

## Appendix 16: 2022 Reportable Spills



# 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>01-26-2022</b>	REPORT TIME <b>16:00</b>	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT	REPORT NUMBER _____
	OCCURRENCE DATE: MONTH – DAY – YEAR <b>01-25-2022</b>	OCCURRENCE TIME <b>18:00</b>		
<b>C</b>	LAND USE PERMIT NUMBER (IF APPLICABLE) <b>KVPL11D01</b>	WATER LICENCE NUMBER (IF APPLICABLE) <b>2AM-MEL1631</b>		
	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION <b>Meliadine Gold Project</b>	REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN		
<b>E</b>	LATITUDE DEGREES <b>63</b> MINUTES <b>2</b> SECONDS <b>12</b>	LONGITUDE DEGREES <b>92</b> MINUTES <b>13</b> SECONDS <b>36</b>		
	RESPONSIBLE PARTY OR VESSEL NAME <b>Agnico Eagle Mines Ltd.</b>	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION <b>Meliadine, Rankin Inlet, Nunavut, X0C 0G0</b>		
<b>G</b>	ANY CONTRACTOR INVOLVED <b>N/A</b>	CONTRACTOR ADDRESS OR OFFICE LOCATION <b>N/A</b>		
	PRODUCT SPILLED <b>Thickener Water</b>	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES <b>15 m3</b>	U.N. NUMBER <b>N/A</b>	
<b>H</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>	
	SPILL SOURCE <b>Process Plant</b>	SPILL CAUSE <b>Thickener Blockage</b>	AREA OF CONTAMINATION IN SQUARE METRES <b>2000</b>	
<b>J</b>	FACTORS AFFECTING SPILL OR RECOVERY <b>None</b>	DESCRIBE ANY ASSISTANCE REQUIRED <b>None</b>	HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT <b>None</b>	
	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS <b>On January 25, 2022, a blockage on the Process Plant Thickener resulted in water being released to the ground outside the building onto the plant site industrial pad. The process was shut down to stop the spill. Freezing conditions and temporary installed berm contained the spill. Clean-up was initiated immediately. Samples were collected to determine the final disposal site for the frozen spilled material.</b>			
<b>K</b>	<b>No water bodies were impacted with the closest water body (G2 lake) approximately 600 m away.</b>			
	<b>Pursuant to Part H, Section 8c of the water license, a follow-up report will be issued after the investigation is completed. Reported by Brett Fairbairn, Environmental Coordinator, 819-759-3555 ext. 4603996</b>			
<b>L</b>	REPORTED TO SPILL LINE BY <b>Brett Fairbairn</b>	POSITION <b>Env. Coordinator</b>	EMPLOYER <b>AEM</b>	LOCATION CALLING FROM <b>Meliadine</b>
	TELEPHONE <b>819-759-3555</b>			
<b>M</b>	ANY ALTERNATE CONTACT <b>Eric Giroux</b>	POSITION <b>Env. Superintendent</b>	EMPLOYER <b>AEM</b>	ALTERNATE CONTACT <b>Meliadine</b>
	ALTERNATE TELEPHONE <b>418-559-2861</b>	ALTERNATE CONTACT LOCATION		
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				

# Follow Up Report: #2022019

## January 25<sup>th</sup>, 2022 – Thickener Water Spill

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The following information relates to spill 2022019 reported by Agnico Eagle Mines Ltd. On January 26<sup>th</sup>, 2022, and is being provided in accordance with:

- the Nunavut Water Board License 2AM-MEL1631 Water License, part H, item 8c
- the Government of Nunavut's, Environmental Protection Act subsection 5.1(a)

### Description of Incident

On January 25, 2022 after start-up following a recent blizzard a blockage on the Process Plant Thickener resulted in water being released to the ground outside the building onto the plant site industrial pad. The process was shut down to stop the spill. Freezing conditions and a temporary installed berm contained the spill. Clean-up was initiated immediately. Samples were collected to determine the final disposal site for the frozen spilled material.

No water bodies were impacted with the closest water body (G2 lake) approximately 600 m away.



**Figure 1:** Location of thickener water spill within Meliadine's water management area.



**Figure 2:** Final clean up.

## Spill Response & Cleanup

The plant was shut down to stop the release. Berms were created to contain the spill and minimize the impacted area. A sample was collected for analysis. An excavator, loader and haul truck were used to clean up the spilled material. All material collected will be placed in the process plant sump where it will be returned to the process plant system.

## Cause of Incident and Corrective Measures

The investigation into the cause of the release identified ice build at the overflow discharge pipe following a plant shutdown during blizzard conditions. The ice buildup resulted in a blockage of the discharge causing the thickener tank to overflow.

To prevent recurrence, modifications to the mill startup procedure to inspect the thickener overflow pipe to ensure the overflow is free of any obstructions.



**Brett Fairbairn** | Environment Coordinator

brett.fairbairn@agnicoeagle.com | Direct 819.759.3555 x4603996 |

Agnico Eagle Mines Limited - Meliadine Mine, Suite 879 - Rankin Inlet, Nunavut, Canada X0C 0G0

[agnicoeagle.com](http://agnicoeagle.com)    

Sent from Meliadine



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OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS

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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>01-31-2022</b>	REPORT TIME <b>14:45</b>	<input type="checkbox"/> ORIGINAL SPILL REPORT, OR		REPORT NUMBER _____
	OCCURRENCE DATE: MONTH – DAY – YEAR <b>01-30-2022</b>	OCCURRENCE TIME <b>12:00</b>	<input checked="" type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT		
<b>C</b>	LAND USE PERMIT NUMBER (IF APPLICABLE) <b>KVPL11D01</b>	WATER LICENCE NUMBER (IF APPLICABLE) <b>2AM-MEL1631</b>			
	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION <b>Meliadine Gold Project</b>		REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN		
<b>E</b>	LATITUDE DEGREES <b>63</b> MINUTES <b>2</b> SECONDS <b>14</b>	LONGITUDE DEGREES <b>92</b> MINUTES <b>13</b> SECONDS <b>37</b>			
	RESPONSIBLE PARTY OR VESSEL NAME <b>Agnico Eagle Mines Ltd.</b>	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION <b>Meliadine, Rankin Inlet, Nunavut, X0C 0G0</b>			
<b>H</b>	ANY CONTRACTOR INVOLVED <b>N/A</b>	CONTRACTOR ADDRESS OR OFFICE LOCATION <b>N/A</b>			
	PRODUCT SPILLED <b>Maintenance Shop Waste Water</b>	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES <b>1 m3</b>	U.N. NUMBER <b>N/A</b>		
<b>H</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>		
	SPILL SOURCE <b>Storage tote</b>	SPILL CAUSE <b>Punctured Tote</b>	AREA OF CONTAMINATION IN SQUARE METRES <b>20</b>		
<b>J</b>	FACTORS AFFECTING SPILL OR RECOVERY <b>None</b>	DESCRIBE ANY ASSISTANCE REQUIRED <b>None</b>	HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT <b>None</b>		
	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS				
<b>K</b>	<b>On January 30, 2022, an operator was using a skid steer to load oil contaminated waste water totes into a seacan. The skid steer forks came into contact with a tote spilling the contents to the ground. A total of 1000 litres was spilled to the ground. Frozen condition and the flat surface contained the spill to the local area. The spill was cleaned up using the skid steer and was disposed of in the contaminated snow cell for later reuse at a later date.</b>				
	<b>No water bodies were impacted with the closest water body (G2 lake) approximately 600 m away.</b>				
	<b>Pursuant to Part H, Section 8c of the water license, a follow-up report will be issued after the investigation is completed. Reported by Brett Fairbairn, Environmental Coordinator, 819-759-3555 ext. 4603996</b>				
<b>L</b>	REPORTED TO SPILL LINE BY <b>Brett Fairbairn</b>	POSITION <b>Env. Coordinator</b>	EMPLOYER <b>AEM</b>	LOCATION CALLING FROM <b>Meliadine</b>	TELEPHONE <b>819-759-3555</b>
	ANY ALTERNATE CONTACT <b>Eric Giroux</b>	POSITION <b>Env. Superintendent</b>	EMPLOYER <b>AEM</b>	ALTERNATE CONTACT LOCATION <b>Meliadine</b>	ALTERNATE TELEPHONE <b>418-559-2861</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					

## Follow Up Report: #2022036

### January 30, 2022 Oil Contaminated Waste Water Spill

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The following information refers to spill #2022036 reported by Agnico Eagle Mines Ltd. January 31<sup>st</sup>, 2022, and is being provided in accordance with:

- the Nunavut Water Board License 2AM-MEL1631 Water License, part H, item 8c
- the Government of Nunavut's, Environmental Protection Act subsection 5.1(a)

#### **Description of Incident:**

On January 30, 2022, an operator was using a skid steer to load oil contaminated wastewater totes into a seacan. The skid steer forks came into contact with a tote inside the seacan spilling the contents to the ground. Approximately 1000 litres of oil contaminated wastewater was spilled to the ground.



**Figure 1:** Spill scene January 30, 2022.

No water bodies were impacted by this spill. The closest natural water body (G2 lake) is 600 m from the spill location. The coordinates of the spill are 63° 2'14"N, 92°13'37"W (Figure 2).



Figure 2: Location of spill outside the MSB maintenance shop

### Spill Response & Clean-up:

Frozen condition and the flat surface kept the spill contained to the local area as shown in Figure 1. The spill was cleaned up using a skid steer and the contaminated snow was disposed of in the contaminated snow cell.



Figure 3: Initial cleanup process. Stockpile material later taken to the contaminated snow cell.

### Corrective Measures:

After investigation, it was determined that the forks on the equipment we inserted too far and punctured the tote inside the seacan.

A spotter was onsite as per the procedure; however, the spotter cannot enter the seacan while inserting a tote for Health & Safety considerations as this would put him in the line of fire.

To prevent reoccurrence of similar incidents, the procedure *MEL-HSH-PRO-0027 Handling Totes and Barrels with Forked Equipment* will be updated to include the installation of a device on the fork that will prevent the fork from being inserted too far.

This will prevent totes already in seacans from being punctured in the future.



**Brett Fairbairn** | Environment Coordinator

[brett.fairbairn@agnicoeagle.com](mailto:brett.fairbairn@agnicoeagle.com) | Direct 819.759.3555 x4603996 |

Agnico Eagle Mines Limited - Meliadine Mine, Suite 879 - Rankin Inlet, Nunavut,  
Canada X0C 0G0

[agnicoeagle.com](http://agnicoeagle.com)    

Sent from Meliadine





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EMAIL: spills@gov.nt.ca

REPORT LINE USE ONLY

<b>A</b>	REPORT DATE: MONTH – DAY – YEAR <b>02-09-2022</b>	REPORT TIME <b>11:00</b>	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT	REPORT NUMBER _____
	OCCURRENCE DATE: MONTH – DAY – YEAR <b>02-08-2022</b>	OCCURRENCE TIME <b>14:00</b>		
<b>C</b>	LAND USE PERMIT NUMBER (IF APPLICABLE) <b>KVPL11D01</b>	WATER LICENCE NUMBER (IF APPLICABLE) <b>2BB-MEL-1424</b>		
	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION <b>Meliadine Gold Project</b>	REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN		
<b>E</b>	LATITUDE DEGREES <b>63</b> MINUTES <b>0</b> SECONDS <b>48</b>	LONGITUDE DEGREES <b>92</b> MINUTES <b>12</b> SECONDS <b>53</b>		
	RESPONSIBLE PARTY OR VESSEL NAME <b>Agnico Eagle Mines Ltd.</b>	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION <b>Meliadine, Rankin Inlet, Nunavut, X0C 0G0</b>		
<b>G</b>	ANY CONTRACTOR INVOLVED <b>Orbit Garant</b>	CONTRACTOR ADDRESS OR OFFICE LOCATION <b>Val d'Or, Quebec</b>		
	PRODUCT SPILLED <b>Engine Oil</b>	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES <b>15L</b>	U.N. NUMBER <b>N/A</b>	
<b>H</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>	
	SPILL SOURCE <b>Drill Rig</b>	SPILL CAUSE <b>Equipment Failure</b>	AREA OF CONTAMINATION IN SQUARE METRES <b>15</b>	
<b>J</b>	FACTORS AFFECTING SPILL OR RECOVERY <b>None</b>	DESCRIBE ANY ASSISTANCE REQUIRED <b>None</b>	HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT <b>None</b>	
	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS <b>On February 8th, 2022, during an environmental compliance inspection of a drill rig (Drill 10) located on Lake A8 a worker identified a hydraulic oil spill. Secondary containment failed to contain the oil which migrated onto the surface ice of the lake. Absorbent pads were deployed and the spill was contained before it could migrate down the ice. The drill was shut down and contaminated material is being recovered.</b> <b>No oil entered the water body as it was contained on the surface of the ice cover. Pursuant to Part H, Section 4c of the Water Licence, a follow-up report will be issued after a closer investigation is completed.</b> <b>Location of spill: 63 0'48"N 92 12'53"W</b> <b>Contact information: Sara Savoie 819-759-3555 extension 4608143</b>			
<b>L</b>	REPORTED TO SPILL LINE BY <b>Sara Savoie</b>	POSITION <b>General Supervisor</b>	EMPLOYER <b>AEM</b>	LOCATION CALLING FROM <b>Meliadine</b>
	TELEPHONE <b>819-759-3555</b>			
<b>M</b>	ANY ALTERNATE CONTACT <b>Eric Giroux</b>	POSITION <b>Env. Superintendent</b>	EMPLOYER <b>AEM</b>	ALTERNATE CONTACT LOCATION <b>Meliadine</b>
	ALTERNATE TELEPHONE <b>418-559-2861</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				

# Follow Up Report: #2022029

## February 8<sup>th</sup>, 2022,

### Engine Oil on Water Body B38 – Drill Rig#10

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The following information refers to a spill reported by Agnico Eagle Mines Ltd. on February 9<sup>th</sup>, 2022, and is being provided in accordance with:

- the Nunavut Water Board License 2BB-MEL1424 Water License, part H, item 4c
- the Fisheries Act subsection 38(5)

#### Description of Incident:

On February 8<sup>th</sup>, at approximately 14:00, Environment Technicians were conducting an inspection of surface Drill# 10, operated by AEM's contractor Orbit Garant. During the inspection, areas with small amounts engine oil dripping from inside the rigs onto the lake ice were observed. The drill released approximately 15 L of engine oil. The coordinates of the spill are: 63° 0' 28.93" N, 92°12' 31.50"W, on the Water body B38, which is a shallow pond with a maximum depth of 1.5 m (therefore it is generally assumed to freeze completely to the bottom and would not support fish through the winter season).



**Figure 1: Incident Location**

#### Spill Response & Cleanup:

During the inspection, Environment technicians notified the drillers of the issues. Absorbent pads were placed beneath the drips immediately. The Orbit Garant supervisor was notified, and the drills were shut down immediately to perform a preliminary cleanup and ensure the spill was contained. The cleanup was then finalized following the movement of the drill. Regular inspections were performed by the Environment Department during this time to ensure environmental compliance.

The drill was completed to another borehole location on February 14<sup>th</sup>, and the site remediation was performed during the following night. A dozer was used to scrape the contaminated snow and ice and a composite sample was collected on the ice surface of Pond B38 on February 15<sup>th</sup> in the incident area. The ice sample was sent to the laboratory for analysis of the following parameters: BTEX, F1-F4 Hydrocarbons, Oil & Grease, total metals, Conductivity, pH, and Total Suspended Solids (TSS).

Results showed concentrations below detection limit for BTEX and F1-F4 Hydrocarbons, while total Oil & Grease concentration is of 0.8 mg/L. For reference, the maximum concentration of any grab sample applicable to Effluent discharge in Meliadine Lake at monitoring station MEL-7 is of 5 mg/L for Oil & Grease and no visible sheen, as per Water Licence 2BB-MEL1424 Part D Item 11. The certificate of analysis is attached and identified as Appendix A.



**Figure 2: Area after remediation efforts**



**Figure 3: Ice surface after remediation efforts**

The contaminated ice and snow were disposed at the Snow Cell where it will be stored until snowmelt, at which point the contaminated water will be transferred to the Landfarm for treatment at the oil-water separator, with the other existing material accumulated during Winter, as per the Water Management Plan.

### **Impact Assessment:**

Although the spill occurred on the lake ice, it is expected that minimal impacts occurred to the water body itself because all the contaminated ice was removed, as demonstrated by the quality of the post clean-up surface sample, and because the lake was frozen to the bottom.

Indeed, prior to mobilizing the drill and beginning the drilling operations, Orbit Garant confirmed Pond B38 was frozen to bottom, and the most recent ice thickness survey of Pond B38 was conducted March 8<sup>th</sup>, 2022, showed the pond still frozen to the bottom, with 45.7 cm of ice at the location of the survey.

### **Corrective Measures:**

The *Spill Retainment's at the Drills and Pump Shack* procedure applicable to drill rig investigation (attached as Appendix B) was thoroughly reviewed with both Orbit Garant shifts to remind crews of the importance of routine, regular inspections of their rigs (as per the section 5.2 of the attached procedure).

Furthermore, Orbit Garant is now using a more detailed Form for daily inspections (attached as Appendix C) and started to wrap high risk drill areas with absorbent rags to prevent a spill from occurring. As per Orbit Garant's Drill Environmental Inspection Guide (Appendix D), when absorbent rags show signs of saturation, the source of the leak is identified and fixed and the absorbent rags are replaced.

In addition, since this incident, the Environment Department increased its environmental inspections on drill located on water bodies, currently these inspections are being conducted every 2 days

Finally, to demonstrate the seriousness of the incident, AEM asked that the Orbit employees that were working at Drill 10 at the time of the spill be released of their duties. They left Meliadine on the next plane leaving site after the incident occurred.

### **Erratum:**

In the initial spill report sent February 9<sup>th</sup>, 2022 (#2022029), hydraulic oil was listed as the product spilled under section "H" but after further investigation, it was determined that the material released was engine oil.

In the initial spill report sent February 9<sup>th</sup>, 2022 (#2022029), the water body on which the spill occurred was misidentified in section "K" as A8 but should have read B38 as the drill was located on Pond B38. Related to this misidentification, the following information communicated to Christine Wilson (CIRNAC) on February 11<sup>th</sup>, 2022 "*A8 is completely frozen, no oil entered the water body.*" should have read "*B38 is completely frozen, no oil entered the water body.*"



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<b>B</b>	OCCURRENCE DATE: MONTH – DAY – YEAR <b>02-18-2022</b>	OCCURRENCE TIME <b>17:30</b>		
<b>C</b>	LAND USE PERMIT NUMBER (IF APPLICABLE) <b>KVPL11D01</b>	WATER LICENCE NUMBER (IF APPLICABLE) <b>2AM-MEL1631</b>		
<b>D</b>	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION <b>Meliadine Gold Project</b>		REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN	
<b>E</b>	LATITUDE DEGREES <b>63</b> MINUTES <b>2</b> SECONDS <b>21</b>		LONGITUDE DEGREES <b>92</b> MINUTES <b>13</b> SECONDS <b>41</b>	
<b>F</b>	RESPONSIBLE PARTY OR VESSEL NAME <b>Agnico Eagle Mines Ltd.</b>	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION <b>Meliadine, Rankin Inlet, Nunavut, X0C 0G0</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>Untreated Sewage</b>	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES <b>80 Liters</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>KCG Lift Station Tank</b>	SPILL CAUSE <b>Human Error</b>	AREA OF CONTAMINATION IN SQUARE METRES <b>16</b>	
<b>J</b>	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>	

<b>K</b>	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS <p><b>While transferring sewage from the KCG lift station tank to the site Sewage Treatment Plant (STP) the transfer valve was left in the open position allowing approximately 80L of sewage to spill to the ground on the industrial pad. The winter conditions caused the spill to freeze in place and the frozen material was scraped up with on site equipment and placed in barrels for disposal.</b></p> <p><b>The location of the spill was 63° 1'42.70"N 92°12'47.81"W. No water bodies were impacted by this spill. The nearest natural water-body (B7) is 880 m west.</b></p> <p><b>A follow-up report will be issued at a later date. Reported by Brett Fairbairn Environment Coordinator 819-759-3555 ext. 4603996 Brett.Fairbairn@agnicoeagle.com.</b></p>			
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<b>L</b>	REPORTED TO SPILL LINE BY <b>Brett Fairbarin</b>	POSITION <b>Env. Coordinator</b>	EMPLOYER <b>AEM</b>	LOCATION CALLING FROM <b>Meliadine</b>	TELEPHONE <b>819-759-3555</b>
<b>M</b>	ANY ALTERNATE CONTACT <b>Eric Giroux</b>	POSITION <b>Env. Superintendent</b>	EMPLOYER <b>AEM</b>	ALTERNATE CONTACT LOCATION <b>Meliadine</b>	ALTERNATE TELEPHONE <b>418-559-2861</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					

## Follow Up Report: #2022045 February 18, 2022 – 80 L Untreated Sewage

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The following information refers to an incident # 2022045 reported by Agnico Eagle Mines Ltd. February 19, 2022, and is being provided in accordance with:

- the Nunavut Water Board License 2AM-MEL1631 Water License, Part H, item 8c

### Description of Incident

At approximately 17:30 on February 18, 2022, the Environment Department was notified of a spill of approximately 80 L of raw sewage. The spill occurred when a transfer valve was accidentally left in the open position after the sewage tank was drained.

The coordinates of this spill are 63° 1' 42.70"N, 92° 12' 47.81"W. No water bodies were impacted by this spill. The nearest water body (B7) is 880 m west.



**Figure 1:** Location of the spill at KCG lift station

### Spill Response & Cleanup

The sewage tank transfer valve was closed to stop the spill. The topography of the area and the freezing conditions prevented the sewage from migrating off site. Mobile equipment was used to recover the spilled material which was placed in containers. The spilled material will be returned to the sewage treatment system for processing once thawed.



**Figure 2:** Spill cleanup area (contaminated ice removed and material put down to prevent slipping)

### **Cause of Incident and Corrective Measures**

After an investigation, it was discovered that the valve on the sewage tank was not returned to the proper position after draining the sewage tank. The sucker truck operational procedure has been reviewed and updated with additional details on spill prevention. The updated procedure will be reviewed by all sucker truck operators prior to operating the truck. The updated procedure is also available in the sucker truck for ease of reference.



**Brett Fairbairn** | Environment Coordinator

brett.fairbairn@agnicoeagle.com | Direct 819.759.3555 x4603996 |

Agnico Eagle Mines Limited - Meliadine Mine, Suite 879 - Rankin Inlet, Nunavut,  
Canada X0C 0G0

[agnicoeagle.com](http://agnicoeagle.com)    

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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>02-26-2022</b>	REPORT TIME <b>17:30</b>	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT	REPORT NUMBER _____
<b>B</b>	OCCURRENCE DATE: MONTH – DAY – YEAR <b>02-26-2022</b>	OCCURRENCE TIME <b>09:00</b>		
<b>C</b>	LAND USE PERMIT NUMBER (IF APPLICABLE) <b>KVPL11D01</b>	WATER LICENCE NUMBER (IF APPLICABLE) <b>2AM-MEL1631</b>		
<b>D</b>	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION <b>Meliadine Gold Project</b>	REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN		
<b>E</b>	LATITUDE DEGREES <b>63</b> MINUTES <b>2</b> SECONDS <b>21</b>	LONGITUDE DEGREES <b>92</b> MINUTES <b>13</b> SECONDS <b>41</b>		
<b>F</b>	RESPONSIBLE PARTY OR VESSEL NAME <b>Agnico Eagle Mines Ltd.</b>	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION <b>Meliadine, Rankin Inlet, Nunavut, X0C 0G0</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>Untreated Sewage</b>	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES <b>1500 Liters</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>Power Plant Lift Station</b>	SPILL CAUSE <b>Overflow</b>	AREA OF CONTAMINATION IN SQUARE METRES <b>15</b>	
<b>J</b>	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>	

<b>K</b>	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS <b>An overflow of the power plant lift station resulted in a spill of 1500L of sewage to the industrial pad. The spill was contained to a low spot in the local area. A sucker truck was used to clean up the unfrozen material and the clean up of the frozen material is ongoing.</b>  <b>The cause of the overflow is still under investigation and will be included in the follow up report.</b>  <b>The location of the spill was 63° 2' 17"N, 92° 13' 32"W. No water bodies were impacted by this spill. The nearest natural water-body (G2) is 500 m north.</b>  <b>A follow-up report will be issued at a later date. Reported by Brett Fairbairn. Environment Coordinator 819-759-3555 ext. 4603996 Brett.Fairbairn@agnicoeagle.com.</b>			
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<b>L</b>	REPORTED TO SPILL LINE BY <b>Brett Fairbarin</b>	POSITION <b>Env. Coordinator</b>	EMPLOYER <b>AEM</b>	LOCATION CALLING FROM <b>Meliadine</b>	TELEPHONE <b>819-759-3555</b>
<b>M</b>	ANY ALTERNATE CONTACT <b>Eric Giroux</b>	POSITION <b>Env. Gen. Supervisor</b>	EMPLOYER <b>AEM</b>	ALTERNATE CONTACT LOCATION <b>Meliadine</b>	ALTERNATE TELEPHONE <b>418-559-2861</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					



## Follow Up Report: #2022055 February 26, 2022 – 1500 L Sewage

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The following information refers to an incident # 2022055 reported by Agnico Eagle Mines Limited February 26, 2022, and is being provided in accordance with:

- the Nunavut Water Board License 2AM-MEL1631 Water License, Part H, item 8c.

### Description of Incident

At approximately 9:00 on February 26, 2022, the Environment department was notified of a spill of approximately 1500 L of sewage. The power plant lift station overflowed resulting in a spill of 1500 L of sewage on the industrial pad.

The coordinates of this spill are 63° 2' 17"N, 92° 13' 32"W. No water bodies were impacted by this spill. The closest water body (G2) is 500 m North.



**Figure 1:** Location of the spill by the power plant lift station

### Spill Response & Cleanup

The lift station was shut down to stop the spill. The topography of the area and the freezing conditions prevented the sewage from migrating off site. Easily accessible unfrozen material was cleaned by a vacuum truck. The location of the spill (in an area with several electrical cables) limited the quantity of spilled material that could be recovered immediately and Agnico Eagle is evaluating different options to safely remove the contaminated material.



**Figure 2:** Power plant lift station spill clean up

### **Cause of Incident and Corrective Measures**

A malfunction on the pump discharge line caused wastewater from the process plant to backfill into the power plant lift station, causing an overflow.

Following this event, a plumber was sent to inspect and repair the line. The check valve on the pump discharge line was replaced and the high-level float preventing the pump from continuously running was also serviced. Furthermore, daily lift station checks are being conducted by the Energy and Infrastructure Department.

Agnico Eagle is confident the implemented corrective measures mitigate the risks of a similar situation reoccurring.



**Sara Savoie** | Environment General Supervisor

[sara.savoie@agnicoeagle.com](mailto:sara.savoie@agnicoeagle.com) | Direct 819.759.3555 x4603212 | Mobile

819.856.9349

Agnico Eagle Mines Limited - 11600, rue Louis-Bisson - Mirabel, Quebec,  
Canada J7N 1G9

[agnicoeagle.com](http://agnicoeagle.com)     

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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>02-28-2022</b>	REPORT TIME <b>18:30</b>	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT	<b>REPORT NUMBER</b>  _____
<b>B</b>	OCCURRENCE DATE: MONTH – DAY – YEAR <b>02-27-2022</b>	OCCURRENCE TIME <b>22:00</b>		
<b>C</b>	LAND USE PERMIT NUMBER (IF APPLICABLE) <b>KVPL11D01</b>	WATER LICENCE NUMBER (IF APPLICABLE) <b>2AM-MEL1631</b>		
<b>D</b>	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION <b>Meliadine Gold Project</b>		REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN	
<b>E</b>	LATITUDE DEGREES <b>63</b> MINUTES <b>2</b> SECONDS <b>21</b>		LONGITUDE DEGREES <b>92</b> MINUTES <b>13</b> SECONDS <b>41</b>	
<b>F</b>	RESPONSIBLE PARTY OR VESSEL NAME <b>Agnico Eagle Mines Ltd.</b>	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION <b>Meliadine, Rankin Inlet, Nunavut, X0C 0G0</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>Untreated Sewage</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>Wing 10/11 Lift Station</b>	SPILL CAUSE <b>Frozen Discharge</b>	AREA OF CONTAMINATION IN SQUARE METRES <b>unknown</b>	
<b>J</b>	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>	

<b>K</b>	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS <p><b>An unknown volume of sewage was spilled from the wing 10/11 lift station. The lift station door was found in the open and the cause is expected to be a frozen discharge line. The spill froze in place and is currently covered in snow.</b></p> <p><b>The cause and extent of the spill is still under investigation and will be included in the follow up report.</b></p> <p><b>The location of the spill was 63° 2' 23"N, 92° 13' 50"W. No water bodies were impacted by this spill. The nearest natural water-body (G2) is 200 m north.</b></p> <p><b>A follow-up report will be issued at a later date. Reported by Brett Fairbairn - Environment Coordinator 819-759-3555 ext. 4603996 Brett.Fairbairn@agnicoeagle.com.</b></p>			
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<b>L</b>	REPORTED TO SPILL LINE BY <b>Brett Fairbarin</b>	POSITION <b>Env. Coordinator</b>	EMPLOYER <b>AEM</b>	LOCATION CALLING FROM <b>Meliadine</b>	TELEPHONE <b>819-759-3555</b>
<b>M</b>	ANY ALTERNATE CONTACT <b>Eric Giroux</b>	POSITION <b>Env. Gen. Supervisor</b>	EMPLOYER <b>AEM</b>	ALTERNATE CONTACT LOCATION <b>Meliadine</b>	ALTERNATE TELEPHONE <b>418-559-2861</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
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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					

## Follow Up Report: #2022056 February 27, 2022 – Unknown Volume Sewage

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The following information refers to an incident #2022056 reported by Agnico Eagle Mines Ltd. February 27, 2022, and is being provided in accordance with:

- the Nunavut Water Board License 2AM-MEL1631 Water License, Part H, item 8c.

### Description of Incident

At approximately 22:00 on February 27, 2022, sewage was spilled from the Wing 10 and 11 lift station. The exact volume of the spill could not be estimated due to health and safety concerns as there are electrical lines in the area which restrict equipment and personnel access. Approximately 150 L of visible and accessible sewage was removed using hand tools.

The coordinates of this spill are 63° 2' 23"N, 92° 13' 50"W. No water bodies were impacted by this spill. The closest water body (G2) is approximately 200 m north.



**Figure 1:** Location of the spill between wings 10 and 11.

### Spill Response & Cleanup

The lift station was shut down to stop the spill and approximately 150 L of visible and accessible contaminated material was cleaned up and placed in steel drum to be returned to the sewage treatment system at a later time.

Additional cleanup of the area will be completed during spring/summer months.



**Figure 2:** Lift station spill general area was cleaned with sucker truck and shovel

### **Cause of Incident and Corrective Measures**

The door of the lift station was found opened. This led to the discharge lines freezing and resulted to an overflow in the lift station. Additionally, the alarm in the lift station froze in the cold weather, rendering it inoperable.

A door latch has been installed to keep the door closed and a frost fighter was also installed to prevent the line from freezing in the future.

Furthermore, an electrician has performed an inspection of all safety/warning systems (strobes and horns) on all lift stations to ensure that safety systems are working as designed and has recommended installation of alarms supporting colder conditions which will be installed in the upcoming weeks.



# NT-NU SPILL REPORT

OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS

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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>02-28-2022</b>	REPORT TIME <b>11:30</b>	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR		REPORT NUMBER _____
	OCCURRENCE DATE: MONTH – DAY – YEAR <b>02-27-2022</b>	OCCURRENCE TIME <b>10:00</b>	<input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT		
<b>C</b>	LAND USE PERMIT NUMBER (IF APPLICABLE) <b>KVPL11D01</b>	WATER LICENCE NUMBER (IF APPLICABLE) <b>2AM-MEL1631</b>			
	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION <b>Meliadine Gold Project</b>		REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN		
<b>E</b>	LATITUDE DEGREES <b>63</b> MINUTES <b>2</b> SECONDS <b>21</b>	LONGITUDE DEGREES <b>92</b> MINUTES <b>13</b> SECONDS <b>41</b>			
	RESPONSIBLE PARTY OR VESSEL NAME <b>Agnico Eagle Mines Ltd.</b>	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION <b>Meliadine, Rankin Inlet, Nunavut, X0C 0G0</b>			
<b>G</b>	ANY CONTRACTOR INVOLVED <b>N/A</b>	CONTRACTOR ADDRESS OR OFFICE LOCATION <b>N/A</b>			
	PRODUCT SPILLED <b>Untreated Sewage</b>	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES <b>25 Liters</b>	U.N. NUMBER <b>N/A</b>		
<b>H</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>		
	SPILL SOURCE <b>MSB Lift Station</b>	SPILL CAUSE <b>Transfer Spill</b>	AREA OF CONTAMINATION IN SQUARE METRES <b>6</b>		
<b>J</b>	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>		
	<b>K</b> ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS <b>A 25L sewage spill was identified next to the Multi Service Building (MSB) lift station on the industrial pad after the sucker truck was emptied. The spill froze in place and was contained to the local area.</b>  <b>The cause of the spill is still under investigation and will be included in the follow up report.</b>  <b>The location of the spill was 63° 2' 21"N, 92° 13' 40"W. No water bodies were impacted by this spill. The nearest natural water-body (G2) is 500 m north.</b>  <b>A follow-up report will be issued at a later date. Reported by Brett Fairbairn. Environment Coordinator 819-759-3555 ext. 4603996 Brett.Fairbairn@agnicoeagle.com.</b>				
<b>L</b>	REPORTED TO SPILL LINE BY <b>Brett Fairbarin</b>	POSITION <b>Env. Coordinator</b>	EMPLOYER <b>AEM</b>	LOCATION CALLING FROM <b>Meliadine</b>	TELEPHONE <b>819-759-3555</b>
	ANY ALTERNATE CONTACT <b>Eric Giroux</b>	POSITION <b>Env. Gen. Supervisor</b>	EMPLOYER <b>AEM</b>	ALTERNATE CONTACT LOCATION <b>Meliadine</b>	ALTERNATE TELEPHONE <b>418-559-2861</b>
<b>REPORT LINE USE ONLY</b>					
<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					

# Follow Up Report: #2022057

## February 27, 2022 – 25 L Sewage

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The following information refers to an incident #2022057 reported by Agnico Eagle Mines Ltd. February 27, 2022, and is being provided in accordance with:

- the Nunavut Water Board License 2AM-MEL1631 Water License, Part H, Item 8c.

### Description of Incident

At approximately 10:00 on February 27, 2022, 25L of sewage was spilled at the Multi Service Building (MSB) lift station when the vacuum truck hose was disconnected.

The coordinates of this spill are 63° 2' 21"N, 92° 13' 40"W. No water bodies were impacted by this spill. The closest water body (G2) is approximately 500 m north.



**Figure 1:** Location of the MSB lift station spill

### Spill Response & Cleanup

The spill was contained to the local area. The topography of the area and the freezing conditions prevented the sewage from migrating off site, facilitating spill recovery. Frozen contaminated material was collected and placed in drums to be returned to the sewage treatment system at a later date.



**Figure 2:** MSB lift station spill clean up

### **Cause of Incident and Corrective Measures**

Due to COVID-19 related staff reorganization, the regular vacuum truck operating crew wasn't on site at the time of the incident and the temporary vacuum truck operator did not follow the proper sequence during the vacuum truck unloading.

The vacuum truck operational procedure was recently reviewed to include usage of a drip bucket while on and off loading and a copy has been laminated and placed in the vacuum truck for ease of reference.

This procedure was reviewed with the vacuum truck operator working at the time of the spill and will be reviewed with regular operators as they come back to site before they operate the vacuum truck.

Furthermore, regular toolbox meetings on spill prevention have been scheduled with the vacuum truck operators and Agnico Eagle is evaluating other options to reduce risks of spill occurrences at lift stations.





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>03-05-2022</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>B</b>	OCCURRENCE DATE: MONTH – DAY – YEAR <b>03-05-2022</b>	OCCURRENCE TIME <b>9:00</b>		
<b>C</b>	LAND USE PERMIT NUMBER (IF APPLICABLE) <b>KVPL11D01</b>	WATER LICENCE NUMBER (IF APPLICABLE) <b>2AM-MEL1631</b>		
<b>D</b>	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION <b>Meliadine Gold Project</b>	REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN		
<b>E</b>	LATITUDE DEGREES <b>63</b> MINUTES <b>2</b> SECONDS <b>21</b>	LONGITUDE DEGREES <b>92</b> MINUTES <b>13</b> SECONDS <b>41</b>		
<b>F</b>	RESPONSIBLE PARTY OR VESSEL NAME <b>Agnico Eagle Mines Ltd.</b>	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION <b>Meliadine, Rankin Inlet, Nunavut, X0C 0G0</b>		
<b>G</b>	ANY CONTRACTOR INVOLVED <b>Orbit Garant</b>	CONTRACTOR ADDRESS OR OFFICE LOCATION <b>Val d'Or, Quebec</b>		
<b>H</b>	PRODUCT SPILLED <b>Diesel fuel</b>	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES <b>10L</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>4000L Double Walled Fuel Tank</b>	SPILL CAUSE <b>Refueling Overflow</b>	AREA OF CONTAMINATION IN SQUARE METRES <b>1</b>	
<b>J</b>	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>	

<b>K</b>	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS <b>On March 5th 2022, during an environmental inspection of the orbit drill rigs located on Lake A8, a worker identified a diesel spill underneath a mobile 4000L double walled fuel tank at rig 10. Absorbent pads were deployed and the spill was contained. No diesel entered the water body as it was contained on the surface of the ice cover.</b> <b>Pursuant to Part H, Section 4c of the Water License, a follow-up report will be issued after a closer investigation is completed.</b> <b>Location of spill: 63 0'33"N 92 12'9"W</b> <b>Contact information: Matt Gillman 819-759-3555 extension 4603212</b>			
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<b>L</b>	REPORTED TO SPILL LINE BY <b>Randy Schwandt</b>	POSITION <b>Env. Coordinator</b>	EMPLOYER <b>AEM</b>	LOCATION CALLING FROM <b>Meliadine</b>	TELEPHONE <b>819-759-3555</b>
<b>M</b>	ANY ALTERNATE CONTACT <b>Eric Giroux</b>	POSITION <b>Env. Gen. Supervisor</b>	EMPLOYER <b>AEM</b>	ALTERNATE CONTACT LOCATION <b>Meliadine</b>	ALTERNATE TELEPHONE <b>418-559-2861</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					

# Follow Up Report: #2022065

## March 5, 2022,

### 10L Diesel Fuel on Water Body A8 – Drill Rig#10

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The following information refers to a spill reported by Agnico Eagle Mines Ltd. on March 5, 2022, and is being provided in accordance with:

- the Nunavut Water Board License 2BB-MEL1424 Water License, part H, item 4c
- the Fisheries Act subsection 38(7)

#### Description of Incident:

On March 5th, at approximately 9:00, Environment Technicians were conducting an inspection of the surface drill areas, operated by AEM's contractor Orbit Garant. During the inspection, a small amount of diesel fuel was observed by a 4000L overpack. The overpack released 10 L of diesel fuel on the surface of the lake ice. The coordinates of the spill are: 63° 0' 33" N, 92°12' 9"W, on the Water body A8, which is a lake. After further investigation it was determined that the spill occurred due to a combination of fuel expansion in the overpack due to drastic temperature changes and movement of the overpack itself. When the overpack was being moved, fuel was released out of the breather and contaminated snow located on the overpack. The snow then fell on the surface of the lake ice.



Figure 1: Incident Location- A8 Lake

#### Spill Response & Cleanup:

Environment technicians notified the Orbit Garant supervisor and the overpack was moved forward to allow a loader to remove contaminated material. The cleanup was then finalized following the movement of the overpack. The Environment Department was present during this time to ensure environmental compliance with clean up methods as per section 6.4 of Spill Contingency Plan (spills on snow and ice).

The contaminated ice and snow were disposed at the Snow Cell where it will be stored until snowmelt, at which point the contaminated water will be transferred for treatment at the oil-water separator, as per the Water Management Plan.

A composite sample was collected on the ice surface of Lake A8 on March 9th in the incident area. The ice sample was sent to an accredited laboratory for analysis of the following parameters: BTEX, F1-F4 Hydrocarbons, Oil & Grease, total metals, Conductivity, pH, and Total Suspended Solids (TSS).

Results showed concentrations below detection limit for BTEX and F1-F4 Hydrocarbons and total Oil & Grease. For reference, the maximum concentration of any grab sample applicable to Effluent discharge in Meliadine Lake at monitoring station MEL-7 is of 5 mg/L for Oil & Grease and no visible sheen, as per Water Licence 2BB-MEL1424 Part D Item 11. The certificate of analysis is attached and identified as Appendix A.

### **Impact Assessment:**

Although the spill occurred on the lake ice, it is expected that minimal impacts occurred to the water body itself because all the contaminated ice was removed, as demonstrated by the quality of the post clean-up surface sample and because the contaminated material was not near a drill hole.

### **Corrective Measures:**

As an immediate corrective action, overpacks will be given extra headspace to allow for expansion to occur. This has been communicated with fuel truck operators and supervisors have been asked to put a note on employee's health and safety work cards as a reminder.



