L1950717-1	MS-08	27-Jun-17	17-Jul-17	Aluminum (Al)-Total	0.109	mg/L	ALS
L1950717-1	MS-08	27-Jun-17	17-Jul-17	Antimony (Sb)-Total	<0.00010	mg/L	ALS
L1950717-1	MS-08	27-Jun-17	17-Jul-17	Arsenic (As)-Total	<0.00010	mg/L	ALS
L1950717-1	MS-08	27-Jun-17	17-Jul-17	Barium (Ba)-Total	0.00192	mg/L	ALS
L1950717-1	MS-08	27-Jun-17	17-Jul-17	Beryllium (Be)-Total	<0.00010	mg/L	ALS
L1950717-1	MS-08	27-Jun-17	17-Jul-17	Bismuth (Bi)-Total	<0.000050	mg/L	ALS
L1950717-1	MS-08	27-Jun-17	17-Jul-17	Boron (B)-Total	<0.010	mg/L	ALS
L1950717-1	MS-08	27-Jun-17	17-Jul-17	Cadmium (Cd)-Total	<0.000010	mg/L	ALS
L1950717-1	MS-08	27-Jun-17	17-Jul-17	Calcium (Ca)-Total	2.13	mg/L	ALS
L1950717-1	MS-08	27-Jun-17	17-Jul-17	Cesium (Cs)-Total	0.000012	mg/L	ALS
L1950717-1	MS-08	27-Jun-17	17-Jul-17	Chromium (Cr)-Total	<0.00050	mg/L	ALS
L1950717-1	MS-08	27-Jun-17	17-Jul-17	Cobalt (Co)-Total	0.00126	mg/L	ALS
L1950717-1	MS-08	27-Jun-17	17-Jul-17	Copper (Cu)-Total	<0.0010	mg/L	ALS
L1950717-1	MS-08	27-Jun-17	17-Jul-17	Iron (Fe)-Total	0.191	mg/L	ALS
L1950717-1	MS-08	27-Jun-17	17-Jul-17	Lead (Pb)-Total	0.000096	mg/L	ALS
L1950717-1	MS-08	27-Jun-17	17-Jul-17	Lithium (Li)-Total	0.001	mg/L	ALS
L1950717-1	MS-08	27-Jun-17	17-Jul-17	Magnesium (Mg)-Total	3.7	mg/L	ALS
L1950717-1	MS-08	27-Jun-17	17-Jul-17	Manganese (Mn)-Total	0.0883	mg/L	ALS
L1950717-1	MS-08	27-Jun-17	17-Jul-17	Mercury (Hg)-Total	<0.000010	mg/L	ALS
L1950717-1	MS-08	27-Jun-17	17-Jul-17	Molybdenum (Mo)-Total	0.000056	mg/L	ALS
L1950717-1	MS-08	27-Jun-17	17-Jul-17	Nickel (Ni)-Total	0.00145	mg/L	ALS
L1950717-1	MS-08	27-Jun-17	17-Jul-17	Phosphorus (P)-Total	<0.050	mg/L	ALS
L1950717-1	MS-08	27-Jun-17	17-Jul-17	Potassium (K)-Total	0.24	mg/L	ALS
L1950717-1	MS-08	27-Jun-17	17-Jul-17	Rubidium (Rb)-Total	0.00053	mg/L	ALS
L1950717-1	MS-08	27-Jun-17	17-Jul-17	Selenium (Se)-Total	0.000095	mg/L	ALS
L1950717-1	MS-08	27-Jun-17	17-Jul-17	Silicon (Si)-Total	0.28	mg/L	ALS
L1950717-1	MS-08	27-Jun-17	17-Jul-17	Silver (Ag)-Total	<0.000050	mg/L	ALS
L1950717-1	MS-08	27-Jun-17	17-Jul-17	Sodium (Na)-Total	<0.50	mg/L	ALS
L1950717-1	MS-08	27-Jun-17	17-Jul-17	Strontium (Sr)-Total	0.0016	mg/L	ALS
L1950717-1	MS-08	27-Jun-17	17-Jul-17	Sulfur (S)-Total	5.4	mg/L	ALS
L1950717-1	MS-08	27-Jun-17	17-Jul-17	Tellurium (Te)-Total	<0.00020	mg/L	ALS
L1950717-1	MS-08	27-Jun-17	17-Jul-17	Thallium (Tl)-Total	<0.000010	mg/L	ALS
L1950717-1	MS-08	27-Jun-17	17-Jul-17	Thorium (Th)-Total	<0.00010	mg/L	ALS
L1950717-1	MS-08	27-Jun-17	17-Jul-17	Tin (Sn)-Total	<0.00010	mg/L	ALS
L1950717-1	MS-08	27-Jun-17	17-Jul-17	Titanium (Ti)-Total	0.00372	mg/L	ALS
L1950717-1	MS-08	27-Jun-17	17-Jul-17	Tungsten (W)-Total	<0.00010	mg/L	ALS
L1950717-1	MS-08	27-Jun-17	17-Jul-17	Uranium (U)-Total	0.00008	mg/L	ALS
L1950717-1	MS-08	27-Jun-17	17-Jul-17	Vanadium (V)-Total	<0.00050	mg/L	ALS
L1950717-1	MS-08	27-Jun-17	17-Jul-17	Zinc (Zn)-Total	<0.0030	mg/L	ALS
L1950717-1	MS-08	27-Jun-17	17-Jul-17	Zirconium (Zr)-Total	<0.00030	mg/L	ALS
L1950717-1	MS-08	27-Jun-17	17-Jul-17	Dissolved Mercury Filtration Location	FIELD		ALS
L1950717-1	MS-08	27-Jun-17	17-Jul-17	Dissolved Metals Filtration Location	FIELD		ALS
L1950717-1	MS-08	27-Jun-17	17-Jul-17	Aluminum (Al)-Dissolved	0.0087	mg/L	ALS
L1950717-1	MS-08	27-Jun-17	17-Jul-17	Antimony (Sb)-Dissolved	<0.00010	mg/L	ALS
L1950717-1	MS-08	27-Jun-17	17-Jul-17	Arsenic (As)-Dissolved	<0.00010	mg/L	ALS