# 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>03-06-2022</b>	REPORT TIME <b>11:40</b>	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT	REPORT NUMBER _____
	OCCURRENCE DATE: MONTH – DAY – YEAR <b>03-06-2022</b>	OCCURRENCE TIME <b>16:00</b>		
<b>C</b>	LAND USE PERMIT NUMBER (IF APPLICABLE) <b>KVPL11D01</b>	WATER LICENCE NUMBER (IF APPLICABLE) <b>2AM-MEL1631</b>		
	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION <b>Meliadine Gold Project</b>	REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN		
<b>E</b>	LATITUDE DEGREES <b>63</b> MINUTES <b>2</b> SECONDS <b>21</b>	LONGITUDE DEGREES <b>92</b> MINUTES <b>13</b> SECONDS <b>41</b>		
	RESPONSIBLE PARTY OR VESSEL NAME <b>Agnico Eagle Mines Ltd.</b>	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION <b>Meliadine, Rankin Inlet, Nunavut, X0C 0G0</b>		
<b>G</b>	ANY CONTRACTOR INVOLVED <b>N/A</b>	CONTRACTOR ADDRESS OR OFFICE LOCATION <b>N/A</b>		
	PRODUCT SPILLED <b>Thickener Water</b>	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES <b>45m3</b>	U.N. NUMBER <b>N/A</b>	
<b>H</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>	
	SPILL SOURCE <b>Process Plant</b>	SPILL CAUSE <b>Overflow</b>	AREA OF CONTAMINATION IN SQUARE METRES <b>2000</b>	
<b>J</b>	FACTORS AFFECTING SPILL OR RECOVERY <b>None</b>	DESCRIBE ANY ASSISTANCE REQUIRED <b>None</b>	HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT <b>None</b>	
	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS <b>On March 6th, 2022, a blockage on the Process Plant Thickener resulted in process water being released to the ground outside the building onto the plant site industrial pad. The process was shut down to stop the spill. Freezing conditions and temporary installed berm contained the spill. Material is currently being collected and put back into mill for disposal.</b>			
<b>K</b>	<b>No water bodies were impacted with the closest water body (G2 lake) approximately 600 m away.</b>			
	<b>Pursuant to Part H, Section 4c of the Water License, a follow-up report will be issued after a closer investigation is completed. Location of spill: 63 2'13"N 92 13'37"W Contact information: Matt Gillman 819-759-3555 extension 4603212</b>			
<b>L</b>	REPORTED TO SPILL LINE BY <b>Randy Schwandt</b>	POSITION <b>Env. Coordinator</b>	EMPLOYER <b>AEM</b>	LOCATION CALLING FROM <b>Meliadine</b>
	TELEPHONE <b>819-759-3555</b>			
<b>M</b>	ANY ALTERNATE CONTACT <b>Eric Giroux</b>	POSITION <b>Env. Superintendent</b>	EMPLOYER <b>AEM</b>	ALTERNATE CONTACT <b>Meliadine</b>
	ALTERNATE TELEPHONE <b>418-559-2861</b>	ALTERNATE CONTACT LOCATION		
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				

# Follow Up Report: #2022067

## March 6<sup>th</sup>, 2022 – Thickener Process Water Spill

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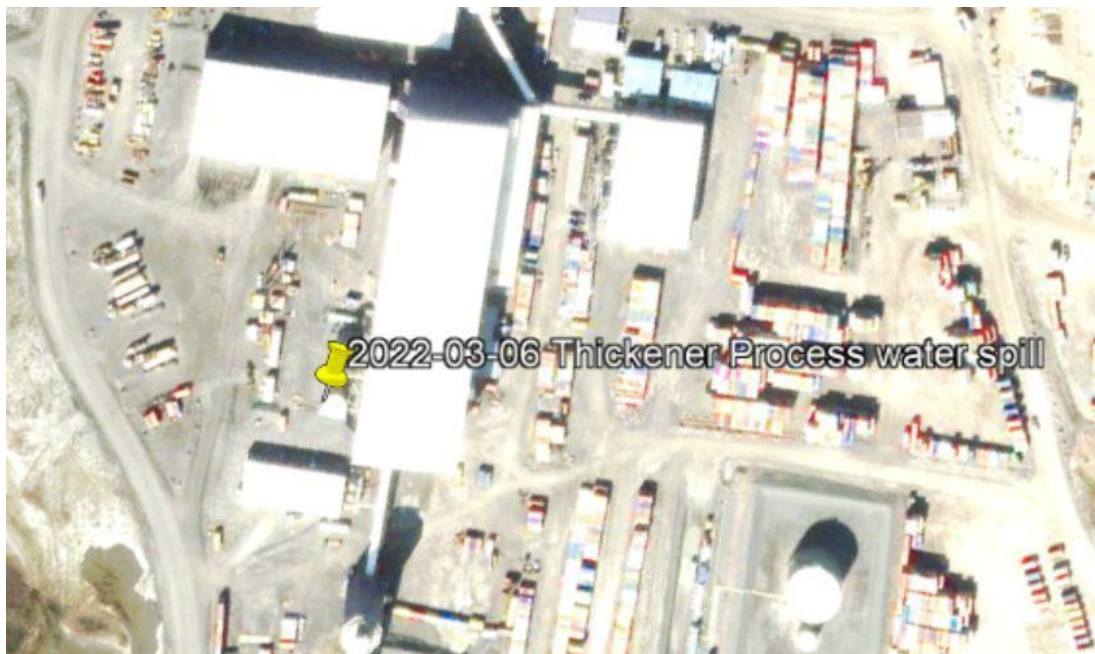
The following information relates to spill 2022067 reported by Agnico Eagle Mines Ltd. On March 6<sup>th</sup>, 2022, and is being provided in accordance with:

- the Nunavut Water Board License 2AM-MEL1631 Water License, part H, item 8c.

### Description of Incident

On March 6<sup>th</sup>, 2022, there was an overflow of approximately 45 m<sup>3</sup> of thickener process water on the industrial pad, outside the process plant.

The coordinates of this spill are 63 2'13"N, 92 13'37"W. No water bodies were impacted by this spill; the closest water body (G2) is approximately 600 m northwest.



**Figure 1:** Location of the March 6<sup>th</sup>, 2022, thickener process water spill.



**Figure 2:** Thickener process water spill clean up

### **Spill Response & Cleanup**

A temporary berm was built to contain the spill and minimize the impacted area. An excavator, loader and haul truck were used to clean up the spilled material. All material collected was placed in the process plant sump where it will be returned to the process plant system.

### **Cause of Incident and Corrective Measures**

The investigation into the cause of the release identified ice build at the overflow discharge pipe. The ice buildup resulted in a blockage of the discharge causing the thickener tank to overflow.

It is important to note that the root cause of this spill was also the cause of a subsequent thickener water spill on March 11<sup>th</sup> (Spill #2022075). Thus, the corrective measures discussed in this section will be similarly included in the associated follow-up report to be issued in the coming week. The following corrective measures are being implemented:

- Visually inspecting the top of the grinding thickener/clarifier feedbox every 2 hours and clearing snow if safe (ongoing).
- Ensuring there is adequate water flow from the clarifier feedbox to the grinding thickener by removing some baffle on the clarifier feedbox (completed).
- Preventatively cleaning the grinding thickener overflow launder to regain a full capacity.
- Installing air vent system on the grinding thickener overflow pipe to the process water tank.
- Pouring a concrete secondary containment.
- Installing an additional thickener tank which will split the flow going into the grinding thickener.



**Randy Schwandt** | Environment Coordinator

[randy.schwandt@agnicoeagle.com](mailto:randy.schwandt@agnicoeagle.com) | Direct 819.759.3555 x4603996 |

Agnico Eagle Mines Limited - Meliadine Mine, Suite 879 - Rankin Inlet, Nunavut,  
Canada X0C 0G0

[agnicoeagle.com](http://agnicoeagle.com)    



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>03-09-2022</b>	REPORT TIME <b>07:00</b>	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR		REPORT NUMBER  _____
	OCCURRENCE DATE: MONTH – DAY – YEAR <b>03-09-2022</b>	OCCURRENCE TIME <b>3:30</b>	<input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT		
<b>C</b>	LAND USE PERMIT NUMBER (IF APPLICABLE) <b>KVPL11D01</b>	WATER LICENCE NUMBER (IF APPLICABLE) <b>2AM-MEL1631</b>			
	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION <b>Meliadine Gold Project</b>		REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN		
<b>E</b>	LATITUDE DEGREES <b>63</b> MINUTES <b>2</b> SECONDS <b>21</b>	LONGITUDE DEGREES <b>92</b> MINUTES <b>13</b> SECONDS <b>41</b>			
	RESPONSIBLE PARTY OR VESSEL NAME <b>Agnico Eagle Mines Ltd.</b>	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION <b>Meliadine, Rankin Inlet, Nunavut, X0C 0G0</b>			
<b>G</b>	ANY CONTRACTOR INVOLVED <b>N/A</b>	CONTRACTOR ADDRESS OR OFFICE LOCATION <b>N/A</b>			
	PRODUCT SPILLED <b>Greywater</b>	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES <b>2m3</b>	U.N. NUMBER <b>N/A</b>		
<b>H</b>	SECOND PRODUCT SPILLED (IF APPLICABLE)	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES	U.N. NUMBER		
			<b>N/A</b>		
<b>I</b>	SPILL SOURCE <b>Kitchen pipe</b>	SPILL CAUSE <b>Broken Pipe</b>	AREA OF CONTAMINATION IN SQUARE METRES <b>10</b>		
	FACTORS AFFECTING SPILL OR RECOVERY <b>None</b>	DESCRIBE ANY ASSISTANCE REQUIRED <b>None</b>	HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT <b>None</b>		
<b>K</b>	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS				
	<p><b>During a walk around outside the kitchen area, staff noticed that a pipe had cracked and released 2m3 of greywater on the ground. Site service maintenance team inspected the area immediately and stopped the spill.</b></p> <p><b>No water bodies were impacted with the closest water body (G2 lake) approximately 300m away.</b></p> <p><b>Pursuant to Part H, Section 4c of the Water License, a follow-up report will be issued after a closer investigation is completed.</b></p> <p><b>Location of spill: 63 2'25"N 92 13'36"W</b></p> <p><b>Contact information: Matt Gillman 819-759-3555 extension 4603212</b></p>				
<b>L</b>	REPORTED TO SPILL LINE BY <b>Randy Schwandt</b>	POSITION <b>Env. Coordinator</b>	EMPLOYER <b>AEM</b>	LOCATION CALLING FROM <b>Meliadine</b>	TELEPHONE <b>819-759-3555</b>
	ANY ALTERNATE CONTACT <b>Eric Giroux</b>	POSITION <b>Env. Superintendent</b>	EMPLOYER <b>AEM</b>	ALTERNATE CONTACT LOCATION <b>Meliadine</b>	ALTERNATE TELEPHONE <b>418.559.2861</b>
<b>REPORT LINE USE ONLY</b>					
<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					



# Follow Up Report: #2022073

## March 9, 2022,

### 2000L Kitchen Grey Water

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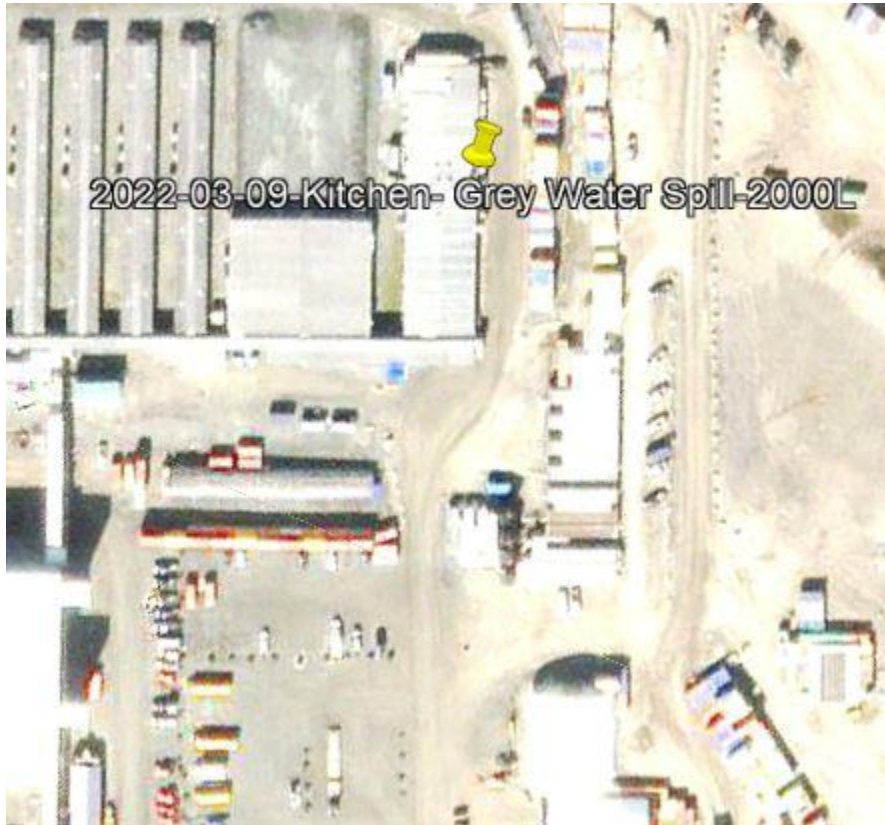
The following information refers to a spill reported by Agnico Eagle Mines Limited on March 9, 2022, and is being provided in accordance with:

- the Nunavut Water Board Licence 2AM-MEL1631 Water Licence, Part H, item 8c.

#### **Description of Incident:**

On March 9<sup>th</sup>, 2022, at approximately 15:00 an employee walking around the main camp kitchen discovered a spill of approximately 2000L of grey water underneath the kitchen.

The coordinates of the spill are 63° 2'25"N, 92° 13'36"W. No water bodies were impacted by this spill. The closest water body (G2) is approximately 300 m north.



**Figure 1:** Location of the March 9th, 2022, grey water spill

#### **Spill Response & Cleanup:**

Water supply from the kitchen was cut off as soon as the spill was noticed. The topography of the area and the freezing conditions prevented the grey water from migrating off-site.

Accessible spilled material was cleaned up however health and safety considerations limited equipment and personnel access (the space is confined due to the accumulation of snow) to the spill location. Additional cleanup of the area will be completed during the spring/summer months. The first layer of gravel will be scrapped.

Astro foil was installed as a temporary fix around the pipe on March 9<sup>th</sup>, 2022 until the rigid pipe insulation could be installed. The plumbing installation of the rigid pipe installation started on March 9<sup>th</sup>, 2022 and finished on March 11<sup>th</sup>, 2022.



**Figure 2:** Spill clean-up area

#### **Cause of Incident and Corrective Measures:**

It was determined that the difference in temperature between the warm grey water and the cold PVC plumbing caused the plumbing to expand and crack.

The repair on the grey water pipe started immediately on March 9<sup>th</sup>, 2022 and finished on March 11<sup>th</sup>, 2022.

To further mitigate the chance of similar incidents reoccurring, skirting will be installed around the kitchen building which will reduce the amount of wind blowing under the building and promote heat circulation, keeping drainage plumbing at a warmer and more stable temperature.



# 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>03-11-2022</b>	REPORT TIME <b>17:00</b>	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR		REPORT NUMBER  _____
	OCCURRENCE DATE: MONTH – DAY – YEAR <b>03-10-2022</b>	OCCURRENCE TIME <b>21:20</b>	<input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT		
<b>C</b>	LAND USE PERMIT NUMBER (IF APPLICABLE) <b>KVPL11D01</b>	WATER LICENCE NUMBER (IF APPLICABLE) <b>2AM-MEL1631</b>			
	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION <b>Meliadine Gold Project</b>		REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN		
<b>E</b>	LATITUDE DEGREES <b>63</b> MINUTES <b>2</b> SECONDS <b>21</b>	LONGITUDE DEGREES <b>92</b> MINUTES <b>13</b> SECONDS <b>41</b>			
	RESPONSIBLE PARTY OR VESSEL NAME <b>Agnico Eagle Mines Ltd.</b>	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION <b>Meliadine, Rankin Inlet, Nunavut, X0C 0G0</b>			
<b>G</b>	ANY CONTRACTOR INVOLVED <b>N/A</b>	CONTRACTOR ADDRESS OR OFFICE LOCATION <b>N/A</b>			
	PRODUCT SPILLED <b>Thickener Water</b>	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES <b>10m3</b>	U.N. NUMBER <b>N/A</b>		
<b>H</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>		
	SPILL SOURCE <b>Process Plant</b>	SPILL CAUSE <b>Overflow</b>	AREA OF CONTAMINATION IN SQUARE METRES		
<b>J</b>	FACTORS AFFECTING SPILL OR RECOVERY <b>None</b>	DESCRIBE ANY ASSISTANCE REQUIRED <b>None</b>	HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT <b>None</b>		
	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS <b>On March 10th, 2022, flocculation problems at the thickener overflow at the mill caused a release of process thickener water to be released on the ground outside of the process plant.</b>  <b>No water bodies were impacted with the closest water body (G2 lake) approximately 600 m away.</b>  <b>Pursuant to Part H, Section 8c of the Water License, a follow-up report will be issued after a closer investigation is completed.</b> <b>Location of spill: 63 2'11.5"N 92 13'35.3"W</b> <b>Contact information: Sara Savoie 819-759-3555 extension 4603212</b>				
<b>L</b>	REPORTED TO SPILL LINE BY <b>Randy Schwandt</b>	POSITION <b>Env. Coordinator</b>	EMPLOYER <b>AEM</b>	LOCATION CALLING FROM <b>Meliadine</b>	TELEPHONE <b>819-759-3555</b>
	ANY ALTERNATE CONTACT <b>Eric Giroux</b>	POSITION <b>Env. Superintendent</b>	EMPLOYER <b>AEM</b>	ALTERNATE CONTACT LOCATION <b>Meliadine</b>	ALTERNATE TELEPHONE <b>418-559-2861</b>
<b>REPORT LINE USE ONLY</b>					
<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					

## Follow Up Report: #2022076

### March 10<sup>th</sup>, 2022 – Thickener Process Water Spill

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The following information relates to spill 2022076 reported by Agnico Eagle Mines Limited on March 11<sup>h</sup>, 2022, and is being provided in accordance with:

- the Nunavut Water Board License 2AM-MEL1631 Water Licence, part H, item 8c.

#### Description of Incident

On March 10<sup>th</sup>, 2022, there was an overflow of approximately 10 m<sup>3</sup> of thickener process water on the industrial pad, outside the process plant.

The coordinates of this spill are 63 2'11.5"N, 92 13'35.3"W. No water bodies were impacted by this spill; the closest water body (G2) is approximately 600 m northwest.



**Figure 1:** Location of the March 10<sup>th</sup>, 2022, thickener process water spill.



**Figure 2:** Thickener process water spill clean up

### **Spill Response & Cleanup**

To immediately stop the spill; the thickener process water was directed to the carbon in leach (CIL) tanks. The filter presses were then stopped to reduce any additional water going to the feed wheel of the grinding thickener, ending the overflow.

The topography of the area and the freezing conditions caused the thickener process water to pool and freeze on the west side of process road. A loader and haul truck were used to clean up the material. All material collected was placed in the process plants sump where it will be returned to the process plant system.

### **Cause of Incident and Corrective Measures**

The investigation into the cause of the release identified a high-water level occurrence in the thickener tank which entrained ice down the thickener tank. Additionally, it is suspected there was vacuum effect on the suction of the pipe from the thickener launder to the process water tank due to the failing ice.

This led to a back flow build-up in the pipes, as the upstream clarifier feed box and slurry flow from thickener recirculation were still active. As the thickener process water filled the tank, an overflow of approximately 10m<sup>3</sup> occurred.

As there were two other thickener process water spills in March 2022 the corrective measures discussed in this section will be similar to those included in the March 6<sup>th</sup> (#2022067) and March 11<sup>th</sup> (#2022075) 2022 thickener process water spill follow-up reports.

The following corrective measures are being implemented:





- Visually inspecting the top of the grinding thickener/clarifier feedbox every 2 hours and clearing snow if safe (ongoing).
- Ensuring there is adequate water flow from the clarifier feedbox to the grinding thickener by removing some baffle on the clarifier feedbox (completed).
- Preventatively cleaning the grinding thickener overflow launder to regain a full capacity.
- Installing an air vent system on the grinding thickener overflow pipe to the process water tank.
- Pouring a concrete secondary containment.
- Installing an additional thickener tank which will split the flow going into the grinding thickener.



**Randy Schwandt** | Environment Coordinator

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Canada X0C 0G0

[agnicoeagle.com](http://agnicoeagle.com)    



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>03-11-2022</b>	REPORT TIME <b>18:00</b>	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR		REPORT NUMBER  _____
	OCCURRENCE DATE: MONTH – DAY – YEAR <b>03-11-2022</b>	OCCURRENCE TIME <b>8:30</b>	<input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT		
<b>C</b>	LAND USE PERMIT NUMBER (IF APPLICABLE) <b>KVPL11D01</b>	WATER LICENCE NUMBER (IF APPLICABLE) <b>2AM-MEL1631</b>			
	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION <b>Meliadine Gold Project</b>		REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN		
<b>E</b>	LATITUDE DEGREES <b>63</b> MINUTES <b>2</b> SECONDS <b>21</b>	LONGITUDE DEGREES <b>92</b> MINUTES <b>13</b> SECONDS <b>41</b>			
	RESPONSIBLE PARTY OR VESSEL NAME <b>Agnico Eagle Mines Ltd.</b>	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION <b>Meliadine, Rankin Inlet, Nunavut, X0C 0G0</b>			
<b>G</b>	ANY CONTRACTOR INVOLVED <b>N/A</b>	CONTRACTOR ADDRESS OR OFFICE LOCATION <b>N/A</b>			
	PRODUCT SPILLED <b>Thickener Water</b>	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES <b>5m3</b>	U.N. NUMBER <b>N/A</b>		
<b>H</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>		
	SPILL SOURCE <b>Process Plant</b>	SPILL CAUSE <b>Overflow</b>	AREA OF CONTAMINATION IN SQUARE METRES <b>2000</b>		
<b>J</b>	FACTORS AFFECTING SPILL OR RECOVERY <b>None</b>	DESCRIBE ANY ASSISTANCE REQUIRED <b>None</b>	HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT <b>None</b>		
	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS <b>On March 11th, 2022, the Process Plant Grinding Thickener O/F Collection pipe was obstructed by ice that fell from the top of the thickener tank which lead to a back flow build-up as the upstream process (Clarifier Feed Box) was still sending water to the thickener. The Grinding Thickener collection launder over flowed and released process water to the ground outside of process plant.</b>				
<b>K</b>	<b>No water bodies were impacted with the closest water body (G2 lake) approximately 600 m away.</b>				
	<b>Pursuant to Part H, Section 8c of the Water License, a follow-up report will be issued after a closer investigation is completed. Location of spill: 63 2'11.5"N 92 13'35.3"W Contact information: Sara Savoie 819-759-3555 extension 4603212</b>				
<b>L</b>	REPORTED TO SPILL LINE BY <b>Randy Schwandt</b>	POSITION <b>Env. Coordinator</b>	EMPLOYER <b>AEM</b>	LOCATION CALLING FROM <b>Meliadine</b>	TELEPHONE <b>819-759-3555</b>
	ANY ALTERNATE CONTACT <b>Eric Giroux</b>	POSITION <b>Env. Superintendent</b>	EMPLOYER <b>AEM</b>	ALTERNATE CONTACT LOCATION <b>Meliadine</b>	ALTERNATE TELEPHONE <b>418-559-2861</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					

## Follow Up Report: #2022075

### March 11<sup>th</sup>, 2022 – Thickener Process Water Spill

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The following information relates to spill 2022075 reported by Agnico Eagle Mines Limited on March 11<sup>th</sup>, 2022, and is being provided in accordance with:

- the Nunavut Water Board License 2AM-MEL1631 Water License, part H, item 8c.

#### Description of Incident

On March 11<sup>th</sup>, 2022, there was an overflow of approximately 5 m<sup>3</sup> of thickener process water on the industrial pad, outside the process plant.

The coordinates of this spill are 63 2'11.5"N, 92 13'35.3"W. No water bodies were impacted by this spill; the closest water body (G2) is approximately 600 m northwest.



**Figure 1:** Location of the March 6<sup>th</sup>, 2022, thickener process water spill.





**Figure 2:** Thickener process water spill clean up area

### **Spill Response & Cleanup**

The topography of the area and the freezing conditions caused the thickener process water to pool and freeze on the west side of process road. A loader and haul truck were used to clean up the material. All material collected was placed in the process plants sump where it will be returned to the process plant system. Additionally, the overhead walkway on the top of the thickener tank was cleared of ice.



**Figure 3:** Pre-clean up of the overhead ice on the thickener tank (caused by humidity)



**Figure 4:** Post-clean up of the overhead ice on the thickener tank

### **Cause of Incident and Corrective Measures**

The investigation into the cause of the release identified ice build at the overflow discharge pipe. The ice buildup resulted in a blockage of the discharge causing the thickener tank to overflow. The following corrective measures are being implemented:

- Visually inspecting the top of the grinding thickener/clarifier feedbox every 2 hours and clearing snow if safe (See figure 3 and 4).
- Ensuring there is adequate water flow from the clarifier feedbox to the grinding thickener by removing some baffle on the clarifier feedbox (completed).
- Preventatively cleaning the grinding thickener overflow launder to regain a full capacity.
- Installing air vent system on the grinding thickener overflow pipe to the process water tank.
- Pouring a concrete secondary containment.
- Installing an additional thickener tank which will split the flow going into the grinding thickener.



**Randy Schwandt** | Environment Coordinator

[randy.schwandt@agnicoeagle.com](mailto:randy.schwandt@agnicoeagle.com) | Direct 819.759.3555 x4603996 |

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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>03-18-2022</b>	REPORT TIME <b>15:15</b>	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT	<b>REPORT NUMBER</b>  _____
<b>B</b>	OCCURRENCE DATE: MONTH – DAY – YEAR <b>03-17-2022</b>	OCCURRENCE TIME <b>16:15</b>		
<b>C</b>	LAND USE PERMIT NUMBER (IF APPLICABLE) <b>KVPL11D01</b>	WATER LICENCE NUMBER (IF APPLICABLE) <b>2BB-MEL1424</b>		
<b>D</b>	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION <b>Meliadine Gold Project</b>	REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN		
<b>E</b>	LATITUDE DEGREES <b>63</b> MINUTES <b>2</b> SECONDS <b>21</b>	LONGITUDE DEGREES <b>92</b> MINUTES <b>13</b> SECONDS <b>41</b>		
<b>F</b>	RESPONSIBLE PARTY OR VESSEL NAME <b>Agnico Eagle Mines Ltd.</b>	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION <b>Meliadine, Rankin Inlet, Nunavut, X0C 0G0</b>		
<b>G</b>	ANY CONTRACTOR INVOLVED <b>Orbit Garant</b>	CONTRACTOR ADDRESS OR OFFICE LOCATION <b>Val d'Or, Quebec</b>		
<b>H</b>	PRODUCT SPILLED <b>Drill Cuttings</b>	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES <b>50 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>	SPILL SOURCE <b>Settling Tank</b>	SPILL CAUSE <b>Unknown</b>	AREA OF CONTAMINATION IN SQUARE METRES <b>1</b>	
<b>J</b>	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

**On March 17, 2022, during the emptying of the drill cutting settling tank on Orbit Drill #3 located on water body A8, 50 L of drill cuttings were inadvertently released to the ice surface. The workers immediately responded with hand shovels to clean up the cuttings. No cuttings entered the water body as they were contained on the surface of the ice cover.**

**Pursuant to Part H, Section 4c of the Water License, a follow-up report will be issued after a closer investigation is completed.**

**Location of spill: 63 0'46"N 92 12'26"W**

**Contact information: Matt Gillman 819-759-3555 extension 4603212**

<b>L</b>	REPORTED TO SPILL LINE BY <b>Matt Gillman</b>	POSITION <b>Water Gen. Supervisor</b>	EMPLOYER <b>AEM</b>	LOCATION CALLING FROM <b>Meliadine</b>	TELEPHONE <b>819-759-3555</b>
<b>M</b>	ANY ALTERNATE CONTACT <b>Eric Giroux</b>	POSITION <b>Env. Superintendent</b>	EMPLOYER <b>AEM</b>	ALTERNATE CONTACT LOCATION <b>Meliadine</b>	ALTERNATE TELEPHONE <b>418-599-2861</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
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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					

# Follow Up Report: #2022084

## March 18, 2022,

### 15L Drill Cuttings on Water Body A8 – Drill Rig#3

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The following information relates to spill #2022084 reported by Agnico Eagle Mines Limited on March 18<sup>th</sup>, 2022, and is being provided in accordance with:

- the Nunavut Water Board License 2BB-MEL1424 Water Licence, part H, item 4c
- the Fisheries Act subsection 38(7)

#### Description of Incident:

On March 18<sup>th</sup>, 2022, at approximately 16:15, an environment technician was conducting an inspection of the surface drill areas, operated by AEM's contractor Orbit Garant on waterbody A8. During the inspection, drill cuttings were observed near the drill cuttings vacuum pump at drill rig 3.

On the initial spill report sent, the quantity reported under section H, indicated 50 L, however after further investigation it was determined that the quantity of material spilled was of approximately 15 L as communicated to CIRNAC on April 11<sup>th</sup> and April 12<sup>th</sup> 2022.

The coordinates of the spill are: 63° 0' 46" N, 92°12' 26"W, which is on waterbody A8.



**Figure 1: Incident Location**

#### Spill Response & Cleanup:

The operator of the drill cutting vacuum pump was notified that an outlet valve was open and was releasing drill cuttings on the surface of waterbody A8.

The outlet valve was closed immediately, eliminating the source of the spill. Orbit Garant employees promptly started the spill cleanup. The contaminated ice and snow were disposed at the contaminated snow cell where it will be stored until snowmelt, at which point the contaminated water will be transferred to the Landfarm for treatment, with other existing material accumulated during winter and discharged to Containment Pond 1 (CP1) as per the Water Management Plan and the Landfarm Management Plan.



**Figure 2: Spill Location- Post-clean up**

### **Cause of Incident and Corrective Measures**

The cause of the release was identified as human error as an outlet valve was not in the closed position. To prevent a similar situation from occurring Orbit Garant is developing a Drill Cutting Vacuum Pump Operations Procedure to ensure proper operation of the drill cuttings vacuum pump. Additionally, it is now mandatory to use a spill containment under the outlet valves during drill cutting vacuuming operations. A spill containment is also available with the drill cutting vacuum pump for use in case spill containments are not available at the drill site.



**Figure 3: Secondary containment is now available with the drill cutting vacuum pump**



**Brett Fairbairn** | Environment Coordinator

brett.fairbairn@agnicoeagle.com | Direct 819.759.3555 x4603996 |

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Canada X0C 0G0

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# 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>03-21-2022</b>	REPORT TIME <b>9:45</b>	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT	REPORT NUMBER _____
<b>B</b>	OCCURRENCE DATE: MONTH – DAY – YEAR <b>03-20-2022</b>	OCCURRENCE TIME <b>10:30</b>		
<b>C</b>	LAND USE PERMIT NUMBER (IF APPLICABLE) <b>KVPL11D01</b>	WATER LICENCE NUMBER (IF APPLICABLE) <b>2BB-MEL1424</b>		
<b>D</b>	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION <b>Meliadine Gold Project</b>	REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN		
<b>E</b>	LATITUDE DEGREES <b>63</b> MINUTES <b>2</b> SECONDS <b>21</b>	LONGITUDE DEGREES <b>92</b> MINUTES <b>13</b> SECONDS <b>41</b>		
<b>F</b>	RESPONSIBLE PARTY OR VESSEL NAME <b>Agnico Eagle Mines Ltd.</b>	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION <b>Meliadine, Rankin Inlet, Nunavut, X0C 0G0</b>		
<b>G</b>	ANY CONTRACTOR INVOLVED <b>Orbit Garant</b>	CONTRACTOR ADDRESS OR OFFICE LOCATION <b>Val d'Or, Quebec</b>		
<b>H</b>	PRODUCT SPILLED <b>Diesel fuel</b>	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES <b>10 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>	SPILL SOURCE <b>Refueling hose</b>	SPILL CAUSE <b>To be determined</b>	AREA OF CONTAMINATION IN SQUARE METRES <b>15</b>	
<b>J</b>	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

**On March 20th 2022 during an environmental inspection of the orbit drill rigs located on Lake A8, a worker identified a 10 L diesel spill underneath the heating seacan at borehole M-22-3401. The drill was immediately shut down and cleanup of the spill was initiated. No diesel entered the water body as it was contained on the surface of the ice cover.**

**Pursuant to Part H, Section 4c of the Water License, a follow-up report will be issued after a closer investigation is completed.**

**Location of spill: 63 0'41"N 92 12'20"W**

**Contact information: Brett Fairbairn 819-759-3555 extension 460-3996**

**Matt Gillman 819-759-3555 extension 460-3212**

<b>L</b>	REPORTED TO SPILL LINE BY <b>Brett Fairbairn</b>	POSITION <b>Env. Coordinator</b>	EMPLOYER <b>AEM</b>	LOCATION CALLING FROM <b>Meliadine</b>	TELEPHONE <b>819-759-3555</b>
<b>M</b>	ANY ALTERNATE CONTACT <b>Matt Gillman</b>	POSITION <b>Env. Gen. Supervisor</b>	EMPLOYER <b>AEM</b>	ALTERNATE CONTACT LOCATION <b>Meliadine</b>	ALTERNATE TELEPHONE <b>819-759-3555</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					

# Follow Up Report: #2022089

## March 20, 2022,

### 10L Diesel Fuel on Water Body A8 – Rig SH-102

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The following information refers to a spill reported by Agnico Eagle Mines Limited on March 20<sup>th</sup>, 2022, and is being provided in accordance with:

- the Nunavut Water Board License 2BB-MEL1424 Water License, part H, item 4c
- the Fisheries Act subsection 38(7)

#### Description of Incident:

On March 20<sup>th</sup>, 2022, at approximately 10:30, the Environment Department was conducting an inspection of the surface drill areas, operated by AEM's contractor Orbit Garant. During the inspection 10 L of diesel fuel was observed underneath the heating sea can at borehole M-22-3401 on the surface of the lake ice.

The coordinates of the spill are: 63 0'41.95"N 92 12'20.84"W, which is on waterbody A8.



**Figure 1: Incident Location**

#### Spill Response & Cleanup:

The drill was stopped and moved to allow a loader to remove the remaining contaminated material. The Environment Department was present during this time to ensure environmental compliance with cleanup methods as per the Spill Contingency Plan.

The contaminated ice and snow were disposed at the Snow Cell where it will be stored until snowmelt, at which point the contaminated water will be transferred for treatment at the oil-water separator and discharged to Containment Pond as per the Water Management Plan and the Landfarm Management Plan.

It is expected that minimal impacts occurred to the waterbody as the spill occurred on the lake ice, facilitating the recovery of the contaminated material – the contaminated ice was scrapped off.

A composite sample was collected on the ice surface of waterbody A8 on March 23<sup>rd</sup>, 2022, in the incident vicinity and was analyzed for the following parameters: BTEX, F1-F4 Hydrocarbons, Oil & Grease, total metals, Conductivity, pH, and Total Suspended Solids (TSS). The certificate of analysis is attached and identified as Appendix A; results showed concentrations below all Licence criteria for effluent release.



**Figure 3: Spill location after drill removal and completion of cleanup**

### **Cause of Incident and Corrective Measures:**

The cause of the spill was identified to be human error as it is suspected the fuel hose was dropped during refueling operations at the heated sea can.

As soon as the spill was noticed by the Environment Department all drills working on waterbodies were immediately shut down and a toolbox meeting initiated with the drill crews. The meeting reviewed spill reporting requirements, spill prevention measures and the importance of inspecting the drills for leaks and spills. During the toolbox meeting significant emphasis was placed on ensuring spill containments are in place during fuel transfer operations, the drill foreman reinforced this message with all the drill crews.

Preventive inspections continue to be completed by the Environment Department, Geology Department and the drill crews to identify potential concerns.



**Brett Fairbairn** | Environment Coordinator

brett.fairbairn@agnicoeagle.com | Direct 819.759.3555 x4603996 |

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Canada X0C 0G0

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## **Appendix A – Analytical Results**



Bureau Veritas - Rush Results

Your P.O. #: OL-1129375  
Site Location: MELIADINE  
Your C.O.C. #: n/a

**Attention: Reporting**

Agnico-Eagle  
Meliadine  
Meliadine Mine  
Rankin Inlet, NU  
CANADA X0C 0G0

Report Date: 2022/04/01  
Report #: R7068642  
Version: 1 - Partial

**CERTIFICATE OF ANALYSIS – PARTIAL RESULTS**

**BUREAU VERITAS JOB #: C284254**

**Received: 2022/03/30, 15:11**

Sample Matrix: Surface Water  
# Samples Received: 1

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
Conductivity (1)	1	N/A	2022/03/31	CAM SOP-00414	SM 23 2510 m
Petroleum Hydro. CCME F1 & BTEX in Water (1)	1	N/A	2022/03/31	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Water (1, 2)	1	2022/03/31	2022/03/31	CAM SOP-00316	CCME PHC-CWS m
Total Oil and Grease (1)	1	2022/03/31	2022/03/31	CAM SOP-00326	EPA1664B m,SM5520B m
pH (1)	1	2022/03/31	2022/03/31	CAM SOP-00413	SM 4500H+ B m
Low Level Total Suspended Solids (1)	1	2022/03/31	2022/03/31	CAM SOP-00428	SM 23 2540D m

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

\* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Bureau Veritas Mississauga, 6740 Campobello Rd , Mississauga, ON, L5N 2L8

(2) All CCME PHC results met required criteria unless otherwise stated in the report. The CWS PHC methods employed by Bureau Veritas conform to all prescribed elements of the reference method and performance based elements have been validated. All modifications have been validated and proven equivalent following "Alberta Environment's Interpretation of the Reference Method for the Canada-Wide Standard for Petroleum Hydrocarbons in Soil Validation of Performance-Based Alternative Methods September 2003". Documentation is available upon request. Modifications from Reference Method for the Canada-wide Standard for Petroleum Hydrocarbons in Soil-Tier 1 Method: F2/F3/F4 data reported using validated cold solvent extraction instead of Soxhlet extraction.



Bureau Veritas - Partial/Rush Results

Your P.O. #: OL-1129375  
Site Location: MELIADINE  
Your C.O.C. #: n/a

**Attention: Reporting**

Agnico-Eagle  
Meliadine  
Meliadine Mine  
Rankin Inlet, NU  
CANADA X0C 0G0

**Report Date: 2022/04/01**  
Report #: R7068642  
Version: 1 - Partial

**CERTIFICATE OF ANALYSIS – PARTIAL RESULTS**

**BUREAU VERITAS JOB #: C284254**

**Received: 2022/03/30, 15:11**

Encryption Key

Katherine Szozda  
Project Manager  
01 Apr 2022 12:56:03

Please direct all questions regarding this Certificate of Analysis to your Project Manager.  
Katherine Szozda, Project Manager  
Email: Katherine.Szozda@bureauveritas.com  
Phone# (613)274-0573 Ext:7063633

=====

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports.  
For Service Group specific validation please refer to the Validation Signature Page.



BUREAU  
VERITAS

Bureau Veritas Job #: C284254  
Report Date: 2022/04/01

Agnico-Eagle  
Site Location: MELIADINE  
Your P.O. #: OL-1129375  
Sampler Initials: DM

### RESULTS OF ANALYSES OF SURFACE WATER

<b>Bureau Veritas ID</b>		SFT399		
<b>Sampling Date</b>		2022/03/23 10:00		
<b>COC Number</b>		n/a		
	<b>UNITS</b>	<b>M-22-3401</b>	<b>RDL</b>	<b>QC Batch</b>
<b>Inorganics</b>				
Conductivity	umho/cm	930	1.0	7910834
pH	pH	7.93		7910839
Total Suspended Solids	mg/L	110	1	7914389
<b>Petroleum Hydrocarbons</b>				
Total Oil & Grease	mg/L	0.80	0.50	7913777
RDL = Reportable Detection Limit QC Batch = Quality Control Batch				

Bureau Veritas - Partial/Rush Results



BUREAU  
VERITAS

Bureau Veritas Job #: C284254  
Report Date: 2022/04/01

Agnico-Eagle  
Site Location: MELIADINE  
Your P.O. #: OL-1129375  
Sampler Initials: DM

### PETROLEUM HYDROCARBONS (CCME)

<b>Bureau Veritas ID</b>		SFT399		
<b>Sampling Date</b>		2022/03/23 10:00		
<b>COC Number</b>		n/a		
	<b>UNITS</b>	<b>M-22-3401</b>	<b>RDL</b>	<b>QC Batch</b>
<b>BTEX &amp; F1 Hydrocarbons</b>				
Benzene	ug/L	<0.20	0.20	7914203
Toluene	ug/L	<0.20	0.20	7914203
Ethylbenzene	ug/L	<0.20	0.20	7914203
o-Xylene	ug/L	<0.20	0.20	7914203
p+m-Xylene	ug/L	<0.40	0.40	7914203
Total Xylenes	ug/L	<0.40	0.40	7914203
F1 (C6-C10)	ug/L	<25	25	7914203
F1 (C6-C10) - BTEX	ug/L	<25	25	7914203
<b>F2-F4 Hydrocarbons</b>				
F2 (C10-C16 Hydrocarbons)	ug/L	240	100	7914202
F3 (C16-C34 Hydrocarbons)	ug/L	390	200	7914202
F4 (C34-C50 Hydrocarbons)	ug/L	<200	200	7914202
Reached Baseline at C50	ug/L	Yes		7914202
<b>Surrogate Recovery (%)</b>				
1,4-Difluorobenzene	%	111		7914203
4-Bromofluorobenzene	%	88		7914203
D10-o-Xylene	%	97		7914203
D4-1,2-Dichloroethane	%	107		7914203
o-Terphenyl	%	97		7914202
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				

Bureau Veritas - Partial/Rush Results



BUREAU  
VERITAS

Bureau Veritas Job #: C284254  
Report Date: 2022/04/01

Agnico-Eagle  
Site Location: MELIADINE  
Your P.O. #: OL-1129375  
Sampler Initials: DM

### GENERAL COMMENTS

Results relate only to the items tested.

Bureau Veritas - Partial/Rush Results



BUREAU VERITAS

Bureau Veritas Job #: C284254  
Report Date: 2022/04/01

Agnico-Eagle  
Site Location: MELIADINE  
Your P.O. #: OL-1129375  
Sampler Initials: DM

### QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7910834	SAU	Spiked Blank	Conductivity	2022/03/31		101	%	85 - 115
7910834	SAU	Method Blank	Conductivity	2022/03/31	<1.0		umho/cm	
7910834	SAU	RPD	Conductivity	2022/03/31	0.68		%	25
7910839	SAU	Spiked Blank	pH	2022/03/31		102	%	98 - 103
7910839	SAU	RPD	pH	2022/03/31	1.0		%	N/A
7913777	MPZ	Spiked Blank	Total Oil & Grease	2022/03/31		100	%	85 - 115
7913777	MPZ	RPD	Total Oil & Grease	2022/03/31	1.5		%	25
7913777	MPZ	Method Blank	Total Oil & Grease	2022/03/31	<0.50		mg/L	
7914202	JJE	Matrix Spike [SFT399-04]	o-Terphenyl	2022/03/31		104	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2022/03/31		110	%	60 - 130
			F3 (C16-C34 Hydrocarbons)	2022/03/31		109	%	60 - 130
			F4 (C34-C50 Hydrocarbons)	2022/03/31		107	%	60 - 130
7914202	JJE	Spiked Blank	o-Terphenyl	2022/03/31		100	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2022/03/31		107	%	60 - 130
			F3 (C16-C34 Hydrocarbons)	2022/03/31		107	%	60 - 130
			F4 (C34-C50 Hydrocarbons)	2022/03/31		105	%	60 - 130
7914202	JJE	RPD	F2 (C10-C16 Hydrocarbons)	2022/03/31	3.4		%	30
			F3 (C16-C34 Hydrocarbons)	2022/03/31	3.2		%	30
			F4 (C34-C50 Hydrocarbons)	2022/03/31	4.1		%	30
7914202	JJE	Method Blank	o-Terphenyl	2022/03/31		98	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2022/03/31	<100		ug/L	
			F3 (C16-C34 Hydrocarbons)	2022/03/31	<200		ug/L	
			F4 (C34-C50 Hydrocarbons)	2022/03/31	<200		ug/L	
7914203	RGA	Matrix Spike [SFT399-05]	1,4-Difluorobenzene	2022/03/31		100	%	70 - 130
			4-Bromofluorobenzene	2022/03/31		102	%	70 - 130
			D10-o-Xylene	2022/03/31		99	%	70 - 130
			D4-1,2-Dichloroethane	2022/03/31		97	%	70 - 130
			Benzene	2022/03/31		100	%	50 - 140
			Toluene	2022/03/31		103	%	50 - 140
			Ethylbenzene	2022/03/31		109	%	50 - 140
			o-Xylene	2022/03/31		106	%	50 - 140
			p+m-Xylene	2022/03/31		104	%	50 - 140
			F1 (C6-C10)	2022/03/31		93	%	60 - 140
7914203	RGA	Spiked Blank	1,4-Difluorobenzene	2022/03/31		102	%	70 - 130
			4-Bromofluorobenzene	2022/03/31		97	%	70 - 130
			D10-o-Xylene	2022/03/31		100	%	70 - 130
			D4-1,2-Dichloroethane	2022/03/31		94	%	70 - 130
			Benzene	2022/03/31		102	%	50 - 140
			Toluene	2022/03/31		105	%	50 - 140
			Ethylbenzene	2022/03/31		112	%	50 - 140
			o-Xylene	2022/03/31		109	%	50 - 140
			p+m-Xylene	2022/03/31		108	%	50 - 140
			F1 (C6-C10)	2022/03/31		94	%	60 - 140
7914203	RGA	Method Blank	1,4-Difluorobenzene	2022/03/31		117	%	70 - 130
			4-Bromofluorobenzene	2022/03/31		84	%	70 - 130
			D10-o-Xylene	2022/03/31		96	%	70 - 130
			D4-1,2-Dichloroethane	2022/03/31		106	%	70 - 130
			Benzene	2022/03/31	<0.20		ug/L	
			Toluene	2022/03/31	<0.20		ug/L	
			Ethylbenzene	2022/03/31	<0.20		ug/L	
			o-Xylene	2022/03/31	<0.20		ug/L	
			p+m-Xylene	2022/03/31	<0.40		ug/L	
			Total Xylenes	2022/03/31	<0.40		ug/L	

Bureau Veritas - Partial/Rush Results



BUREAU  
VERITAS

Bureau Veritas Job #: C284254  
Report Date: 2022/04/01

Agnico-Eagle  
Site Location: MELIADINE  
Your P.O. #: OL-1129375  
Sampler Initials: DM

### QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7914203	RGA	RPD [SFT399-05]	F1 (C6-C10)	2022/03/31	<25		ug/L	
			F1 (C6-C10) - BTEX	2022/03/31	<25		ug/L	
			Benzene	2022/03/31	NC		%	30
			Toluene	2022/03/31	NC		%	30
			Ethylbenzene	2022/03/31	NC		%	30
			o-Xylene	2022/03/31	NC		%	30
			p+m-Xylene	2022/03/31	NC		%	30
			Total Xylenes	2022/03/31	NC		%	30
			F1 (C6-C10)	2022/03/31	NC		%	30
			F1 (C6-C10) - BTEX	2022/03/31	NC		%	30
7914389	KCB	QC Standard	Total Suspended Solids	2022/03/31		96	%	85 - 115
7914389	KCB	Method Blank	Total Suspended Solids	2022/03/31	<1		mg/L	
7914389	KCB	RPD	Total Suspended Solids	2022/03/31	1.4		%	25

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

Bureau Veritas - Partial/Rush Results





BUREAU  
VERITAS

Bureau Veritas Job #: C284254  
Report Date: 2022/04/01

Agnico-Eagle  
Site Location: MELIADINE  
Your P.O. #: OL-1129375  
Sampler Initials: DM

### VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

*Eva Pranjić*

Ewa Pranjić, M.Sc., C.Chem, Scientific Specialist

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Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Bureau Veritas - Partial/Rush Results



# 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>03-25-2022</b>	REPORT TIME <b>13:50 PM</b>	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT	REPORT NUMBER _____
<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>KVPL11D01</b>	WATER LICENCE NUMBER (IF APPLICABLE) <b>2AM-MEL-1631</b>		
<b>D</b>	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION <b>Meliadine Gold Project</b>	REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN		
<b>E</b>	LATITUDE DEGREES <b>63</b> MINUTES <b>2</b> SECONDS <b>21</b>	LONGITUDE DEGREES <b>92</b> MINUTES <b>13</b> SECONDS <b>41</b>		
<b>F</b>	RESPONSIBLE PARTY OR VESSEL NAME <b>Agnico Eagle Mines Ltd.</b>	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION <b>Meliadine, Rankin Inlet, Nunavut, X0C 0G0</b>		
<b>G</b>	ANY CONTRACTOR INVOLVED <b>Dyno Nobel</b>	CONTRACTOR ADDRESS OR OFFICE LOCATION <b>Calgary, Alberta</b>		
<b>H</b>	PRODUCT SPILLED <b>Emulsion</b>	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES <b>2 kg</b>	U.N. NUMBER <b>0332</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>Emulsion Plant</b>	SPILL CAUSE <b>To be determined</b>	AREA OF CONTAMINATION IN SQUARE METRES <b>1</b>	
<b>J</b>	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>	

<b>K</b>	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS <b>While conducting routine snow removal operations on the emulsion pad on March 24th 2022, the loader operator noticed spilled emulsion on the surface of the snow. The contaminated snow is being scooped out and placed in the emulsion plant garage for thawing after which the contaminated material will be placed in totes. The location of the spill was 63° 2'38.33"N 92°15'24.59"W. No water bodies were impacted by the spill, the nearest water-body (G9) is approximately 365 meters away.</b>  <b>Pursuant to Part H, Item 8c of the water license, a follow up report will be issued after closer investigation is completed.</b> <b>Contact Information: Sara Savoie 819-759-3555 x4603212</b>			
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<b>L</b>	REPORTED TO SPILL LINE BY <b>Sara Savoie</b>	POSITION <b>Env. Gen. Supervisor</b>	EMPLOYER <b>AEM</b>	LOCATION CALLING FROM <b>Meliadine</b>	TELEPHONE <b>819-759-3555</b>
<b>M</b>	ANY ALTERNATE CONTACT <b>Eric Giroux</b>	POSITION <b>Env. Superintendent</b>	EMPLOYER <b>AEM</b>	ALTERNATE CONTACT LOCATION <b>Meliadine</b>	ALTERNATE TELEPHONE <b>418-559-2861</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					

# Follow Up Report: #2022097

## March 25<sup>th</sup> 2022, Emulsion Spill



The following information refers to spill 2022097 reported by Agnico Eagle Mines Limited March 25<sup>th</sup>, 2022, and is being provided in accordance with:

- the Nunavut Water Board License 2AM-MEL1631 Water License, part H, item 8c.

### Description of Incident:

On March 25<sup>th</sup> at approximately 14:00, an estimated 2 kg of emulsion was identified during snow removal operations on the emulsion pad.

No water bodies were impacted by this spill. The closest natural water body (G9) is 365 m from the spill location. The coordinates of the spill are 63° 2'38.33"N, 92°15'24.59"W (Figure 1).



Figure 1: Location of 2kg emulsion spill

### Spill Response & Cleanup:

Emulsion plant personnel collected all impacted snow and ice and placed it in the Dyno Equipment Shop to thaw. The melted material was collected in the floor sump and transferred to a tote for disposal as hazardous waste.

It was determined that there was no risk of ignition during spill cleanup. Emulsion requires high pressure and a heat source for detonation and none of these conditions were present or susceptible of being present during the spill cleanup.



**Figure 2:** Impacted material in Dyno Equipment Shop to melt



**Figure 3:** Dyno Equipment Shop collection sump



**Figure 4:** Final cleanup

## Cause of the Incident and Corrective Measures

The cause and occurrence time of the spill could not be determined, therefore the corrective measures focused on spill reporting rather than on the root cause of the spill.

Toolbox talks were conducted by Dyno Nobel (the Contractor responsible for the production of emulsion on site) supervisors to review the importance of spill reporting and remind crews of the spill reporting procedures.

Dyno Nobel supervisors also reviewed the Filling RU Bins Standard Operating Procedure and the HT-1545 RC Truck Operations Procedure with the Dyno Nobel employees to ensure proper work procedure are used to prevent future spills as the spill could have occurred during loading operations.



**Brett Fairbairn** | Environment Coordinator

brett.fairbairn@agnicoeagle.com | Direct 819.759.3555 x4603996 |

Agnico Eagle Mines Limited - Meliadine Mine, Suite 879 - Rankin Inlet, Nunavut,  
Canada X0C 0G0

[agnicoeagle.com](http://agnicoeagle.com)     

Sent from Meliadine



# 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>03-26-2022</b>	REPORT TIME <b>10:30</b>	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT	<b>REPORT NUMBER</b>  _____
<b>B</b>	OCCURRENCE DATE: MONTH – DAY – YEAR <b>03-25-2022</b>	OCCURRENCE TIME <b>12:40</b>		
<b>C</b>	LAND USE PERMIT NUMBER (IF APPLICABLE) <b>KVPL11D01</b>	WATER LICENCE NUMBER (IF APPLICABLE) <b>2AM-MEL1631</b>		
<b>D</b>	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION <b>Meliadine Gold Project</b>		REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN	
<b>E</b>	LATITUDE DEGREES <b>63</b> MINUTES <b>2</b> SECONDS <b>21</b>		LONGITUDE DEGREES <b>92</b> MINUTES <b>13</b> SECONDS <b>41</b>	
<b>F</b>	RESPONSIBLE PARTY OR VESSEL NAME <b>Agnico Eagle Mines Ltd.</b>	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION <b>Meliadine, Rankin Inlet, Nunavut, X0C 0G0</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>Untreated Sewage</b>	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES <b>25 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>Sewage Vacuum Truck Hose</b>	SPILL CAUSE <b>Human Error</b>	AREA OF CONTAMINATION IN SQUARE METRES <b>10 m2</b>	
<b>J</b>	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>	

<b>K</b>	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS <p><b>After emptying a sewage lift station tank, the vacuum truck operator disconnected the truck hose from the lift station, releasing 25 L of untreated sewage from the hose onto the ground. The spilled material was placed into drums for proper disposal at a later date.</b></p> <p><b>The coordinates of the spill are 63° 1'42.70"N 92°12'47.81"W. No water bodies were impacted by this spill. The nearest natural body of water is Lake B7, approximately 880 m west.</b></p> <p><b>Pursuant to Part H, Item 8c of the water license, a follow up report will be issued after closer investigation is completed. A follow-up report will be issued at a later date.</b>  <b>Reported by Sara Savoie, Environment General Supervisor (819-759-3555 x4603212; sara.savoie@agnicoeagle.com).</b></p>			
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<b>L</b>	REPORTED TO SPILL LINE BY <b>Sara Savoie</b>	POSITION <b>Env. Gen. Supervisor</b>	EMPLOYER <b>AEM</b>	LOCATION CALLING FROM <b>Meliadine</b>	TELEPHONE <b>819-759-3555</b>
<b>M</b>	ANY ALTERNATE CONTACT <b>Eric Giroux</b>	POSITION <b>Env. Superintendent</b>	EMPLOYER <b>AEM</b>	ALTERNATE CONTACT LOCATION <b>Meliadine</b>	ALTERNATE TELEPHONE <b>418-559-2861</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					

## Follow Up Report: #2022098 March 25<sup>th</sup>, 2022 – 25 L Sewage

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The following information refers to incident #2022098 reported by Agnico Eagle Mines Limited March 25<sup>th</sup>, 2022, and is being provided in accordance with:

- the Nunavut Water Board License 2AM-MEL1631 Water License, Part H, Item 8c.

### Description of Incident

At approximately 12:40 on March 25<sup>th</sup>, 2022, after emptying the KCG sewage lift station tank, 25 L of sewage was spilled when the vacuum truck hose was disconnected.

The coordinates of this spill are 63° 1' 42.70"N, 92° 12' 47.81"W. No water bodies were impacted by this spill. The closest water body (B7) is approximately 870 m west.



**Figure 1:** Location of the spill

### Spill Response & Cleanup

The spill was contained to the local area. The topography of the area and the freezing conditions prevented the sewage from migrating off site, facilitating spill recovery. Frozen contaminated material was collected using a backhoe and placed in drums to be returned to the sewage treatment system at a later date.



**Figure 2:** KCG sewage lift station tank spill cleanup

### **Cause of Incident and Corrective Measures**

The operator of the sewage vacuum truck was unaware of the high level in the truck prior to emptying the KCG sewage lift station tank.

After emptying the KCG sewage lift station tank the operator closed the KCG sewage lift station tank discharge valve and attempted to clear the sewage vacuum truck suction line as per the procedure. The sewage vacuum truck was at capacity and unable to clear all of the fluid from the line. When the operator disconnected the sewage vacuum truck suction line the trapped sewage within the sewage vacuum truck suction line was released to the ground.

To prevent a similar incident from occurring, all sewage vacuum truck operators have received official training on sewage vacuum truck operations from the onsite training department.

Furthermore a review of the Sucker Truck Operations Procedure is ongoing and will be completed by all sewage vacuum truck operators.





# 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>03-29-2022</b>	REPORT TIME <b>19:15</b>	<input type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT	<b>REPORT NUMBER</b>  _____
<b>B</b>	OCCURRENCE DATE: MONTH – DAY – YEAR <b>03-27-2022</b>	OCCURRENCE TIME <b>Unknown</b>		
<b>C</b>	LAND USE PERMIT NUMBER (IF APPLICABLE) <b>KVPL11D01</b>	WATER LICENCE NUMBER (IF APPLICABLE) <b>2BB-MEL-1424</b>		
<b>D</b>	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION <b>Meliadine Gold Project</b>	REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN		
<b>E</b>	LATITUDE DEGREES <b>63</b> MINUTES <b>2</b> SECONDS <b>21</b>	LONGITUDE DEGREES <b>92</b> MINUTES <b>13</b> SECONDS <b>41</b>		
<b>F</b>	RESPONSIBLE PARTY OR VESSEL NAME <b>AEM</b>	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION <b>Meliadine, Rankin Inlet, Nunavut, X0C 0G0</b>		
<b>G</b>	ANY CONTRACTOR INVOLVED <b>Orbit Garant</b>	CONTRACTOR ADDRESS OR OFFICE LOCATION <b>Val-d'Or</b>		
<b>H</b>	PRODUCT SPILLED <b>Drilling Recirculation Water</b>	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES <b>20 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>Recirculation Tank</b>	SPILL CAUSE <b>To be determined</b>	AREA OF CONTAMINATION IN SQUARE METRES <b>2 m2</b>	
<b>J</b>	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

**On March 27th 2022 during an environmental inspection of the Orbit drill rigs located on water body A8, a worker identified that drilling recirculation water overflowed from the recirculation tank to the surface of the ice. No drilling recirculation water entered the water body as it was contained on the surface of the ice cover.**

**Location of the spill: 63° 0'33.00"N, 92°12'9.57"W**  
**Pursuant to Part H, section 4c of the Water License, a follow up report will be issued after a closer investigation is completed.**

**Reported by Sara Savoie, Environment General Supervisor (819-759-3555 x4603212; sara.savoie@agnicoeagle.com).**

<b>L</b>	REPORTED TO SPILL LINE BY <b>Sara Savoie</b>	POSITION <b>Env. Gen. Supervisor</b>	EMPLOYER <b>AEM</b>	LOCATION CALLING FROM <b>Meliadine</b>	TELEPHONE <b>819-759</b>
<b>M</b>	ANY ALTERNATE CONTACT <b>Eric Giroux</b>	POSITION <b>Env. Superintendent</b>	EMPLOYER <b>AEM</b>	ALTERNATE CONTACT LOCATION <b>Meliadine</b>	ALTERNATE TELEPHONE <b>418-599-2861</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					

# Follow Up Report: #2022102

## March 27<sup>th</sup>, 2022,

### 20 L Drilling Recirculation Water on Waterbody A8

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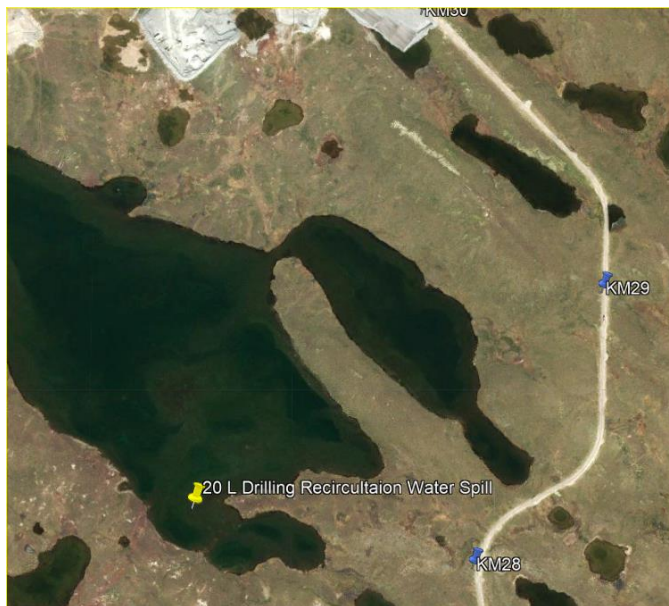
The following information relates to spill #2022102 reported by Agnico Eagle Mines Limited on March 29<sup>th</sup>, 2022, and is being provided in accordance with:

- the Nunavut Water Board License 2BB-MEL1424 Water Licence, part H, item 4c;
- the Fisheries Act subsection 38(7).

#### Description of Incident:

On March 27<sup>th</sup>, 2022 during an environmental inspection of the Orbit drill rigs located on waterbody A8, a worker identified a 20 L drilling recirculation water overflow from the drill recirculation water recovery tank to the surface of the ice. No drilling recirculation water entered the waterbody as it was contained on the surface of the ice cover.

The coordinates of the spill are: 63° 0' 33.00" N, 92°12' 9.57"W, which is on waterbody A8.



**Figure 1: Drilling recirculation water spill location**

#### Spill Response & Cleanup:

Orbit Garant stopped drilling operations which stopped the flow to the drill recirculation water recovery tank and allowed realignment of the drill recirculation recovery tank. Orbit Garant employees promptly started the spill cleanup using ice chippers and shovels. The impacted snow and ice was placed into the decantation tank to be reused in the drilling process.



**Figure 2: Spill Location- Post cleanup**

### **Cause of Incident and Corrective Measures**

The release was a result of an equipment failure as the drill recirculation recovery tank became tilted during the drilling process. Orbit Garant stopped the drilling process, realigned the drill recirculation recovery tank and attached it to the drill with chains to prevent movement of the drill recirculation recovery tank and future spills.



**Brett Fairbairn** | Environment Coordinator

[brett.fairbairn@agnicoeagle.com](mailto:brett.fairbairn@agnicoeagle.com) | Direct 819.759.3555 x4603996 |

Agnico Eagle Mines Limited - Meliadine Mine, Suite 879 - Rankin Inlet, Nunavut,  
Canada X0C 0G0

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Canada

# NT-NU SPILL REPORT

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EMAIL: spills@gov.nt.ca

REPORT LINE USE ONLY

<b>A</b>	REPORT DATE: MONTH – DAY – YEAR <b>2022-03-30</b>	REPORT TIME	<input type="checkbox"/> ORIGINAL SPILL REPORT, OR	REPORT NUMBER _____
<b>B</b>	OCCURRENCE DATE: MONTH – DAY – YEAR <b>2022-03-29</b>	OCCURRENCE TIME <b>9:45AM</b>	<input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT	
<b>C</b>	LAND USE PERMIT NUMBER (IF APPLICABLE) <b>KVPL11D01</b>	WATER LICENCE NUMBER (IF APPLICABLE) <b>2BB-MEL-1424</b>		
<b>D</b>	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION <b>Meliadine Gold Project</b>	REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN		
<b>E</b>	LATITUDE DEGREES <b>63</b> MINUTES <b>2</b> SECONDS <b>21</b>	LONGITUDE DEGREES <b>92</b> MINUTES <b>13</b> SECONDS <b>41</b>		
<b>F</b>	RESPONSIBLE PARTY OR VESSEL NAME <b>AEM</b>	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION <b>Meliadine, Rankin Inlet, Nunavut, X0C 0G0</b>		
<b>G</b>	ANY CONTRACTOR INVOLVED <b>Orbit Garant</b>	CONTRACTOR ADDRESS OR OFFICE LOCATION <b>Val-d'Or</b>		
<b>H</b>	PRODUCT SPILLED <b>Drilling Recirculation Water</b>	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES <b>20 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>Recirculation Tank</b>	SPILL CAUSE <b>To be determined</b>	AREA OF CONTAMINATION IN SQUARE METRES <b>2m2</b>	
<b>J</b>	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>	

<b>K</b>	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS <b>On March 29th 2022 during an environmental inspection of the Orbit drill rigs located on water body A8, a worker identified that drilling recirculation water overflowed from the recirculation tank to the surface of the ice. No drilling recirculation water entered the water body as it was contained on the surface of the ice cover.</b>  <b>Location of the spill: 63° 0'43.04"N 92°12'25.15"W</b> <b>Pursuant to Part H, section 4c of the Water License, a follow up report will be issued after a closer investigation completed.</b> <b>Reported by Sara Savoie, Environment General Supervisor (819-759-3555 x4603212; sara.savoie@agnicoeagle.com)</b>			
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<b>L</b>	REPORTED TO SPILL LINE BY <b>Sara Savoie</b>	POSITION <b>Env. Gen. Supervisor</b>	EMPLOYER <b>AEM</b>	LOCATION CALLING FROM <b>Meliadine</b>	TELEPHONE <b>819-759-3555</b>
<b>M</b>	ANY ALTERNATE CONTACT <b>Eric Giroux</b>	POSITION <b>Env. Superintendant</b>	EMPLOYER <b>AEM</b>	ALTERNATE CONTACT LOCATION <b>Meliadine</b>	ALTERNATE TELEPHONE <b>418-599-2861</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					

# Follow Up Report: #2022105

## March 29<sup>th</sup>, 2022,

### 20 L Drilling Recirculation Water on Waterbody A8

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The following information relates to spill #2022105 reported by Agnico Eagle Mines Limited on March 30<sup>th</sup>, 2022, and is being provided in accordance with:

- the Nunavut Water Board License 2BB-MEL1424 Water Licence, part H, item 4c
- the Fisheries Act subsection 38(7)

#### Description of Incident:

On March 29<sup>th</sup>, 2022 during an environmental inspection of the Orbit Garant drill rigs located on waterbody A8, a worker identified that 20 L of drilling recirculation water had overflowed from the decantation tank to the surface of the ice.

The coordinates of the spill are: 63° 0' 43.04" N, 92°12' 25.15"W, which is on waterbody A8.



**Figure 1: Drilling recirculation water spill location**

#### Spill Response & Cleanup:

At the time of inspection, the decantation tank was no longer overflowing, and drilling recirculation water was no longer spilling onto the ice. The cleanup of the spill was completed as part of the final site cleanup as all drilling operations were complete at the site. During the drill site cleanup all impacted snow and ice was removed and sent to the drill cuttings disposal area with the remaining drill cuttings.



**Figure 2: Spill Location- Post cleanup**

## Cause of Incident and Corrective Measures

The release was a result of an equipment failure as the fresh water supply valve failed and could not be put in the closed position to stop filling the decantation tank. The decantation tank overflowed spilling recirculation water onto the surface ice. Orbit Garant stopped the flow of fresh water into the decantation tank and replaced the failed valve.

As an effort to mitigate the frequency of spills on lake ice, Orbit has committed to implementing a series of actions aimed at reducing the risk of spills from drills. One of these actions is to install water level sensors on the decantation tanks which will be connected to a signal light system installed in the drill shake. The intention to implement this action was communicated via a Letter of Intent provided by Orbit to Agnico Eagle on April 28<sup>th</sup>, 2022 and is available upon request of regulatory bodies.



**Brett Fairbairn** | Environment Coordinator

brett.fairbairn@agnicoeagle.com | Direct 819.759.3555 x4603996 |

Agnico Eagle Mines Limited - Meliadine Mine, Suite 879 - Rankin Inlet, Nunavut,  
Canada X0C 0G0

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Canada

# NT-NU SPILL REPORT

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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>03-30-2022</b>	REPORT TIME <b>17:15</b>	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT	<b>REPORT NUMBER</b> _____
<b>B</b>	OCCURRENCE DATE: MONTH – DAY – YEAR <b>03-30-2022</b>	OCCURRENCE TIME <b>8:00</b>		
<b>C</b>	LAND USE PERMIT NUMBER (IF APPLICABLE) <b>KVPL11D01</b>	WATER LICENCE NUMBER (IF APPLICABLE) <b>2AM-MEL1631</b>		
<b>D</b>	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION <b>Meliadine Gold Project</b>		REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN	
<b>E</b>	LATITUDE DEGREES <b>63</b> MINUTES <b>2</b> SECONDS <b>21</b>		LONGITUDE DEGREES <b>92</b> MINUTES <b>13</b> SECONDS <b>41</b>	
<b>F</b>	RESPONSIBLE PARTY OR VESSEL NAME <b>Agnico Eagle Mines Ltd.</b>	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION <b>Meliadine, Rankin Inlet, Nunavut, X0C 0G0</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>Untreated Sewage</b>	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES <b>30 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>	SPILL SOURCE <b>Sewage Vacuum Truck Hose</b>	SPILL CAUSE <b>Equipment Malfunction</b>	AREA OF CONTAMINATION IN SQUARE METRES <b>3m2</b>	
<b>J</b>	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>	

<b>K</b>	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS <p><b>While transferring the content of the vacuum truck into the MSB lift station, the vacuum truck hose became loose and approximately 30 L of untreated sewage was spilled. Contaminated material was scrapped and placed into drums for proper disposal at a later date.</b></p> <p><b>The coordinates of the spill are 63° 2' 21"N, 92° 13' 40"W . No water bodies were impacted by this spill. The nearest water body, (G2) is 500 m north.</b></p> <p><b>Pursuant to Part H, Item 8c of the water license, a follow up report will be issued after closer investigation is completed. A follow-up report will be issued at a later date.</b>  <b>Reported by Sara Savoie, Environment General Supervisor (819-759-3555 x4603212; sara.savoie@agnicoeagle.com).</b></p>			
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<b>L</b>	REPORTED TO SPILL LINE BY <b>Sara Savoie</b>	POSITION <b>Env. Gen. Supervisor</b>	EMPLOYER <b>AEM</b>	LOCATION CALLING FROM <b>Meliadine</b>	TELEPHONE <b>819-759-3555</b>
<b>M</b>	ANY ALTERNATE CONTACT <b>Eric Giroux</b>	POSITION <b>Env. Superintendant</b>	EMPLOYER <b>AEM</b>	ALTERNATE CONTACT LOCATION <b>Meliadine</b>	ALTERNATE TELEPHONE <b>418-559-2861</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					

## Follow Up Report: #2022106 March 30, 2022 – 30 L Sewage

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The following information refers to an incident #2022106 reported by Agnico Eagle Mines Ltd. March 30, 2022, and is being provided in accordance with:

- the Nunavut Water Board License 2AM-MEL1631 Water License, Part H, Item 8c.

### Description of Incident

At approximately 8:00am on March 30, 2022, 30 L of sewage was spilled at the Multi Service Building (MSB) lift station when the vacuum truck hose was disconnected.

The coordinates of this spill are 63° 2' 21"N, 92° 13' 40"W. No water bodies were impacted by this spill. The closest waterbody (G2) is approximately 350 m north.



**Figure 1:** Location of the MSB lift station spill

### Spill Response & Cleanup

The spill was contained to the local area. The topography of the area and the freezing conditions prevented the sewage from migrating off site, facilitating spill recovery. Frozen contaminated material was collected and placed in a drum which will be sent south for hazardous waste disposal (contaminated ice and gravel).





**Figure 2:** MSB lift station spill clean up

### **Cause of Incident and Corrective Measures**

While transferring the content of the vacuum truck into the MSB lift station, the vacuum truck hose became loose due to the camlocks not being correctly secured and approximately 30 L of sewage was released. As this specific spill occurred due to human error, the responsible staff working on sucker truck was met and the sucker truck procedure was reviewed.



# 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>04-01-2022</b>	REPORT TIME <b>17:50</b>	<input type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT	<b>REPORT NUMBER</b>  _____
<b>B</b>	OCCURRENCE DATE: MONTH – DAY – YEAR <b>04-01-2022</b>	OCCURRENCE TIME <b>13:00</b>		
<b>C</b>	LAND USE PERMIT NUMBER (IF APPLICABLE) <b>KVPL11D01</b>	WATER LICENCE NUMBER (IF APPLICABLE) <b>2BB-MEL-1424</b>		
<b>D</b>	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION <b>Meliadine Gold Project</b>	REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN		
<b>E</b>	LATITUDE DEGREES <b>63</b> MINUTES <b>2</b> SECONDS <b>21</b>	LONGITUDE DEGREES <b>92</b> MINUTES <b>13</b> SECONDS <b>41</b>		
<b>F</b>	RESPONSIBLE PARTY OR VESSEL NAME <b>AEM</b>	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION <b>Meliadine, Rankin Inlet, Nunavut, X0C 0G0</b>		
<b>G</b>	ANY CONTRACTOR INVOLVED <b>Orbit Garant</b>	CONTRACTOR ADDRESS OR OFFICE LOCATION <b>Val-d'Or</b>		
<b>H</b>	PRODUCT SPILLED <b>Drilling Recirculation Water</b>	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES <b>100 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>Recirculation Tank</b>	SPILL CAUSE <b>To be determined</b>	AREA OF CONTAMINATION IN SQUARE METRES <b>6 m2</b>	
<b>J</b>	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

**On April 1st 2022 during an environmental inspection of the Orbit drill rigs located on water body A8, a worker identified that drilling recirculation water overflowed from the recirculation tank to the surface of the ice. No drilling recirculation water entered the water body as it was contained on the surface of the ice cover.**

**Location of the spill: 63° 0'41.27"N, 92°12'25.91"W**  
**Pursuant to Part H, section 4c of the Water License, a follow up report will be issued after a closer investigation is completed.**

**Reported by Randy Schwandt, Environment Coordinator (819-759-3555 x4603996; randy.schwandt@agnicoeagle.com).**

<b>L</b>	REPORTED TO SPILL LINE BY <b>Randy Schwandt</b>	POSITION <b>Env. coordinator</b>	EMPLOYER <b>AEM</b>	LOCATION CALLING FROM <b>Meliadine</b>	TELEPHONE <b>819-759-3555</b>
<b>M</b>	ANY ALTERNATE CONTACT <b>Matt Gillman</b>	POSITION <b>Water Gen.Supervisor</b>	EMPLOYER <b>AEM</b>	ALTERNATE CONTACT LOCATION <b>Meliadine</b>	ALTERNATE TELEPHONE <b>819-759-3555</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					

# Follow Up Report: #2022109

## April 1<sup>st</sup>, 2022,

### 100 L Drilling Recirculation Water on Waterbody A8

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The following information relates to spill #2022105 reported by Agnico Eagle Mines Limited on April 1<sup>st</sup>, 2022, and is being provided in accordance with:

- the Nunavut Water Board License 2BB-MEL1424 Water Licence, part H, item 4c
- the Fisheries Act subsection 38(7)

#### **Description of Incident:**

On April 1<sup>st</sup>, 2022, during an environmental inspection of the Orbit Garant drill rigs located on waterbody A8, a worker identified that 100 L of drilling recirculation water had overflowed from the decantation tank to the surface of the ice.

The coordinates of the spill are: 63° 0' 41.27" N, 92°12' 25.91"W, which is on waterbody A8.



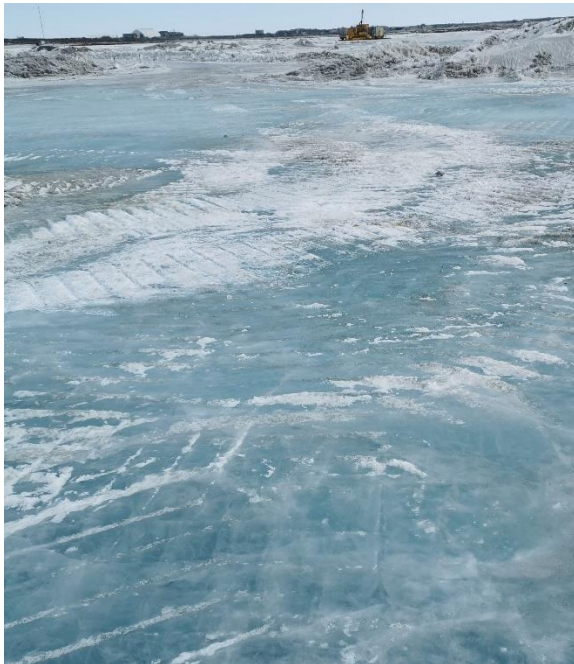
**Figure 1:** Drilling recirculation water spill location

#### **Spill Response & Cleanup:**

At the time of inspection, the decantation tank was no longer overflowing, and drilling recirculation water was no longer spilling onto the ice. The cleanup of the spill was completed as part of the final site cleanup as all drilling operations were complete at the site. During the drill site cleanup all impacted snow and ice was removed and sent to the drill cuttings disposal area with the remaining drill cuttings.



**Figure 2:** Spill Location- Pre-cleanup



**Figure 3:** Spill Location- Post cleanup

### **Cause of Incident and Corrective Measures**

The release was a result of a human error as the worker didn't stop the pump that was filling the tank. The decantation tank overflowed spilling recirculation water onto the surface ice. Orbit Garant stopped the flow of fresh water into the decantation tank immediately after the overflow was observed.


As an effort to mitigate the frequency of spills on lake ice, Orbit has committed to implementing a series of actions aimed at reducing the risk of spills from drills. One of these actions is to install water level sensors on the decantation tanks which will be connected to a signal light system installed in the drill shake. The intention to implement this action was communicated via a Letter of Intent provided by Orbit to Agnico Eagle on April 28<sup>th</sup>, 2022 and is available upon request of regulatory bodies.



**Randy Schwandt** | Environment Coordinator

[randy.schwandt@agnicoeagle.com](mailto:randy.schwandt@agnicoeagle.com) | Direct 819.759.3555 x4603996 |

Agnico Eagle Mines Limited - Meliadine Mine, Suite 879 - Rankin Inlet, Nunavut,  
Canada X0C 0G0

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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>04-01-2022</b>	REPORT TIME <b>17:30</b>	<input type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT	<b>REPORT NUMBER</b>  _____
<b>B</b>	OCCURRENCE DATE: MONTH – DAY – YEAR <b>04-01-2022</b>	OCCURRENCE TIME <b>13:30</b>		
<b>C</b>	LAND USE PERMIT NUMBER (IF APPLICABLE) <b>KVPL11D01</b>	WATER LICENCE NUMBER (IF APPLICABLE) <b>2BB-MEL-1424</b>		
<b>D</b>	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION <b>Meliadine Gold Project</b>	REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN		
<b>E</b>	LATITUDE DEGREES <b>63</b> MINUTES <b>2</b> SECONDS <b>21</b>	LONGITUDE DEGREES <b>92</b> MINUTES <b>13</b> SECONDS <b>41</b>		
<b>F</b>	RESPONSIBLE PARTY OR VESSEL NAME <b>AEM</b>	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION <b>Meliadine, Rankin Inlet, Nunavut, X0C 0G0</b>		
<b>G</b>	ANY CONTRACTOR INVOLVED <b>Orbit Garant</b>	CONTRACTOR ADDRESS OR OFFICE LOCATION <b>Val-d'Or</b>		
<b>H</b>	PRODUCT SPILLED <b>Drilling Recirculation Water</b>	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES <b>150 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>Recirculation Tank</b>	SPILL CAUSE <b>To be determined</b>	AREA OF CONTAMINATION IN SQUARE METRES <b>8 m2</b>	
<b>J</b>	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

**On April 1st 2022 during an environmental inspection of the Orbit drill rigs located on water body A8, a worker identified that drilling recirculation water overflowed from the recirculation tank to the surface of the ice. No drilling recirculation water entered the water body as it was contained on the surface of the ice cover.**

**Location of the spill: 63° 0'34.15"N, 92°12'11.74"W**  
**Pursuant to Part H, section 4c of the Water License, a follow up report will be issued after a closer investigation is completed.**

**Reported by Randy Schwandt, Environment Coordinator (819-759-3555 x4603996; randy.schwandt@agnicoeagle.com).**

<b>L</b>	REPORTED TO SPILL LINE BY <b>Randy Schwandt</b>	POSITION <b>Env. Coordinator</b>	EMPLOYER <b>AEM</b>	LOCATION CALLING FROM <b>Meliadine</b>	TELEPHONE <b>819-759-3555</b>
<b>M</b>	ANY ALTERNATE CONTACT <b>Matt Gillman</b>	POSITION <b>Water Gen.Supervisor</b>	EMPLOYER <b>AEM</b>	ALTERNATE CONTACT LOCATION <b>Meliadine</b>	ALTERNATE TELEPHONE <b>819-759-3555</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					

# Follow Up Report: #2022112

## April 1<sup>st</sup>, 2022,

### 150 L Drilling Recirculation Water on Waterbody A8

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The following information relates to spill #2022105 reported by Agnico Eagle Mines Limited on April 1<sup>st</sup>, 2022, and is being provided in accordance with:

- the Nunavut Water Board License 2BB-MEL1424 Water Licence, part H, item 4c
- the Fisheries Act subsection 38(7)

#### **Description of Incident:**

On April 1<sup>st</sup>, 2022, during an environmental inspection of the Orbit Garant drill rigs located on waterbody A8, a worker identified that 150 L of drilling recirculation water had overflowed from the decantation tank to the surface of the ice.

The coordinates of the spill are: 63° 0' 34.15" N, 92°12' 11.74"W, which is on waterbody A8.



**Figure 1:** Drilling recirculation water spill location

#### **Spill Response & Cleanup:**

At the time of inspection, the decantation tank was no longer overflowing, and drilling recirculation water was no longer spilling onto the ice. The cleanup of the spill was completed as part of the final site cleanup as all drilling operations were complete at the site. During the drill site cleanup all impacted snow and ice was removed and sent to the drill cuttings disposal area with the remaining drill cuttings.



**Figure 2&3:** Spill Location- Pre-clean (left) and post clean up (right)

### **Cause of Incident and Corrective Measures**

The release was a result of a human error as the worker didn't stop the pump that was filling the tank. The decantation tank overflowed spilling recirculation water onto the surface ice. Orbit Garant stopped the flow of fresh water into the decantation tank immediately after the overflow was observed.

As an effort to mitigate the frequency of spills on lake ice, Orbit has committed to implementing a series of actions aimed at reducing the risk of spills from drills. One of these actions is to install water level sensors on the decantation tanks which will be connected to a signal light system installed in the drill shake. The intention to implement this action was communicated via a Letter of Intent provided by Orbit to Agnico Eagle on April 28<sup>th</sup>, 2022 and is available upon request of regulatory bodies.