L1950717-1	MS-08	27-Jun-17	17-Jul-17	Barium (Ba)-Dissolved	0.0018	mg/L	ALS
L1950717-1	MS-08	27-Jun-17	17-Jul-17	Beryllium (Be)-Dissolved	<0.00010	mg/L	ALS
L1950717-1	MS-08	27-Jun-17	17-Jul-17	Bismuth (Bi)-Dissolved	<0.000050	mg/L	ALS
L1950717-1	MS-08	27-Jun-17	17-Jul-17	Boron (B)-Dissolved	<0.010	mg/L	ALS
L1950717-1	MS-08	27-Jun-17	17-Jul-17	Cadmium (Cd)-Dissolved	<0.000010	mg/L	ALS
L1950717-1	MS-08	27-Jun-17	17-Jul-17	Calcium (Ca)-Dissolved	2.34	mg/L	ALS
L1950717-1	MS-08	27-Jun-17	17-Jul-17	Cesium (Cs)-Dissolved	<0.000010	mg/L	ALS
L1950717-1	MS-08	27-Jun-17	17-Jul-17	Chromium (Cr)-Dissolved	<0.00050	mg/L	ALS
L1950717-1	MS-08	27-Jun-17	17-Jul-17	Cobalt (Co)-Dissolved	0.00122	mg/L	ALS
L1950717-1	MS-08	27-Jun-17	17-Jul-17	Copper (Cu)-Dissolved	0.00035	mg/L	ALS

Sample Number	Sample ID	Date Sampled	Results Received	Parameter Name	Result	Units	Lab
L1950717-1	MS-08	27-Jun-17	17-Jul-17	Iron (Fe)-Dissolved	0.018	mg/L	ALS
L1950717-1	MS-08	27-Jun-17	17-Jul-17	Lead (Pb)-Dissolved	<0.000050	mg/L	ALS
L1950717-1	MS-08	27-Jun-17	17-Jul-17	Lithium (Li)-Dissolved	0.0013	mg/L	ALS
L1950717-1	MS-08	27-Jun-17	17-Jul-17	Magnesium (Mg)-Dissolved	3.87	mg/L	ALS
L1950717-1	MS-08	27-Jun-17	17-Jul-17	Manganese (Mn)-Dissolved	0.092	mg/L	ALS
L1950717-1	MS-08	27-Jun-17	17-Jul-17	Mercury (Hg)-Dissolved	<0.000010	mg/L	ALS
L1950717-1	MS-08	27-Jun-17	17-Jul-17	Molybdenum (Mo)-Dissolved	<0.000050	mg/L	ALS
L1950717-1	MS-08	27-Jun-17	17-Jul-17	Nickel (Ni)-Dissolved	0.00131	mg/L	ALS
L1950717-1	MS-08	27-Jun-17	17-Jul-17	Phosphorus (P)-Dissolved	<0.050	mg/L	ALS
L1950717-1	MS-08	27-Jun-17	17-Jul-17	Potassium (K)-Dissolved	0.277	mg/L	ALS
L1950717-1	MS-08	27-Jun-17	17-Jul-17	Rubidium (Rb)-Dissolved	0.00034	mg/L	ALS
L1950717-1	MS-08	27-Jun-17	17-Jul-17	Selenium (Se)-Dissolved	0.000085	mg/L	ALS
L1950717-1	MS-08	27-Jun-17	17-Jul-17	Silicon (Si)-Dissolved	0.079	mg/L	ALS
L1950717-1	MS-08	27-Jun-17	17-Jul-17	Silver (Ag)-Dissolved	<0.000050	mg/L	ALS
L1950717-1	MS-08	27-Jun-17	17-Jul-17	Sodium (Na)-Dissolved	<0.50	mg/L	ALS
L1950717-1	MS-08	27-Jun-17	17-Jul-17	Strontium (Sr)-Dissolved	0.0019	mg/L	ALS
L1950717-1	MS-08	27-Jun-17	17-Jul-17	Sulfur (S)-Dissolved	4.21	mg/L	ALS
L1950717-1	MS-08	27-Jun-17	17-Jul-17	Tellurium (Te)-Dissolved	<0.00020	mg/L	ALS
L1950717-1	MS-08	27-Jun-17	17-Jul-17	Thallium (Tl)-Dissolved	<0.000010	mg/L	ALS
L1950717-1	MS-08	27-Jun-17	17-Jul-17	Thorium (Th)-Dissolved	<0.00010	mg/L	ALS
L1950717-1	MS-08	27-Jun-17	17-Jul-17	Tin (Sn)-Dissolved	<0.00010	mg/L	ALS
L1950717-1	MS-08	27-Jun-17	17-Jul-17	Titanium (Ti)-Dissolved	<0.00030	mg/L	ALS
L1950717-1	MS-08	27-Jun-17	17-Jul-17	Tungsten (W)-Dissolved	<0.00010	mg/L	ALS
L1950717-1	MS-08	27-Jun-17	17-Jul-17	Uranium (U)-Dissolved	0.000032	mg/L	ALS
L1950717-1	MS-08	27-Jun-17	17-Jul-17	Vanadium (V)-Dissolved	<0.00050	mg/L	ALS
L1950717-1	MS-08	27-Jun-17	17-Jul-17	Zinc (Zn)-Dissolved	0.0024	mg/L	ALS
L1950717-1	MS-08	27-Jun-17	17-Jul-17	Zirconium (Zr)-Dissolved	<0.00030	mg/L	ALS
L1950717-1	MS-08	27-Jun-17	17-Jul-17	Ra-226	<0.0068	Bq/L	ALS
233856	MS-08	27-Jun-17	17-Jul-17	Acute Toxicity	non-lethal	mortality	Aquatox
L1954208-1	MS-08	1-Jul-17	2-Aug-17	Conductivity	67.3	umhos/cm	ALS
L1954208-1	MS-08	1-Jul-17	2-Aug-17	Hardness (as CaCO3)	26	mg/L	ALS
L1954208-1	MS-08	1-Jul-17	2-Aug-17	pH	7.19 *	pH units	ALS
L1954208-1	MS-08	1-Jul-17	2-Aug-17	Total Suspended Solids	3.4	mg/L	ALS