**Randy Schwandt** | Environment Coordinator

[randy.schwandt@agnicoeagle.com](mailto:randy.schwandt@agnicoeagle.com) | Direct 819.759.3555 x4603996 |

Agnico Eagle Mines Limited - Meliadine Mine, Suite 879 - Rankin Inlet, Nunavut,  
Canada X0C 0G0

[agnicoeagle.com](http://agnicoeagle.com)    





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>04-04-2022</b>	REPORT TIME <b>6:15</b>	<input type="checkbox"/> ORIGINAL SPILL REPORT, OR		REPORT NUMBER _____
	OCCURRENCE DATE: MONTH – DAY – YEAR <b>04-03-2022</b>	OCCURRENCE TIME <b>10:30</b>	<input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT		
<b>C</b>	LAND USE PERMIT NUMBER (IF APPLICABLE) <b>KVPL11D01</b>	WATER LICENCE NUMBER (IF APPLICABLE) <b>2BB-MEL-1424</b>			
	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION <b>Meliadine Gold Project</b>	REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN			
<b>E</b>	LATITUDE DEGREES <b>63</b> MINUTES <b>2</b> SECONDS <b>21</b>	LONGITUDE DEGREES <b>92</b> MINUTES <b>13</b> SECONDS <b>41</b>			
	RESPONSIBLE PARTY OR VESSEL NAME <b>AEM</b>	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION <b>Meliadine, Rankin Inlet, Nunavut, X0C 0G0</b>			
<b>G</b>	ANY CONTRACTOR INVOLVED <b>Orbit Garant</b>	CONTRACTOR ADDRESS OR OFFICE LOCATION <b>Val-d'Or</b>			
	PRODUCT SPILLED <b>Contaminated water</b>	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES <b>6 Litres</b>	U.N. NUMBER <b>N/A</b>		
<b>H</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>		
	SPILL SOURCE <b>Water Pump</b>	SPILL CAUSE <b>Water pump failure</b>	AREA OF CONTAMINATION IN SQUARE METRES <b>1m2</b>		
<b>J</b>	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>		
	<b>K</b> ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS <p><b>On April 3rd 2022 during an environmental inspection of the Orbit drill rigs located on water body A8, a worker identified that the recirculating water pump for the heating water system had a leak, the water was dripping on the container floor which contained traces of hydrocarbons. The water then flowed onto the ice of lake A8. The water was immediately scraped up and the pump replaced. No contaminated water entered the water body as it was contained on the surface of the ice cover.</b></p> <p><b>Location of the spill: 63° 0'34.15"N, 92°12'11.74"W</b></p> <p><b>Pursuant to Part H, section 4c of the Water License, a follow up report will be issued after a closer investigation is completed.</b></p> <p><b>Reported by Randy Schwandt, Environment Coordinator (819-759-3555 x4603996; randy.schwandt@agnicoeagle.com).</b></p>				
<b>L</b>	REPORTED TO SPILL LINE BY <b>Randy Schwandt</b>	POSITION <b>Env. Coordinator</b>	EMPLOYER <b>AEM</b>	LOCATION CALLING FROM <b>Meliadine</b>	TELEPHONE <b>819-759-3555</b>
	ANY ALTERNATE CONTACT <b>Matt Gillman</b>	POSITION <b>Water Gen.Supervisor</b>	EMPLOYER <b>AEM</b>	ALTERNATE CONTACT LOCATION <b>Meliadine</b>	ALTERNATE TELEPHONE <b>819-759-3555</b>
<b>REPORT LINE USE ONLY</b>					
<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					

# Follow Up Report: #2022111

## April 3<sup>rd</sup>, 2022,

### 6 L Contaminated Water on Waterbody A8

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The following information relates to spill #2022111 reported by Agnico Eagle Mines Limited on April 3<sup>rd</sup>, 2022, and is being provided in accordance with:

- the Nunavut Water Board License 2BB-MEL1424 Water Licence, part H, item 4c;
- the Fisheries Act subsection 38(7).

#### Description of Incident:

On April 3<sup>rd</sup>, 2022, during an environmental inspection of the Orbit drill rigs located on waterbody A8, a worker identified water leaking from the heating unit sea-can to the surface of the ice. Upon inspecting the heating unit sea-can, it was discovered that the water recirculation pump had failed, which resulted in 6 L of contaminated water to leak inside on the sea-can floor thus being released on the surface of the ice. It is suspected the water came in contact with the heating sea-can floor which contained traces of hydrocarbons, and therefore is treated as contaminated water spill. No contaminated water entered the waterbody as it was contained on the surface of the ice cover.

The coordinates of the spill are: 63° 0' 34.15" N, 92°12'11.74"W, which is on waterbody A8.



**Figure 1:** Contaminated water spill location

#### Spill Response & Cleanup:

Orbit Garant immediately stopped the recirculation water pump. The contaminated ice and water were shoveled and brought to the contaminated snow cell where it will be stored until snowmelt, at which point the contaminated water will be transferred to the Landfarm for treatment at the oil-water separator, with the other existing material accumulated during Winter, as per the Water Management Plan.



**Figure 2:** Spill Location- Post cleanup

### **Cause of Incident and Corrective Measures**

The release was a result of equipment failure as the pump recirculation pump failed. The pump was changed immediately to prevent another potential spill.

These pumps are inspected daily as per the normal pre-operations of the drill and during the April 3<sup>rd</sup>, 2022 visual inspection, no issues with the pump were visible and starting of the operations was normal. Orbit conducts mechanical verification on the pumps every two weeks – these verifications, alongside the daily pre-operation’s inspections will continue to be conducted, reducing the likelihood of equipment malfunctions.



**Randy Schwandt** | Environment Coordinator

[randy.schwandt@agnicoeagle.com](mailto:randy.schwandt@agnicoeagle.com) | Direct 819.759.3555 x4603996 |

Agnico Eagle Mines Limited - Meliadine Mine, Suite 879 - Rankin Inlet, Nunavut,  
Canada X0C 0G0

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# 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>04-14-2022</b>	REPORT TIME <b>15:45</b>	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR		REPORT NUMBER  _____
	OCCURRENCE DATE: MONTH – DAY – YEAR <b>04-14-2022</b>	OCCURRENCE TIME <b>10:30</b>	<input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT		
<b>C</b>	LAND USE PERMIT NUMBER (IF APPLICABLE) <b>KVPL11D01</b>	WATER LICENCE NUMBER (IF APPLICABLE) <b>2BB-MEL1424</b>			
	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION <b>Meliadine Gold Project</b>		REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN		
<b>E</b>	LATITUDE	LONGITUDE			
	DEGREES <b>63</b> MINUTES <b>2</b> SECONDS <b>21</b>	DEGREES <b>92</b> MINUTES <b>13</b> SECONDS <b>41</b>			
<b>F</b>	RESPONSIBLE PARTY OR VESSEL NAME <b>Agnico Eagle Mines Ltd.</b>	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION <b>Meliadine, Rankin Inlet, Nunavut, X0C 0G0</b>			
	ANY CONTRACTOR INVOLVED <b>Orbit Garant</b>	CONTRACTOR ADDRESS OR OFFICE LOCATION <b>Val d'Or, Quebec</b>			
<b>H</b>	PRODUCT SPILLED <b>Diesel fuel</b>	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES <b>0.5L</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>Refueling hose</b>	SPILL CAUSE <b>Damaged fuel hose</b>	AREA OF CONTAMINATION IN SQUARE METRES <b>4</b>		
	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>		
<b>K</b>	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS				
	<p><b>On April 14th 2022 during an environmental inspection of the Orbit drill rigs located on Lake A8, a worker identified a 0.5L diesel spill beside the fuel over pack at Drill 4. The drill was not operating at the time of the inspection, absorbent rags were deployed and cleanup of the spill was initiated. No diesel entered the water body as it was contained on the surface of the ice cover.</b></p> <p><b>Pursuant to Part H, Section 4c of the Water License, a follow-up report will be issued after a closer investigation is completed.</b></p> <p><b>Location of spill: 63 0'32.6"N 92 12'13.9"W</b></p> <p><b>Contact information: Sara Savoie 819-759-3555 extension 4603212 (sara.savoie@agnicoeagle.com).</b></p>				
<b>L</b>	REPORTED TO SPILL LINE BY <b>Brett Fairbairn</b>	POSITION <b>Env. Coordinator</b>	EMPLOYER <b>AEM</b>	LOCATION CALLING FROM <b>Meliadine</b>	TELEPHONE <b>819-759-3555</b>
	ANY ALTERNATE CONTACT <b>Sara Savoie</b>	POSITION <b>Env. Gen. Supervisor</b>	EMPLOYER <b>AEM</b>	ALTERNATE CONTACT LOCATION <b>Meliadine</b>	ALTERNATE TELEPHONE <b>819-759-3555</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					

# Follow Up Report: #2022132

## April 14<sup>th</sup>, 2022,

### 0.5 L Diesel Fuel on Water Body A8 – Drill 4

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The following information refers to a spill reported by Agnico Eagle Mines Limited (AEM) on April 14<sup>th</sup>, 2022, and is being provided in accordance with:

- the Nunavut Water Board License 2BB-MEL1424 Water License, part H, item 4c
- the Fisheries Act subsection 38(7)

#### Description of Incident:

On April 14<sup>th</sup>, 2022, at approximately 10:30, the Environment Department was conducting an inspection of the surface drill areas, operated by AEM's contractor Orbit Garant. During the inspection, 0.5 L of diesel fuel was observed underneath the fuel over pack can at Drill 4 on the surface of the lake ice.

The coordinates of the spill are: 63 0'32.6"N 92 12'13.9"W, which is on water body A8.



**Figure 1: Incident Location**

#### Spill Response & Cleanup:

The drill was not in operation at the time of the inspection. The Environment Department notified the Orbit Garant supervisor and spill cleanup was initiated.

The contaminated ice and snow were cleaned up and the contaminated material was disposed of at the Contaminated Snow Cell. When the contaminated snow and ice melts the water will be transferred for treatment at the oil-water separator and discharged to Containment Pond 1 as per the Water Management Plan and the Landfarm Management Plan.

It is expected that no impacts occurred to the water body as the spill occurred on the lake ice, facilitating the recovery of the contaminated material – the contaminated ice was scrapped off.



**Figure 3: Spill location after completion of cleanup**

**Cause of Incident and Corrective Measures:**

The cause of the spill was identified as equipment failure. The fuel hose was damaged by normal use. The fuel hose was immediately changed to prevent another spill.

Preventive inspections continue to be completed by the Environment Department, Geology Department and the drill crews to identify potential concerns.



**Brett Fairbairn** | Environment Coordinator

brett.fairbairn@agnicoeagle.com | Direct 819.759.3555 x4603996 |

Agnico Eagle Mines Limited - Meliadine Mine, Suite 879 - Rankin Inlet, Nunavut,  
Canada X0C 0G0

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Sent from Meliadine



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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>04-19-2022</b>	REPORT TIME <b>11:30</b>	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT	<b>REPORT NUMBER</b>  _____
<b>B</b>	OCCURRENCE DATE: MONTH – DAY – YEAR <b>04-18-2022</b>	OCCURRENCE TIME <b>11:30</b>		
<b>C</b>	LAND USE PERMIT NUMBER (IF APPLICABLE) <b>KVPL11D01</b>	WATER LICENCE NUMBER (IF APPLICABLE) <b>2BB-MEL1424</b>		
<b>D</b>	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION <b>Meliadine Gold Project</b>		REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN	
<b>E</b>	LATITUDE DEGREES <b>63</b> MINUTES <b>2</b> SECONDS <b>21</b>		LONGITUDE DEGREES <b>92</b> MINUTES <b>13</b> SECONDS <b>41</b>	
<b>F</b>	RESPONSIBLE PARTY OR VESSEL NAME <b>Agnico Eagle Mines Ltd.</b>	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION <b>Meliadine, Rankin Inlet, Nunavut, X0C 0G0</b>		
<b>G</b>	ANY CONTRACTOR INVOLVED <b>Orbit Garant</b>	CONTRACTOR ADDRESS OR OFFICE LOCATION <b>Val d'Or, Quebec</b>		
<b>H</b>	PRODUCT SPILLED <b>Oil</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>Under Investigation</b>	SPILL CAUSE <b>unknown</b>	AREA OF CONTAMINATION IN SQUARE METRES <b>2</b>	
<b>J</b>	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>	

<b>K</b>	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS  <b>On April 18th 2022 during an environmental inspection of Orbit Drill 7 (DR7-M22-3396) located on Lake A8, a worker identified an oil spill. The spill was observed to coming out of the drill shack and from underneath the drill. A plan to clean up the spill is being developed to ensure proper cleanup. No oil entered the water body as it was contained on the surface of the ice cover.</b>  <b>Pursuant to Part H, Section 4c of the Water License, a follow-up report will be issued after a closer investigation is completed.</b> <b>Location of spill: 63 0'39.3"N 92 12'17.1"W</b> <b>Contact information: Brett Fairbairn 819-759-3555 extension 4603996 (Brett.Fairbairn@agnicoeagle.com).</b>			
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<b>L</b>	REPORTED TO SPILL LINE BY <b>Brett Fairbairn</b>	POSITION <b>Env. Coordinator</b>	EMPLOYER <b>AEM</b>	LOCATION CALLING FROM <b>Meliadine</b>	TELEPHONE <b>819-759-3555</b>
<b>M</b>	ANY ALTERNATE CONTACT <b>Sara Savoie</b>	POSITION <b>Env. Gen. Supervisor</b>	EMPLOYER <b>AEM</b>	ALTERNATE CONTACT LOCATION <b>Meliadine</b>	ALTERNATE TELEPHONE <b>819-759-3555</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					

# Follow Up Report: #2022136

## April 18<sup>th</sup>, 2022

### 0.5 L Engine Oil on Water Body A8 – Drill Rig#7

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The following information refers to a spill reported by Agnico Eagle Mines Limited. on April 18<sup>th</sup>, 2022, and is being provided in accordance with:

- the Nunavut Water Board License 2BB-MEL1424 Water License, part H, item 4c;
- the Fisheries Act subsection 38(7).

#### Description of Incident:

On April 18<sup>th</sup>, 2022 at approximately 11:30, Environment Technicians were conducting an inspection of surface Drill# 7 M22-3396, operated by Orbit Garant. During the inspection, areas with small amounts engine oil coming out of the drill shack and from underneath the drill onto the lake ice were observed. It is estimated approximately 0.5 L of engine oil was released onto the lake ice.

The coordinates of the spill are: 63° 0' 39.3" N, 92°12' 17.1"W, on the water body A8



**Figure 1: Incident Location**

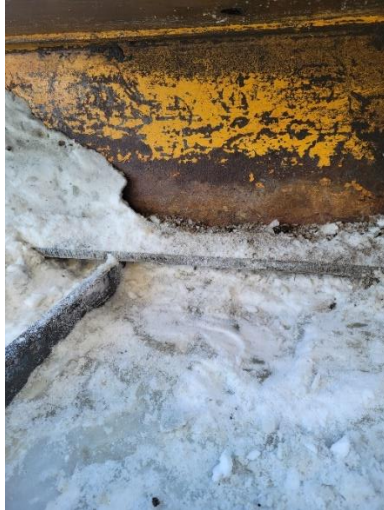
#### Spill Response & Cleanup:

During the inspection, Environment technicians notified the drillers of the issues and the Orbit Garant supervisor was also notified. Absorbent pads were placed to clean the engine oil and a shovel was used to clean up the remaining material. The contaminated snow and ice were disposed in a quatrex bag.

A sample was taken on April 21<sup>st</sup>. The ice sample was sent to the laboratory for analysis of the following parameters: BTEX, F1-F4 Hydrocarbons, Oil & Grease, total metals, Conductivity, pH, and Total Suspended Solids (TSS).

Results showed concentrations below detection limit for BTEX, F1-F4 Hydrocarbons and Oil & Grease. For reference, the maximum concentration of any grab sample applicable to Effluent discharge in Meliadine Lake at monitoring station MEL-7 is of 5 mg/L for Oil & Grease and no visible sheen, as per Water Licence 2BB-MEL1424 Part D Item 11. The certificate of analysis is attached and identified as Appendix A.





**Figure 2: Spill Location – Post cleanup**

### **Cause of Incident and Corrective Measures:**

The release was a result of a human error as the worker didn't use a funnel to fill the tank. Some engine oil was spilled inside the drill and released outside the drill through the drain hole.

Funnels are now used. A spill tray was also installed under the drain hole to collect any other substance that could be released through the drain hole.



**Figure 3: Spill tray installed under the drain hole**

Preventive inspections continue to be completed by the Environment Department, Geology Department and the drill crews to identify potential concerns.



**Brett Fairbairn** | Environment Coordinator

brett.fairbairn@agnicoeagle.com | Direct 819.759.3555 x4603996 |

Agnico Eagle Mines Limited - Meliadine Mine, Suite 879 - Rankin Inlet, Nunavut, Canada X0C 0G0

[agnicoeagle.com](http://agnicoeagle.com)     

Sent from Meliadine

## **Appendix A**





Your P.O. #: OL-1129375  
 Site Location: MELIADINE  
 Your C.O.C. #: na

**Attention: Reporting**

Agnico-Eagle  
 Meliadine  
 Meliadine Mine  
 Rankin Inlet, NU  
 CANADA X0C 0G0

**Report Date: 2022/05/03**  
 Report #: R7109823  
 Version: 2 - Final

**CERTIFICATE OF ANALYSIS**

**BUREAU VERITAS JOB #: C2B2646**

**Received: 2022/04/28, 09:30**

Sample Matrix: Surface Water  
 # Samples Received: 1

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
Petroleum Hydro. CCME F1 & BTEX in Water (1)	1	N/A	2022/04/28	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Water (1, 3)	1	2022/04/28	2022/04/29	CAM SOP-00316	CCME PHC-CWS m
Hardness Total (calculated as CaCO3) (2, 4)	1	N/A	2022/05/03	BBY WI-00033	Auto Calc
Na, K, Ca, Mg, S by CRC ICPMS (total) (2)	1	2022/04/28	2022/05/03	BBY7SOP-00002	EPA 6020B R2 m
Elements by CRC ICPMS (total) (2)	1	2022/04/29	2022/05/02	BBY7SOP-00003/ BBY7SOPEPA -00002	EPA 6020B R2 m
Total Oil and Grease (1)	1	2022/04/29	2022/04/29	CAM SOP-00326	EPA1664B m,SM5520B m
Low Level Total Suspended Solids (1)	1	2022/04/28	2022/04/29	CAM SOP-00428	SM 23 2540D m

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

\* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Bureau Veritas Mississauga, 6740 Campobello Rd , Mississauga, ON, L5N 2L8

(2) This test was performed by Bureau Veritas Burnaby, 4606 Canada Way , Burnaby, BC, V5G 1K5

(3) All CCME PHC results met required criteria unless otherwise stated in the report. The CWS PHC methods employed by Bureau Veritas conform to all prescribed elements of the



Your P.O. #: OL-1129375  
Site Location: MELIADINE  
Your C.O.C. #: na

**Attention: Reporting**

Agnico-Eagle  
Meliadine  
Meliadine Mine  
Rankin Inlet, NU  
CANADA X0C 0G0

**Report Date: 2022/05/03**  
Report #: R7109823  
Version: 2 - Final

**CERTIFICATE OF ANALYSIS**

**BUREAU VERITAS JOB #: C2B2646**

**Received: 2022/04/28, 09:30**

reference method and performance based elements have been validated. All modifications have been validated and proven equivalent following "Alberta Environment's Interpretation of the Reference Method for the Canada-Wide Standard for Petroleum Hydrocarbons in Soil Validation of Performance-Based Alternative Methods September 2003". Documentation is available upon request. Modifications from Reference Method for the Canada-wide Standard for Petroleum Hydrocarbons in Soil-Tier 1 Method: F2/F3/F4 data reported using validated cold solvent extraction instead of Soxhlet extraction.  
(4) "Total Hardness" was calculated from Total Ca and Mg concentrations and may be biased high (Hardness, or Dissolved Hardness, calculated from Dissolved Ca and Mg, should be used for compliance if available).

Encryption Key

Katherine Szozda  
Project Manager  
03 May 2022 16:52:50

Please direct all questions regarding this Certificate of Analysis to your Project Manager.  
Katherine Szozda, Project Manager  
Email: Katherine.Szozda@bureauveritas.com  
Phone# (613)274-0573 Ext:7063633

=====

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



BUREAU  
VERITAS

Bureau Veritas Job #: C2B2646  
Report Date: 2022/05/03

Agnico-Eagle  
Site Location: MELIADINE  
Your P.O. #: OL-1129375  
Sampler Initials: DM

### CCME PHCS, BTEX/F1-F4 (SURFACE WATER)

<b>Bureau Veritas ID</b>		SLX763		
<b>Sampling Date</b>		2022/04/21 13:00		
<b>COC Number</b>		na		
	<b>UNITS</b>	<b>M-22-3396</b>	<b>RDL</b>	<b>QC Batch</b>
<b>BTEX &amp; F1 Hydrocarbons</b>				
Benzene	ug/L	<0.20	0.20	7965323
Toluene	ug/L	0.43	0.20	7965323
Ethylbenzene	ug/L	<0.20	0.20	7965323
o-Xylene	ug/L	<0.20	0.20	7965323
p+m-Xylene	ug/L	<0.40	0.40	7965323
Total Xylenes	ug/L	<0.40	0.40	7965323
F1 (C6-C10)	ug/L	26	25	7965323
F1 (C6-C10) - BTEX	ug/L	25	25	7965323
<b>F2-F4 Hydrocarbons</b>				
F2 (C10-C16 Hydrocarbons)	ug/L	<100	100	7965503
F3 (C16-C34 Hydrocarbons)	ug/L	280	200	7965503
F4 (C34-C50 Hydrocarbons)	ug/L	<200	200	7965503
Reached Baseline at C50	ug/L	Yes		7965503
<b>Surrogate Recovery (%)</b>				
1,4-Difluorobenzene	%	103		7965323
4-Bromofluorobenzene	%	102		7965323
D10-o-Xylene	%	97		7965323
D4-1,2-Dichloroethane	%	108		7965323
o-Terphenyl	%	99		7965503
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BUREAU  
VERITAS

Bureau Veritas Job #: C2B2646  
Report Date: 2022/05/03

Agnico-Eagle  
Site Location: MELIADINE  
Your P.O. #: OL-1129375  
Sampler Initials: DM

**TOTAL ICPMS METALS FOR CCME CEQG FOR SW (SURFACE WATER)**

<b>Bureau Veritas ID</b>		SLX763		
<b>Sampling Date</b>		2022/04/21 13:00		
<b>COC Number</b>		na		
	<b>UNITS</b>	<b>M-22-3396</b>	<b>RDL</b>	<b>QC Batch</b>
<b>Metals</b>				
Total Aluminum (Al)	mg/L	0.463	0.0030	7973217
Total Antimony (Sb)	mg/L	<0.00050	0.00050	7973217
Total Arsenic (As)	mg/L	0.0461	0.00010	7973217
Total Barium (Ba)	mg/L	0.0993	0.0010	7973217
Total Beryllium (Be)	mg/L	<0.00010	0.00010	7973217
Total Bismuth (Bi)	mg/L	<0.0010	0.0010	7973217
Total Boron (B)	mg/L	0.102	0.050	7973217
Total Cadmium (Cd)	mg/L	0.000020	0.000010	7973217
Total Chromium (Cr)	mg/L	0.0014	0.0010	7973217
Total Cobalt (Co)	mg/L	0.00062	0.00020	7973217
Total Copper (Cu)	mg/L	0.0120	0.00050	7973217
Total Iron (Fe)	mg/L	1.33	0.010	7973217
Total Lead (Pb)	mg/L	0.00427	0.00020	7973217
Total Lithium (Li)	mg/L	0.119	0.0020	7973217
Total Manganese (Mn)	mg/L	0.0342	0.0010	7973217
Total Molybdenum (Mo)	mg/L	0.0022	0.0010	7973217
Total Nickel (Ni)	mg/L	0.0057	0.0010	7973217
Total Selenium (Se)	mg/L	0.00013	0.00010	7973217
Total Silicon (Si)	mg/L	3.03	0.10	7973217
Total Silver (Ag)	mg/L	0.000036	0.000020	7973217
Total Strontium (Sr)	mg/L	2.20	0.0010	7973217
Total Thallium (Tl)	mg/L	0.000076	0.000010	7973217
Total Tin (Sn)	mg/L	<0.0050	0.0050	7973217
Total Titanium (Ti)	mg/L	0.0084	0.0050	7973217
Total Uranium (U)	mg/L	0.00045	0.00010	7973217
Total Vanadium (V)	mg/L	<0.0050	0.0050	7973217
Total Zinc (Zn)	mg/L	0.0509	0.0050	7973217
Total Zirconium (Zr)	mg/L	0.00023	0.00010	7973217
Total Calcium (Ca)	mg/L	187	0.050	7973216
Total Magnesium (Mg)	mg/L	32.2	0.050	7973216
Total Potassium (K)	mg/L	13.8	0.050	7973216
RDL = Reportable Detection Limit QC Batch = Quality Control Batch				



BUREAU  
VERITAS

Bureau Veritas Job #: C2B2646  
Report Date: 2022/05/03

Agnico-Eagle  
Site Location: MELIADINE  
Your P.O. #: OL-1129375  
Sampler Initials: DM

**TOTAL ICPMS METALS FOR CCME CEQG FOR SW (SURFACE WATER)**

<b>Bureau Veritas ID</b>		SLX763		
<b>Sampling Date</b>		2022/04/21 13:00		
<b>COC Number</b>		na		
	<b>UNITS</b>	<b>M-22-3396</b>	<b>RDL</b>	<b>QC Batch</b>
Total Sodium (Na)	mg/L	72.5	0.050	7973216
Total Sulphur (S)	mg/L	33.7	3.0	7973216
<b>Calculated Parameters</b>				
Total Hardness (CaCO3)	mg/L	600	0.50	7973215
RDL = Reportable Detection Limit QC Batch = Quality Control Batch				





**BUREAU**  
**VERITAS**

Bureau Veritas Job #: C2B2646  
Report Date: 2022/05/03

Agnico-Eagle  
Site Location: MELIADINE  
Your P.O. #: OL-1129375  
Sampler Initials: DM

### RESULTS OF ANALYSES OF SURFACE WATER

<b>Bureau Veritas ID</b>		SLX763		
<b>Sampling Date</b>		2022/04/21 13:00		
<b>COC Number</b>		na		
	<b>UNITS</b>	<b>M-22-3396</b>	<b>RDL</b>	<b>QC Batch</b>
<b>Inorganics</b>				
Total Suspended Solids	mg/L	38	1	7965077
<b>Petroleum Hydrocarbons</b>				
Total Oil & Grease	mg/L	0.50	0.50	7966960
RDL = Reportable Detection Limit QC Batch = Quality Control Batch				



BUREAU  
VERITAS

Bureau Veritas Job #: C2B2646  
Report Date: 2022/05/03

Agnico-Eagle  
Site Location: MELIADINE  
Your P.O. #: OL-1129375  
Sampler Initials: DM

### TEST SUMMARY

**Bureau Veritas ID:** SLX763  
**Sample ID:** M-22-3396  
**Matrix:** Surface Water

**Collected:** 2022/04/21  
**Shipped:**  
**Received:** 2022/04/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	7965323	N/A	2022/04/28	Anca Ganea
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7965503	2022/04/28	2022/04/29	Agnieszka Brzuzy-Snopko
Hardness Total (calculated as CaCO3)	CALC	7973215	N/A	2022/05/03	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	7973216	2022/05/03	2022/05/03	Automated Statchk
Elements by CRC ICPMS (total)	ICP/MS	7973217	2022/04/29	2022/05/02	Andrew An
Total Oil and Grease	BAL	7966960	2022/04/29	2022/04/29	Atinder Singh
Low Level Total Suspended Solids	BAL	7965077	2022/04/28	2022/04/29	Shaneil Hall



BUREAU  
VERITAS

Bureau Veritas Job #: C2B2646  
Report Date: 2022/05/03

Agnico-Eagle  
Site Location: MELIADINE  
Your P.O. #: OL-1129375  
Sampler Initials: DM

### GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	12.7°C
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**Results relate only to the items tested.**



**BUREAU VERITAS**

Bureau Veritas Job #: C2B2646  
 Report Date: 2022/05/03

**QUALITY ASSURANCE REPORT**

Agnico-Eagle  
 Site Location: MELIADINE  
 Your P.O. #: OL-1129375  
 Sampler Initials: DM

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7965323	1,4-Difluorobenzene	2022/04/28	101	70 - 130	100	70 - 130	100	%				
7965323	4-Bromofluorobenzene	2022/04/28	105	70 - 130	102	70 - 130	100	%				
7965323	D10-o-Xylene	2022/04/28	98	70 - 130	96	70 - 130	92	%				
7965323	D4-1,2-Dichloroethane	2022/04/28	111	70 - 130	106	70 - 130	107	%				
7965503	o-Terphenyl	2022/04/29	101	60 - 130	98	60 - 130	98	%				
7965077	Total Suspended Solids	2022/04/29					<1	mg/L	6.9	NC	25	85 - 115
7965323	Benzene	2022/04/28	111	50 - 140	107	50 - 140	<0.20	ug/L	NC	30		
7965323	Ethylbenzene	2022/04/28	114	50 - 140	114	50 - 140	<0.20	ug/L	NC	30		
7965323	F1 (C6-C10) - BTEX	2022/04/28					<25	ug/L	NC	30		
7965323	F1 (C6-C10)	2022/04/28	98	60 - 140	97	60 - 140	<25	ug/L	NC	30		
7965323	o-Xylene	2022/04/28	114	50 - 140	112	50 - 140	<0.20	ug/L	NC	30		
7965323	p+m-Xylene	2022/04/28	113	50 - 140	115	50 - 140	<0.40	ug/L	NC	30		
7965323	Toluene	2022/04/28	103	50 - 140	102	50 - 140	<0.20	ug/L	NC	30		
7965323	Total Xylenes	2022/04/28					<0.40	ug/L	NC	30		
7965503	F2 (C10-C16 Hydrocarbons)	2022/04/29	115	60 - 130	108	60 - 130	<100	ug/L	18	30		
7965503	F3 (C16-C34 Hydrocarbons)	2022/04/29	116	60 - 130	111	60 - 130	<200	ug/L	NC	30		
7965503	F4 (C34-C50 Hydrocarbons)	2022/04/29	116	60 - 130	109	60 - 130	<200	ug/L	NC	30		
7966960	Total Oil & Grease	2022/04/29			99	85 - 115	<0.50	mg/L	1.3	25		
7973217	Total Aluminum (Al)	2022/05/02	99	80 - 120	99	80 - 120	<0.0030	mg/L				
7973217	Total Antimony (Sb)	2022/05/02	102	80 - 120	100	80 - 120	<0.00050	mg/L				
7973217	Total Arsenic (As)	2022/05/02	102	80 - 120	102	80 - 120	<0.00010	mg/L				
7973217	Total Barium (Ba)	2022/05/02	98	80 - 120	97	80 - 120	<0.0010	mg/L				
7973217	Total Beryllium (Be)	2022/05/02	109	80 - 120	107	80 - 120	<0.00010	mg/L				
7973217	Total Bismuth (Bi)	2022/05/02	103	80 - 120	97	80 - 120	<0.0010	mg/L				
7973217	Total Boron (B)	2022/05/02	81	80 - 120	105	80 - 120	<0.050	mg/L				
7973217	Total Cadmium (Cd)	2022/05/02	102	80 - 120	101	80 - 120	<0.000010	mg/L				
7973217	Total Chromium (Cr)	2022/05/02	101	80 - 120	99	80 - 120	<0.0010	mg/L				
7973217	Total Cobalt (Co)	2022/05/02	103	80 - 120	103	80 - 120	<0.00020	mg/L				
7973217	Total Copper (Cu)	2022/05/02	103	80 - 120	99	80 - 120	<0.00050	mg/L				
7973217	Total Iron (Fe)	2022/05/02	105	80 - 120	104	80 - 120	<0.010	mg/L				
7973217	Total Lead (Pb)	2022/05/02	101	80 - 120	100	80 - 120	<0.00020	mg/L				
7973217	Total Lithium (Li)	2022/05/02	116	80 - 120	105	80 - 120	<0.0020	mg/L				



BUREAU  
VERITAS  
1828

Bureau Veritas Job #: C2B2646  
Report Date: 2022/05/03

## QUALITY ASSURANCE REPORT(CONT'D)

Agnico-Eagle  
Site Location: MELIADINE  
Your P.O. #: OL-1129375  
Sampler Initials: DM

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7973217	Total Manganese (Mn)	2022/05/02	103	80 - 120	99	80 - 120	<0.0010	mg/L				
7973217	Total Molybdenum (Mo)	2022/05/02	NC	80 - 120	104	80 - 120	<0.0010	mg/L				
7973217	Total Nickel (Ni)	2022/05/02	101	80 - 120	100	80 - 120	<0.0010	mg/L				
7973217	Total Selenium (Se)	2022/05/02	106	80 - 120	106	80 - 120	<0.00010	mg/L				
7973217	Total Silicon (Si)	2022/05/02	NC	80 - 120	107	80 - 120	<0.10	mg/L				
7973217	Total Silver (Ag)	2022/05/02	101	80 - 120	102	80 - 120	<0.000020	mg/L				
7973217	Total Strontium (Sr)	2022/05/02	NC	80 - 120	98	80 - 120	<0.0010	mg/L				
7973217	Total Thallium (Tl)	2022/05/02	96	80 - 120	99	80 - 120	<0.000010	mg/L				
7973217	Total Tin (Sn)	2022/05/02	103	80 - 120	102	80 - 120	<0.0050	mg/L				
7973217	Total Titanium (Ti)	2022/05/02	100	80 - 120	101	80 - 120	<0.0050	mg/L				
7973217	Total Uranium (U)	2022/05/02	96	80 - 120	97	80 - 120	<0.00010	mg/L				
7973217	Total Vanadium (V)	2022/05/02	104	80 - 120	100	80 - 120	<0.0050	mg/L				
7973217	Total Zinc (Zn)	2022/05/02	105	80 - 120	101	80 - 120	<0.0050	mg/L				
7973217	Total Zirconium (Zr)	2022/05/02	103	80 - 120	100	80 - 120	<0.00010	mg/L				

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).



BUREAU  
VERITAS

Bureau Veritas Job #: C2B2646  
Report Date: 2022/05/03

Agnico-Eagle  
Site Location: MELIADINE  
Your P.O. #: OL-1129375  
Sampler Initials: DM

### VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

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Cristina Carriere, Senior Scientific Specialist

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David Huang, BBY Scientific Specialist

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Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



**BUREAU**  
**VERITAS**

Bureau Veritas Job #: C2B2646  
Report Date: 2022/05/03

Agnico-Eagle  
Site Location: MELIADINE  
Your P.O. #: OL-1129375  
Sampler Initials: DM

**Exceedance Summary Table – Metal Mining Effluent Reg  
Result Exceedances**

Sample ID	Bureau Veritas ID	Parameter	Criteria	Result	DL	UNITS
No Exceedances						
The exceedance summary table is for information purposes only and should not be considered a comprehensive listing or statement of conformance to applicable regulatory guidelines.						



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>04-23-2022</b>	REPORT TIME <b>18:15</b>	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR		REPORT NUMBER  _____
	OCCURRENCE DATE: MONTH – DAY – YEAR <b>04-22-2022</b>	OCCURRENCE TIME <b>20:00</b>	<input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT		
<b>C</b>	LAND USE PERMIT NUMBER (IF APPLICABLE) <b>KVPL11D01</b>	WATER LICENCE NUMBER (IF APPLICABLE) <b>2AM-MEL1631</b>			
	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION <b>Meliadine Gold Project</b>	REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN			
<b>E</b>	LATITUDE DEGREES <b>63</b> MINUTES <b>2</b> SECONDS <b>21</b>	LONGITUDE DEGREES <b>92</b> MINUTES <b>13</b> SECONDS <b>41</b>			
	RESPONSIBLE PARTY OR VESSEL NAME <b>Agnico Eagle Mines Ltd.</b>	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION <b>Meliadine, Rankin Inlet, Nunavut, X0C 0G0</b>			
<b>G</b>	ANY CONTRACTOR INVOLVED <b>N/A</b>	CONTRACTOR ADDRESS OR OFFICE LOCATION <b>N/A</b>			
	PRODUCT SPILLED <b>Thickener Water</b>	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES <b>10m3</b>	U.N. NUMBER <b>N/A</b>		
<b>H</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>		
	SPILL SOURCE <b>Process Plant</b>	SPILL CAUSE <b>Overflow</b>	AREA OF CONTAMINATION IN SQUARE METRES		
<b>J</b>	FACTORS AFFECTING SPILL OR RECOVERY <b>None</b>	DESCRIBE ANY ASSISTANCE REQUIRED <b>None</b>	HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT <b>None</b>		
	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS				
<b>K</b>	<b>On April 22nd, 2022, a shutdown of the clarifier in the process plant caused process liquids to backup, resulting in an overflow of thickener water which flowed onto the ground outside of the process plant.</b>				
	<b>No water bodies were impacted with the closest water body (G2 lake) approximately 600 m away.</b>				
<b>L</b>	<b>Pursuant to Part H, Section 8c of the Water License, a follow-up report will be issued after a closer investigation is completed.</b>				
	<b>Location of spill: 63 2'11.5"N 92 13'35.3"W</b>				
<b>M</b>	<b>Contact information: Brett Fairbairn 819-759-3555 extension 4603996</b>				
	<b>Email - brett.fairbairn@agnicoeagle.com</b>				
<b>L</b>	REPORTED TO SPILL LINE BY <b>Brett Fairbairn</b>	POSITION <b>Env. Coordinator</b>	EMPLOYER <b>AEM</b>	LOCATION CALLING FROM <b>Meliadine</b>	TELEPHONE <b>819-759-3555</b>
	ANY ALTERNATE CONTACT <b>Matt Gillman</b>	POSITION <b>Env. Superintendent</b>	EMPLOYER <b>AEM</b>	ALTERNATE CONTACT LOCATION <b>Meliadine</b>	ALTERNATE TELEPHONE <b>819-355-9493</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					



# Follow Up Report: #2022140

## April 22<sup>nd</sup>, 2022 – Thickener Process Water Spill

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The following information relates to spill 2022140 reported by Agnico Eagle Mines Limited on April 23<sup>rd</sup>, 2022, and is being provided in accordance with:

- the Nunavut Water Board License 2AM-MEL1631 Water Licence, part H, item 8c.

### Description of Incident

On April 22<sup>nd</sup>, 2022, a shutdown of the clarifier in the process plant caused process liquids to backup, resulting in an overflow of thickener. 10 cubic meters of thickener process water flowed onto the ground outside of the process plant.

The coordinates of this spill are 63 2'11.5"N, 92 13'35.3"W. No water bodies were impacted by this spill; the closest water body (G2) is approximately 600 m northwest.



**Figure 1:** Location of the April 22<sup>nd</sup>, 2022, thickener process water spill.

### Spill Response & Cleanup

To immediately stop the spill; the process was stopped and the manual valve to the Clarifier Feed Tank was opened to stop flow into the thickener.

The topography of the area and the freezing conditions caused the thickener process water to pool and freeze on the west side of process road. A loader and haul truck were used to cleanup the material. All material collected was placed in the process plant where it will melt and be returned to the process plant system.



**Figure 2:** Thickener process water spill cleanup



**Figure 3:** Thickener process water spill material disposal location

### **Cause of Incident and Corrective Measures**

The investigation into the cause of the release identified as human error. The manual valve that allows water to be discharged into our Clarifier Feed Tank was not put in the open position. This sent a surge of water to the thickener causing the spill.

The following corrective measures have been implemented:

- The manual discharge valve feeding the Clarifier Feed Tank was replaced with an auto valve with interlocks. The interlocks will ensure the valve moves to the open position when 1 or more clarifier feed valves are closed. This will prevent a surge of water from reaching the thickener.
- The thickener flow procedure has been reviewed with the Control Room Operator and Process Operators.

In addition to the above-mentioned completed corrective measures, the construction of a containment berm is scheduled for summer 2022.



**Brett Fairbairn** | Environment Coordinator

brett.fairbairn@agnicoeagle.com | Direct 819.759.3555 x4603996 |

Agnico Eagle Mines Limited - Meliadine Mine, Suite 879 - Rankin Inlet,  
Nunavut, Canada X0C 0G0

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# 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>04-24-2022</b>	REPORT TIME <b>15:30</b>	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT	<b>REPORT NUMBER</b>  _____
<b>B</b>	OCCURRENCE DATE: MONTH – DAY – YEAR <b>04-24-2022</b>	OCCURRENCE TIME <b>03:30</b>		
<b>C</b>	LAND USE PERMIT NUMBER (IF APPLICABLE) <b>KVPL11D01</b>	WATER LICENCE NUMBER (IF APPLICABLE) <b>2AM-MEL1631</b>		
<b>D</b>	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION <b>Meliadine Gold Project</b>	REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN		
<b>E</b>	LATITUDE DEGREES <b>63</b> MINUTES <b>2</b> SECONDS <b>21</b>	LONGITUDE DEGREES <b>92</b> MINUTES <b>13</b> SECONDS <b>41</b>		
<b>F</b>	RESPONSIBLE PARTY OR VESSEL NAME <b>Agnico Eagle Mines Ltd.</b>	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION <b>Meliadine, Rankin Inlet, Nunavut, X0C 0G0</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>Untreated Sewage</b>	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES <b>200 Liters</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>MSB Lift Station</b>	SPILL CAUSE <b>Overflow</b>	AREA OF CONTAMINATION IN SQUARE METRES <b>3</b>	
<b>J</b>	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>	

<b>K</b>	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS  <b>An overflow of the MSB lift station resulted in a spill of 200 L of sewage to the industrial pad. The spill was contained to a low spot in the local area and froze in place. Due to the infrastructure in the area cleanup plans are still being considered.</b>  <b>The coordinates of the spill are 63° 2' 21.21"N, 92° 40.38"W. No water bodies were impacted by this spill. The nearest natural water body (G2) is 325 m north.</b> <b>Pursuant to Part H, Item 8c of water license 2AM-MEL1631, a follow up report will be issued after the investigation is completed.</b>  <b>Reported by Brett Fairbairn Environment Coordinator 819-759-3555 ext. 4603996</b> <b>Brett.Fairbairn@agnicoeagle.com.</b>			
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<b>L</b>	REPORTED TO SPILL LINE BY <b>Brett Fairbarin</b>	POSITION <b>Env. Coordinator</b>	EMPLOYER <b>AEM</b>	LOCATION CALLING FROM <b>Meliadine</b>	TELEPHONE <b>819-759-3555</b>
<b>M</b>	ANY ALTERNATE CONTACT <b>Matt Gillman</b>	POSITION <b>Env. Gen. Supervisor</b>	EMPLOYER <b>AEM</b>	ALTERNATE CONTACT LOCATION <b>Meliadine</b>	ALTERNATE TELEPHONE <b>819-355-9493</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					

## Follow Up Report: #2022143 April 24<sup>th</sup>, 2022 – 200 L Sewage

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The following information refers to incident #2022143 reported by Agnico Eagle Mines Limited April 24<sup>th</sup>, 2022, and is being provided in accordance with:

- the Nunavut Water Board License 2AM-MEL1631 Water License, Part H, Item 8c.