L1954208-1	MS-08	1-Jul-17	2-Aug-17	Total Dissolved Solids	36 *	mg/L	ALS
L1954208-1	MS-08	1-Jul-17	2-Aug-17	Turbidity	-	NTU	ALS
L1954208-1	MS-08	1-Jul-17	2-Aug-17	Acidity (as CaCO3)	2.4	mg/L	ALS
L1954208-1	MS-08	1-Jul-17	2-Aug-17	Alkalinity, Total (as CaCO3)	<10	mg/L	ALS
L1954208-1	MS-08	1-Jul-17	2-Aug-17	Ammonia, Total (as N)	0.028	mg/L	ALS
L1954208-1	MS-08	1-Jul-17	2-Aug-17	Chloride (Cl)	0.52	mg/L	ALS
L1954208-1	MS-08	1-Jul-17	2-Aug-17	Fluoride (F)	<0.020	mg/L	ALS
L1954208-1	MS-08	1-Jul-17	2-Aug-17	Nitrate (as N)	0.15	mg/L	ALS
L1954208-1	MS-08	1-Jul-17	2-Aug-17	Total Kjeldahl Nitrogen	<0.15	mg/L	ALS
L1954208-1	MS-08	1-Jul-17	2-Aug-17	Phosphorus, Total	0.0061	mg/L	ALS
L1954208-1	MS-08	1-Jul-17	2-Aug-17	Sulfate (SO4)	20.9	mg/L	ALS
L1954208-1	MS-08	1-Jul-17	2-Aug-17	Cyanide, Total	<0.0020	mg/L	ALS
L1954208-1	MS-08	1-Jul-17	2-Aug-17	Dissolved Organic Carbon	<0.50	mg/L	ALS
L1954208-1	MS-08	1-Jul-17	2-Aug-17	Total Organic Carbon	0.73	mg/L	ALS
L1954208-1	MS-08	1-Jul-17	2-Aug-17	Aluminum (Al)-Total	0.106	mg/L	ALS
L1954208-1	MS-08	1-Jul-17	2-Aug-17	Antimony (Sb)-Total	<0.00010	mg/L	ALS
L1954208-1	MS-08	1-Jul-17	2-Aug-17	Arsenic (As)-Total	<0.00010	mg/L	ALS
L1954208-1	MS-08	1-Jul-17	2-Aug-17	Barium (Ba)-Total	0.00276	mg/L	ALS
L1954208-1	MS-08	1-Jul-17	2-Aug-17	Beryllium (Be)-Total	<0.00010	mg/L	ALS
L1954208-1	MS-08	1-Jul-17	2-Aug-17	Bismuth (Bi)-Total	<0.000050	mg/L	ALS
L1954208-1	MS-08	1-Jul-17	2-Aug-17	Boron (B)-Total	<0.010	mg/L	ALS
L1954208-1	MS-08	1-Jul-17	2-Aug-17	Cadmium (Cd)-Total	<0.000010	mg/L	ALS
L1954208-1	MS-08	1-Jul-17	2-Aug-17	Calcium (Ca)-Total	2.88	mg/L	ALS
L1954208-1	MS-08	1-Jul-17	2-Aug-17	Cesium (Cs)-Total	0.000015	mg/L	ALS
L1954208-1	MS-08	1-Jul-17	2-Aug-17	Chromium (Cr)-Total	<0.00050	mg/L	ALS
L1954208-1	MS-08	1-Jul-17	2-Aug-17	Cobalt (Co)-Total	0.0013	mg/L	ALS
L1954208-1	MS-08	1-Jul-17	2-Aug-17	Copper (Cu)-Total	0.009	mg/L	ALS
L1954208-1	MS-08	1-Jul-17	2-Aug-17	Iron (Fe)-Total	0.2	mg/L	ALS
L1954208-1	MS-08	1-Jul-17	2-Aug-17	Lead (Pb)-Total	0.000323	mg/L	ALS
L1954208-1	MS-08	1-Jul-17	2-Aug-17	Lithium (Li)-Total	0.0011	mg/L	ALS
L1954208-1	MS-08	1-Jul-17	2-Aug-17	Magnesium (Mg)-Total	4.68	mg/L	ALS
L1954208-1	MS-08	1-Jul-17	2-Aug-17	Manganese (Mn)-Total	0.119	mg/L	ALS
L1954208-1	MS-08	1-Jul-17	2-Aug-17	Mercury (Hg)-Total	<0.000010	mg/L	ALS
L1954208-1	MS-08	1-Jul-17	2-Aug-17	Molybdenum (Mo)-Total	0.000067	mg/L	ALS
L1954208-1	MS-08	1-Jul-17	2-Aug-17	Nickel (Ni)-Total	0.00175	mg/L	ALS
L1954208-1	MS-08	1-Jul-17	2-Aug-17	Phosphorus (P)-Total	<0.050	mg/L	ALS
L1954208-1	MS-08	1-Jul-17	2-Aug-17	Potassium (K)-Total	0.341	mg/L	ALS
L1954208-1	MS-08	1-Jul-17	2-Aug-17	Rubidium (Rb)-Total	0.00069	mg/L	ALS
L1954208-1	MS-08	1-Jul-17	2-Aug-17	Selenium (Se)-Total	0.000087	mg/L	ALS
L1954208-1	MS-08	1-Jul-17	2-Aug-17	Silicon (Si)-Total	0.24	mg/L	ALS
L1954208-1	MS-08	1-Jul-17	2-Aug-17	Silver (Ag)-Total	<0.000050	mg/L	ALS

Sample Number	Sample ID	Date Sampled	Results Received	Parameter Name	Result	Units	Lab
L1954208-1	MS-08	1-Jul-17	2-Aug-17	Sodium (Na)-Total	<0.50	mg/L	ALS
L1954208-1	MS-08	1-Jul-17	2-Aug-17	Strontium (Sr)-Total	0.0021	mg/L	ALS
L1954208-1	MS-08	1-Jul-17	2-Aug-17	Sulfur (S)-Total	6.79	mg/L	ALS
L1954208-1	MS-08	1-Jul-17	2-Aug-17	Tellurium (Te)-Total	<0.00020	mg/L	ALS
L1954208-1	MS-08	1-Jul-17	2-Aug-17	Thallium (Tl)-Total	<0.000010	mg/L	ALS
L1954208-1	MS-08	1-Jul-17	2-Aug-17	Thorium (Th)-Total	<0.00010	mg/L	ALS
L1954208-1	MS-08	1-Jul-17	2-Aug-17	Tin (Sn)-Total	0.00048	mg/L	ALS
L1954208-1	MS-08	1-Jul-17	2-Aug-17	Titanium (Ti)-Total	0.0047	mg/L	ALS
L1954208-1	MS-08	1-Jul-17	2-Aug-17	Tungsten (W)-Total	<0.00010	mg/L	ALS
L1954208-1	MS-08	1-Jul-17	2-Aug-17	Uranium (U)-Total	0.000119	mg/L	ALS
L1954208-1	MS-08	1-Jul-17	2-Aug-17	Vanadium (V)-Total	<0.00050	mg/L	ALS
L1954208-1	MS-08	1-Jul-17	2-Aug-17	Zinc (Zn)-Total	<0.0030	mg/L	ALS
L1954208-1	MS-08	1-Jul-17	2-Aug-17	Zirconium (Zr)-Total	<0.00030	mg/L	ALS
L1954208-1	MS-08	1-Jul-17	2-Aug-17	Dissolved Mercury Filtration Location	FIELD		ALS
L1954208-1	MS-08	1-Jul-17	2-Aug-17	Dissolved Metals Filtration Location	FIELD		ALS
L1954208-1	MS-08	1-Jul-17	2-Aug-17	Aluminum (Al)-Dissolved	0.0067	mg/L	ALS
L1954208-1	MS-08	1-Jul-17	2-Aug-17	Antimony (Sb)-Dissolved	<0.00010	mg/L	ALS
L1954208-1	MS-08	1-Jul-17	2-Aug-17	Arsenic (As)-Dissolved	<0.00010	mg/L	ALS
L1954208-1	MS-08	1-Jul-17	2-Aug-17	Barium (Ba)-Dissolved	0.0021	mg/L	ALS
L1954208-1	MS-08	1-Jul-17	2-Aug-17	Beryllium (Be)-Dissolved	<0.00010	mg/L	ALS
L1954208-1	MS-08	1-Jul-17	2-Aug-17	Bismuth (Bi)-Dissolved	<0.000050	mg/L	ALS
L1954208-1	MS-08	1-Jul-17	2-Aug-17	Boron (B)-Dissolved	<0.010	mg/L	ALS
L1954208-1	MS-08	1-Jul-17	2-Aug-17	Cadmium (Cd)-Dissolved	<0.000010	mg/L	ALS
L1954208-1	MS-08	1-Jul-17	2-Aug-17	Calcium (Ca)-Dissolved	2.95	mg/L	ALS
L1954208-1	MS-08	1-Jul-17	2-Aug-17	Cesium (Cs)-Dissolved	<0.000010	mg/L	ALS
L1954208-1	MS-08	1-Jul-17	2-Aug-17	Chromium (Cr)-Dissolved	<0.00050	mg/L	ALS
L1954208-1	MS-08	1-Jul-17	2-Aug-17	Cobalt (Co)-Dissolved	0.00121	mg/L	ALS
L1954208-1	MS-08	1-Jul-17	2-Aug-17	Copper (Cu)-Dissolved	0.00026	mg/L	ALS
L1954208-1	MS-08	1-Jul-17	2-Aug-17	Iron (Fe)-Dissolved	0.012	mg/L	ALS
L1954208-1	MS-08	1-Jul-17	2-Aug-17	Lead (Pb)-Dissolved	<0.000050	mg/L	ALS
L1954208-1	MS-08	1-Jul-17	2-Aug-17	Lithium (Li)-Dissolved	0.0011	mg/L	ALS
L1954208-1	MS-08	1-Jul-17	2-Aug-17	Magnesium (Mg)-Dissolved	4.55	mg/L	ALS
L1954208-1	MS-08	1-Jul-17	2-Aug-17	Manganese (Mn)-Dissolved	0.117	mg/L	ALS
L1954208-1	MS-08	1-Jul-17	2-Aug-17	Mercury (Hg)-Dissolved	<0.000010	mg/L	ALS
L1954208-1	MS-08	1-Jul-17	2-Aug-17	Molybdenum (Mo)-Dissolved	0.000066	mg/L	ALS
L1954208-1	MS-08	1-Jul-17	2-Aug-17	Nickel (Ni)-Dissolved	0.00146	mg/L	ALS
L1954208-1	MS-08	1-Jul-17	2-Aug-17	Phosphorus (P)-Dissolved	<0.050	mg/L	ALS
L1954208-1	MS-08	1-Jul-17	2-Aug-17	Potassium (K)-Dissolved	0.299	mg/L	ALS
L1954208-1	MS-08	1-Jul-17	2-Aug-17	Rubidium (Rb)-Dissolved	0.00035	mg/L	ALS
L1954208-1	MS-08	1-Jul-17	2-Aug-17	Selenium (Se)-Dissolved	0.000091	mg/L	ALS
L1954208-1	MS-08	1-Jul-17	2-Aug-17	Silicon (Si)-Dissolved	0.088	mg/L	ALS
L1954208-1	MS-08	1-Jul-17	2-Aug-17	Silver (Ag)-Dissolved	<0.000050	mg/L	ALS
L1954208-1	MS-08	1-Jul-17	2-Aug-17	Sodium (Na)-Dissolved	<0.50	mg/L	ALS
L1954208-1	MS-08	1-Jul-17	2-Aug-17	Strontium (Sr)-Dissolved	0.0022	mg/L	ALS
L1954208-1	MS-08	1-Jul-17	2-Aug-17	Sulfur (S)-Dissolved	6.88	mg/L	ALS
L1954208-1	MS-08	1-Jul-17	2-Aug-17	Tellurium (Te)-Dissolved	<0.00020	mg/L	ALS
L1954208-1	MS-08	1-Jul-17	2-Aug-17	Thallium (Tl)-Dissolved	<0.000010	mg/L	ALS
L1954208-1	MS-08	1-Jul-17	2-Aug-17	Thorium (Th)-Dissolved	<0.00010	mg/L	ALS
L1954208-1	MS-08	1-Jul-17	2-Aug-17	Tin (Sn)-Dissolved	<0.00010	mg/L	ALS
L1954208-1	MS-08	1-Jul-17	2-Aug-17	Titanium (Ti)-Dissolved	<0.00030	mg/L	ALS
L1954208-1	MS-08	1-Jul-17	2-Aug-17	Tungsten (W)-Dissolved	<0.00010	mg/L	ALS