### Description of Incident

At approximately 03:30 on April 24<sup>th</sup>, 2022, 200 L of sewage was spilled at the Multi Service Building (MSB) lift station when the lift station pump failed.

The coordinates of this spill are 63° 2' 21"N, 92° 13' 40"W. No water bodies were impacted by this spill. The closest waterbody (G2) is approximately 325 m north.



**Figure 1:** Location of the MSB lift station spill

## Spill Response & Cleanup

The spill was contained to a low area behind the MSB lift station. The freezing conditions prevented the sewage from migrating off site. Infrastructure (structural steel, pipes and electrical) in the area made cleanup activities during winter month hazardous. As the material melts the vacuum truck will collect the melted material. The contaminated matrilateral collected with the vacuum truck will be returned to the MSB lift station.

## Cause of Incident and Corrective Measures

As the lift station reached the high-level pump #2 tripped. The backup pump did not start as the selector switch was set to Pump #2. This allowed the lift station to overflow releasing 200 L of sewage to the ground.

The following corrective measures have been implemented:

- the pump overload limits were increased to prevent the pump from early tripping;
- the float control system was adjusted to start the pump earlier;
- the pump selector was verified to ensure it is functioning properly and the selector was set to the alternate position during normal operations (this will allow pump #1 to start should pump #2 fail).

In addition to the above-mentioned completed corrective measures, Agnico Eagle Mines Limited has retained a consultant to complete an evaluation of the site lift stations.



**Brett Fairbairn** | Environment Coordinator

brett.fairbairn@agnicoeagle.com | Direct 819.759.3555 x4603996 |

Agnico Eagle Mines Limited - Meliadine Mine, Suite 879 - Rankin Inlet, Nunavut,  
Canada X0C 0G0

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# 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>04-26-2022</b>	REPORT TIME <b>15:30</b>	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT	<b>REPORT NUMBER</b>  _____
<b>B</b>	OCCURRENCE DATE: MONTH – DAY – YEAR <b>04-25-2022</b>	OCCURRENCE TIME <b>16:30</b>		
<b>C</b>	LAND USE PERMIT NUMBER (IF APPLICABLE) <b>KVPL11D01</b>	WATER LICENCE NUMBER (IF APPLICABLE) <b>2AM-MEL1631</b>		
<b>D</b>	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION <b>Meliadine Gold Project</b>		REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN	
<b>E</b>	LATITUDE DEGREES <b>63</b> MINUTES <b>2</b> SECONDS <b>21</b>		LONGITUDE DEGREES <b>92</b> MINUTES <b>13</b> SECONDS <b>41</b>	
<b>F</b>	RESPONSIBLE PARTY OR VESSEL NAME <b>Agnico Eagle Mines Ltd.</b>	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION <b>Meliadine, Rankin Inlet, Nunavut, X0C 0G0</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>Untreated Sewage</b>	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES <b>25 Liters</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>MSB Lift Station</b>	SPILL CAUSE <b>Equipment Failure</b>	AREA OF CONTAMINATION IN SQUARE METRES <b>10</b>	
<b>J</b>	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>	

<b>K</b>	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS <p><b>A failed CamLock at the MSB lift station resulted in a spill of 25 L of sewage to the industrial pad. The spill was contained to the local area and froze in place. The frozen sewage was cleaned up and placed in drums for treatment at a later date.</b></p> <p><b>The coordinates of the spill are 63° 2' 21.21"N, 92° 40.38"W. No water bodies were impacted by this spill. The nearest natural water body (G2) is 325 m north. Pursuant to Part H, Item 8c of water license 2AM-MEL1631, a follow up report will be issued after the investigation is completed.</b></p> <p><b>Reported by Brett Fairbairn Environment Coordinator 819-759-3555 ext. 4603996 Brett.Fairbairn@agnicoeagle.com.</b></p>			
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<b>L</b>	REPORTED TO SPILL LINE BY <b>Brett Fairbarin</b>	POSITION <b>Env. Coordinator</b>	EMPLOYER <b>AEM</b>	LOCATION CALLING FROM <b>Meliadine</b>	TELEPHONE <b>819-759-3555</b>
<b>M</b>	ANY ALTERNATE CONTACT <b>Matt Gillman</b>	POSITION <b>Interim Env. Supt.</b>	EMPLOYER <b>AEM</b>	ALTERNATE CONTACT LOCATION <b>Meliadine</b>	ALTERNATE TELEPHONE <b>819-355-9493</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
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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					

## Follow Up Report: #2022148 April 25<sup>th</sup>, 2022 – 25 L Sewage

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The following information refers to an incident #2022148 reported by Agnico Eagle Mines Limited April 26<sup>th</sup>, 2022, and is being provided in accordance with:

- the Nunavut Water Board License 2AM-MEL1631 Water License, Part H, Item 8c.

### Description of Incident

At approximately 16:30 on April 25<sup>th</sup>, 2022, 25 L of sewage was spilled at the Multi Service Building (MSB) lift station when a CamLock connector failed.

The coordinates of this spill are 63° 2' 21"N, 92° 13' 40"W. No water bodies were impacted by this spill. The closest water body (G2) is approximately 325 m north.



**Figure 1:** Location of the MSB lift station spill

### Spill Response & Cleanup

The spill was contained to Lift station building and the local area. The freezing conditions prevented the sewage from migrating, facilitating spill recovery. Frozen contaminated material was in an open area allowing the material to be collected with a loader and placed in a drum and disposed of after the frozen material has melted.





**Figure 2:** MSB lift station spill cleanup

### **Cause of Incident and Corrective Measures**

While transferring the content of the vacuum truck into the MSB lift station, the operator inadvertently used a broken CamLock connector to connect the hose to the lift station. The sewage vacuum hose became dislodged releasing sewage inside the MSB lift station and to the ground outside the life station.

The following corrective measures have been implemented:

- the defective CamLock fitting was replaced;
- a threaded coupler that has less tendency to fail as there are no movable latches has been ordered and will replace the current latching style of CamLock fitting when they arrive;
- whip check cables have been installed to reduce hose movement during sewage transfer.

In addition to the above-mentioned completed corrective measures, Agnico Eagle Mines Limited has retained a consultant to complete an evaluation of the site lift stations.



**Brett Fairbairn** | Environment Coordinator

brett.fairbairn@agnicoeagle.com | Direct 819.759.3555 x4603996 |

Agnico Eagle Mines Limited - Meliadine Mine, Suite 879 - Rankin Inlet, Nunavut,  
Canada X0C 0G0

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# NT-NU SPILL REPORT

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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>05-04-2022</b>	REPORT TIME	<input type="checkbox"/> ORIGINAL SPILL REPORT, OR		REPORT NUMBER _____
	OCCURRENCE DATE: MONTH – DAY – YEAR <b>05-04-2022</b>	OCCURRENCE TIME <b>07:00</b>	<input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT		
<b>C</b>	LAND USE PERMIT NUMBER (IF APPLICABLE) <b>KVPL11D01</b>	WATER LICENCE NUMBER (IF APPLICABLE) <b>2BB-MEL-1424</b>			
	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION <b>Meliadine Gold Project</b>		REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN		
<b>E</b>	LATITUDE	LONGITUDE			
	DEGREES <b>63</b> MINUTES <b>2</b> SECONDS <b>21</b>	DEGREES <b>92</b> MINUTES <b>13</b> SECONDS <b>41</b>			
<b>F</b>	RESPONSIBLE PARTY OR VESSEL NAME <b>AEM</b>	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION <b>Meliadine, Rankin Inlet, Nunavut, X0C 0G0</b>			
	ANY CONTRACTOR INVOLVED <b>Orbit Garant</b>	CONTRACTOR ADDRESS OR OFFICE LOCATION <b>Val-d'Or</b>			
<b>H</b>	PRODUCT SPILLED <b>Drilling Recirculation Water</b>	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES <b>75 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>Recirculation Tank</b>	SPILL CAUSE <b>Groundwater Vein Intersection</b>	AREA OF CONTAMINATION IN SQUARE METRES <b>10 m2</b>		
	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>		
<b>K</b>	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS				
	<p><b>On May 4, 2022 during an environmental inspection of the Orbit drill rig on waterbody B38, a worker identified that drilling recirculation water overflowed from the recirculation tank to the ice surface. The overflow was caused by a water vein intersection in the borehole which caused an excess of water in the recirculation system. No drilling recirculation water entered the waterbody as it was contained on the surface of the ice cover. The location of the spill was: 63°0'26"N, 92°12'35"W.</b></p> <p><b>Pursuant to Part H, section 4c of the Water License, a follow up report will be issued after a closer investigation is completed.</b></p> <p><b>Reported by Randy Schwandt, Environment Coordinator (819-759-3555 x4603996; randy.schwandt@agnicoeagle.com).</b></p>				
<b>L</b>	REPORTED TO SPILL LINE BY <b>Randy Schwandt</b>	POSITION <b>Env. Coordinator</b>	EMPLOYER <b>AEM</b>	LOCATION CALLING FROM <b>Meliadine</b>	TELEPHONE <b>819-759-3555</b>
	ANY ALTERNATE CONTACT <b>Matt Gillman</b>	POSITION <b>Env. Superint. Interim</b>	EMPLOYER <b>AEM</b>	ALTERNATE CONTACT LOCATION <b>Meliadine</b>	ALTERNATE TELEPHONE <b>819-759-3555</b>
<b>REPORT LINE USE ONLY</b>					
<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					

# Follow Up Report: #2022164

## May 4<sup>th</sup>, 2022,

### 75 L Drilling Recirculation Water on Waterbody B38

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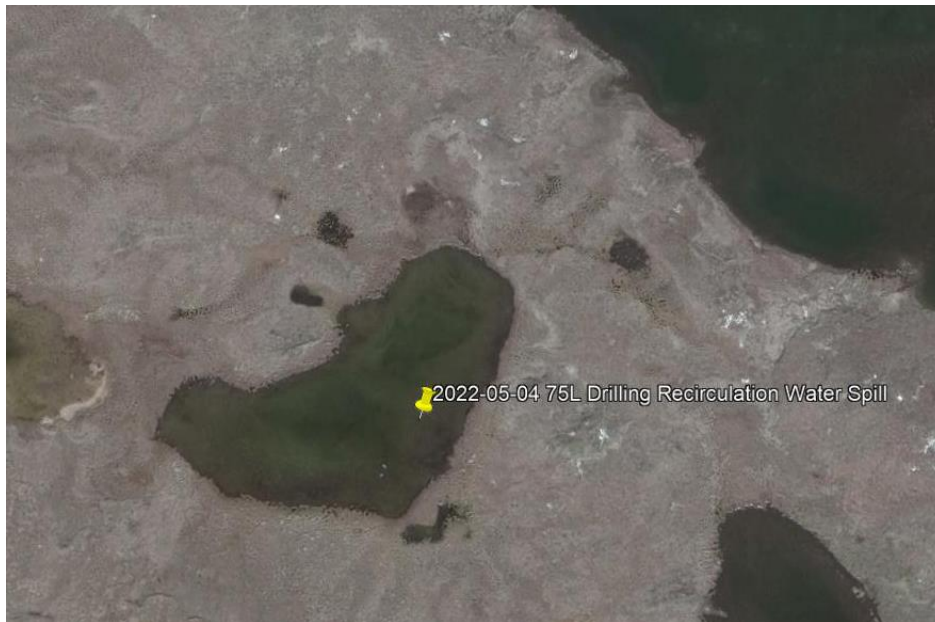
The following information relates to spill #2022164 reported by Agnico Eagle Mines Limited on May 4<sup>th</sup>, 2022, and is being provided in accordance with:

- the Nunavut Water Board License 2BB-MEL1424 Water Licence, part H, item 4c
- the Fisheries Act subsection 38(7)

#### Description of Incident:

On May 4<sup>th</sup>, 2022, during an environmental inspection of the Orbit Garant drill rigs located on waterbody B38, a worker identified that 75 L of drilling recirculation water had overflowed from the decantation tank to the surface of the ice.

The coordinates of the spill are: 63° 0' 26" N, 92°12' 35"W, which is on waterbody B38.



**Figure 1:** Drilling recirculation water spill location

#### Spill Response & Cleanup:

At the time of inspection, the decantation tank was no longer overflowing, and drilling recirculation water was no longer spilling onto the ice. The cleanup of the spill was completed as part of the final site cleanup as all drilling operations were complete at the site. During the drill site cleanup all impacted snow and ice was removed and sent to the drill cuttings disposal area with the remaining drill cuttings.



**Figure 2:** Spill location prior to clean-up. A post clean-up photo is not available. The corrective measures to follow to address this discrepancy are in the updated procedure EXP-ENV-001 as outlined below.

### **Cause of Incident and Corrective Measures**

The release was a result of a natural cause as the borehole intersected a water vein, which caused an excess of water in the recirculation system (more water was coming out of the hole than being used for regular drilling operations). The decantation tank overflowed releasing recirculation water onto the surface of the ice. Orbit Garant stopped the flow of fresh water into the decantation tank immediately after the overflow was observed.

With respect to corrective measures, the procedure titled “**EXP-ENV-001 Brief summary for Environmental compliance during exploration activities**” has been updated to include further details on when and how the spring inspection and clean-up of previous drill sites and pump shack setups will be performed. Every inspection will be compiled in a folder accessible to Environment Department, with maps and pictures attached. The following reviews some key components of the updated procedure.

#### **Updated Procedure EXP-ENV-001:**

##### **After the exploration activities:**

- ✓ Remove the casings. Where drill casings cannot be removed, cut off the casings at ground level.
- ✓ Should a casing have to stay on site (land-based drilling only), note the coordinates and add signaling to keep the area safe. The drill casings that are left cannot stay on the field for more than 2 years after the drilling.
- ✓ Inspect each drilling site, remove all waste or material remaining and take pictures.
- ✓ If drilling on ice, take the final water samples according to the water Licence and associated procedure.

##### **Overall spring clean-up, inspection, and final validation:**

During the winter, drilling waste or materials can be covered up by wind, blizzards, or snow accumulation. A spring inspection is therefore of importance in addition to the post-drilling inspection conducted in the winter. At Agnico

Eagle Nunavut projects, a clean-up of the drilling sites is conducted every spring season (since 2008) upon snow melt. This practice was carried out even though it was not yet documented in a procedure. Agnico Eagle is proposing the following procedure items for the spring inspection and clean-up moving forward:

- ✓ Every week following the drilling campaign completion, a technician will perform a visual observation of the lake to determine if the snow melt is advanced enough to conduct the clean-up activities of material previously hidden under the snow.
- ✓ As soon as materials are observed, once every 1-3 days (depending on the weather and snow melt rate) a team will walk to every drilling setup and pick up all the remaining material. If the lake shore is accessible, they may access the lake by foot, if not then a helicopter can be used. Workers are required to wear floating PPE and always have visual contact with each other. Each worker will have a radio and make frequent radio checks with a supervisor on site. The working on ice procedure will be followed. All material is to be removed from the lake in a timely matter.
- ✓ If any petroleum hydrocarbons are observed, the quantity and nature of product will be assessed a picture will be taken and the Environment team will be contacted. Matting and other absorbents will be applied, and a GPS point taken and noted.
- ✓ A 10-foot pole with hook will be used to grab materials close to an open water hole. These holes are not to be approached closer than 6 feet by the workers, as the ice can be thinner around it.
- ✓ A map with the tracking of the areas covered by the team, with the location of all pump shacks and drill holes from the current season, will be created. All major findings and any spills observed will be noted on this map, with the date and the name of the project responsible on the field. The map will be provided to the environment team and attached in appendix of the weekly geology report. If some sectors were not accessible anymore due to health and safety considerations, they also will be noted. Drone photos taken on the lake of the old drilling setups will be attached to the environmental inspection compilation file with the map.



**Randy Schwandt** | Environment Coordinator

[randy.schwandt@agnicoeagle.com](mailto:randy.schwandt@agnicoeagle.com) | Direct 819.759.3555 x4603996 |

Agnico Eagle Mines Limited - Meliadine Mine, Suite 879 - Rankin Inlet, Nunavut,  
Canada X0C 0G0

[agnicoeagle.com](http://agnicoeagle.com)    



# NT-NU SPILL REPORT

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EMAIL: spills@gov.nt.ca

REPORT LINE USE ONLY

<b>A</b>	REPORT DATE: MONTH – DAY – YEAR <b>05-09-2022</b>	REPORT TIME <b>7:00</b>	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT	<b>REPORT NUMBER</b>  _____
<b>B</b>	OCCURRENCE DATE: MONTH – DAY – YEAR <b>05-08-2022</b>	OCCURRENCE TIME <b>7:30</b>		
<b>C</b>	LAND USE PERMIT NUMBER (IF APPLICABLE) <b>KVPL11D01</b>	WATER LICENCE NUMBER (IF APPLICABLE) <b>2AM-MEL1631</b>		
<b>D</b>	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION <b>Meliadine Gold Project</b>		REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN	
<b>E</b>	LATITUDE DEGREES <b>63</b> MINUTES <b>2</b> SECONDS <b>21</b>		LONGITUDE DEGREES <b>92</b> MINUTES <b>13</b> SECONDS <b>41</b>	
<b>F</b>	RESPONSIBLE PARTY OR VESSEL NAME <b>Agnico Eagle Mines Ltd.</b>	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION <b>Meliadine, Rankin Inlet, Nunavut, X0C 0G0</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>Saline water</b>	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES <b>800L</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 pipe</b>	SPILL CAUSE <b>Grader passage</b>	AREA OF CONTAMINATION IN SQUARE METRES <b>90m2</b>	
<b>J</b>	FACTORS AFFECTING SPILL OR RECOVERY <b>None</b>	DESCRIBE ANY ASSISTANCE REQUIRED <b>None</b>	HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT <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>On May 8th, 2022, at 7:30am the 4-inch diesel pump at Saline Pond 1 was started to pump saline water to Tiriganiaq Open Pit 2. Upon start up, water was observed coming up from the haul road, north of Tiriganiaq Open Pit 2. The pump was immediately shut off. It appears the pipe was damaged by a grader where it passes under the haul road's surface.</b>  <b>Location of spill: 63 1' 31" N 92 12' 2" W</b> <b>No water bodies were impacted, the closest water body (J6) is approximately 500 m away (SW).</b>  <b>Pursuant to Part H, Section 8c of the Water License, a follow-up report will be issued after a closer investigation is completed.</b> <b>Reported by Sara Savoie, Environment General Supervisor (819-759-3555, x4603212).</b>			
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<b>L</b>	REPORTED TO SPILL LINE BY <b>Sara Savoie</b>	POSITION <b>Environment GS</b>	EMPLOYER <b>AEM</b>	LOCATION CALLING FROM <b>Meliadine</b>	TELEPHONE <b>819-759-3555</b>
<b>M</b>	ANY ALTERNATE CONTACT <b>Matt Gillman</b>	POSITION <b>Env. Supert. Interim</b>	EMPLOYER <b>AEM</b>	ALTERNATE CONTACT LOCATION <b>Meliadine</b>	ALTERNATE TELEPHONE <b>519-373-6249</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					

# Follow Up Report: #2022171

## May 8<sup>th</sup>, 2022 Saline Water Spill



The following information refers to spill 2022171 reported by Agnico Eagle Mines Ltd. May 8<sup>th</sup>, 2022, and is being provided in accordance with:

- the Nunavut Water Board License 2AM-MEL1631 Water License, part H, item 8c

### Description of Incident:

On May 8<sup>th</sup>, 2022 a water pump was turned on to pump saline water from one saline pond to another; from Saline Pond 1 to Tiriganiaq Pit 2. Shortly after, the Environment Department was informed that water was observed coming up from the Haul road north of Tiriganiaq Pit 2. Upon investigation, it was found that the pipe that transports the saline water had been broken; the pump at Saline Pond 1 was immediately turned off to stop the flow of saline water. It is estimated that a cumulative volume of approximately 800 L of saline water was discharged onto the Haul Road. Based on local topography, the runoff of this saline water will have entered Tiriganiaq Pit 2 (a saline pond) during the snowmelt period. The spill occurred due to a damaged pipe that had been struck by a grader when it was conducting routine maintenance of the Haul Road. Due to repeated grading activities on the road, enough material was removed to expose the pipe which resulted in the damage.

No water bodies were impacted by this spill. The closest natural water body, lake A38, is approximately 500 m from the spill location. The coordinates of the spill are 63° 1'30.56"N, 92°12'4.54"W.

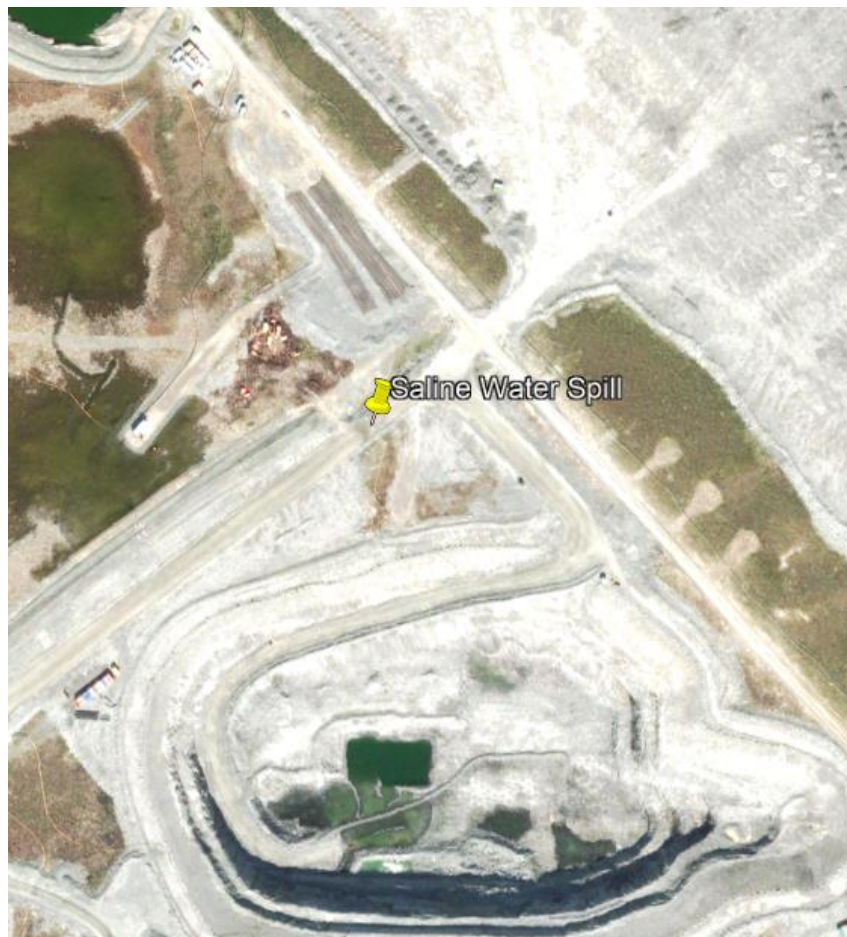


Figure 1: Location of saline water spill on the haul road north of Tiriganiaq pit 2.



**Figure 2 and 3:** Damaged pipe which saline water flowed out of (left) and repairs made the same day (right).

### **Spill Response & Clean-up:**

Due to the local topography and the location in which the spill occurred being in the catchment of Tiriganiaq Pit 2 (a saline pond), the water will eventually report to the original destination of the pumping activities (Tiriganiaq Pit 2). Snowmelt and rainfall in the area will direct any residual to the saline water management system (Tiriganiaq Pit 2).

### **Corrective Measures:**

Repairs were completed on the same day of the incident to prevent any future saline water spillage. The pipe was buried deeper under the Haul Road and additional material was placed on top of the pipe to ensure that grading operations would not expose the pipe again in the future. Locations of other buried pipes were inspected following this incident to ensure that similar accidents would not occur. Preventative maintenance will be performed to ensure the all pipes are adequately buried.

Weekly inspections by the Water management team will be completed which will include photo documentation of areas susceptible to future cracks. Any future cracks will be repaired immediately upon detection. As per usual site protocols, water movement pipes such as this will continue to be visually inspected carefully during start-up of pumping activities.



**Randy Schwandt** | Environment Coordinator

[randy.schwandt@agnicoeagle.com](mailto:randy.schwandt@agnicoeagle.com) | Direct 819.759.3555 x4603996 |

Agnico Eagle Mines Limited - Meliadine Mine, Suite 879 - Rankin Inlet, Nunavut, Canada X0C 0G0

[agnicoeagle.com](http://agnicoeagle.com)     

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REPORT LINE USE ONLY

<b>A</b>	REPORT DATE: MONTH – DAY – YEAR <b>05-09-2022</b>	REPORT TIME <b>11:45</b>	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR		REPORT NUMBER  _____
	OCCURRENCE DATE: MONTH – DAY – YEAR <b>05-08-2022</b>	OCCURRENCE TIME <b>15:45</b>	<input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT		
<b>C</b>	LAND USE PERMIT NUMBER (IF APPLICABLE) <b>KVPL11D01</b>	WATER LICENCE NUMBER (IF APPLICABLE) <b>2AM-MEL1631</b>			
	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION <b>Meliadine Gold Project</b>		REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN		
<b>E</b>	LATITUDE DEGREES <b>63</b> MINUTES <b>2</b> SECONDS <b>21</b>	LONGITUDE DEGREES <b>92</b> MINUTES <b>13</b> SECONDS <b>41</b>			
	RESPONSIBLE PARTY OR VESSEL NAME <b>Agnico Eagle Mines Ltd.</b>	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION <b>Meliadine, Rankin Inlet, Nunavut, X0C 0G0</b>			
<b>H</b>	ANY CONTRACTOR INVOLVED <b>N/A</b>	CONTRACTOR ADDRESS OR OFFICE LOCATION <b>N/A</b>			
	PRODUCT SPILLED <b>Total Suspended Solids (TSS)</b>	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES <b>Unknown</b>	U.N. NUMBER <b>N/A</b>		
<b>H</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>		
	SPILL SOURCE <b>Runoff Water</b>	SPILL CAUSE <b>Freshet</b>	AREA OF CONTAMINATION IN SQUARE METRES <b>Unknown</b>		
<b>J</b>	FACTORS AFFECTING SPILL OR RECOVERY <b>None</b>	DESCRIBE ANY ASSISTANCE REQUIRED <b>None</b>	HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT <b>None</b>		
	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS <b>On May 8th, 2022, while conducting a routine environmental inspection, runoff was observed south of the explo road. Straw logs and wood chips were immediately deployed to mitigate the transport of sediment further downstream. Water sample and field readings were taken after these measures were implemented. Turbidity field readings show results indicative (but not confirmatory) - that TSS concentrations could exceed the NWB Water Licence 2AM-MEL1631 criteria. This report is submitted as due diligence, as the water sample results from the laboratory have not yet been received. Location of spill: 63 01'22.3" 92 11'21.5. The closest water body (J5) is approximately 180 m away (S). Pursuant to Part H, Section 8c of the Water License, a follow-up report will be issued after a closer investigation is completed. Reported by Sara Savoie, Environment General Supervisor (819-759-3555, x4603212).</b>				
<b>L</b>	REPORTED TO SPILL LINE BY <b>Sara Savoie</b>	POSITION <b>Environment GS</b>	EMPLOYER <b>AEM</b>	LOCATION CALLING FROM <b>Meliadine</b>	TELEPHONE <b>819-759-3555</b>
	ANY ALTERNATE CONTACT <b>Matt Gillman</b>	POSITION <b>Env. Supert. Interim</b>	EMPLOYER <b>AEM</b>	ALTERNATE CONTACT LOCATION <b>Meliadine</b>	ALTERNATE TELEPHONE <b>519-373-6249</b>
<b>REPORT LINE USE ONLY</b>					
<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					

# Follow Up Report: #2022172

## May 8<sup>th</sup>, 2022 – MEL-SR16

### Surface Water Runoff

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The following information refers to a potential incident reported by Agnico Eagle Mines Ltd. on May 8<sup>th</sup>, 2022, and is being provided in accordance with:

- the Nunavut Water Board License 2AM-MEL1631 Water License, Part H, item 8c
- the Government of Nunavut's, Environmental Protection Act subsection 5.1(a)

#### Description of Incident:

While conducting a routine inspection on May 8<sup>th</sup>, 2022, surface runoff water was observed at sampling station MEL-SR16 located on the south side of the Exploration Camp Road. Straw logs and wood chip logs were deployed to mitigate the transport of sediment further downstream.

A sample was collected for laboratory analysis to assess water quality as per Part D Item 18 of the 2AM-MEL1631 Amended Licence. Turbidity field readings were also taken. Upon visual inspection of the area and after completing sampling, Agnico Eagle decided not to wait for external results and report the event immediately as due diligence as a possible TSS exceedance of criteria listed under Part D Item 18 of the 2AM-MEL1631 Amended Licence. Laboratory results were received on May 25<sup>th</sup> and a concentration of 110 mg/L TSS was measured, confirming an exceedance of the allowable monthly mean concentration and maximum concentration of a grab sample for TSS as listed under Part D Item 18 of the 2AM-MEL1631 Amended Licence.

The coordinate of MEL-SR16 is "63 01'22.3" 92 11'21.5". The closest water body (J5) is approximately 180m southeast.



Figure 1: Sample location MEL-SR16

### Root Cause and Response

Sampling station MEL-SR16 is located downstream the Exploration Camp Road. The flow path of surface water runoff is from the north side of the road, running south over the road. Runoff across the road and the associated entrainment of sediment is the expected cause of the TSS exceedance.

The Hydrogeology specialist who carried out the sampling on May 8<sup>th</sup>, 2022, made the following observations:

- The water flowing at MEL-SR16 appeared turbid
- The flow was of low volume

In response to these observations, the following actions were taken:

- Turbidity measurements were taken to confirm visual observations
- A MEL-SR sample was taken as per the 2AM-MEL1631 Water Licence
- Straw logs and wood chip logs were installed on both sides of the road to filter out entrained sediment and to minimize flow velocity to encourage decantation of sediment from the flowing water
- The potential exceedance of Part D Item 18 of the 2AM-MEL1631 Amended Licence was reported as due diligence within 24 hours of the observation



**Figure 2-3:** During the event and after the event

## Corrective Measures

To mitigate the risk of a reoccurrence, all surface runoff in the area is being closely monitored during routine inspections and following heavy rainfall events to ensure that appropriate sediment controls (e.g., straw logs, wood chip logs) are in place to minimize TSS transport.

Furthermore, water from the upstream area ponded area on site (Figure 2) is being collected via water truck as feasible and moved to the Containment Pond 2 (CP2) or Containment Pond 5 (CP5). The purpose of this activity is to minimize the likelihood of water running across the road during heavy rainfall events.

Agnico Eagle will be exploring longer term solutions if a risk of runoff to the environment persists in this area.



Canada

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	OCCURRENCE DATE: MONTH – DAY – YEAR <b>05-11-2022</b>	OCCURRENCE TIME <b>11:30</b>	<input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT		
<b>B</b>	LAND USE PERMIT NUMBER (IF APPLICABLE) <b>KVPL11D01</b>		WATER LICENCE NUMBER (IF APPLICABLE) <b>2AM-MEL1631</b>		
	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION <b>Meliadine Gold Project</b>		REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN		
<b>E</b>	LATITUDE DEGREES <b>63</b> MINUTES <b>2</b> SECONDS <b>21</b>		LONGITUDE DEGREES <b>92</b> MINUTES <b>13</b> SECONDS <b>41</b>		
	RESPONSIBLE PARTY OR VESSEL NAME <b>Agnico Eagle Mines Ltd.</b>		RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION <b>Meliadine, Rankin Inlet, Nunavut, X0C 0G0</b>		
<b>G</b>	ANY CONTRACTOR INVOLVED <b>N/A</b>		CONTRACTOR ADDRESS OR OFFICE LOCATION <b>N/A</b>		
	PRODUCT SPILLED <b>Untreated Sewage</b>		QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES <b>15 Liters</b>	U.N. NUMBER <b>N/A</b>	
<b>H</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>	
	SPILL SOURCE <b>MSB Lift Station</b>		SPILL CAUSE <b>Equipment Failure</b>	AREA OF CONTAMINATION IN SQUARE METRES <b>10</b>	
<b>I</b>	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>	
	<b>K</b> ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS <b>An overflow of the sewage storage tank at C-wing of the camp resulted in a spill of 15 L of sewage to the industrial pad. The spill was contained to the local area. Clean up activities are on going.</b>  <b>The coordinates of the spill are 63° 2' 22.93"N, 92° 13' 32.66"W. No water bodies were impacted by this spill. The nearest natural water body (G2) is 370 m north.</b>  <b>Pursuant to Part H, Item 8c of water license 2AM-MEL1631, a follow up report will be issued after the investigation is completed.</b>  <b>Reported by Brett Fairbairn Environment Coordinator 819-759-3555 ext. 4603996 Brett.Fairbairn@agnicoeagle.com.</b>				
<b>L</b>	REPORTED TO SPILL LINE BY <b>Brett Fairbarin</b>	POSITION <b>Env. Coordinator</b>	EMPLOYER <b>AEM</b>	LOCATION CALLING FROM <b>Meliadine</b>	TELEPHONE <b>819-759-3555</b>
	ANY ALTERNATE CONTACT <b>Matt Gillman</b>	POSITION <b>Interim Env. Supt.</b>	EMPLOYER <b>AEM</b>	ALTERNATE CONTACT LOCATION <b>Meliadine</b>	ALTERNATE TELEPHONE <b>819-355-9493</b>
<b>REPORT LINE USE ONLY</b>					
<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					

# Follow Up Report: #2022180

## May 11<sup>th</sup>, 2022 – 15 L Sewage



The following information refers to incident #2022180 reported by Agnico Eagle Mines Limited May 12<sup>th</sup>, 2022, and is being provided in accordance with:

- the Nunavut Water Board License 2AM-MEL1631 Water License, Part H, Item 8c.

### Description of Incident

At approximately 11:30 on May 11<sup>th</sup>, 2022, the C wing lift station overflowed resulting in a 15 L of sewage spill to the industrial pad.

The coordinates of this spill are 63° 2' 22.93"N, 92° 13' 32.66"W. No water bodies were impacted by this spill. The closest water body (G2) is approximately 370 m north.



**Figure 1:** Location of the C wing lift station spill

### Spill Response & Cleanup

The spill was contained to the lift station building and the local area. The STP operator immediately installed a bucket underneath the location of the spill to contain the material. All of the material was removed with the vacuum truck and discharged back in the lift station.



**Figure 2:** C wing lift station spill and cleanup

### **Cause of Incident and Corrective Measures**

The release was a result of human error as the STP operator did not empty the C wing lift station resulting in an overflow.

This lift station was added to the check list as a reminder. After further investigating into this incident, the discharge valve was observed to be open, which caused the overflow to spill outside of the lift station. The valve is now closed when the lift station is not discharging. In the event the lift station overflows in the future, all of the sewage will be contained within the building.



**Brett Fairbairn** | Environment Coordinator

brett.fairbairn@agnicoeagle.com | Direct 819.759.3555 x4603996 |

Agnico Eagle Mines Limited - Meliadine Mine, Suite 879 - Rankin Inlet, Nunavut, Canada X0C 0G0

[agnicoeagle.com](http://agnicoeagle.com)     

Sent from Meliadine



# 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>05-17-2022</b>	REPORT TIME <b>20:00</b>	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT	REPORT NUMBER _____
<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>KVPL11D01</b>	WATER LICENCE NUMBER (IF APPLICABLE) <b>2BB-MEL1424</b>		
<b>D</b>	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION <b>Meliadine Gold Project</b>	REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN		
<b>E</b>	LATITUDE DEGREES <b>63</b> MINUTES <b>2</b> SECONDS <b>21</b>	LONGITUDE DEGREES <b>92</b> MINUTES <b>13</b> SECONDS <b>41</b>		
<b>F</b>	RESPONSIBLE PARTY OR VESSEL NAME <b>Agnico Eagle Mines Ltd.</b>	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION <b>Meliadine, Rankin Inlet, Nunavut, X0C 0G0</b>		
<b>G</b>	ANY CONTRACTOR INVOLVED <b>Orbit Garant</b>	CONTRACTOR ADDRESS OR OFFICE LOCATION <b>Val d'Or, Quebec</b>		
<b>H</b>	PRODUCT SPILLED <b>Various Substances</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>Under Investigation</b>	SPILL CAUSE <b>Unknown</b>	AREA OF CONTAMINATION IN SQUARE METRES <b>Unknown</b>	
<b>J</b>	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>	

<b>K</b>	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS <p><b>On May 13th 2022 CIRNAC and Agnico conducted an inspection on lake A8. During the inspection, materials related to drilling operations were observed on the lake ice. A cleanup of the material was initiated and will continue until it is no longer safe to do so due to melting condition.</b></p> <p><b>Pursuant to Part H, Section 4c of the Water License, a follow-up report will be issued after a closer investigation is completed.</b></p> <p><b>Location of spill: 63 0'398.06"N 92 12'13.44"W</b></p> <p><b>Contact information: Brett Fairbairn 819-759-3555 extension 4603996 Brett.Fairbairn@agnicoeagle.com.</b></p>			
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<b>L</b>	REPORTED TO SPILL LINE BY <b>Brett Fairbairn</b>	POSITION <b>Env. Coordinator</b>	EMPLOYER <b>AEM</b>	LOCATION CALLING FROM <b>Meliadine</b>	TELEPHONE <b>819-759-3555</b>
<b>M</b>	ANY ALTERNATE CONTACT <b>Sara Savoie</b>	POSITION <b>Env. Gen. Supervisor</b>	EMPLOYER <b>AEM</b>	ALTERNATE CONTACT LOCATION <b>Meliadine</b>	ALTERNATE TELEPHONE <b>819-856-9349</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
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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					



# Follow Up Report: #2022188

## May 17<sup>th</sup>, 2022

### A8 Post Drilling

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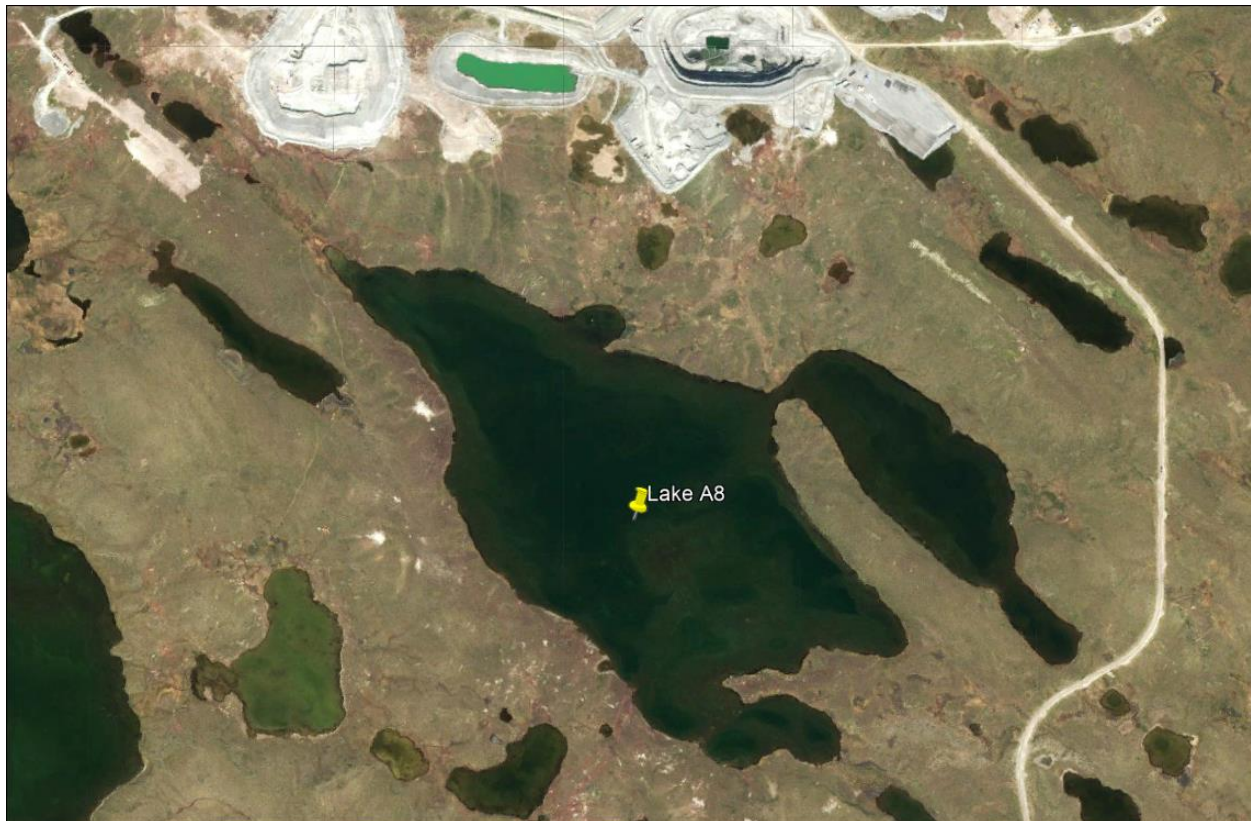
The following information refers to a spill reported by Agnico Eagle Mines Limited (AEM) on May 17<sup>th</sup>, 2022, and is being provided in accordance with:

- the Nunavut Water Board License 2BB-MEL1424 Water License, part H, item 4c;
- the Fisheries Act subsection 38(7).

#### **Description of the Incident:**

On May 13<sup>th</sup>, 2022, at approximately 14:00, Crown-Indigenous Relations and Northern Affairs Canada (CIRNAC) arrived on the lake A8 to perform a post-drilling site inspection. The inspection was conducted with AEM employees. During the inspection, the following observations were made and reported by CIRNAC in their Water Licence Inspection Report dated May 16, 2022:

- grey material, suspected to be drill cuttings were observed on the ice surface of lake A8;
- some pools of water within the piles of snow on the surface of the ice containing unknown materials;
- the smell of hydrocarbons was present in some locations; and
- oily rags, garbage and wood debris were found on the surface of the ice.