L1954208-1	MS-08	1-Jul-17	2-Aug-17	Uranium (U)-Dissolved	0.000053	mg/L	ALS
L1954208-1	MS-08	1-Jul-17	2-Aug-17	Vanadium (V)-Dissolved	<0.00050	mg/L	ALS
L1954208-1	MS-08	1-Jul-17	2-Aug-17	Zinc (Zn)-Dissolved	0.0013	mg/L	ALS
L1954208-1	MS-08	1-Jul-17	2-Aug-17	Zirconium (Zr)-Dissolved	<0.00030	mg/L	ALS
L1954208-1	MS-08	1-Jul-17	2-Aug-17	Ra-226	<0.0051	Bq/L	ALS
L1954143-1	MS-08	2-Jul-17	13-Jul-17	pH	7	pH units	ALS
L1954143-1	MS-08	2-Jul-17	13-Jul-17	Total Suspended Solids	18.8	mg/L	ALS
L1954143-1	MS-08	2-Jul-17	13-Jul-17	Total Dissolved Solids	105 *	mg/L	ALS
L1954143-1	MS-08	2-Jul-17	13-Jul-17	Turbidity	30.3 *	NTU	ALS
L1952134-1	MS-08	3-Jul-17	5-Jul-17	pH	7	pH units	ALS
L1952134-1	MS-08	3-Jul-17	5-Jul-17	Total Suspended Solids	19.2	mg/L	ALS
L1952134-1	MS-08	3-Jul-17	5-Jul-17	Total Dissolved Solids	105	mg/L	ALS
L1952134-1	MS-08	3-Jul-17	5-Jul-17	Turbidity	25.9	NTU	ALS
L1954085-1	MS-08	4-Jul-17	31-Jul-17	Conductivity	192	umhos/cm	ALS
L1954085-1	MS-08	4-Jul-17	31-Jul-17	Hardness (as CaCO3)	81	mg/L	ALS
L1954085-1	MS-08	4-Jul-17	31-Jul-17	pH	7.08	pH units	ALS
L1954085-1	MS-08	4-Jul-17	31-Jul-17	Total Suspended Solids	13.6	mg/L	ALS
L1954085-1	MS-08	4-Jul-17	31-Jul-17	Total Dissolved Solids	127 *	mg/L	ALS
L1954085-1	MS-08	4-Jul-17	31-Jul-17	Turbidity	-	NTU	ALS
L1954085-1	MS-08	4-Jul-17	31-Jul-17	Acidity (as CaCO3)	2.8	mg/L	ALS
L1954085-1	MS-08	4-Jul-17	31-Jul-17	Alkalinity, Total (as CaCO3)	<10	mg/L	ALS
L1954085-1	MS-08	4-Jul-17	31-Jul-17	Ammonia, Total (as N)	0.114	mg/L	ALS
L1954085-1	MS-08	4-Jul-17	31-Jul-17	Chloride (Cl)	0.89	mg/L	ALS

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Sample Number	Sample ID	Date Sampled	Results Received	Parameter Name	Result	Units	Lab
L1954085-1	MS-08	4-Jul-17	31-Jul-17	Fluoride (F)	<0.020	mg/L	ALS
L1954085-1	MS-08	4-Jul-17	31-Jul-17	Nitrate (as N)	0.658	mg/L	ALS
L1954085-1	MS-08	4-Jul-17	31-Jul-17	Total Kjeldahl Nitrogen	0.26	mg/L	ALS
L1954085-1	MS-08	4-Jul-17	31-Jul-17	Phosphorus, Total	0.0158	mg/L	ALS
L1954085-1	MS-08	4-Jul-17	31-Jul-17	Sulfate (SO4)	70.6	mg/L	ALS
L1954085-1	MS-08	4-Jul-17	31-Jul-17	Cyanide, Total	<0.0020	mg/L	ALS
L1954085-1	MS-08	4-Jul-17	31-Jul-17	Dissolved Organic Carbon	<0.50	mg/L	ALS
L1954085-1	MS-08	4-Jul-17	31-Jul-17	Total Organic Carbon	0.97	mg/L	ALS
L1954085-1	MS-08	4-Jul-17	31-Jul-17	Aluminum (Al)-Total	0.342	mg/L	ALS
L1954085-1	MS-08	4-Jul-17	31-Jul-17	Antimony (Sb)-Total	<0.00010	mg/L	ALS
L1954085-1	MS-08	4-Jul-17	31-Jul-17	Arsenic (As)-Total	0.0001	mg/L	ALS
L1954085-1	MS-08	4-Jul-17	31-Jul-17	Barium (Ba)-Total	0.00692	mg/L	ALS
L1954085-1	MS-08	4-Jul-17	31-Jul-17	Beryllium (Be)-Total	<0.00010	mg/L	ALS
L1954085-1	MS-08	4-Jul-17	31-Jul-17	Bismuth (Bi)-Total	<0.000050	mg/L	ALS
L1954085-1	MS-08	4-Jul-17	31-Jul-17	Boron (B)-Total	<0.010	mg/L	ALS
L1954085-1	MS-08	4-Jul-17	31-Jul-17	Cadmium (Cd)-Total	0.000017	mg/L	ALS
L1954085-1	MS-08	4-Jul-17	31-Jul-17	Calcium (Ca)-Total	6.93	mg/L	ALS
L1954085-1	MS-08	4-Jul-17	31-Jul-17	Cesium (Cs)-Total	0.000048	mg/L	ALS
L1954085-1	MS-08	4-Jul-17	31-Jul-17	Chromium (Cr)-Total	0.00105	mg/L	ALS
L1954085-1	MS-08	4-Jul-17	31-Jul-17	Cobalt (Co)-Total	0.00637	mg/L	ALS
L1954085-1	MS-08	4-Jul-17	31-Jul-17	Copper (Cu)-Total	0.003	mg/L	ALS
L1954085-1	MS-08	4-Jul-17	31-Jul-17	Iron (Fe)-Total	0.857	mg/L	ALS
L1954085-1	MS-08	4-Jul-17	31-Jul-17	Lead (Pb)-Total	0.000688	mg/L	ALS
L1954085-1	MS-08	4-Jul-17	31-Jul-17	Lithium (Li)-Total	0.0018	mg/L	ALS
L1954085-1	MS-08	4-Jul-17	31-Jul-17	Magnesium (Mg)-Total	16.8	mg/L	ALS
L1954085-1	MS-08	4-Jul-17	31-Jul-17	Manganese (Mn)-Total	0.552	mg/L	ALS
L1954085-1	MS-08	4-Jul-17	31-Jul-17	Mercury (Hg)-Total	<0.000010	mg/L	ALS
L1954085-1	MS-08	4-Jul-17	31-Jul-17	Molybdenum (Mo)-Total	0.000083	mg/L	ALS
L1954085-1	MS-08	4-Jul-17	31-Jul-17	Nickel (Ni)-Total	0.00695	mg/L	ALS
L1954085-1	MS-08	4-Jul-17	31-Jul-17	Phosphorus (P)-Total	<0.050	mg/L	ALS
L1954085-1	MS-08	4-Jul-17	31-Jul-17	Potassium (K)-Total	0.697	mg/L	ALS
L1954085-1	MS-08	4-Jul-17	31-Jul-17	Rubidium (Rb)-Total	0.00192	mg/L	ALS
L1954085-1	MS-08	4-Jul-17	31-Jul-17	Selenium (Se)-Total	0.000323	mg/L	ALS
L1954085-1	MS-08	4-Jul-17	31-Jul-17	Silicon (Si)-Total	0.69	mg/L	ALS
L1954085-1	MS-08	4-Jul-17	31-Jul-17	Silver (Ag)-Total	<0.000050	mg/L	ALS
L1954085-1	MS-08	4-Jul-17	31-Jul-17	Sodium (Na)-Total	<0.50	mg/L	ALS
L1954085-1	MS-08	4-Jul-17	31-Jul-17	Strontium (Sr)-Total	0.0046	mg/L	ALS
L1954085-1	MS-08	4-Jul-17	31-Jul-17	Sulfur (S)-Total	26.6	mg/L	ALS
L1954085-1	MS-08	4-Jul-17	31-Jul-17	Tellurium (Te)-Total	<0.00020	mg/L	ALS
L1954085-1	MS-08	4-Jul-17	31-Jul-17	Thallium (Tl)-Total	0.000014	mg/L	ALS
L1954085-1	MS-08	4-Jul-17	31-Jul-17	Thorium (Th)-Total	0.00053	mg/L	ALS
L1954085-1	MS-08	4-Jul-17	31-Jul-17	Tin (Sn)-Total	<0.00010	mg/L	ALS
L1954085-1	MS-08	4-Jul-17	31-Jul-17	Titanium (Ti)-Total	0.019	mg/L	ALS
L1954085-1	MS-08	4-Jul-17	31-Jul-17	Tungsten (W)-Total	<0.00010	mg/L	ALS
L1954085-1	MS-08	4-Jul-17	31-Jul-17	Uranium (U)-Total	0.000165	mg/L	ALS
L1954085-1	MS-08	4-Jul-17	31-Jul-17	Vanadium (V)-Total	0.00083	mg/L	ALS
L1954085-1	MS-08	4-Jul-17	31-Jul-17	Zinc (Zn)-Total	0.0046	mg/L	ALS
L1954085-1	MS-08	4-Jul-17	31-Jul-17	Zirconium (Zr)-Total	0.00035	mg/L	ALS
L1954085-1	MS-08	4-Jul-17	31-Jul-17	Dissolved Mercury Filtration Location	FIELD		ALS
L1954085-1	MS-08	4-Jul-17	31-Jul-17	Dissolved Metals Filtration Location	FIELD		ALS
L1954085-1	MS-08	4-Jul-17	31-Jul-17	Aluminum (Al)-Dissolved	<0.0050	mg/L	ALS
L1954085-1	MS-08	4-Jul-17	31-Jul-17	Antimony (Sb)-Dissolved	<0.00010	mg/L	ALS
L1954085-1	MS-08	4-Jul-17	31-Jul-17	Arsenic (As)-Dissolved	<0.00010	mg/L	ALS
L1954085-1	MS-08	4-Jul-17	31-Jul-17	Barium (Ba)-Dissolved	0.00419	mg/L	ALS
L1954085-1	MS-08	4-Jul-17	31-Jul-17	Beryllium (Be)-Dissolved	<0.00010	mg/L	ALS
L1954085-1	MS-08	4-Jul-17	31-Jul-17	Bismuth (Bi)-Dissolved	<0.000050	mg/L	ALS
L1954085-1	MS-08	4-Jul-17	31-Jul-17	Boron (B)-Dissolved	<0.010	mg/L	ALS
L1954085-1	MS-08	4-Jul-17	31-Jul-17	Cadmium (Cd)-Dissolved	0.000018	mg/L	ALS
L1954085-1	MS-08	4-Jul-17	31-Jul-17	Calcium (Ca)-Dissolved	6.98	mg/L	ALS
L1954085-1	MS-08	4-Jul-17	31-Jul-17	Cesium (Cs)-Dissolved	<0.000010	mg/L	ALS
L1954085-1	MS-08	4-Jul-17	31-Jul-17	Chromium (Cr)-Dissolved	<0.000050	mg/L	ALS
L1954085-1	MS-08	4-Jul-17	31-Jul-17	Cobalt (Co)-Dissolved	0.00586	mg/L	ALS
L1954085-1	MS-08	4-Jul-17	31-Jul-17	Copper (Cu)-Dissolved	0.001	mg/L	ALS
L1954085-1	MS-08	4-Jul-17	31-Jul-17	Iron (Fe)-Dissolved	0.16	mg/L	ALS
L1954085-1	MS-08	4-Jul-17	31-Jul-17	Lead (Pb)-Dissolved	<0.000050	mg/L	ALS
L1954085-1	MS-08	4-Jul-17	31-Jul-17	Lithium (Li)-Dissolved	0.0021	mg/L	ALS
L1954085-1	MS-08	4-Jul-17	31-Jul-17	Magnesium (Mg)-Dissolved	15.5	mg/L	ALS
L1954085-1	MS-08	4-Jul-17	31-Jul-17	Manganese (Mn)-Dissolved	0.504	mg/L	ALS