**Figure 1: Lake A8 Spills locations**

## Spill Response & Clean-up:

After the inspection, Orbit Garant and AEM's Exploration Geology and Environment Departments began a collaborative effort to clean up lake A8 and the shore of lake A8 on a regular basis (up to daily; Table 1), pending conditions were safe to proceed. The clean-up efforts began on May 14<sup>th</sup>, 2022 and were completed on June 5<sup>th</sup>, 2022. Each clean-up activity is documented in Table 1.

Some materials were frozen in place and couldn't be removed safely such as freshwater lines and an ice auger flight. These items were identified with buoys and GPS locations and will be removed by helicopter when safe to do so during the ice-free season.



**Figure 2: Drilling debris clean-up from clean-up efforts on May 29<sup>th</sup>, 2022**

On May 18<sup>th</sup>, 2022, CIRNAC returned to lake A8 with Environment and Climate Change Canada (ECCC) to conduct sampling of ponded water on the lake ice at four sampling locations (Figure 3). AEM also took samples at these locations, for which analytical results have been included in Appendix A. As seen in Appendix A, all four samples collected were reported as not acutely toxic (passed LC50 tests).



**Figure 3: CIRNAC lake A8 sampling locations**

**Table 1 – Clean-up activities from May 14<sup>th</sup> to June 5<sup>th</sup>**

Date	Time	Lake	Material collected	LAT	LONG	Photos	Photo#	Comments
5/14/2022	8:30	A8	Trash collected and oil pads deployed			No		
5/15/2022	17:00	A8	Trash piled to be collected			Y	2022-05-16 Drilling A8	Trash piles to be collected
5/17/2022	8:30	A8/tundra	Trash collected and oil pads deployed			No		
5/18/2022	8:30	A8	Trash clean up A8			No		Trash clean up throughout A8
5/20/2022		A8	Trash collected and oil pads deployed			No		
5/24/2022		A8	Recovered drill cutting mud			Yes	2020504-01 to 03	Photos from helicopter (before and after clean up)
5/26/2022	14:50	A8	Solvent	540311	6986823	Yes	20220526-01	40 L water/solvent mixture collected and removed
5/26/2022	15:15	A8	Oil	540307	6986735	Yes	20220526-02	JD/AB deployed absorbent rags and collected all visible oil
5/27/2022	2:30	A8	Wood	540371	698651	Yes	1	Along shoreline; A8 is no longer safely accessible
5/27/2022	2:45	A8	Wood/Picket	540371	698651	Yes	2	Along shoreline; A8 is no longer safely accessible
5/27/2022	3:00	A8	Water hose	540371	698651	Yes	3	Along shoreline; A8 is no longer safely accessible
5/27/2022	3:15	A8	Wood	540371	698651	Yes	4	Along shoreline; A8 is no longer safely accessible
5/29/2022	17:00	A8	Various materials	540456	6986680	Yes	20220529-01	Env. team cleaned the southern shoreline of debris
5/29/2022	17:45	A8	Oil	540456	6986680	Yes	20220529-02	Minimal amount of oil observed 40 m away from A8 south side- spill rags were deployed
5/31/2022	8:00	A8	Wood debris	540323	6986685	Yes	20220531-01	Picked up wood debris along the south west side of A8
5/31/2022	8:00	A8	Plastic	540323	6986685	Yes	20220531-02	Picked up plastic debris along the south west side of A8
5/31/2022	8:00	A8	Metal frame	540599	6986536	Yes	20220531-03	Small yellow metal drill rig step on the tundra but frozen in ice to be retrieved
6/3/2022	8:50	A8	Insulation material, plastic	539007	6990178	Yes	0775/0776	Cleaned
6/3/2022	9:00	A8	Insulation material	541214	6986949	Yes	777	Cleaned
6/3/2022	9:10	A8	Bubble wrap	541138	6987033	Yes	778	Cleaned
6/3/2022	9:20	A8	Rice bag	541110	6987093	Yes	779	Cleaned
6/3/2022	9:30	A8	Bulk bag	541074	6987118	Yes	780	Stuck in the ice to be retrieved
6/3/2022	9:40	A8	Salt plastic bag	541054	6987119	Yes	781	Stuck in the ice to be retrieved
6/3/2022	9:55	A8	Plastic bag	540996	6987143	Yes	782	Cleaned
6/3/2022	10:05	A8	Insulation material, plastic bag	540859	6987276	Yes	783	Cleaned
6/5/2022	16:30	A8	General A8 clean-up			Yes	Photos in file folder	Map created

### **Cause of the Incident and Corrective Measures:**

The cause of the event has been attributed to a combination of three factors. Firstly, insufficient follow-up with training and implementation of drilling on ice procedures due to crew reorganizations/shortages as a result of the covid-19 pandemic. Secondly, a high magnitude of snow deposition and drifting in the area which buried the material out-of-site during drill activities. Thirdly, an earlier than expected snowmelt period which inhibited completion of a sufficient post-drilling on ice season clean-up prior to the progression of the 2022 snowmelt period.

As previously explained, a thorough clean-up campaign was implemented on lake A8 to remove debris and substances related to drilling activities (hydrocarbons, suspected drill cuttings, solvent mixture) in the area. The efforts are summarized in Table 1.

In a Letter of Intent date April 28<sup>th</sup>, 2022 addressed to AEM and shared with CIRNAC and ECCC, Orbit Garant committed to several actions to mitigate spill occurrences during the next drilling on ice season, at various levels of their operations (training, procedures, engineered controls, data collection methodology, etc.).

Furthermore, during a meeting held May 17, 2022, AEM, Orbit Garant, CIRNAC and ECCC discussed the observations made during the May 13<sup>th</sup> CIRNAC inspection and identified corrective measures aimed to prevent the occurrence of similar events in the future. In this meeting, AEM and Orbit Garant further committed to the development and implementation of a comprehensive exploration drilling action plan prior to the start of next season's winter drilling.

AEM will submit the comprehensive exploration drilling action plan, prior to start of the next winter drilling season, to the Nunavut Water Board and the Inspector, as well as to ECCC, as agreed with CIRNAC and ECCC.

## **Appendix A**



AquaTox Testing & Consulting Inc.  
 B-11 Nicholas Beaver Road  
 Puslinch, ON N0B 2J0  
 Tel. (519) 763-4412  
 Fax. (519) 763-4419

**TOXICITY TEST REPORT**

*Daphnia magna*  
 EPS 1/RM/14  
 Page 1 of 2

Work Order : 248470  
 Sample Number : 72774

**SAMPLE IDENTIFICATION**

Company :	Agnico Eagle Mines Limited - Meliadine Project	Sample Date :	2022-05-18
Location :	Rankin Inlet NU	Time Collected :	19:10
Substance :	Site 1	Date Received :	2022-05-25
Sampling Method :	Grab	Time Received :	10:10
Sampled By :	RL/DM/BF	Temperature at Receipt :	19 °C
Sample Description :	Clear, grey.	Date Tested :	2022-05-25

Test Method : Reference Method for Determining Acute Lethality of Effluents to *Daphnia magna* . Environment Canada EPS 1/RM/14 (Second Edition, December 2000, with February 2016 amendments).

**48-HOUR TEST RESULTS**

Effect	Value	95% Confidence Limits	Calculation Method
LC50	>100%	—	—
EC50	>100%	—	—

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

**TEST ORGANISM**

Species :	<i>Daphnia magna</i>	Time to First Brood :	8.4 days
Organism Batch :	Dm22-10	Average Brood Size :	26.9 young
Culture Mortality :	0.4% (previous 7 days)		

**TEST CONDITIONS**

Sample Treatment :	None	Number of Replicates :	1
pH Adjustment :	None	Organisms / Replicate :	10
Pre-aeration Rate :	~30 mL/min/L	Organisms / Test Level :	10
Duration of Pre-Aeration :	0 minutes	Organism Loading Rate :	15.0 mL/organism
Test Aeration :	None	Impaired Control Organisms :	0.0%
Hardness Adjustment :	None	Test Method Deviation(s) :	Yes (see below)

**REFERENCE TOXICANT DATA**

Toxicant :	Sodium Chloride	Historical Mean LC50 :	6.5 g/L
Date Tested :	2022-05-24	Warning Limits (± 2SD) :	5.8 - 7.2 g/L
LC50 :	6.4 g/L	Organism Batch :	Dm22-10
95% Confidence Limits :	6.2 - 6.6 g/L	Analyst(s) :	JJ
Statistical Method :	Spearman-Kärber		

**COMMENTS**

All test validity criteria as specified in the test method were satisfied.

Noted Deviation(s): The maximum sample holding time of 5 days allowed by the test method was exceeded. The sample was tested with the client's consent. There were no other unusual conditions or deviations from the test method, and the test is considered to be valid.

Martina Rendas  
 I am approving this document  
 2022-06-08  
 13:10-04:00

*Martina Rendas*

**Approved By :** \_\_\_\_\_  
*Project Manager*

**TOXICITY TEST REPORT***Daphnia magna*

EPS 1/RM/14

Page 2 of 2

Work Order: 248470  
Sample Number: 72774**TEST DATA**

	pH	Dissolved O <sub>2</sub> (mg/L)	Conductivity (µmhos/cm)	Temperature (°C)	O <sub>2</sub> Saturation (%)*	Hardness (as CaCO <sub>3</sub> )
<b>Initial Chemistry (100%) :</b>	7.4	8.1	849	20	92	320 mg/L

**0 HOURS**Date & Time 2022-05-25 13:30  
Analyst(s) : JGR (KP)

Concentration (%)	Dead	Immobile	pH	Dissolved O <sub>2</sub>	Conductivity	Temperature	O <sub>2</sub> Saturation*	Hardness
100	0	0	7.4	8.1	849	20	92	320
50	0	0	8.1	8.5	705	19	–	–
25	0	0	8.2	8.5	638	19	–	–
12.5	0	0	8.3	8.5	606	19	–	–
6.25	0	0	8.3	8.5	590	19	–	–
Control	0	0	8.5	8.8	575	19	99	160

Notes:

**24 HOURS**Date & Time 2022-05-26 13:30  
Analyst(s) : JGR (KP)

Concentration (%)	Dead	Immobile	pH	Dissolved O <sub>2</sub>	Conductivity	Temperature
100	–	0	–	–	–	20
50	–	0	–	–	–	20
25	–	0	–	–	–	20
12.5	–	0	–	–	–	20
6.25	–	0	–	–	–	20
Control	–	0	–	–	–	20

Notes:

**48 HOURS**Date & Time 2022-05-27 13:30  
Analyst(s) : CH (KP)

Concentration (%)	Dead	Immobile	pH	Dissolved O <sub>2</sub>	Conductivity	Temperature
100	0	0	7.9	8.3	867	21
50	0	0	8.2	8.3	713	21
25	0	0	8.3	8.3	646	21
12.5	0	0	8.4	8.3	613	21
6.25	0	0	8.4	8.3	595	21
Control	0	0	8.4	8.3	582	21

Notes: Some test organisms in the 100%, 50% and 25% concentrations were floating (CH).

Number immobile does not include number dead.

"–" = not measured/not required

\* adjusted for temperature and barometric pressure

Test Data Reviewed By : EMDate : 2022-05-30



AquaTox Testing & Consulting Inc.  
B-11 Nicholas Beaver Road  
Puslinch, ON N0B 2J0  
Tel. (519) 763-4412  
Fax. (519) 763-4419

## TOXICITY TEST REPORT

*Daphnia magna*

EPS 1/RM/14

Page 1 of 2

Work Order : 248470  
Sample Number : 72775

### SAMPLE IDENTIFICATION

Company :	Agnico Eagle Mines Limited - Meliadine Project	Sample Date :	2022-05-18
Location :	Rankin Inlet NU	Time Collected :	18:00
Substance :	Site 2	Date Received :	2022-05-25
Sampling Method :	Grab	Time Received :	10:10
Sampled By :	RL/DM/BF	Temperature at Receipt :	19 °C
Sample Description :	Clear, grey.	Date Tested :	2022-05-25

Test Method : Reference Method for Determining Acute Lethality of Effluents to *Daphnia magna* . Environment Canada EPS 1/RM/14 (Second Edition, December 2000, with February 2016 amendments).

### 48-HOUR TEST RESULTS

Effect	Value	95% Confidence Limits	Calculation Method
LC50	>100%	—	—
EC50	>100%	—	—

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

### TEST ORGANISM

Species :	<i>Daphnia magna</i>	Time to First Brood :	8.4 days
Organism Batch :	Dm22-10	Average Brood Size :	26.9 young
Culture Mortality :	0.4% (previous 7 days)		

### TEST CONDITIONS

Sample Treatment :	None	Number of Replicates :	1
pH Adjustment :	None	Organisms / Replicate :	10
Pre-aeration Rate :	~30 mL/min/L	Organisms / Test Level :	10
Duration of Pre-Aeration :	0 minutes	Organism Loading Rate :	15.0 mL/organism
Test Aeration :	None	Impaired Control Organisms :	0.0%
Hardness Adjustment :	None	Test Method Deviation(s) :	Yes (see below)

### REFERENCE TOXICANT DATA

Toxicant :	Sodium Chloride	Historical Mean LC50 :	6.5 g/L
Date Tested :	2022-05-24	Warning Limits ( $\pm$ 2SD) :	5.8 - 7.2 g/L
LC50 :	6.4 g/L	Organism Batch :	Dm22-10
95% Confidence Limits :	6.2 - 6.6 g/L	Analyst(s) :	JJ
Statistical Method :	Spearman-Kärber		

### COMMENTS

All test validity criteria as specified in the test method were satisfied.

Noted Deviation(s): The maximum sample holding time of 5 days allowed by the test method was exceeded. The sample was tested with the client's consent. There were no other unusual conditions or deviations from the test method, and the test is considered to be valid.

Martina Rendas  
I am approving this  
document  
2022-06-08 13:20:04:00

Approved By :

Project Manager



**TOXICITY TEST REPORT***Daphnia magna*

EPS 1/RM/14

Page 2 of 2

Work Order: 248470  
Sample Number: 72775**TEST DATA**

	pH	Dissolved O <sub>2</sub> (mg/L)	Conductivity (µmhos/cm)	Temperature (°C)	O <sub>2</sub> Saturation (%)*	Hardness (as CaCO <sub>3</sub> )
<b>Initial Chemistry (100%) :</b>	7.3	8.6	430	20	95	160 mg/L

**0 HOURS**Date & Time 2022-05-25 13:05  
Analyst(s) : JGR (KP)

Concentration (%)	Dead	Immobile	pH	Dissolved O <sub>2</sub>	Conductivity	Temperature	O <sub>2</sub> Saturation*	Hardness
100	0	0	7.3	8.6	430	20	95	160
50	0	0	8.1	8.8	504	19	–	–
25	0	0	8.3	8.8	539	19	–	–
12.5	0	0	8.3	8.8	556	19	–	–
6.25	0	0	8.3	8.8	567	19	–	–
Control	0	0	8.5	8.8	575	19	99	160

Notes:

**24 HOURS**Date & Time 2022-05-26 13:05  
Analyst(s) : JGR (KP)

Concentration (%)	Dead	Immobile	pH	Dissolved O <sub>2</sub>	Conductivity	Temperature
100	–	0	–	–	–	20
50	–	0	–	–	–	20
25	–	0	–	–	–	20
12.5	–	0	–	–	–	20
6.25	–	0	–	–	–	20
Control	–	0	–	–	–	20

Notes:

**48 HOURS**Date & Time 2022-05-27 13:05  
Analyst(s) : CH (KP)

Concentration (%)	Dead	Immobile	pH	Dissolved O <sub>2</sub>	Conductivity	Temperature
100	0	0	7.6	8.2	441	21
50	0	0	8.1	8.2	507	21
25	0	0	8.3	8.2	544	21
12.5	0	0	8.3	8.2	568	21
6.25	0	0	8.4	8.3	572	21
Control	0	0	8.4	8.3	581	21

Notes: Some test organisms in the 100% concentration were floating (CH).

Number immobile does not include number dead.

"–" = not measured/not required

\* adjusted for temperature and barometric pressure

Test Data Reviewed By : EMDate : 2022-05-31



Work Order : 248470  
 Sample Number : 72775

**SAMPLE IDENTIFICATION**

Company :	Agnico Eagle Mines Limited - Meliadine Project	Sample Date :	2022-05-18
Location :	Rankin Inlet NU	Time Collected :	18:00
Substance :	Site 2	Date Received :	2022-05-25
Sampling Method :	Grab	Time Received :	10:10
Sampled By :	RL/DM/BF	Temperature at Receipt :	19 °C
Sample Description :	Clear, grey.	Date Tested :	2022-05-25

Test Method(s) : Reference Method for Determining Acute Lethality of Liquid Effluents to Rainbow Trout. Environment Canada, EPS 1/RM/13 (2nd Edition, December 2000, with May 2007 and February 2016 amendments).

**96-HOUR TEST RESULTS**

Effect	Value	95% Confidence Limits	Statistical Method
LC50	>100%	-	-

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

**TEST ORGANISM**

Test Organism :	<i>Oncorhynchus mykiss</i>	Average Fork Length (± 2 SD) :	45.9 mm (±4.2)
Organism Batch :	T22-11	Range of Fork Lengths :	41 - 48 mm
Control Sample Size :	10	Average Wet Weight (± 2 SD) :	0.84 g (±0.25)
Cumulative stock tank mortality rate :	0% (previous 7 days)	Range of Wet Weights :	0.61 - 0.97 g
Control organisms showing stress :	0 (at test completion)	Organism Loading Rate :	0.5 g/L

**TEST CONDITIONS**


Sample Treatment :	None	Volume Tested (L) :	16
pH Adjustment :	None	Number of Replicates :	1
Test Aeration :	Yes	Organisms Per Replicate :	10
Pre-aeration/Aeration Rate :	6.5 ± 1 mL/min/L	Organisms Per Test Level :	10
Duration of Pre-Aeration :	30 minutes	Test Method Deviation(s) :	Yes (see 'COMMENTS')

**REFERENCE TOXICANT DATA**

Toxicant :	Potassium Chloride	Date Tested :	2022-05-11
Organism Batch :	T22-11	Analyst(s) :	PC, CN, JW
LC50 :	4068 mg/L	Historical Mean LC50 :	3700 mg/L
95% Confidence Limits :	3733 - 4470 mg/L	Warning Limits (± 2SD) :	2777 - 4929 mg/L
Statistical Method :	Linear Regression (MLE)		

**COMMENTS**

- All test validity criteria as specified in the test method were satisfied.
- Noted Deviation(s): The maximum sample holding time of 5 days allowed by the test method was exceeded. The sample was tested with the client's consent. There were no other unusual conditions or deviations from the test method, and the test is considered to be valid.

  
 Martina Rendas  
 I am approving this document  
 2022-06-08 13:21:04:00

Approved By : \_\_\_\_\_  
 Project Manager



# TOXICITY TEST REPORT

Rainbow Trout

EPS 1/RM/13

Page 2 of 2

Work Order : 248470  
Sample Number : 72775

## TEST DATA

	pH	Dissolved O <sub>2</sub> (mg/L)	Conductivity (µmhos/cm)	Temperature (°C)	O <sub>2</sub> Saturation (%)*
Initial Water Chemistry (100%) :	7.4	8.4	437	16	92
After 30 min pre-aeration :	7.5	8.9	439	16	96

### 0 HOURS

Date & Time	2022-05-25	12:50					
Analyst(s) :	LL (KP)						
Concentration (%)	Dead	Impaired	pH	Dissolved O <sub>2</sub>	Conductivity	Temperature	O <sub>2</sub> Saturation*
100	0	0	7.5	8.9	439	16	96
50	0	0	8.2	9.5	656	14	-
25	0	0	8.3	9.6	759	14	-
12.5	0	0	8.3	9.6	813	14	-
6.25	0	0	8.3	9.6	838	14	-
Control	0	0	8.3	9.6	861	14	100

Notes:

### 24 HOURS

Date & Time	2022-05-26	12:50					
Analyst(s) :	PC (KP)						
Concentration (%)	Dead	Impaired	pH	Dissolved O <sub>2</sub>	Conductivity	Temperature	
100	0	0	-	-	-	14	
50	0	0	-	-	-	14	
25	0	0	-	-	-	14	
12.5	0	0	-	-	-	14	
6.25	0	0	-	-	-	14	
Control	0	0	-	-	-	14	

Notes:

### 48 HOURS

Date & Time	2022-05-27	12:50					
Analyst(s) :	JW						
Concentration (%)	Dead	Impaired	pH	Dissolved O <sub>2</sub>	Conductivity	Temperature	
100	0	0	-	-	-	14	
50	0	0	-	-	-	14	
25	0	0	-	-	-	14	
12.5	0	0	-	-	-	14	
6.25	0	0	-	-	-	14	
Control	0	0	-	-	-	14	

Notes:

### 72 HOURS

Date & Time	2022-05-28	12:50					
Analyst(s) :	LL (AW)						
Concentration (%)	Dead	Impaired	pH	Dissolved O <sub>2</sub>	Conductivity	Temperature	
100	0	0	-	-	-	16	
50	0	0	-	-	-	16	
25	0	0	-	-	-	16	
12.5	0	0	-	-	-	16	
6.25	0	0	-	-	-	16	
Control	0	0	-	-	-	16	

Notes:

### 96 HOURS

Date & Time	2022-05-29	12:50					
Analyst(s) :	LL (AW)						
Concentration (%)	Dead	Impaired	pH	Dissolved O <sub>2</sub>	Conductivity	Temperature	
100	0	0	7.5	9.3	447	16	
50	0	0	8.1	9.1	661	16	
25	0	0	8.3	9.3	759	16	
12.5	0	0	8.3	9.2	810	16	
6.25	0	0	8.3	9.2	816	16	
Control	0	0	8.3	8.9	833	16	

Notes:

"-" = not measured/not required

Number impaired does not include number dead.

\* adjusted for temperature and barometric pressure

Test Data Reviewed By : EM

Date : 2022-05-31



AquaTox Testing & Consulting Inc.  
 B-11 Nicholas Beaver Road  
 Puslinch, ON N0B 2J0  
 Tel. (519) 763-4412  
 Fax. (519) 763-4419

**TOXICITY TEST REPORT**

*Daphnia magna*  
 EPS 1/RM/14  
 Page 1 of 2

Work Order : 248470  
 Sample Number : 72776

**SAMPLE IDENTIFICATION**

Company :	Agnico Eagle Mines Limited - Meliadine Project	Sample Date :	2022-05-18
Location :	Rankin Inlet NU	Time Collected :	18:30
Substance :	Site 3	Date Received :	2022-05-25
Sampling Method :	Grab	Time Received :	10:10
Sampled By :	RL/DM/BF	Temperature at Receipt :	19 °C
Sample Description :	Cloudy, grey.	Date Tested :	2022-05-25

Test Method : Reference Method for Determining Acute Lethality of Effluents to *Daphnia magna* . Environment Canada EPS 1/RM/14 (Second Edition, December 2000, with February 2016 amendments).

**48-HOUR TEST RESULTS**

Effect	Value	95% Confidence Limits	Calculation Method
LC50	>100%	—	—
EC50	>100%	—	—

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

**TEST ORGANISM**

Species :	<i>Daphnia magna</i>	Time to First Brood :	8.4 days
Organism Batch :	Dm22-10	Average Brood Size :	26.9 young
Culture Mortality :	0.4% (previous 7 days)		

**TEST CONDITIONS**

Sample Treatment :	None	Number of Replicates :	1
pH Adjustment :	None	Organisms / Replicate :	10
Pre-aeration Rate :	~30 mL/min/L	Organisms / Test Level :	10
Duration of Pre-Aeration :	0 minutes	Organism Loading Rate :	15.0 mL/organism
Test Aeration :	None	Impaired Control Organisms :	0.0%
Hardness Adjustment :	None	Test Method Deviation(s) :	Yes (see below)

**REFERENCE TOXICANT DATA**

Toxicant :	Sodium Chloride	Historical Mean LC50 :	6.5 g/L
Date Tested :	2022-05-24	Warning Limits (± 2SD) :	5.8 - 7.2 g/L
LC50 :	6.4 g/L	Organism Batch :	Dm22-10
95% Confidence Limits :	6.2 - 6.6 g/L	Analyst(s) :	JJ
Statistical Method :	Spearman-Kärber		

**COMMENTS**

All test validity criteria as specified in the test method were satisfied.

Noted Deviation(s): The maximum sample holding time of 5 days allowed by the test method was exceeded. The sample was tested with the client's consent. There were no other unusual conditions or deviations from the test method, and the test is considered to be valid.

Martina Rendas  
 I am approving this document  
 2022-06-08 13:22:04:00

Approved By :

Project Manager

**TOXICITY TEST REPORT***Daphnia magna*

EPS 1/RM/14

Page 2 of 2

Work Order: 248470  
 Sample Number: 72776

**TEST DATA**

	pH	Dissolved O <sub>2</sub> (mg/L)	Conductivity (µmhos/cm)	Temperature (°C)	O <sub>2</sub> Saturation (%)*	Hardness (as CaCO <sub>3</sub> )
<b>Initial Chemistry (100%) :</b>	8.5	8.7	78	20	100	26 mg/L

**0 HOURS**

Date & Time 2022-05-25 13:50  
 Analyst(s) : JGR (KP)

Concentration (%)	Dead	Immobile	pH	Dissolved O <sub>2</sub>	Conductivity	Temperature	O <sub>2</sub> Saturation*	Hardness
100	0	0	8.5	8.7	78	20	100	26
50	0	0	8.4	8.7	333	19	–	–
25	0	0	8.4	8.7	455	19	–	–
12.5	0	0	8.4	8.7	515	19	–	–
6.25	0	0	8.4	8.7	544	19	–	–
Control	0	0	8.5	8.8	575	19	99	160

Notes:

**24 HOURS**

Date & Time 2022-05-26 13:50  
 Analyst(s) : JJ (KP)

Concentration (%)	Dead	Immobile	pH	Dissolved O <sub>2</sub>	Conductivity	Temperature
100	–	0	–	–	–	21
50	–	0	–	–	–	21
25	–	0	–	–	–	21
12.5	–	0	–	–	–	21
6.25	–	0	–	–	–	21
Control	–	0	–	–	–	21

Notes:

**48 HOURS**

Date & Time 2022-05-27 13:50  
 Analyst(s) : CH (EM)

Concentration (%)	Dead	Immobile	pH	Dissolved O <sub>2</sub>	Conductivity	Temperature
100	2	2	7.9	8.2	83	21
50	0	1	8.2	8.3	347	21
25	0	0	8.3	8.4	465	21
12.5	0	0	8.4	8.3	523	21
6.25	0	0	8.4	8.3	551	21
Control	0	0	8.4	8.3	582	21

Notes: Some test organisms in the 100% and 50% concentrations were floating (CH).

Number immobile does not include number dead.

"–" = not measured/not required

\* adjusted for temperature and barometric pressure

Test Data Reviewed By : EMDate : 2022-05-30



Work Order : 248470  
 Sample Number : 72777

**SAMPLE IDENTIFICATION**

Company :	Agnico Eagle Mines Limited - Meliadine Project	Sample Date :	2022-05-18
Location :	Rankin Inlet NU	Time Collected :	18:40
Substance :	Site 4	Date Received :	2022-05-25
Sampling Method :	Grab	Time Received :	10:10
Sampled By :	RL/DM/BF	Temperature at Receipt :	19 °C
Sample Description :	Cloudy, grey.	Date Tested :	2022-05-25

Test Method : Reference Method for Determining Acute Lethality of Effluents to *Daphnia magna* . Environment Canada EPS 1/RM/14 (Second Edition, December 2000, with February 2016 amendments).

**48-HOUR TEST RESULTS**

Effect	Value	95% Confidence Limits	Calculation Method
LC50	>100%	—	—
EC50	<6.25%	—	—

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

**TEST ORGANISM**

Species :	<i>Daphnia magna</i>	Time to First Brood :	8.4 days
Organism Batch :	Dm22-10	Average Brood Size :	26.9 young
Culture Mortality :	0.4% (previous 7 days)		

**TEST CONDITIONS**

Sample Treatment :	None	Number of Replicates :	1
pH Adjustment :	None	Organisms / Replicate :	10
Pre-aeration Rate :	~30 mL/min/L	Organisms / Test Level :	10
Duration of Pre-Aeration :	0 minutes	Organism Loading Rate :	15.0 mL/organism
Test Aeration :	None	Impaired Control Organisms :	0.0%
Hardness Adjustment :	None	Test Method Deviation(s) :	Yes (see below)

**REFERENCE TOXICANT DATA**

Toxicant :	Sodium Chloride	Historical Mean LC50 :	6.5 g/L
Date Tested :	2022-05-24	Warning Limits (± 2SD) :	5.8 - 7.2 g/L
LC50 :	6.4 g/L	Organism Batch :	Dm22-10
95% Confidence Limits :	6.2 - 6.6 g/L	Analyst(s) :	JJ
Statistical Method :	Spearman-Kärber		

**COMMENTS**

All test validity criteria as specified in the test method were satisfied.

Noted Deviation(s): The maximum sample holding time of 5 days allowed by the test method was exceeded. The sample was tested with the client's consent. There were no other unusual conditions or deviations from the test method, and the test is considered to be valid.

Martina Rendas  
 I am approving this document  
 2022-06-08 13:25:04:00

**Approved By :** \_\_\_\_\_

Project Manager

**TOXICITY TEST REPORT***Daphnia magna*

EPS 1/RM/14

Page 2 of 2

Work Order: 248470  
Sample Number: 72777**TEST DATA**

	pH	Dissolved O <sub>2</sub> (mg/L)	Conductivity (µmhos/cm)	Temperature (°C)	O <sub>2</sub> Saturation (%)*	Hardness (as CaCO <sub>3</sub> )
<b>Initial Chemistry (100%) :</b>	7.2	8.0	84	20	90	36 mg/L

**0 HOURS**Date & Time 2022-05-25 14:25  
Analyst(s) : JGR/JJ (KP)

Concentration (%)	Dead	Immobile	pH	Dissolved O <sub>2</sub>	Conductivity	Temperature	O <sub>2</sub> Saturation*	Hardness
100	0	0	7.2	8.0	84	20	90	36
50	0	0	8.1	8.4	350	19	–	–
25	0	0	8.3	8.5	467	19	–	–
12.5	0	0	8.3	8.5	525	19	–	–
6.25	0	0	8.3	8.5	549	19	–	–
Control	0	0	8.5	8.8	575	19	99	160

Notes:

**24 HOURS**Date & Time 2022-05-26 14:25  
Analyst(s) : JJ (KP)

Concentration (%)	Dead	Immobile	pH	Dissolved O <sub>2</sub>	Conductivity	Temperature
100	–	0	–	–	–	21
50	–	0	–	–	–	21
25	–	0	–	–	–	21
12.5	–	0	–	–	–	21
6.25	–	0	–	–	–	21
Control	–	0	–	–	–	21

Notes:

**48 HOURS**Date & Time 2022-05-27 14:25  
Analyst(s) : CH (EM)

Concentration (%)	Dead	Immobile	pH	Dissolved O <sub>2</sub>	Conductivity	Temperature
100	3	7	8.1	8.2	95	21
50	0	6	8.2	8.2	354	21
25	2	8	8.3	8.2	473	21
12.5	0	9	8.3	8.3	527	21
6.25	1	7	8.4	8.2	555	21
Control	0	0	8.4	8.3	583	21

Notes: Test organisms in the 6.25%, 12.5%, 25%, 50% and 100% were stuck to the sides of the cup above the water level (CH).

Number immobile does not include number dead.

"–" = not measured/not required

Test Data Reviewed By : EM

\* adjusted for temperature and barometric pressure

Date : 2022-05-30

CHAIN OF CUSTODY RECORD



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

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

P.O. Number: 1006008  
 Field Sampler Name (print): RL, DM, BF  
 Signature:  
 Affiliation: Agnico Eagle Mines - Meliadine  
 Sample Storage (prior to shipping): Refrigerator/cooler  
 Custody Relinquished by: Daphne Morin  
 Date/Time Shipped: 2022-05-20 8:00

Client: Agnico Eagle  
 Meliadine Project  
 Rankin Inlet, Nunavut, Canada  
 Phone: (819) 759-3555  
 Fax:  
 Contact: Brett Fairbairn

Sample Identification		Analyses Requested										Sample Method and Volume			
Date Collected (yyyy-mm-dd)	Time Collected (e.g. 14:30, 24 hr clock)	Sample Name	AquaTox Sample Number	Temp. on arrival	Rainbow Trout Single Concentration	Daphnia magna Single Concentration	Daphnia magna LC50	Fathead Minnow Survival & Growth	Ceriodaphnia dubia Survival & Reproduction	Lemna minor Growth	Pseudokirchneriella subcapitata Growth	Microtox	Grab	Composite	# of Containers and Volume (eg. 2 x 1L, 3 x 10L, etc.)
2022-05-19	19:10	Site 1	72774	19°C			✓						✓		1 pail (40L) *
2022-05-19	18:00	Site 2	72775	19°C			✓						✓		2 pails (40L)
2022-05-19	18:30	Site 3	72776	19°C			✓						✓		1 pail (40L) *
2022-05-19	18:40	Site 4	72777	19°C			✓						✓		1 pail (40L) *

For Lab Use Only  
 Received By: PC/LL  
 Date: 2022-05-25  
 Time: 10:10  
 Storage Location: AW  
 Storage Temp. (°C):

Please list any special requests or instructions:  
 \* Client sent 1x 20L pail PC  
 \*\* Sample date is 2022-05-18 as per client





Your P.O. #: OL-1129375  
 Site Location: MELIADINE  
 Your C.O.C. #: n/a

**Attention: Reporting**

Agnico-Eagle  
 Meliadine  
 Meliadine Mine  
 Rankin Inlet, NU  
 CANADA X0C 0G0

**Report Date: 2022/06/06**  
 Report #: R7153525  
 Version: 1 - Final

**CERTIFICATE OF ANALYSIS**

**BUREAU VERITAS JOB #: C2E2308**

**Received: 2022/05/25, 10:00**

Sample Matrix: Water  
 # Samples Received: 4

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Alkalinity (1)	4	N/A	2022/05/31	CAM SOP-00448	SM 23 2320 B m
Carbonate, Bicarbonate and Hydroxide (1)	4	N/A	2022/06/01	CAM SOP-00102	APHA 4500-CO2 D
Chloride by Automated Colourimetry (1)	4	N/A	2022/05/30	CAM SOP-00463	SM 23 4500-Cl E m
Conductivity (1)	4	N/A	2022/05/31	CAM SOP-00414	SM 23 2510 m
Petroleum Hydro. CCME F1 & BTEX in Water (1)	4	N/A	2022/05/30	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Water (1, 4)	4	2022/05/31	2022/05/31	CAM SOP-00316	CCME PHC-CWS m
Fluoride (1)	4	2022/05/27	2022/05/31	CAM SOP-00449	SM 23 4500-F C m
Low Level Chloride and Sulphate by AC (2)	4	N/A	2022/06/03	AB SOP-00020 / AB SOP-00018	SM23 4500-CL/SO4-E m
Hardness Total (calculated as CaCO3) (3, 5)	4	N/A	2022/06/01	BBY WI-00033	Auto Calc
Hardness (calculated as CaCO3) (3)	4	N/A	2022/06/01	BBY WI-00033	Auto Calc
Na, K, Ca, Mg, S by CRC ICPMS (diss.) (3)	4	N/A	2022/06/01	BBY7SOP-00002	EPA 6020B R2 m
Elements by CRC ICPMS (dissolved) (3)	4	N/A	2022/05/31	BBY7SOP-00002	EPA 6020B R2 m
Na, K, Ca, Mg, S by CRC ICPMS (total) (3)	4	2022/05/26	2022/06/01	BBY7SOP-00002	EPA 6020B R2 m
Elements by CRC ICPMS (total) (3)	4	2022/05/31	2022/05/31	BBY7SOP-00003/ BBY7SOPEPA 6020B R2 m -00002	
pH (1)	4	2022/05/27	2022/05/31	CAM SOP-00413	SM 4500H+ B m
Total Dissolved Solids (1)	2	2022/05/28	2022/05/30	CAM SOP-00428	SM 23 2540C m
Total Dissolved Solids (1)	2	2022/05/30	2022/05/31	CAM SOP-00428	SM 23 2540C m
Total Organic Carbon (TOC) (1, 6)	4	N/A	2022/05/30	CAM SOP-00446	SM 23 5310B m
Low Level Total Suspended Solids (1)	3	2022/05/27	2022/05/30	CAM SOP-00428	SM 23 2540D m
Low Level Total Suspended Solids (1)	1	2022/05/28	2022/05/30	CAM SOP-00428	SM 23 2540D m
Turbidity (1)	4	N/A	2022/05/27	CAM SOP-00417	SM 23 2130 B m

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement



Your P.O. #: OL-1129375  
Site Location: MELIADINE  
Your C.O.C. #: n/a

**Attention: Reporting**

Agnico-Eagle  
Meliadine  
Meliadine Mine  
Rankin Inlet, NU  
CANADA X0C 0G0

**Report Date: 2022/06/06**  
Report #: R7153525  
Version: 1 - Final

**CERTIFICATE OF ANALYSIS**

**BUREAU VERITAS JOB #: C2E2308**

**Received: 2022/05/25, 10:00**

Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested. This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

\* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

- (1) This test was performed by Bureau Veritas Mississauga, 6740 Campobello Rd , Mississauga, ON, L5N 2L8
- (2) This test was performed by Bureau Veritas Calgary (19th), 4000 19th Street NE , Calgary, AB, T2E 6P8
- (3) This test was performed by Bureau Veritas Burnaby, 4606 Canada Way , Burnaby, BC, V5G 1K5
- (4) All CCME PHC results met required criteria unless otherwise stated in the report. The CWS PHC methods employed by Bureau Veritas conform to all prescribed elements of the reference method and performance based elements have been validated. All modifications have been validated and proven equivalent following "Alberta Environment's Interpretation of the Reference Method for the Canada-Wide Standard for Petroleum Hydrocarbons in Soil Validation of Performance-Based Alternative Methods September 2003". Documentation is available upon request. Modifications from Reference Method for the Canada-wide Standard for Petroleum Hydrocarbons in Soil-Tier 1 Method: F2/F3/F4 data reported using validated cold solvent extraction instead of Soxhlet extraction.
- (5) "Total Hardness" was calculated from Total Ca and Mg concentrations and may be biased high (Hardness, or Dissolved Hardness, calculated from Dissolved Ca and Mg, should be used for compliance if available).
- (6) Total Organic Carbon (TOC) present in the sample should be considered as non-purgeable TOC.