L1954085-1	MS-08	4-Jul-17	31-Jul-17	Mercury (Hg)-Dissolved	<0.000010	mg/L	ALS
L1954085-1	MS-08	4-Jul-17	31-Jul-17	Molybdenum (Mo)-Dissolved	0.000082	mg/L	ALS
L1954085-1	MS-08	4-Jul-17	31-Jul-17	Nickel (Ni)-Dissolved	0.006	mg/L	ALS
L1954085-1	MS-08	4-Jul-17	31-Jul-17	Phosphorus (P)-Dissolved	<0.050	mg/L	ALS
L1954085-1	MS-08	4-Jul-17	31-Jul-17	Potassium (K)-Dissolved	0.519	mg/L	ALS
L1954085-1	MS-08	4-Jul-17	31-Jul-17	Rubidium (Rb)-Dissolved	0.00075	mg/L	ALS

Sample Number	Sample ID	Date Sampled	Results Received	Parameter Name	Result	Units	Lab
L1954085-1	MS-08	4-Jul-17	31-Jul-17	Selenium (Se)-Dissolved	0.000335	mg/L	ALS
L1954085-1	MS-08	4-Jul-17	31-Jul-17	Silicon (Si)-Dissolved	0.164	mg/L	ALS
L1954085-1	MS-08	4-Jul-17	31-Jul-17	Silver (Ag)-Dissolved	<0.000050	mg/L	ALS
L1954085-1	MS-08	4-Jul-17	31-Jul-17	Sodium (Na)-Dissolved	<0.50	mg/L	ALS
L1954085-1	MS-08	4-Jul-17	31-Jul-17	Strontium (Sr)-Dissolved	0.0047	mg/L	ALS
L1954085-1	MS-08	4-Jul-17	31-Jul-17	Sulfur (S)-Dissolved	25.8	mg/L	ALS
L1954085-1	MS-08	4-Jul-17	31-Jul-17	Tellurium (Te)-Dissolved	<0.00020	mg/L	ALS
L1954085-1	MS-08	4-Jul-17	31-Jul-17	Thallium (Tl)-Dissolved	<0.000010	mg/L	ALS
L1954085-1	MS-08	4-Jul-17	31-Jul-17	Thorium (Th)-Dissolved	<0.00010	mg/L	ALS
L1954085-1	MS-08	4-Jul-17	31-Jul-17	Tin (Sn)-Dissolved	<0.00010	mg/L	ALS
L1954085-1	MS-08	4-Jul-17	31-Jul-17	Titanium (Ti)-Dissolved	<0.00030	mg/L	ALS
L1954085-1	MS-08	4-Jul-17	31-Jul-17	Tungsten (W)-Dissolved	<0.00010	mg/L	ALS
L1954085-1	MS-08	4-Jul-17	31-Jul-17	Uranium (U)-Dissolved	0.000031	mg/L	ALS
L1954085-1	MS-08	4-Jul-17	31-Jul-17	Vanadium (V)-Dissolved	<0.00050	mg/L	ALS
L1954085-1	MS-08	4-Jul-17	31-Jul-17	Zinc (Zn)-Dissolved	0.0028	mg/L	ALS
L1954085-1	MS-08	4-Jul-17	31-Jul-17	Zirconium (Zr)-Dissolved	<0.00030	mg/L	ALS
L1954085-1	MS-08	4-Jul-17	31-Jul-17	Ra-226	0.012	Bq/L	ALS
L1954760-1	MS-08	7-Jul-17	9-Jul-17	pH	6.76	pH units	ALS
L1954760-1	MS-08	7-Jul-17	9-Jul-17	Total Suspended Solids	4.8	mg/L	ALS
L1954760-1	MS-08	7-Jul-17	9-Jul-17	Total Dissolved Solids	215	mg/L	ALS
L1954760-1	MS-08	7-Jul-17	9-Jul-17	Turbidity	5.85	NTU	ALS
L1957780-1	MS-08	8-Jul-17	17-Jul-17	pH	6.88	pH units	ALS
L1957780-1	MS-08	8-Jul-17	17-Jul-17	Total Suspended Solids	<2.0	mg/L	ALS
L1957780-1	MS-08	8-Jul-17	17-Jul-17	Total Dissolved Solids	271 *	mg/L	ALS
L1957780-1	MS-08	8-Jul-17	17-Jul-17	Turbidity	1.06 *	NTU	ALS
<b>Notes:</b>							
*Acute lethality to Rainbow trout, <i>Oncorhynchus mykiss</i> (as per Environment Canada's Environmental Protection Series Method EPS/1/RM/13)							
*Acute lethality to <i>Daphnia magna</i> (as per Environment Canada's Environmental Protection Series Method EPS/1/RM/14)							

**Figure 1: Map of Spill Location**

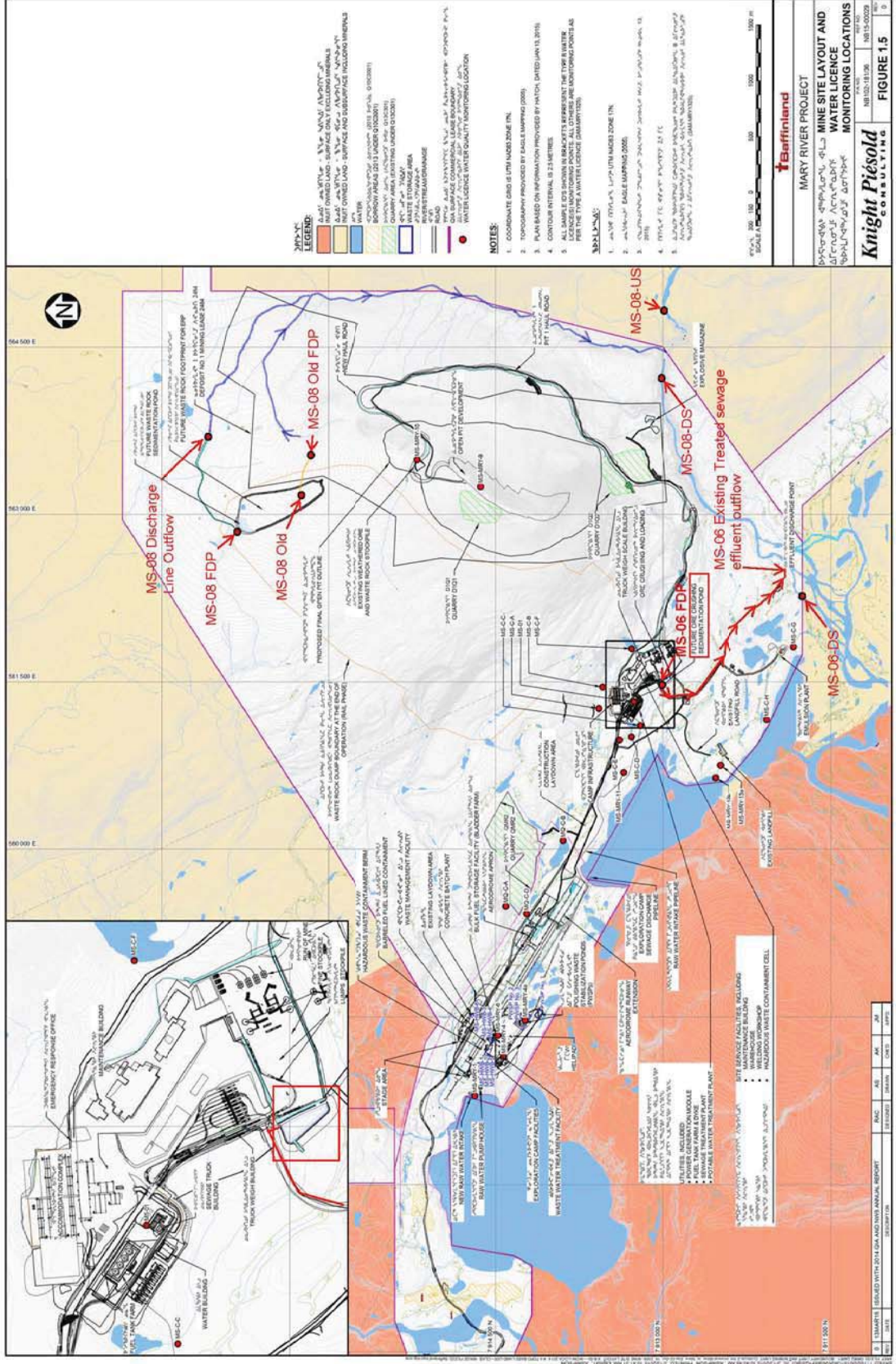






Figure 2: NT-NU Spill Report

				<b>NT-NU SPILL REPORT</b> OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS		<b>NT-NU 24-HOUR SPILL REPORT LINE</b> TEL: (867) 920-8130 FAX: (867) 873-6924 EMAIL: spills@gov.nt.ca	
REPORT LINE USE ONLY							
<b>A</b>	REPORT DATE: MONTH – DAY – YEAR <b>07-01-2017</b>		REPORT TIME <b>15:30 hrs</b>		<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT		REPORT NUMBER <b>17 - 230</b>
<b>B</b>	OCCURRENCE DATE: MONTH – DAY – YEAR <b>07-01-2017</b>		OCCURRENCE TIME <b>15:30 hrs</b>				
<b>C</b>	LAND USE PERMIT NUMBER (IF APPLICABLE) <b>IOL - Commercial Lease: Q13C301</b>			WATER LICENCE NUMBER (IF APPLICABLE) <b>2AM-MRY1325 Type "A"</b>			