Encryption Key

Katherine Szozda  
Project Manager  
06 Jun 2022 11:34:47

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Katherine Szozda, Project Manager  
Email: Katherine.Szozda@bureauveritas.com  
Phone# (613)274-0573 Ext:7063633

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



BUREAU  
VERITAS

Bureau Veritas Job #: C2E2308  
Report Date: 2022/06/06

Agnico-Eagle  
Site Location: MELIADINE  
Your P.O. #: OL-1129375  
Sampler Initials: DM

### CCME PHCS, BTEX/F1-F4 (WATER)

Bureau Veritas ID		SSJ130	SSJ131			SSJ131			SSJ132	SSJ133		
Sampling Date		2022/05/18 19:00	2022/05/18 18:00			2022/05/18 18:00			2022/05/18 18:30	2022/05/18 18:45		
COC Number		n/a	n/a			n/a			n/a	n/a		
	UNITS	SITE 1	SITE 2	RDL	QC Batch	SITE 2 Lab-Dup	RDL	QC Batch	SITE 3	SITE 4	RDL	QC Batch

BTEX & F1 Hydrocarbons												
Benzene	ug/L	0.69	<0.20	0.20	8022137	<0.20	0.20	8022137	<0.20	<0.20	0.20	8022137
Toluene	ug/L	7.5	0.34	0.20	8022137	0.35	0.20	8022137	<0.20	0.75	0.20	8022137
Ethylbenzene	ug/L	4.4	0.31	0.20	8022137	0.30	0.20	8022137	<0.20	0.77	0.20	8022137
o-Xylene	ug/L	8.0	0.65	0.20	8022137	0.69	0.20	8022137	<0.20	1.7	0.20	8022137
p+m-Xylene	ug/L	10	0.84	0.40	8022137	0.87	0.40	8022137	<0.40	2.1	0.40	8022137
Total Xylenes	ug/L	18	1.5	0.40	8022137	1.6	0.40	8022137	<0.40	3.8	0.40	8022137
F1 (C6-C10)	ug/L	73	<25	25	8022137	<25	25	8022137	<25	<25	25	8022137
F1 (C6-C10) - BTEX	ug/L	42	<25	25	8022137	<25	25	8022137	<25	<25	25	8022137

F2-F4 Hydrocarbons												
F2 (C10-C16 Hydrocarbons)	ug/L	230	<100	100	8023643				<100	8800	100	8023643
F3 (C16-C34 Hydrocarbons)	ug/L	880	1000	200	8023643				250	11000	200	8023643
F4 (C34-C50 Hydrocarbons)	ug/L	<200	<200	200	8023643				<200	870	200	8023643
Reached Baseline at C50	ug/L	Yes	Yes		8023643				Yes	Yes		8023643

Surrogate Recovery (%)												
1,4-Difluorobenzene	%	101	99		8022137	106		8022137	101	101		8022137
4-Bromofluorobenzene	%	98	99		8022137	97		8022137	98	100		8022137
D10-o-Xylene	%	97	98		8022137	101		8022137	100	102		8022137
D4-1,2-Dichloroethane	%	99	98		8022137	100		8022137	96	101		8022137
o-Terphenyl	%	88	89		8023643				87	92		8023643

RDL = Reportable Detection Limit  
 QC Batch = Quality Control Batch  
 Lab-Dup = Laboratory Initiated Duplicate



BUREAU  
VERITAS

Bureau Veritas Job #: C2E2308  
Report Date: 2022/06/06

Agnico-Eagle  
Site Location: MELIADINE  
Your P.O. #: OL-1129375  
Sampler Initials: DM

**DISS. ICPMS METALS FOR FEDERAL INT. GWQG (WATER)**

Bureau Veritas ID		SSJ130	SSJ131	SSJ132	SSJ133		
Sampling Date		2022/05/18 19:00	2022/05/18 18:00	2022/05/18 18:30	2022/05/18 18:45		
COC Number		n/a	n/a	n/a	n/a		
	UNITS	SITE 1	SITE 2	SITE 3	SITE 4	RDL	QC Batch
<b>Calculated Parameters</b>							
Dissolved Hardness (CaCO3)	mg/L	291	140	23.2	27.7	0.50	8027273
<b>Metals</b>							
Dissolved Aluminum (Al)	mg/L	0.0205	0.0346	0.0902	0.0336	0.0030	8027744
Dissolved Antimony (Sb)	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	0.00050	8027744
Dissolved Arsenic (As)	mg/L	0.0165	0.00581	0.0415	0.0173	0.00010	8027744
Dissolved Barium (Ba)	mg/L	0.0274	0.0141	0.0026	0.0064	0.0010	8027744
Dissolved Beryllium (Be)	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	0.00010	8027744
Dissolved Bismuth (Bi)	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	8027744
Dissolved Boron (B)	mg/L	<0.050	<0.050	<0.050	<0.050	0.050	8027744
Dissolved Cadmium (Cd)	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	0.000010	8027744
Dissolved Chromium (Cr)	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	8027744
Dissolved Cobalt (Co)	mg/L	0.00036	<0.00020	<0.00020	<0.00020	0.00020	8027744
Dissolved Copper (Cu)	mg/L	0.00302	0.00169	0.00530	0.00122	0.00020	8027744
Dissolved Iron (Fe)	mg/L	0.0302	<0.0050	0.0165	0.0117	0.0050	8027744
Dissolved Lead (Pb)	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	0.00020	8027744
Dissolved Lithium (Li)	mg/L	0.0225	0.0173	<0.0020	<0.0020	0.0020	8027744
Dissolved Manganese (Mn)	mg/L	0.0338	0.0522	0.0120	0.0134	0.0010	8027744
Dissolved Molybdenum (Mo)	mg/L	0.0043	0.0019	<0.0010	<0.0010	0.0010	8027744
Dissolved Nickel (Ni)	mg/L	0.0024	0.0010	<0.0010	<0.0010	0.0010	8027744
Dissolved Selenium (Se)	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	0.00010	8027744
Dissolved Silicon (Si)	mg/L	0.34	0.19	0.17	0.15	0.10	8027744
Dissolved Silver (Ag)	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	0.000020	8027744
Dissolved Strontium (Sr)	mg/L	0.434	0.261	0.0342	0.0460	0.0010	8027744
Dissolved Thallium (Tl)	mg/L	0.000014	<0.000010	<0.000010	<0.000010	0.000010	8027744
Dissolved Tin (Sn)	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	8027744
Dissolved Titanium (Ti)	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	8027744
Dissolved Uranium (U)	mg/L	0.00019	<0.00010	<0.00010	<0.00010	0.00010	8027744
Dissolved Vanadium (V)	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	8027744
Dissolved Zinc (Zn)	mg/L	0.0181	0.0050	<0.0050	0.0051	0.0050	8027744
Dissolved Zirconium (Zr)	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	0.00010	8027744
Dissolved Calcium (Ca)	mg/L	108	53.5	8.82	10.1	0.050	8027274
RDL = Reportable Detection Limit							
QC Batch = Quality Control Batch							



BUREAU  
VERITAS

Bureau Veritas Job #: C2E2308  
Report Date: 2022/06/06

Agnico-Eagle  
Site Location: MELIADINE  
Your P.O. #: OL-1129375  
Sampler Initials: DM

**DISS. ICPMS METALS FOR FEDERAL INT. GWQG (WATER)**

Bureau Veritas ID		SSJ130	SSJ131	SSJ132	SSJ133		
Sampling Date		2022/05/18 19:00	2022/05/18 18:00	2022/05/18 18:30	2022/05/18 18:45		
COC Number		n/a	n/a	n/a	n/a		
	UNITS	SITE 1	SITE 2	SITE 3	SITE 4	RDL	QC Batch
Dissolved Magnesium (Mg)	mg/L	5.44	1.59	0.293	0.587	0.050	8027274
Dissolved Potassium (K)	mg/L	2.67	1.03	0.204	0.473	0.050	8027274
Dissolved Sodium (Na)	mg/L	14.7	4.53	0.610	1.54	0.050	8027274
Dissolved Sulphur (S)	mg/L	6.2	<3.0	<3.0	<3.0	3.0	8027274
RDL = Reportable Detection Limit QC Batch = Quality Control Batch							



BUREAU  
VERITAS

Bureau Veritas Job #: C2E2308  
Report Date: 2022/06/06

Agnico-Eagle  
Site Location: MELIADINE  
Your P.O. #: OL-1129375  
Sampler Initials: DM

**TOTAL ICPMS METALS FOR CCME CEQG FOR SW (WATER)**

Bureau Veritas ID		SSJ130	SSJ131	SSJ132	SSJ133		
Sampling Date		2022/05/18 19:00	2022/05/18 18:00	2022/05/18 18:30	2022/05/18 18:45		
COC Number		n/a	n/a	n/a	n/a		
	UNITS	SITE 1	SITE 2	SITE 3	SITE 4	RDL	QC Batch
<b>Metals</b>							
Total Aluminum (Al)	mg/L	0.219	0.201	1.72	0.573	0.0030	8027743
Total Antimony (Sb)	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	0.00050	8027743
Total Arsenic (As)	mg/L	0.0257	0.0111	0.260	0.0440	0.00010	8027743
Total Barium (Ba)	mg/L	0.0272	0.0152	0.0226	0.0116	0.0010	8027743
Total Beryllium (Be)	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	0.00010	8027743
Total Bismuth (Bi)	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	8027743
Total Boron (B)	mg/L	<0.050	<0.050	<0.050	<0.050	0.050	8027743
Total Cadmium (Cd)	mg/L	0.000012	<0.000010	0.000027	0.000017	0.000010	8027743
Total Chromium (Cr)	mg/L	<0.0010	0.0011	0.0036	0.0031	0.0010	8027743
Total Cobalt (Co)	mg/L	0.00054	0.00036	0.00132	0.00056	0.00020	8027743
Total Copper (Cu)	mg/L	0.00454	0.00449	0.0187	0.0214	0.00050	8027743
Total Iron (Fe)	mg/L	0.597	0.605	5.38	1.89	0.010	8027743
Total Lead (Pb)	mg/L	0.00210	0.00133	0.0430	0.00781	0.00020	8027743
Total Lithium (Li)	mg/L	0.0204	0.0160	0.0026	0.0024	0.0020	8027743
Total Manganese (Mn)	mg/L	0.0419	0.0619	0.0706	0.0403	0.0010	8027743
Total Molybdenum (Mo)	mg/L	0.0043	0.0021	<0.0010	0.0044	0.0010	8027743
Total Nickel (Ni)	mg/L	0.0030	0.0016	0.0042	0.0022	0.0010	8027743
Total Selenium (Se)	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	0.00010	8027743
Total Silicon (Si)	mg/L	0.57	0.39	2.80	0.82	0.10	8027743
Total Silver (Ag)	mg/L	0.000039	0.000118	0.000041	0.000332	0.000020	8027743
Total Strontium (Sr)	mg/L	0.414	0.255	0.0445	0.0484	0.0010	8027743
Total Thallium (Tl)	mg/L	0.000017	<0.000010	0.000022	<0.000010	0.000010	8027743
Total Tin (Sn)	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	8027743
Total Titanium (Ti)	mg/L	0.0062	0.0056	0.0422	0.0157	0.0050	8027743
Total Uranium (U)	mg/L	0.00018	<0.00010	0.00015	<0.00010	0.00010	8027743
Total Vanadium (V)	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	8027743
Total Zinc (Zn)	mg/L	0.0260	0.0192	0.0140	0.111	0.0050	8027743
Total Zirconium (Zr)	mg/L	0.00016	<0.00010	0.00037	0.00016	0.00010	8027743
Total Calcium (Ca)	mg/L	104	52.5	9.82	10.8	0.050	8027742
Total Magnesium (Mg)	mg/L	5.33	1.63	1.18	1.02	0.050	8027742
Total Potassium (K)	mg/L	2.59	1.03	0.554	0.544	0.050	8027742
RDL = Reportable Detection Limit QC Batch = Quality Control Batch							



BUREAU  
VERITAS

Bureau Veritas Job #: C2E2308  
Report Date: 2022/06/06

Agnico-Eagle  
Site Location: MELIADINE  
Your P.O. #: OL-1129375  
Sampler Initials: DM

**TOTAL ICPMS METALS FOR CCME CEQG FOR SW (WATER)**

Bureau Veritas ID		SSJ130	SSJ131	SSJ132	SSJ133		
Sampling Date		2022/05/18 19:00	2022/05/18 18:00	2022/05/18 18:30	2022/05/18 18:45		
COC Number		n/a	n/a	n/a	n/a		
	UNITS	SITE 1	SITE 2	SITE 3	SITE 4	RDL	QC Batch
Total Sodium (Na)	mg/L	14.1	4.33	0.676	1.50	0.050	8027742
Total Sulphur (S)	mg/L	5.8	<3.0	<3.0	<3.0	3.0	8027742
<b>Calculated Parameters</b>							
Total Hardness (CaCO3)	mg/L	281	138	29.4	31.1	0.50	8027741
RDL = Reportable Detection Limit							
QC Batch = Quality Control Batch							



BUREAU  
VERITAS

Bureau Veritas Job #: C2E2308  
Report Date: 2022/06/06

Agnico-Eagle  
Site Location: MELIADINE  
Your P.O. #: OL-1129375  
Sampler Initials: DM

### RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		SSJ130			SSJ131			SSJ132		
Sampling Date		2022/05/18 19:00			2022/05/18 18:00			2022/05/18 18:30		
COC Number		n/a			n/a			n/a		
	UNITS	SITE 1	RDL	QC Batch	SITE 2	RDL	QC Batch	SITE 3	RDL	QC Batch
<b>Calculated Parameters</b>										
Bicarb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	45	1.0	8016219	20	1.0	8016219	29	1.0	8016219
Carb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	<1.0	1.0	8016219	<1.0	1.0	8016219	<1.0	1.0	8016219
<b>Inorganics</b>										
Conductivity	umho/cm	860	1.0	8019679	420	1.0	8019679	69	1.0	8019679
Total Dissolved Solids	mg/L	760	10	8021081	360	10	8019354	60	10	8021081
Fluoride (F <sup>-</sup> )	mg/L	<0.10	0.10	8019659	<0.10	0.10	8019659	<0.10	0.10	8019659
Total Organic Carbon (TOC)	mg/L	5.8	0.40	8019345	2.0	0.40	8019345	0.61	0.40	8019345
pH	pH	7.13		8019681	6.83		8019681	7.60		8019681
Total Suspended Solids	mg/L	8	1	8019011	13	1	8019011	61	1	8019011
Turbidity	NTU	1.2	0.1	8018157	0.8	0.1	8018157	170	0.1	8018157
Alkalinity (Total as CaCO <sub>3</sub> )	mg/L	45	1.0	8019671	20	1.0	8019671	29	1.0	8019671
Dissolved Chloride (Cl <sup>-</sup> )	mg/L	200	2.0	8019148	110	1.0	8019148	2.6	1.0	8019148
Dissolved Sulphate (SO <sub>4</sub> )	mg/L	19	1.0	8032894	4.4	1.0	8032894	1.0	0.50	8032894
RDL = Reportable Detection Limit QC Batch = Quality Control Batch										





BUREAU  
VERITAS

Bureau Veritas Job #: C2E2308  
Report Date: 2022/06/06

Agnico-Eagle  
Site Location: MELIADINE  
Your P.O. #: OL-1129375  
Sampler Initials: DM

**RESULTS OF ANALYSES OF WATER**

Bureau Veritas ID		SSJ132			SSJ133			SSJ133		
Sampling Date		2022/05/18 18:30			2022/05/18 18:45			2022/05/18 18:45		
COC Number		n/a			n/a			n/a		
	UNITS	SITE 3 Lab-Dup	RDL	QC Batch	SITE 4	RDL	QC Batch	SITE 4 Lab-Dup	RDL	QC Batch
<b>Calculated Parameters</b>										
Bicarb. Alkalinity (calc. as CaCO3)	mg/L				26	1.0	8016219			
Carb. Alkalinity (calc. as CaCO3)	mg/L				<1.0	1.0	8016219			
<b>Inorganics</b>										
Conductivity	umho/cm				86	1.0	8019679	86	1.0	8019679
Total Dissolved Solids	mg/L				50	10	8019354			
Fluoride (F-)	mg/L				<0.10	0.10	8019659	<0.10	0.10	8019659
Total Organic Carbon (TOC)	mg/L				2.4	0.40	8019345			
pH	pH				6.92		8019681	6.93		8019681
Total Suspended Solids	mg/L				41	1	8021077			
Turbidity	NTU				3.6	0.1	8018157			
Alkalinity (Total as CaCO3)	mg/L				26	1.0	8019671	25	1.0	8019671
Dissolved Chloride (Cl-)	mg/L	2.5	1.0	8019148	9.5	1.0	8019148			
Dissolved Sulphate (SO4)	mg/L				2.2	0.50	8032895			
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate										



BUREAU  
VERITAS

Bureau Veritas Job #: C2E2308  
Report Date: 2022/06/06

Agnico-Eagle  
Site Location: MELIADINE  
Your P.O. #: OL-1129375  
Sampler Initials: DM

### TEST SUMMARY

**Bureau Veritas ID:** SSJ130  
**Sample ID:** SITE 1  
**Matrix:** Water

**Collected:** 2022/05/18  
**Shipped:**  
**Received:** 2022/05/25

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	8019671	N/A	2022/05/31	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	8016219	N/A	2022/06/01	Automated Statchk
Chloride by Automated Colourimetry	KONE	8019148	N/A	2022/05/30	Alina Dobreanu
Conductivity	AT	8019679	N/A	2022/05/31	Surinder Rai
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	8022137	N/A	2022/05/30	Abdikarim Ali
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	8023643	2022/05/31	2022/05/31	Jeevaraj Jeevaratnam
Fluoride	ISE	8019659	2022/05/27	2022/05/31	Surinder Rai
Low Level Chloride and Sulphate by AC	KONE	8032894	N/A	2022/06/03	Shanna McKort
Hardness Total (calculated as CaCO3)	CALC	8027741	N/A	2022/06/01	Automated Statchk
Hardness (calculated as CaCO3)	CALC	8027273	N/A	2022/06/01	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	8027274	N/A	2022/06/01	Automated Statchk
Elements by CRC ICPMS (dissolved)	ICP/MS	8027744	N/A	2022/05/31	Jeffrey Laporte
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	8027742	2022/06/01	2022/06/01	Automated Statchk
Elements by CRC ICPMS (total)	ICP/MS	8027743	2022/05/31	2022/05/31	Jeffrey Laporte
pH	AT	8019681	2022/05/27	2022/05/31	Surinder Rai
Total Dissolved Solids	BAL	8021081	2022/05/28	2022/05/30	Kristen Chan
Total Organic Carbon (TOC)	TOCV/NDIR	8019345	N/A	2022/05/30	Anna-Kay Gooden
Low Level Total Suspended Solids	BAL	8019011	2022/05/27	2022/05/30	Shaneil Hall
Turbidity	AT	8018157	N/A	2022/05/27	Roya Fathitil

**Bureau Veritas ID:** SSJ131  
**Sample ID:** SITE 2  
**Matrix:** Water

**Collected:** 2022/05/18  
**Shipped:**  
**Received:** 2022/05/25

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	8019671	N/A	2022/05/31	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	8016219	N/A	2022/06/01	Automated Statchk
Chloride by Automated Colourimetry	KONE	8019148	N/A	2022/05/30	Alina Dobreanu
Conductivity	AT	8019679	N/A	2022/05/31	Surinder Rai
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	8022137	N/A	2022/05/30	Abdikarim Ali
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	8023643	2022/05/31	2022/05/31	Jeevaraj Jeevaratnam
Fluoride	ISE	8019659	2022/05/27	2022/05/31	Surinder Rai
Low Level Chloride and Sulphate by AC	KONE	8032894	N/A	2022/06/03	Shanna McKort
Hardness Total (calculated as CaCO3)	CALC	8027741	N/A	2022/06/01	Automated Statchk
Hardness (calculated as CaCO3)	CALC	8027273	N/A	2022/06/01	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	8027274	N/A	2022/06/01	Automated Statchk
Elements by CRC ICPMS (dissolved)	ICP/MS	8027744	N/A	2022/05/31	Jeffrey Laporte
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	8027742	2022/06/01	2022/06/01	Automated Statchk
Elements by CRC ICPMS (total)	ICP/MS	8027743	2022/05/31	2022/05/31	Jeffrey Laporte
pH	AT	8019681	2022/05/27	2022/05/31	Surinder Rai
Total Dissolved Solids	BAL	8019354	2022/05/30	2022/05/31	Kristen Chan
Total Organic Carbon (TOC)	TOCV/NDIR	8019345	N/A	2022/05/30	Anna-Kay Gooden
Low Level Total Suspended Solids	BAL	8019011	2022/05/27	2022/05/30	Shaneil Hall
Turbidity	AT	8018157	N/A	2022/05/27	Roya Fathitil



BUREAU  
VERITAS

Bureau Veritas Job #: C2E2308  
Report Date: 2022/06/06

Agnico-Eagle  
Site Location: MELIADINE  
Your P.O. #: OL-1129375  
Sampler Initials: DM

### TEST SUMMARY

**Bureau Veritas ID:** SSJ131 Dup  
**Sample ID:** SITE 2  
**Matrix:** Water

**Collected:** 2022/05/18  
**Shipped:**  
**Received:** 2022/05/25

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	8022137	N/A	2022/05/30	Abdikarim Ali

**Bureau Veritas ID:** SSJ132  
**Sample ID:** SITE 3  
**Matrix:** Water

**Collected:** 2022/05/18  
**Shipped:**  
**Received:** 2022/05/25

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	8019671	N/A	2022/05/31	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	8016219	N/A	2022/06/01	Automated Statchk
Chloride by Automated Colourimetry	KONE	8019148	N/A	2022/05/30	Alina Dobreanu
Conductivity	AT	8019679	N/A	2022/05/31	Surinder Rai
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	8022137	N/A	2022/05/30	Abdikarim Ali
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	8023643	2022/05/31	2022/05/31	Jeevaraj Jeevaratnam
Fluoride	ISE	8019659	2022/05/27	2022/05/31	Surinder Rai
Low Level Chloride and Sulphate by AC	KONE	8032894	N/A	2022/06/03	Shanna McKort
Hardness Total (calculated as CaCO3)	CALC	8027741	N/A	2022/06/01	Automated Statchk
Hardness (calculated as CaCO3)	CALC	8027273	N/A	2022/06/01	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	8027274	N/A	2022/06/01	Automated Statchk
Elements by CRC ICPMS (dissolved)	ICP/MS	8027744	N/A	2022/05/31	Jeffrey Laporte
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	8027742	2022/06/01	2022/06/01	Automated Statchk
Elements by CRC ICPMS (total)	ICP/MS	8027743	2022/05/31	2022/05/31	Jeffrey Laporte
pH	AT	8019681	2022/05/27	2022/05/31	Surinder Rai
Total Dissolved Solids	BAL	8021081	2022/05/28	2022/05/30	Kristen Chan
Total Organic Carbon (TOC)	TOCV/NDIR	8019345	N/A	2022/05/30	Anna-Kay Gooden
Low Level Total Suspended Solids	BAL	8019011	2022/05/27	2022/05/30	Shaneil Hall
Turbidity	AT	8018157	N/A	2022/05/27	Roya Fathitil

**Bureau Veritas ID:** SSJ132 Dup  
**Sample ID:** SITE 3  
**Matrix:** Water

**Collected:** 2022/05/18  
**Shipped:**  
**Received:** 2022/05/25

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Chloride by Automated Colourimetry	KONE	8019148	N/A	2022/05/30	Alina Dobreanu

**Bureau Veritas ID:** SSJ133  
**Sample ID:** SITE 4  
**Matrix:** Water

**Collected:** 2022/05/18  
**Shipped:**  
**Received:** 2022/05/25

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	8019671	N/A	2022/05/31	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	8016219	N/A	2022/06/01	Automated Statchk
Chloride by Automated Colourimetry	KONE	8019148	N/A	2022/05/30	Alina Dobreanu
Conductivity	AT	8019679	N/A	2022/05/31	Surinder Rai
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	8022137	N/A	2022/05/30	Abdikarim Ali
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	8023643	2022/05/31	2022/05/31	Jeevaraj Jeevaratnam



BUREAU  
VERITAS

Bureau Veritas Job #: C2E2308  
Report Date: 2022/06/06

Agnico-Eagle  
Site Location: MELIADINE  
Your P.O. #: OL-1129375  
Sampler Initials: DM

### TEST SUMMARY

**Bureau Veritas ID:** SSJ133  
**Sample ID:** SITE 4  
**Matrix:** Water

**Collected:** 2022/05/18  
**Shipped:**  
**Received:** 2022/05/25

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Fluoride	ISE	8019659	2022/05/27	2022/05/31	Surinder Rai
Low Level Chloride and Sulphate by AC	KONE	8032895	N/A	2022/06/03	Shanna McKort
Hardness Total (calculated as CaCO3)	CALC	8027741	N/A	2022/06/01	Automated Statchk
Hardness (calculated as CaCO3)	CALC	8027273	N/A	2022/06/01	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	8027274	N/A	2022/06/01	Automated Statchk
Elements by CRC ICPMS (dissolved)	ICP/MS	8027744	N/A	2022/05/31	Jeffrey Laporte
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	8027742	2022/06/01	2022/06/01	Automated Statchk
Elements by CRC ICPMS (total)	ICP/MS	8027743	2022/05/31	2022/05/31	Jeffrey Laporte
pH	AT	8019681	2022/05/27	2022/05/31	Surinder Rai
Total Dissolved Solids	BAL	8019354	2022/05/30	2022/05/31	Kristen Chan
Total Organic Carbon (TOC)	TOCV/NDIR	8019345	N/A	2022/05/30	Anna-Kay Gooden
Low Level Total Suspended Solids	BAL	8021077	2022/05/28	2022/05/30	Shaneil Hall
Turbidity	AT	8018157	N/A	2022/05/27	Roya Fathitil

**Bureau Veritas ID:** SSJ133 Dup  
**Sample ID:** SITE 4  
**Matrix:** Water

**Collected:** 2022/05/18  
**Shipped:**  
**Received:** 2022/05/25

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	8019671	N/A	2022/05/31	Surinder Rai
Conductivity	AT	8019679	N/A	2022/05/31	Surinder Rai
Fluoride	ISE	8019659	2022/05/27	2022/05/31	Surinder Rai
pH	AT	8019681	2022/05/27	2022/05/31	Surinder Rai



**BUREAU**  
**VERITAS**

Bureau Veritas Job #: C2E2308  
Report Date: 2022/06/06

Agnico-Eagle  
Site Location: MELIADINE  
Your P.O. #: OL-1129375  
Sampler Initials: DM

### GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	17.0°C
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**Results relate only to the items tested.**



BUREAU VERITAS  
 Bureau Veritas Job #: C2E2308  
 Report Date: 2022/06/06

**QUALITY ASSURANCE REPORT**

Agnico-Eagle  
 Site Location: MELIADINE  
 Your P.O. #: OL-1129375  
 Sampler Initials: DM

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
8022137	1,4-Difluorobenzene	2022/05/30	100	70 - 130	99	70 - 130	104	%				
8022137	4-Bromofluorobenzene	2022/05/30	98	70 - 130	99	70 - 130	96	%				
8022137	D10-o-Xylene	2022/05/30	95	70 - 130	92	70 - 130	101	%				
8022137	D4-1,2-Dichloroethane	2022/05/30	97	70 - 130	97	70 - 130	90	%				
8023643	o-Terphenyl	2022/05/31	96	60 - 130	94	60 - 130	93	%				
8018157	Turbidity	2022/05/27			103	85 - 115	<0.1	NTU	0.85	20		
8019011	Total Suspended Solids	2022/05/30					<1	mg/L	11	25	95	85 - 115
8019148	Dissolved Chloride (Cl-)	2022/05/30	126 (1)	80 - 120	105	80 - 120	<1.0	mg/L	2.2	20		
8019345	Total Organic Carbon (TOC)	2022/05/30	94	80 - 120	96	80 - 120	<0.40	mg/L	4.3	20		
8019354	Total Dissolved Solids	2022/05/31					<10	mg/L	0.43	25	97	90 - 110
8019659	Fluoride (F-)	2022/05/31	96	80 - 120	101	80 - 120	<0.10	mg/L	NC	20		
8019671	Alkalinity (Total as CaCO3)	2022/05/31			95	85 - 115	<1.0	mg/L	2.1	20		
8019679	Conductivity	2022/05/31			102	85 - 115	<1.0	umho/cm	0.12	25		
8019681	pH	2022/05/31			102	98 - 103			0.24	N/A		
8021077	Total Suspended Solids	2022/05/30					<1	mg/L	0	25	96	85 - 115
8021081	Total Dissolved Solids	2022/05/30					<10	mg/L	2.4	25	102	90 - 110
8022137	Benzene	2022/05/30	94	50 - 140	97	50 - 140	<0.20	ug/L	NC	30		
8022137	Ethylbenzene	2022/05/30	105	50 - 140	109	50 - 140	<0.20	ug/L	4.3	30		
8022137	F1 (C6-C10) - BTEX	2022/05/30					<25	ug/L	NC	30		
8022137	F1 (C6-C10)	2022/05/30	88	60 - 140	90	60 - 140	<25	ug/L	NC	30		
8022137	o-Xylene	2022/05/30	100	50 - 140	103	50 - 140	<0.20	ug/L	4.9	30		
8022137	p+m-Xylene	2022/05/30	101	50 - 140	103	50 - 140	<0.40	ug/L	3.9	30		
8022137	Toluene	2022/05/30	100	50 - 140	101	50 - 140	<0.20	ug/L	1.7	30		
8022137	Total Xylenes	2022/05/30					<0.40	ug/L	4.3	30		
8023643	F2 (C10-C16 Hydrocarbons)	2022/05/31	111	60 - 130	102	60 - 130	<100	ug/L	NC	30		
8023643	F3 (C16-C34 Hydrocarbons)	2022/05/31	109	60 - 130	104	60 - 130	<200	ug/L	NC	30		
8023643	F4 (C34-C50 Hydrocarbons)	2022/05/31	106	60 - 130	100	60 - 130	<200	ug/L	NC	30		
8027743	Total Aluminum (Al)	2022/05/31	92	80 - 120	97	80 - 120	<0.0030	mg/L	14	20		
8027743	Total Antimony (Sb)	2022/05/31	99	80 - 120	98	80 - 120	<0.00050	mg/L				
8027743	Total Arsenic (As)	2022/05/31	NC	80 - 120	98	80 - 120	<0.00010	mg/L	3.0	20		
8027743	Total Barium (Ba)	2022/05/31	NC	80 - 120	94	80 - 120	<0.0010	mg/L	1.5	20		



BUREAU VERITAS

Bureau Veritas Job #: C2E2308  
Report Date: 2022/06/06

### QUALITY ASSURANCE REPORT(CONT'D)

Agnico-Eagle  
Site Location: MELIADINE  
Your P.O. #: OL-1129375  
Sampler Initials: DM

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
8027743	Total Beryllium (Be)	2022/05/31	94	80 - 120	94	80 - 120	<0.00010	mg/L				
8027743	Total Bismuth (Bi)	2022/05/31	90	80 - 120	92	80 - 120	<0.00010	mg/L				
8027743	Total Boron (B)	2022/05/31	100	80 - 120	100	80 - 120	<0.050	mg/L				
8027743	Total Cadmium (Cd)	2022/05/31	98	80 - 120	97	80 - 120	<0.000010	mg/L	NC	20		
8027743	Total Chromium (Cr)	2022/05/31	101	80 - 120	98	80 - 120	<0.0010	mg/L	14	20		
8027743	Total Cobalt (Co)	2022/05/31	98	80 - 120	99	80 - 120	<0.00020	mg/L				
8027743	Total Copper (Cu)	2022/05/31	94	80 - 120	95	80 - 120	<0.00050	mg/L	NC	20		
8027743	Total Iron (Fe)	2022/05/31	NC	80 - 120	100	80 - 120	<0.010	mg/L	7.5	20		
8027743	Total Lead (Pb)	2022/05/31	95	80 - 120	97	80 - 120	<0.00020	mg/L	NC	20		
8027743	Total Lithium (Li)	2022/05/31	97	80 - 120	95	80 - 120	<0.0020	mg/L				
8027743	Total Manganese (Mn)	2022/05/31	NC	80 - 120	97	80 - 120	<0.0010	mg/L	1.5	20		
8027743	Total Molybdenum (Mo)	2022/05/31	NC	80 - 120	98	80 - 120	<0.0010	mg/L	3.0	20		
8027743	Total Nickel (Ni)	2022/05/31	95	80 - 120	97	80 - 120	<0.0010	mg/L	1.0	20		
8027743	Total Selenium (Se)	2022/05/31	106	80 - 120	104	80 - 120	<0.00010	mg/L	NC	20		
8027743	Total Silicon (Si)	2022/05/31	102	80 - 120	107	80 - 120	<0.10	mg/L				
8027743	Total Silver (Ag)	2022/05/31	98	80 - 120	96	80 - 120	<0.000020	mg/L	NC	20		
8027743	Total Strontium (Sr)	2022/05/31	NC	80 - 120	90	80 - 120	<0.0010	mg/L				
8027743	Total Thallium (Tl)	2022/05/31	95	80 - 120	93	80 - 120	<0.000010	mg/L	6.1	20		
8027743	Total Tin (Sn)	2022/05/31	97	80 - 120	98	80 - 120	<0.0050	mg/L				
8027743	Total Titanium (Ti)	2022/05/31	94	80 - 120	96	80 - 120	<0.0050	mg/L				
8027743	Total Uranium (U)	2022/05/31	100	80 - 120	95	80 - 120	<0.00010	mg/L				
8027743	Total Vanadium (V)	2022/05/31	99	80 - 120	95	80 - 120	<0.0050	mg/L				
8027743	Total Zinc (Zn)	2022/05/31	97	80 - 120	98	80 - 120	<0.0050	mg/L	NC	20		
8027743	Total Zirconium (Zr)	2022/05/31	99	80 - 120	93	80 - 120	<0.00010	mg/L				
8027744	Dissolved Aluminum (Al)	2022/05/31	93	80 - 120	99	80 - 120	<0.0030	mg/L				
8027744	Dissolved Antimony (Sb)	2022/05/31	96	80 - 120	99	80 - 120	<0.00050	mg/L				
8027744	Dissolved Arsenic (As)	2022/05/31	99	80 - 120	101	80 - 120	<0.00010	mg/L				
8027744	Dissolved Barium (Ba)	2022/05/31	92	80 - 120	98	80 - 120	<0.0010	mg/L				
8027744	Dissolved Beryllium (Be)	2022/05/31	92	80 - 120	97	80 - 120	<0.00010	mg/L				
8027744	Dissolved Bismuth (Bi)	2022/05/31	86	80 - 120	94	80 - 120	<0.0010	mg/L				
8027744	Dissolved Boron (B)	2022/05/31	94	80 - 120	100	80 - 120	<0.050	mg/L				
8027744	Dissolved Cadmium (Cd)	2022/05/31	93	80 - 120	98	80 - 120	<0.000010	mg/L				



BUREAU  
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1875

Bureau Veritas Job #: C2E2308  
Report Date: 2022/06/06

**QUALITY ASSURANCE REPORT(CONT'D)**

Agnico-Eagle  
Site Location: MELIADINE  
Your P.O. #: OL-1129375  
Sampler Initials: DM

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
8027744	Dissolved Chromium (Cr)	2022/05/31	93	80 - 120	99	80 - 120	<0.0010	mg/L				
8027744	Dissolved Cobalt (Co)	2022/05/31	92	80 - 120	100	80 - 120	<0.00020	mg/L				
8027744	Dissolved Copper (Cu)	2022/05/31	88	80 - 120	97	80 - 120	<0.00020	mg/L				
8027744	Dissolved Iron (Fe)	2022/05/31	93	80 - 120	102	80 - 120	<0.0050	mg/L				
8027744	Dissolved Lead (Pb)	2022/05/31	91	80 - 120	96	80 - 120	<0.00020	mg/L				
8027744	Dissolved Lithium (Li)	2022/05/31	91	80 - 120	97	80 - 120	<0.0020	mg/L				
8027744	Dissolved Manganese (Mn)	2022/05/31	91	80 - 120	99	80 - 120	<0.0010	mg/L				
8027744	Dissolved Molybdenum (Mo)	2022/05/31	98	80 - 120	101	80 - 120	<0.0010	mg/L				
8027744	Dissolved Nickel (Ni)	2022/05/31	90	80 - 120	99	80 - 120	<0.0010	mg/L				
8027744	Dissolved Selenium (Se)	2022/05/31	98	80 - 120	104	80 - 120	<0.00010	mg/L				
8027744	Dissolved Silicon (Si)	2022/05/31	102	80 - 120	110	80 - 120	<0.10	mg/L				
8027744	Dissolved Silver (Ag)	2022/05/31	95	80 - 120	98	80 - 120	<0.000020	mg/L				
8027744	Dissolved Strontium (Sr)	2022/05/31	NC	80 - 120	95	80 - 120	<0.0010	mg/L				
8027744	Dissolved Thallium (Tl)	2022/05/31	91	80 - 120	95	80 - 120	<0.000010	mg/L				
8027744	Dissolved Tin (Sn)	2022/05/31	93	80 - 120	98	80 - 120	<0.0050	mg/L				
8027744	Dissolved Titanium (Ti)	2022/05/31	96	80 - 120	101	80 - 120	<0.0050	mg/L				
8027744	Dissolved Uranium (U)	2022/05/31	94	80 - 120	98	80 - 120	<0.00010	mg/L				
8027744	Dissolved Vanadium (V)	2022/05/31	95	80 - 120	97	80 - 120	<0.0050	mg/L				
8027744	Dissolved Zinc (Zn)	2022/05/31	92	80 - 120	101	80 - 120	<0.0050	mg/L				
8027744	Dissolved Zirconium (Zr)	2022/05/31	99	80 - 120	100	80 - 120	<0.00010	mg/L				
8032894	Dissolved Sulphate (SO4)	2022/06/03	104	80 - 120	107	80 - 120	<0.50	mg/L	1.4	20		





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1875

Bureau Veritas Job #: C2E2308  
Report Date: 2022/06/06

### QUALITY ASSURANCE REPORT(CONT'D)

Agnico-Eagle  
Site Location: MELIADINE  
Your P.O. #: OL-1129375  
Sampler Initials: DM

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
8032895	Dissolved Sulphate (SO4)	2022/06/03	NC	80 - 120	106	80 - 120	<0.50	mg/L				

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.



### VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

*Cristina Carriere*

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Cristina Carriere, Senior Scientific Specialist

*David Huang*

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David Huang, BBY Scientific Specialist

*Sze Yeung Fock*

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Sze Yeung Fock, B.Sc., Scientific Specialist

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Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



**BUREAU  
VERITAS**

Bureau Veritas Job #: C2E2308  
Report Date: 2022/06/06

Agnico-Eagle  
Site Location: MELIADINE  
Your P.O. #: OL-1129375  
Sampler Initials: DM

**Exceedance Summary Table – Metal Mining Effluent Reg  
Result Exceedances**

Sample ID	Bureau Veritas ID	Parameter	Criteria	Result	DL	UNITS
No Exceedances						
The exceedance summary table is for information purposes only and should not be considered a comprehensive listing or statement of conformance to applicable regulatory guidelines.						



# 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>05-24-2022</b>	REPORT TIME <b>20:45</b>	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT	REPORT NUMBER _____
<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>KVPL11D01</b>	WATER LICENCE NUMBER (IF APPLICABLE) <b>2BB-MEL1424</b>		
<b>D</b>	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION <b>Meliadine Gold Project</b>	REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN		
<b>E</b>	LATITUDE DEGREES <b>63</b> MINUTES <b>2</b> SECONDS <b>21</b>	LONGITUDE DEGREES <b>92</b> MINUTES <b>13</b> SECONDS <b>41</b>		
<b>F</b>	RESPONSIBLE PARTY OR VESSEL NAME <b>Agnico Eagle Mines Ltd.</b>	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION <b>Meliadine, Rankin Inlet, Nunavut, X0C 0G0</b>		
<b>G</b>	ANY CONTRACTOR INVOLVED <b>Orbit Garant</b>	CONTRACTOR ADDRESS OR OFFICE LOCATION <b>Val d'Or, Quebec</b>		
<b>H</b>	PRODUCT SPILLED <b>Various Substances</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>Under Investigation</b>	SPILL CAUSE <b>Unknown</b>	AREA OF CONTAMINATION IN SQUARE METRES <b>Unknown</b>	
<b>J</b>	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>	

<b>K</b>	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS <b>During a post drilling visual inspection materials related to drilling operations were observed on lake B38. A cleanup of the material will take place until it is no longer safe to do so due to melting condition.</b>  <b>Pursuant to Part H, Section 4c of the Water License, a follow-up report will be issued after a closer investigation is completed.</b>  <b>Location of spill: 63 0'25.75"N 92 12'35.29"W</b>  <b>Contact information: Sara Savoie 819-759-3555 extension 4603212 sara.savoie@agnicoeagle.com.</b>			
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<b>L</b>	REPORTED TO SPILL LINE BY <b>Sara Savoie</b>	POSITION <b>Env. Gen Supervisor</b>	EMPLOYER <b>AEM</b>	LOCATION CALLING FROM <b>Meliadine</b>	TELEPHONE <b>819-856-9349</b>
<b>M</b>	ANY ALTERNATE CONTACT <b>Matt Gillman</b>	POSITION <b>Env. Super. Interim</b>	EMPLOYER <b>AEM</b>	ALTERNATE CONTACT LOCATION <b>Meliadine</b>	ALTERNATE TELEPHONE <b>519-373-6249</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					

# Follow Up Report: #2022206

## May 24<sup>th</sup>, 2022

### A8 Post Drilling

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The following information refers to a spill reported by Agnico Eagle Mines Limited (AEM) on May 24<sup>th</sup>, 2022, and is being provided in accordance with:

- the Nunavut Water Board License 2BB-MEL1424 Water License, part H, item 4c;
- the Fisheries Act subsection 38(7).

#### Description of the Incident:

On May 24<sup>th</sup>, 2022, during a post drilling visual inspection AEM identified material related to drilling activities on lake B38. Similar to report 2002188 activities to cleanup the material were immediately initiated.



**Figure 1: Lake B38 location**

#### Spill Response & Clean-up:

After the inspection, Orbit Garant and AEM's Exploration Geology and Environment Departments began a collaborative effort to clean up lake B38 and the shore of lake B38 on a regular basis, pending conditions were safe to proceed. The clean-up efforts began on May 24<sup>th</sup>, 2022 and were completed on May 29<sup>th</sup>, 2022. Each clean-up activity is documented in Table 1.

Some materials were frozen in place and couldn't be removed safely such as freshwater lines. These items were identified with buoys and GPS locations and will be removed by helicopter when safe to do so during the ice-free season.



**Figure 2: Drilling debris clean-up from clean-up efforts on May 29<sup>th</sup>, 2022**

**Table 1 – Clean-up activities from May 24<sup>th</sup> to May 29<sup>th</sup>**

Date	Time	Lake	Material collected	LAT	LONG	Photo	Photo#	Comments
5/24/2022	14:51	B38	Drill casing (laying on the ground)	540543.94	6986477	Yes	20220525-01	Drill casing not installed; laying on top of tundra (Orbit to recover)
5/25/2022	12:33	B38	Drill Cuttings	540060.13	6986734.23	Yes	20250525-02	Drill cuttings were hand shoveled and brought back to site for disposal
5/29/2022		B38	Various materials			Yes	20220529-B38-1	Geology team conducted a large clean up around B38

### **Cause of the Incident and Corrective Measures:**

Similar to spill 2022188, the cause of the event has been attributed to a combination of three factors. Firstly, insufficient follow-up with training and implementation of drilling on ice procedures due to crew reorganizations/shortages as a result of the covid-19 pandemic. Secondly, a high magnitude of snow deposition and drifting in the area which buried the material out-of-site during drill activities. Thirdly, an earlier than expected snowmelt period which inhibited completion of a sufficient post-drilling on ice season clean-up prior to the progression of the 2022 snowmelt period.

As previously explained, a thorough clean-up campaign was implemented on lake B38 to remove debris and substances related to drilling activities (suspected drill cuttings) in the area. The efforts are summarized in Table 1.

In a Letter of Intent date April 28<sup>th</sup>, 2022 addressed to AEM and shared with CIRNAC and ECCC, Orbit Garant committed to several actions to mitigate spill occurrences during the next drilling on ice season, at various levels of their operations (training, procedures, engineered controls, data collection methodology, etc.).

Furthermore, during a meeting held May 17, 2022, AEM, Orbit Garant, CIRNAC and ECCC discussed the observations made during the 2022 drilling on ice season and identified corrective measures aimed to prevent the occurrence of similar events in the future. In this meeting, AEM and Orbit Garant further committed to the development and implementation of a comprehensive exploration drilling action plan prior to the start of next season's winter drilling.

AEM will submit the comprehensive exploration drilling action plan, prior to start of the next winter drilling season, to the Nunavut Water Board and the Inspector, as well as to ECCC, as agreed with CIRNAC and ECCC.