<b>D</b>	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION <b>Mary River Mine Site, Baffin Island, NU</b>			REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN			
<b>E</b>	LATITUDE DEGREES <b>71</b> MINUTES <b>20</b> SECONDS <b>42</b>			LONGITUDE DEGREES <b>79</b> MINUTES <b>14</b> SECONDS <b>21</b>			
<b>F</b>	RESPONSIBLE PARTY OR VESSEL NAME <b>Baffinland Iron Mines Corp.</b>		RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION <b>2275 Middle Road East, Suite 300, Oakville, ON L6H 0C3</b>				
<b>G</b>	ANY CONTRACTOR INVOLVED <b>N/A</b>		CONTRACTOR ADDRESS OR OFFICE LOCATION <b>N/A</b>				
<b>H</b>	PRODUCT SPILLED <b>Melt water from storage facility</b>		QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES <b>unquantified at present time</b>		U.N. NUMBER <b>N/A</b>		
	SECOND PRODUCT SPILLED (IF APPLICABLE) <b>N/A</b>		QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES <b>N/A</b>		U.N. NUMBER <b>N/A</b>		
<b>I</b>	SPILL SOURCE <b>Waste Rock Sedimentation Pond</b>		SPILL CAUSE <b>Snow melt</b>		AREA OF CONTAMINATION IN SQUARE METRES <b>N/A</b>		
<b>J</b>	FACTORS AFFECTING SPILL OR RECOVERY <b>Poor access / Large volume</b>		DESCRIBE ANY ASSISTANCE REQUIRED <b>N/A</b>		HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT <b>N/A</b>		
<b>K</b>	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS:  <b>On July 1st, the Mine Site Waste Rock Sedimentation Pond (MS-08) was in critical danger of overflowing (&lt;0.5m freeboard). Limited pre-discharge sample results have been received from the lab, based on these preliminary results, it was determined that a controlled discharge out of the normal course of events would be required. The volume discharged and complete sample results will be provided in the follow-up report.</b>  <b>The spill site is on IOL located &gt; 3 km from the Mary River, the nearest fish bearing water. This spill is being reported:</b> 1) 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; 2) Under the Fisheries Act as required by section 31 of the Metal Mining Effluent Regulations, and; 3) As required by the Government of Nunavut's, Environmental Protection Act paragraph 5.1(a)						
<b>L</b>	REPORTED TO SPILL LINE BY <b>Allan Knight</b>	POSITION <b>Env. Superintendent</b>	EMPLOYER <b>Baffinland</b>	LOCATION CALLING FROM <b>647-253-0596</b>	TELEPHONE <b>ext. 6010</b>		
<b>M</b>	ANY ALTERNATE CONTACT <b>Wayne McPhee</b>	POSITION <b>Dir. Sust Development</b>	EMPLOYER <b>Baffinland</b>	ALTERNATE CONTACT LOCATION <b>Off Site</b>	ALTERNATE TELEPHONE <b>5088</b>		
REPORT LINE USE ONLY							
<b>N</b>	RECEIVED AT SPILL LINE BY	POSITION STATION OPERATOR	EMPLOYER	LOCATION CALLED YELLOWKNIFE, NT	REPORT LINE NUMBER (867) 920-8130		
LEAD AGENCY <input type="checkbox"/> EC <input type="checkbox"/> CCG <input type="checkbox"/> GNWT <input type="checkbox"/> GN <input type="checkbox"/> ILA <input type="checkbox"/> INAC <input type="checkbox"/> NEB <input type="checkbox"/> TC				SIGNIFICANCE <input type="checkbox"/> MINOR <input type="checkbox"/> MAJOR <input type="checkbox"/> UNKNOWN		FILE STATUS <input type="checkbox"/> OPEN <input type="checkbox"/> CLOSED	
AGENCY		CONTACT NAME	CONTACT TIME	REMARKS			
LEAD AGENCY							
FIRST SUPPORT AGENCY							
SECOND SUPPORT AGENCY							
THIRD SUPPORT AGENCY							