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>05-29-2022</b>	REPORT TIME <b>13:10</b>	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT	REPORT NUMBER _____
	OCCURRENCE DATE: MONTH – DAY – YEAR <b>05-29-2022</b>	OCCURRENCE TIME <b>8:30</b>		
<b>C</b>	LAND USE PERMIT NUMBER (IF APPLICABLE) <b>KVPL11D01</b>	WATER LICENCE NUMBER (IF APPLICABLE) <b>2AM-MEL1631</b>		
	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION <b>Meliadine Gold Project</b>		REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN	
<b>E</b>	LATITUDE DEGREES <b>63</b> MINUTES <b>2</b> SECONDS <b>21</b>	LONGITUDE DEGREES <b>92</b> MINUTES <b>13</b> SECONDS <b>41</b>		
	RESPONSIBLE PARTY OR VESSEL NAME <b>Agnico Eagle Mines Ltd.</b>	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION <b>Meliadine, Rankin Inlet, Nunavut, X0C 0G0</b>		
<b>G</b>	ANY CONTRACTOR INVOLVED <b>Dyno Nobel</b>	CONTRACTOR ADDRESS OR OFFICE LOCATION <b>N/A</b>		
	PRODUCT SPILLED <b>Ammonium Nitrate</b>	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES <b>100 KG</b>	U.N. NUMBER <b>UN1942</b>	
<b>H</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>	
	SPILL SOURCE <b>Quatrex Bag</b>	SPILL CAUSE <b>Human error</b>	AREA OF CONTAMINATION IN SQUARE METRES <b>10</b>	
<b>J</b>	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>	

<b>K</b>	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS			
	<p><b>Plant operator was loading the emulsion plant with 1000kg bags of ammonium nitrate, during this task the operator hit the right side of the loading door with an ammonium nitrate bag causing a tear. The spill clean-up is currently being completed.</b></p> <p><b>The coordinates of the spill are 63° 2' 38.96"N, 92° 15' 22.11"W. No water bodies were impacted by this spill. The nearest natural water body (G8) is 335 m NNE.</b></p> <p><b>Pursuant to Part H, Item 8c of water license 2AM-MEL1631, a follow up report will be issued after the investigation is completed.</b></p> <p><b>Reported by Randy Schwandt Environment Coordinator 819-759-3555 ext. 4603996 randy.schwandt@agnicoeagle.com.</b></p>			

<b>L</b>	REPORTED TO SPILL LINE BY <b>Randy Schwandt</b>	POSITION <b>Env. Coordinator</b>	EMPLOYER <b>AEM</b>	LOCATION CALLING FROM <b>Meliadine</b>	TELEPHONE <b>819-759-3555</b>
	ANY ALTERNATE CONTACT <b>Matt Gillman</b>	POSITION <b>Interim Env. Supt.</b>	EMPLOYER <b>AEM</b>	ALTERNATE CONTACT LOCATION <b>Meliadine</b>	ALTERNATE TELEPHONE <b>519-373-6249</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			

# Follow Up Report: #2022221

## May 29<sup>th</sup>, 2022, Ammonium Nitrate Spill



The following information refers to spill 2022221 reported by Agnico Eagle Mines Limited May 29th, 2022, and is being provided in accordance with:

- the Nunavut Water Board License 2AM-MEL1631 Water License, part H, item 8c.
- Canadian Environmental Protection Act, 1999, Section 201, E2 regulations Facility ID number 1524.

### Description of Incident:

On May 29, 2022 at approximately 8:30AM, the plant operator was loading the process belt with 1000 kg bags of Ammonium Nitrate (pellets). During this task the Ammonium Nitrate bag hit the doorway causing the bag to split open, spilling 100 kg of Ammonium Nitrate to the ground.

No water bodies were impacted by this spill. The closest natural water body (G8) is 335 m from the spill location. The coordinates of the spill are 63° 2' 38.96"N, 92° 15' 22.11"W (Figure 1)



Figure 1: Location of 100 kg Ammonium Nitrate spill

### Spill Response & Cleanup:

The loading process was stopped, and cleanup was started immediately. The emulsion was contained to the local area as identified in Figure 2. It was determined that there was no risk of ignition during spill cleanup activities as emulsion requires high pressure and a heat source for detonation and none of these conditions were present or susceptible of being present during the spill cleanup.



**Figure 2:** 100 kg Ammonium Nitrate spill

The recuperated Ammonium Nitrate material will be used at the open pit inside bore holes as part of the blast pattern during future events as initially intended.



**Figures 3-4:** Spill area final cleanup and contaminated material packeted and ready to be disposed

### Cause of the Incident and Corrective Measures

The cause of the spill was determined to be human error. The worker moving the Ammonium Nitrate bag caught the side of the bag on the door frame causing the bag to split, spilling the solid pellets to the ground.

Dyno Nobel supervisors reviewed the Operations Procedure with the Dyno Nobel employees to ensure proper work practices are used to prevent future spills that could occur around the loading area. A toolbox meeting with Dyno Nobel team was also conducted by Dyno Nobel supervisors to reiterate the importance of having clear concentration when conducting work - if any employee feels fatigued, this must be reported to the acting supervisor. The operator working when the spill occurred was also met with individually on these topics to ensure understanding and conformance.

A field observation of operator loading practices was conducted to ensure all operators are competent with the equipment. Due to the tight confine of the area, it has been determined that the use of a spotter is not possible due to a safety risk of a spotter during loading operations. This is the first ammonium nitrate spill that occurred in this area since the construction of the plant.



# 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>06-13-2022</b>	REPORT TIME <b>15:30</b>	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT	<b>REPORT NUMBER</b>  _____
<b>B</b>	OCCURRENCE DATE: MONTH – DAY – YEAR <b>06-13-2022</b>	OCCURRENCE TIME <b>07:00</b>		
<b>C</b>	LAND USE PERMIT NUMBER (IF APPLICABLE) <b>KVPL11D01</b>	WATER LICENCE NUMBER (IF APPLICABLE) <b>2AM-MEL1631</b>		
<b>D</b>	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION <b>Meliadine Gold Project</b>	REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN		
<b>E</b>	LATITUDE DEGREES <b>63</b> MINUTES <b>2</b> SECONDS <b>21</b>	LONGITUDE DEGREES <b>92</b> MINUTES <b>13</b> SECONDS <b>41</b>		
<b>F</b>	RESPONSIBLE PARTY OR VESSEL NAME <b>Agnico Eagle Mines Ltd.</b>	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION <b>Meliadine, Rankin Inlet, Nunavut, X0C 0G0</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>Untreated Sewage</b>	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES <b>25 Liters</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>Wing 2 Lift Station</b>	SPILL CAUSE <b>Equipment Failure</b>	AREA OF CONTAMINATION IN SQUARE METRES <b>1</b>	
<b>J</b>	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>	

<b>K</b>	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS <p><b>An overflow of the lift station for wing 2 of the main camp resulted in a spill of 25 L of sewage to the industrial pad. The spill was contained to the local area. Clean up activities are ongoing.</b></p> <p><b>The coordinates of the spill are 63° 2' 24.54"N, 92° 13' 42.60"W. No water bodies were impacted by this spill. The nearest natural water body (G2) is 230 m north.</b></p> <p><b>Pursuant to Part H, Item 8c of water license 2AM-MEL1631, a follow up report will be issued after the investigation is completed.</b></p> <p><b>Reported by Brett Fairbairn Environment Coordinator 819-759-3555 ext. 4603996 Brett.Fairbairn@agnicoeagle.com.</b></p>			
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<b>L</b>	REPORTED TO SPILL LINE BY <b>Brett Fairbarin</b>	POSITION <b>Env. Coordinator</b>	EMPLOYER <b>AEM</b>	LOCATION CALLING FROM <b>Meliadine</b>	TELEPHONE <b>819-759-3555</b>
<b>M</b>	ANY ALTERNATE CONTACT <b>Matt Gillman</b>	POSITION <b>Interim Env. Supt.</b>	EMPLOYER <b>AEM</b>	ALTERNATE CONTACT LOCATION <b>Meliadine</b>	ALTERNATE TELEPHONE <b>519-373-6249</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					

## Follow Up Report: #2022267 June 13<sup>th</sup>, 2022 – 25 L Sewage Spill

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The following information refers to incident #2022267 reported by Agnico Eagle Mines Ltd. June 13<sup>th</sup>, 2022, and is being provided in accordance with:

- the Nunavut Water Board License 2AM-MEL1631 Water License, Part H, item 8c.

### Description of Incident

At approximately 7:00 am on June 13<sup>th</sup>, 2022, an estimated 25 liters of untreated sewage was spilled to the gravel pad from the Wing 2 lift station when two lift station pumps failed to engage.

The coordinates of this spill are 63° 2' 24.54"N, 92° 13' 42.60"W. No water bodies were impacted by this spill. The closest water body (G2) is approximately 230 meters north.



**Figure 1:** Location of sewage spill.

### Spill Response & Cleanup

Upon discovery of the spill, a vacuum truck was called to empty the lift station and recover the liquid sewage outside the lift station. The recovered liquid was pumped into the MSB lift station for processing at the sewage treatment plant. The sewage contaminated gravel was scrapped up by a loader and placed in WRSF 1 for final disposal.



**Figure 2:** Location of sewage spill post-cleanup.

### **Cause of Incident and Corrective Measures**

A piece of material that was flushed down a toilet jammed the pump causing the overflow. The backup pump in this lift station did not engage as per design. It is suspected that the backup pump was also jammed, and upon stopping and starting the pump the material was dislodged. Both pumps were tested and confirmed to be functional before being put back into service.

A formal site wide communication was distributed to all Meliadine employees and contractors (see Appendix A) conveying the importance of not flushing incorrect materials down toilets. Each lift station is equipped with a local audio/visual alarm; however, AEM is actively investigating options for these alarms to be communicated remotely. AEM is also investigating replacement pumps equipped for grinding solid products for each lift station. AEM has also engaged an external specialist to conduct an audit of the sewage works and provide a report of recommendations.

## **Appendix A**





# 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>07-08-2022</b>	REPORT TIME <b>13:00</b>	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT	<b>REPORT NUMBER</b>  _____
<b>B</b>	OCCURRENCE DATE: MONTH – DAY – YEAR <b>07-07-2022</b>	OCCURRENCE TIME <b>20:00</b>		
<b>C</b>	LAND USE PERMIT NUMBER (IF APPLICABLE) <b>KVPL11D01</b>	WATER LICENCE NUMBER (IF APPLICABLE) <b>2AM-MEL1631</b>		
<b>D</b>	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION <b>Meliadine Gold Project</b>	REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN		
<b>E</b>	LATITUDE DEGREES <b>63</b> MINUTES <b>2</b> SECONDS <b>21</b>	LONGITUDE DEGREES <b>92</b> MINUTES <b>13</b> SECONDS <b>41</b>		
<b>F</b>	RESPONSIBLE PARTY OR VESSEL NAME <b>Agnico Eagle Mines Ltd.</b>	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION <b>Meliadine, Rankin Inlet, Nunavut, X0C 0G0</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>Untreated Sewage</b>	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES <b>50 Liters</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>Wing 2 Lift Station</b>	SPILL CAUSE <b>Equipment Failure</b>	AREA OF CONTAMINATION IN SQUARE METRES <b>2</b>	
<b>J</b>	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>	

<b>K</b>	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS <p><b>An overflow of the lift station for wing 2 of the main camp resulted in a spill of 50 L of sewage to the industrial pad. The spill was contained to the local area. Clean up activities are ongoing.</b></p> <p><b>The coordinates of the spill are 63° 2' 24.54"N, 92° 13' 42.60"W. No water bodies were impacted by this spill. The nearest natural water body (G2) is 230 m north.</b></p> <p><b>Pursuant to Part H, Item 8c of water license 2AM-MEL1631, a follow up report will be issued after the investigation is completed.</b></p> <p><b>Reported by Brett Fairbairn Environment Coordinator 819-759-3555 ext. 4603996 Brett.Fairbairn@agnicoeagle.com.</b></p>			
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<b>L</b>	REPORTED TO SPILL LINE BY <b>Brett Fairbarin</b>	POSITION <b>Env. Coordinator</b>	EMPLOYER <b>AEM</b>	LOCATION CALLING FROM <b>Meliadine</b>	TELEPHONE <b>819-759-3555</b>
<b>M</b>	ANY ALTERNATE CONTACT <b>Matt Gillmen</b>	POSITION <b>Interim Env. Supt.</b>	EMPLOYER <b>AEM</b>	ALTERNATE CONTACT LOCATION <b>Meliadine</b>	ALTERNATE TELEPHONE <b>519-373-6249</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
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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					

# Follow Up Report: #2022357

## July 7<sup>th</sup>, 2022 – 50 L Sewage Spill



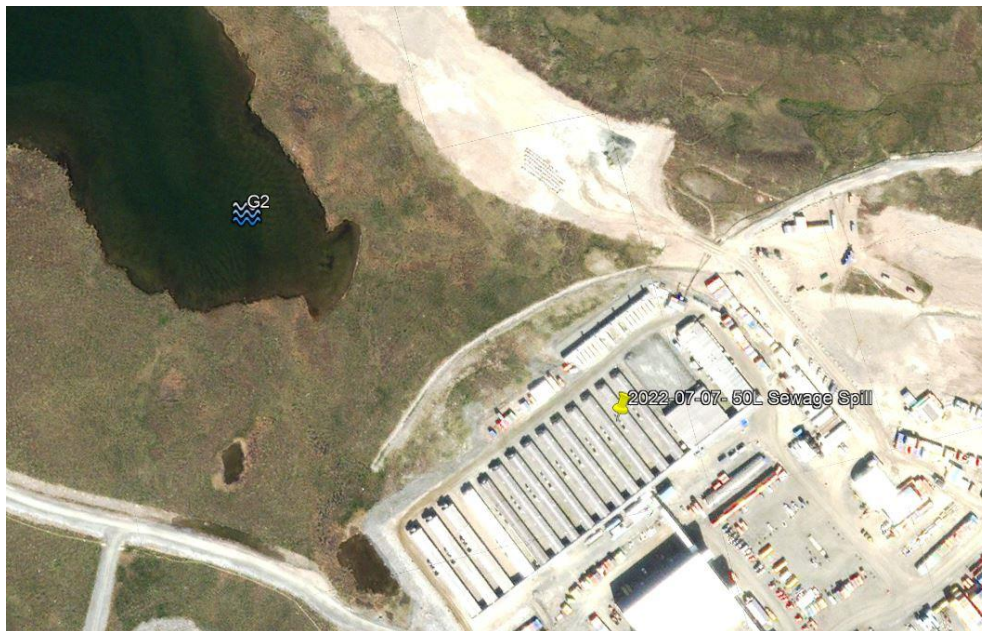
The following information refers to incident #2022357 reported by Agnico Eagle Mines Ltd. (Agnico Eagle) on July 8<sup>th</sup>, 2022, and is being provided in accordance with:

- the Nunavut Water Board License 2AM-MEL1631 Water License, Part H, item 8c.

### Description of Incident

At approximately 8:00 pm on July 7<sup>th</sup>, 2022, an estimated 50 liters of untreated sewage was spilled to the gravel pad from the Wing 2 lift station when two lift station pumps failed to engage.

The coordinates of this spill are 63° 2' 24.54"N, 92° 13' 42.60"W. No water bodies were impacted by this spill. The closest water body (G2) is approximately 230 meters north.



**Figure 1:** Location of sewage spill.

### Spill Response & Cleanup

Upon discovery of the spill, a vacuum truck was dispatched to empty the lift station and recover the liquid sewage outside the lift station. The recovered liquid was pumped into the Mine Services Building (MSB) lift station for processing at the sewage treatment plant. The sewage contaminated gravel was scrapped by a loader and placed in Waste Rock Storage Facility 1 for final disposal.



**Figure 2:** Location of sewage spill post-cleanup.

### **Cause of Incident and Corrective Measures**

An electrician and plumber were sent to inspect the lift station to determine the cause of the overflow. A piece of material presumed to have been flushed down a toilet had jammed a pump. A backup pump in this lift station did not engage as it was also jammed with waste material. Material was cleaned from both pump inlets, the pumps were tested and were operating as designed and put back into service. Installation of a new 20 amp breaker was completed on July 8<sup>th</sup> as a preventative maintenance measure.

Each lift station is equipped with two Liberty ProVore 1HP 120 volt sewage grinder pumps. Each grinder pump has a cutting element located at the inlet that is subject to wear/tear, which could result in reduced cutting performance and clogging. An audit of each grinder pump is underway to assess the conditions of the cutting elements and replace them as required. Each lift station is also equipped with a local audio/visual alarm; however, AGNICO EAGLE is actively investigating options for these alarms to be communicated remotely.

GCM Consultants has been contracted to complete an audit on the entire sewage system used at the Meliadine site from August 3<sup>rd</sup>-9<sup>th</sup>. An audit report with recommendations will be provided to AGNICO EAGLE and potential system enhancements will be communicated to CIRNAC.



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>07-29-2022</b>	REPORT TIME <b>9:35</b>	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT	REPORT NUMBER _____
<b>B</b>	OCCURRENCE DATE: MONTH – DAY – YEAR <b>07-28-2022</b>	OCCURRENCE TIME <b>11:30</b>		
<b>C</b>	LAND USE PERMIT NUMBER (IF APPLICABLE) <b>KVPL11D01</b>	WATER LICENCE NUMBER (IF APPLICABLE) <b>2AM-MEL1631</b>		
<b>D</b>	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION <b>Meliadine Gold Project</b>	REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN		
<b>E</b>	LATITUDE DEGREES <b>63</b> MINUTES <b>2</b> SECONDS <b>21</b>	LONGITUDE DEGREES <b>92</b> MINUTES <b>13</b> SECONDS <b>41</b>		
<b>F</b>	RESPONSIBLE PARTY OR VESSEL NAME <b>Agnico Eagle Mines Ltd.</b>	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION <b>Meliadine, Rankin Inlet, Nunavut, X0C 0G0</b>		
<b>G</b>	ANY CONTRACTOR INVOLVED <b>Dyno Nobel</b>	CONTRACTOR ADDRESS OR OFFICE LOCATION <b>N/A</b>		
<b>H</b>	PRODUCT SPILLED <b>Emulsion</b>	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES <b>2m3</b>	U.N. NUMBER <b>UN0332</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>Emulsion tank</b>	SPILL CAUSE <b>Human error</b>	AREA OF CONTAMINATION IN SQUARE METRES <b>10</b>	
<b>J</b>	FACTORS AFFECTING SPILL OR RECOVERY <b>Infrastructure in spill area</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>When emulsion production was active, an overflow occurred from the emulsion storage tank.</b>  <b>The coordinates of the spill are 63° 2' 39.54"N, 92° 15' 20.33"W. No water bodies were impacted by this spill. The nearest natural water body (G8) is 315 m NNE.</b>  <b>Pursuant to Part H, Item 8c of water license 2AM-MEL1631, a follow up report will be issued after the investigation is completed.</b> <b>E2 regulations Facility ID number 1524.</b>  <b>Reported by Randy Schwandt Environment Coordinator 819-759-3555 ext. 4603996</b> <b>randy.schwandt@agnicoeagle.com.</b>			
----------	--	--	--	--

<b>L</b>	REPORTED TO SPILL LINE BY <b>Randy Schwandt</b>	POSITION <b>Env. Coordinator</b>	EMPLOYER <b>AEM</b>	LOCATION CALLING FROM <b>Meliadine</b>	TELEPHONE <b>819-759-3555</b>
<b>M</b>	ANY ALTERNATE CONTACT <b>Sara Savoie</b>	POSITION <b>Environment General</b>	EMPLOYER <b>AEM</b>	ALTERNATE CONTACT LOCATION <b>Meliadine</b>	ALTERNATE TELEPHONE <b>819-759-3555</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 24<sup>th</sup>, 2022

Christine Wilson  
Water Resource Officer  
Kivalliq Region, Field Operations Unit  
Crown-Indigenous Relations and Northern Affairs Canada  
Rankin Inlet, NU  
X0C 0G0

*Sent via email: [Christine.Wilson3@rcaanc-cirnac.gc.ca](mailto:Christine.Wilson3@rcaanc-cirnac.gc.ca)*

## **Re.: Follow-up Report: Spill #2022357– Release of 2m<sup>3</sup> of Emulsion at the Meliadine Gold Project**

On July 29<sup>th</sup>, 2022, the Nunavut Spill Line was notified by AEM personnel via email ([spills@gov.nt.ca](mailto:spills@gov.nt.ca)) of a spill of approximately 2m<sup>3</sup> of emulsion at the Meliadine Gold Project site (spill location coordinates: 63° 2' 39.54"N, 92° 15' 20.33", E2 regulations Facility ID#1524.). This follow-up report provides supplemental information based on the results of the incident investigation conducted for this incident and is being provided in accordance with:

- the Nunavut Water Board License 2AM-MEL1631 Water License, part H, item 8c.

### **Description of Incident**

On July 28<sup>th</sup>, 2022, at approximately 11:30 am, an estimated 2m<sup>3</sup> of emulsion was spilled on surface at the emulsion plant. An overflow from tank RU7000 (T3) occurred during underground emulsion production. No water bodies were impacted by this spill. The closest water body (G8) is approximately 315 meters north as seen in Figure 1.



**Figure 1:** Location of emulsion spill and proximity to water bodies.

## Spill Response and Remediation

Spilled emulsion was pumped into a tote for reuse. Residual emulsion not suitable for reuse was hand excavated and will be placed into open pit boreholes for final disposal as per the Explosives Management Plan.

## Root Causes and Corrective Measures

An investigation was conducted soon after the incident occurred to determine the root causes and contributing factors. The investigation concluded with the following:

Prior to manufacturing the batch of emulsion, the tank inventory sheet was verified to ensure there would be enough room to produce the required amount of emulsion. However, it was later discovered that an



error was made on the available underground emulsion tank inventory which led to the emulsion production tank overflowing.

- The process in place to verify tank inventory prior to the production of emulsion needs to be strengthened.

The following corrective and preventative actions have been implemented to address the root causes and to reduce the likelihood of reoccurrence:

- The tank inventory sheet is now updated by the person filling bins/producing emulsion;
- A field for weights/quantities on the back of the work cards has been added as a reminder;
- All operators indicate what bins have been loaded and emulsion produced on the back of their work cards
- High level sensor has been installed on August 23<sup>rd</sup>
- The site supervisor now verifies tank inventory daily and compares it to billing information;
- Each time tanks are emptied a visual confirmation is made and noted on the inventory sheet;
- Visual confirmation of the tank level is made prior to large production blends (>10,000kg).

Should you have any questions or require further information, please do not hesitate to contact the undersigned.



**Randy Schwandt** | Environment Coordinator

[randy.schwandt@agnicoeagle.com](mailto:randy.schwandt@agnicoeagle.com) | Direct 819.759.3555 x4603996 |

Agnico Eagle Mines Limited - Meliadine Mine, Suite 879 - Rankin Inlet, Nunavut,  
Canada X0C 0G0

[agnicoeagle.com](http://agnicoeagle.com)     

Sent from Meliadine



## **Appendix – Photos**





# AGNICO EAGLE

MELIADINE



**Photo 1:** Emulsion spill at tank RU7000



**Photo 2:** Spill remediation beneath tank RU7000



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>08-03-2022</b>	REPORT TIME <b>15:30</b>	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR		REPORT NUMBER _____
	OCCURRENCE DATE: MONTH – DAY – YEAR <b>08-02-2022</b>	OCCURRENCE TIME <b>19:00</b>	<input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT		
<b>C</b>	LAND USE PERMIT NUMBER (IF APPLICABLE) <b>KVPL11D01</b>	WATER LICENCE NUMBER (IF APPLICABLE) <b>2AM-MEL1631</b>			
	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION <b>Meliadine Gold Project</b>		REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN		
<b>E</b>	LATITUDE DEGREES <b>63</b> MINUTES <b>2</b> SECONDS <b>21</b>	LONGITUDE DEGREES <b>92</b> MINUTES <b>13</b> SECONDS <b>41</b>			
	RESPONSIBLE PARTY OR VESSEL NAME <b>Agnico Eagle Mines Ltd.</b>	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION <b>Meliadine, Rankin Inlet, Nunavut, X0C 0G0</b>			
<b>G</b>	ANY CONTRACTOR INVOLVED <b>N/A</b>	CONTRACTOR ADDRESS OR OFFICE LOCATION <b>N/A</b>			
	PRODUCT SPILLED <b>Untreated Sewage</b>	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES <b>400 Liters</b>	U.N. NUMBER <b>N/A</b>		
<b>H</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>		
	SPILL SOURCE <b>Wing 10 Lift Station</b>	SPILL CAUSE <b>Human error</b>	AREA OF CONTAMINATION IN SQUARE METRES <b>5</b>		
<b>J</b>	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>		
	<b>K</b> ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS <b>An overflow of the lift station for wing 10 of the main camp resulted in a spill of 400 L of sewage to the industrial pad. The spill was contained to the local area.</b>  <b>The coordinates of the spill are 63° 2' 22.89"N, 92° 13' 49.64"W. No water bodies were impacted by this spill. The nearest natural water body (G2) is 200 m north.</b>  <b>Pursuant to Part H, Item 8c of water license 2AM-MEL1631, a follow up report will be issued after the investigation is completed.</b>  <b>Reported by Randy Schwandt Environment Coordinator 819-759-3555 ext. 4603996 Randy.schwandt@agnicoeagle.com; kyle.conway@agnicoeagle.com ext. 4603212</b>				
<b>L</b>	REPORTED TO SPILL LINE BY <b>Randy Schwandt</b>	POSITION <b>Env. Coordinator</b>	EMPLOYER <b>AEM</b>	LOCATION CALLING FROM <b>Meliadine</b>	TELEPHONE <b>819-759-3555</b>
	ANY ALTERNATE CONTACT <b>Kyle Conway</b>	POSITION <b>General Supervisor</b>	EMPLOYER <b>AEM</b>	ALTERNATE CONTACT LOCATION <b>Meliadine</b>	ALTERNATE TELEPHONE <b>819-759-3555</b>
<b>REPORT LINE USE ONLY</b>					
<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 30<sup>th</sup>, 2022

Christine Wilson  
Water Resource Officer  
Kivalliq Region, Field Operations Unit  
Crown-Indigenous Relations and Northern Affairs Canada  
Rankin Inlet, NU  
X0C 0G0

*Sent via email: [Christine.Wilson3@rcaanc-cirnac.gc.ca](mailto:Christine.Wilson3@rcaanc-cirnac.gc.ca)*

## **Re.: Follow-up Report: Spill #2022395– Release of 400 L of Untreated Sewage at the Meliadine Gold Project**

On August 3<sup>rd</sup>, 2022, the Nunavut Spill Line was notified by Agnico Eagle personnel via email ([spills@gov.nt.ca](mailto:spills@gov.nt.ca)) of a spill of approximately 400 L of untreated sewage at the Meliadine Gold Project site (spill location coordinates: 63° 2' 22.89"N, 92° 13' 49.64"). This follow-up report provides supplemental information based on the results of the incident investigation conducted for this incident and is being provided in accordance with:

- the Nunavut Water Board License 2AM-MEL1631 Water License, part H, item 8c

### **Description of Incident**

On August 2<sup>nd</sup>, 2022, at approximately 7:00 pm, an estimated 400 L of untreated sewage was spilled on the industrial pad due to an overflow of the Wing 10 lift station. No water bodies were impacted by this spill. The closest water body (G2) is approximately 200 meters north, as seen in Figure 1.



**Figure 1:** Location of untreated sewage spill and proximity to water bodies.

## Spill Response and Remediation

Upon discovery of the spill, a vacuum truck was dispatched to empty the lift station and recover the liquid sewage outside the lift station. An estimated 30 L of free liquid was obtained with the vacuum truck and 1 m<sup>3</sup> of surface material was brought to Landfarm A as per section 3.4.4 in the Landfarm Management Plan.



## Root Causes and Corrective Measures

An investigation was conducted soon after the incident occurred to determine the root causes and contributing factors. The investigation concluded with the following:

- A plumber closed a valve to perform an inspection of the Wing 10 lift station and failed to open the valve upon completion.

The following corrective and preventative actions have been implemented to address the root causes and to reduce the likelihood of reoccurrence:

- The importance of a workplace inspection prior to and after completing work was discussed with all teams during the Weekly Safety Meeting.
- A maintenance procedure is currently being created to outline proper practices for maintenance on a lift station.

Should you have any questions or require further information, please do not hesitate to contact the undersigned.



**Randy Schwandt** | Environment Coordinator

[randy.schwandt@agnicoeagle.com](mailto:randy.schwandt@agnicoeagle.com) | Direct 819.759.3555 x4603996 |

Agnico Eagle Mines Limited - Meliadine Mine, Suite 879 - Rankin Inlet, Nunavut,  
Canada X0C 0G0

[agnicoeagle.com](http://agnicoeagle.com)     

Sent from Meliadine



## Appendix – Photos



# AGNICO EAGLE

MELIADINE



**Photo 1:** Wing 10 lift station untreated sewage spill.



**Photo 2:** Spill remediation area.



# 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>08-03-2022</b>	REPORT TIME <b>18:00</b>	<input type="checkbox"/> ORIGINAL SPILL REPORT, OR		<b>REPORT NUMBER</b> <b>20 - 22425</b>
	OCCURRENCE DATE: MONTH – DAY – YEAR <b>08-02-2022</b>	OCCURRENCE TIME <b>18:30</b>	<input checked="" type="checkbox"/> UPDATE # <b>1</b> TO THE ORIGINAL SPILL REPORT		
<b>C</b>	LAND USE PERMIT NUMBER (IF APPLICABLE) <b>KVPL11D01</b>		WATER LICENCE NUMBER (IF APPLICABLE) <b>2AM-MEL1631</b>		
	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION <b>Meliadine Gold Project</b>		REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN		
<b>E</b>	LATITUDE DEGREES <b>63</b> MINUTES <b>2</b> SECONDS <b>21</b>		LONGITUDE DEGREES <b>92</b> MINUTES <b>13</b> SECONDS <b>41</b>		
	RESPONSIBLE PARTY OR VESSEL NAME <b>Agnico Eagle Mines Ltd.</b>		RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION <b>Meliadine, Rankin Inlet, Nunavut, X0C 0G0</b>		
<b>G</b>	ANY CONTRACTOR INVOLVED <b>N/A</b>		CONTRACTOR ADDRESS OR OFFICE LOCATION <b>N/A</b>		
	PRODUCT SPILLED <b>Untreated sewage</b>		QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES <b>20 Litres</b>	U.N. NUMBER <b>N/A</b>	
<b>H</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>	
	SPILL SOURCE <b>Wing C Lift Station</b>		SPILL CAUSE <b>Equipment malfunction</b>	AREA OF CONTAMINATION IN SQUARE METRES <b>1</b>	
<b>J</b>	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>	
	<b>K</b> ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS <b>An overflow occurred at the wing c lift station resulting in a spill of 20 L of untreated sewage to the industrial pad. The spill was contained to the local area.</b>  <b>The coordinates of the spill are 63° 2' 23.09"N, 92° 13' 32.69"W. No water bodies were impacted by this spill. The nearest natural water body (G2) is 360 m northwest.</b>  <b>Pursuant to Part H, Item 8c of water license 2AM-MEL1631, a follow up report will be issued after the investigation is completed.</b>  <b>Reported by Randy Schwandt Environment Coordinator 819-759-3555 ext. 4603996 Randy.schwandt@agnicoeagle.com , kyle.conway@agnicoeagle.com ext. 4603212</b>				
<b>L</b>	REPORTED TO SPILL LINE BY <b>Randy Schwandt</b>	POSITION <b>Env. Coordinator</b>	EMPLOYER <b>AEM</b>	LOCATION CALLING FROM <b>Meliadine</b>	TELEPHONE <b>819-759-3555</b>
	ANY ALTERNATE CONTACT <b>Kyle Conway</b>	POSITION <b>General Supervisor</b>	EMPLOYER <b>AEM</b>	ALTERNATE CONTACT LOCATION <b>Meliadine</b>	ALTERNATE TELEPHONE <b>819-759-3555</b>
<b>REPORT LINE USE ONLY</b>					
<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					





September 1<sup>st</sup>, 2022

Christine Wilson  
Water Resource Officer  
Kivalliq Region, Field Operations Unit  
Crown-Indigenous Relations and Northern Affairs Canada  
Rankin Inlet, NU  
X0C 0G0

Sent via email: [Christine.Wilson3@rcaanc-cirnac.gc.ca](mailto:Christine.Wilson3@rcaanc-cirnac.gc.ca)

## **Re.: Follow-up Report: Spill #2022397– Release of 20 L of Untreated Sewage at the Meliadine Gold Project**

On August 3<sup>rd</sup>, 2022, the Nunavut Spill Line was notified by Agnico Eagle personnel via email ([spills@gov.nt.ca](mailto:spills@gov.nt.ca)) of a spill of approximately 20 L of untreated sewage at the Meliadine Gold Project site (spill location coordinates: 63° 2' 23.09"N, 92° 13' 32.69"). This follow-up report provides supplemental information based on the results of the incident investigation and is being provided in accordance with:

- the Nunavut Water Board License 2AM-MEL1631 Water License, part H, item 8c.

### **Description of Incident**

On August 2<sup>nd</sup>, 2022, at approximately 6:00 pm, an estimated 20 L of untreated sewage was spilled on the industrial pad due to an overflow of the Wing C lift station. No water bodies were impacted by this spill. The closest water body (G2) is approximately 360 meters northwest, as seen in Figure 1.



**Figure 1:** Location of sewage spill and proximity to water bodies.

## Spill Response and Remediation

Upon discovery of the spill, a vacuum truck was dispatched to empty the lift station and recover the untreated sewage outside the lift station. Free liquid was pumped back into the main camp lift station. Absorbent pads were deployed to collect the remaining liquid and packaged for offsite disposal at a licensed disposal facility. The impacted surface was hand excavated and an estimated 15 kg of material was brought to Landfarm A as per section 3.4.4 in the Landfarm Management Plan.

## Root Causes and Corrective Measures

An investigation was conducted soon after the incident occurred to determine the root causes and contributing factors. The investigation concluded with the following:



- The high-level sensor (float) in the lift station was stuck in the low-level position and did not activate the pump or the alarm in the lift station. A contributing factor to this malfunction was the material within the lift station was too thick.

The following corrective and preventative actions have been implemented to address the root causes and to reduce the likelihood of reoccurrence:

- The waste streams sent to the lift station were evaluated. The lift station received waste from the Wing C accommodations as well as the Sewage Treatment Plant's (STP) sludge dewatering system. Waste collected from the sludge handling system is now directed to the fine screen tank of the STP to reduce the likelihood of the high-level sensor becoming stuck.

Should you have any questions or require further information, please do not hesitate to contact the undersigned.



**Randy Schwandt** | Environment Coordinator

[randy.schwandt@agnicoeagle.com](mailto:randy.schwandt@agnicoeagle.com) | Direct 819.759.3555 x4603996 |

Agnico Eagle Mines Limited - Meliadine Mine, Suite 879 - Rankin Inlet, Nunavut,  
Canada X0C 0G0

[agnicoeagle.com](http://agnicoeagle.com)     

Sent from Meliadine



## Appendix – Photos



# AGNICO EAGLE

MELIADINE



**Photo 1:** Wing-C lift station spill



**Photo 2:** Wing C lift station spill remediation



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>08-10-2022</b>	REPORT TIME <b>17:30</b>	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT	<b>REPORT NUMBER</b>  _____
<b>B</b>	OCCURRENCE DATE: MONTH – DAY – YEAR <b>08-09-2022</b>	OCCURRENCE TIME <b>21:00</b>		
<b>C</b>	LAND USE PERMIT NUMBER (IF APPLICABLE) <b>KVPL11D01</b>	WATER LICENCE NUMBER (IF APPLICABLE) <b>2AM-MEL1631</b>		
<b>D</b>	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION <b>Meliadine Gold Project</b>		REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN	
<b>E</b>	LATITUDE DEGREES <b>63</b> MINUTES <b>2</b> SECONDS <b>21</b>		LONGITUDE DEGREES <b>92</b> MINUTES <b>13</b> SECONDS <b>41</b>	
<b>F</b>	RESPONSIBLE PARTY OR VESSEL NAME <b>Agnico Eagle Mines Ltd.</b>	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION <b>Meliadine, Rankin Inlet, Nunavut, X0C 0G0</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>Wash bay solids</b>	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES <b>300 Liters</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>Meliadine wash bay sump</b>	SPILL CAUSE <b>Human error</b>	AREA OF CONTAMINATION IN SQUARE METRES <b>6</b>	
<b>J</b>	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>	

<b>K</b>	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS <p><b>A transfer of solids from the vehicle wash bay to a haul truck resulted in a 300 Liter spill on the industrial pad. The spill was contained to the local area.</b></p> <p><b>The coordinates of the spill are 63° 2' 20.79"N, 92° 13' 0.61"W. No water bodies were impacted by this spill. The nearest natural water body (Meliadine Lake) is 265 m east.</b></p> <p><b>Pursuant to Part H, Item 8c of water license 2AM-MEL1631, a follow up report will be issued after the investigation is completed.</b></p> <p><b>Reported by Brett Fairbairn Environment Coordinator 819-759-3555 ext. 4603996 brett.fairbairn@agnicoeagle.com; kyle.conway@agnicoeagle.com ext. 4603212</b></p>			
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<b>L</b>	REPORTED TO SPILL LINE BY <b>Brett Fairbairn</b>	POSITION <b>Env. Coordinator</b>	EMPLOYER <b>AEM</b>	LOCATION CALLING FROM <b>Meliadine</b>	TELEPHONE <b>819-759-3555</b>
<b>M</b>	ANY ALTERNATE CONTACT <b>Kyle Conway</b>	POSITION <b>General Supervisor</b>	EMPLOYER <b>AEM</b>	ALTERNATE CONTACT LOCATION <b>Meliadine</b>	ALTERNATE TELEPHONE <b>819-759-3555</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
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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					



September 8, 2022

Christine Wilson  
Water Resource Officer  
Kivalliq Region, Field Operations Unit  
Crown-Indigenous Relations and Northern Affairs Canada  
Rankin Inlet, NU  
X0C 0G0

Sent via email: [Christine.Wilson3@rcaanc-cirnac.gc.ca](mailto:Christine.Wilson3@rcaanc-cirnac.gc.ca)

## **Re.: Follow-up Report: Spill #2022411– Release of 300 L of wash bay solids at the Meliadine Gold Project**

On August 10th, 2022, the Nunavut Spill Line was notified by Agnico Eagle personnel via email ([spills@gov.nt.ca](mailto:spills@gov.nt.ca)) of a spill of approximately 300 L of wash bay solids at the Meliadine Gold Project site (spill location coordinates: 63° 2' 20.79"N, 92° 13' 0.61"). This follow-up report provides supplemental information based on the results of the incident investigation and is being provided in accordance with:

- the Nunavut Water Board License 2AM-MEL1631 Water License, part H, item 8c.

### **Description of Incident**

On August 9<sup>th</sup>, 2022, at approximately 9:00 pm, an estimated 300 L of wash bay solids was spilled on the industrial pad during the transfer of solids from the vehicle wash bay to a haul truck. No water bodies were impacted by this spill. The closest water body (Meliadine Lake) is approximately 265 meters east, as seen in Figure 1.



**Figure 1:** Location of wash bay solids spill and proximity to water bodies.

## Spill Response and Remediation

Upon discovery of the spill, a vacuum truck was used to recover the wash bay solids and remediate the impacted area. The recovered material was placed in Landfarm A as per the Landfarm Management Plan.

## Root Causes and Corrective Measures

An investigation was conducted soon after the incident occurred to determine the root cause and contributing factors for this incident. The investigation concluded with the following:





- A wash bay waste handling procedure outlining handling and disposal of the wash bay waste streams has not been developed.

The following corrective and preventative actions have been implemented to address the root causes and to reduce the likelihood of reoccurrence:

- A wash bay waste handling and disposal procedure is being developed for the waste streams generated at this facility, and the wash bay attendants will be trained to ensure proper understanding of the procedure; and
- An investigation into thickening agents that bind solids and reduce the water content has been initiated to determine suitability for this application. This may improve handling, transportation, and disposal of the material.

Should you have any questions or require further information, please do not hesitate to contact the undersigned.



**Brett Fairbairn** | Environment Coordinator

[brett.fairbairn@agnicoeagle.com](mailto:brett.fairbairn@agnicoeagle.com) | Direct 819.759.3555 x4603996 |

Agnico Eagle Mines Limited - Meliadine Mine, Suite 879 - Rankin Inlet, Nunavut,  
Canada X0C 0G0

[agnicoeagle.com](http://agnicoeagle.com)     

Sent from Meliadine



## **Appendix – Photos**



# AGNICO EAGLE

MELIADINE



**Photo 1:** Wash bay solids spill



**Photo 2:** Wash bay solids spill remediation



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>08-17-2022</b>	REPORT TIME <b>18:30</b>	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR		REPORT NUMBER  _____
	OCCURRENCE DATE: MONTH – DAY – YEAR <b>08-16-2022</b>	OCCURRENCE TIME <b>Unknown</b>	<input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT		
<b>C</b>	LAND USE PERMIT NUMBER (IF APPLICABLE) <b>KVPL11D01</b>	WATER LICENCE NUMBER (IF APPLICABLE) <b>2AM-MEL1631</b>			
	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION <b>Meliadine Gold Project</b>	REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN			
<b>E</b>	LATITUDE DEGREES <b>63</b> MINUTES <b>2</b> SECONDS <b>21</b>	LONGITUDE DEGREES <b>92</b> MINUTES <b>13</b> SECONDS <b>41</b>			
	RESPONSIBLE PARTY OR VESSEL NAME <b>Agnico Eagle Mines Ltd.</b>	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION <b>Meliadine, Rankin Inlet, Nunavut, X0C 0G0</b>			
<b>H</b>	ANY CONTRACTOR INVOLVED <b>N/A</b>	CONTRACTOR ADDRESS OR OFFICE LOCATION <b>N/A</b>			
	PRODUCT SPILLED <b>Partially Treated Bionest Effluent</b>	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES <b>20 L</b>	U.N. NUMBER <b>N/A</b>		
<b>H</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>		
	SPILL SOURCE <b>Exploration Bionest</b>	SPILL CAUSE <b>Unknown</b>	AREA OF CONTAMINATION IN SQUARE METRES		
<b>J</b>	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>		
	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS				
<b>K</b>	<b>The effluent inside the bionest vessel was found to be leaking through the bolt holes of the seacan the vessel is housed in. The coordinates of the spill are 63° 1'44.00"N; 92°10'11.00"W. No water bodies were impacted by this spill. The nearest natural water body (Meliadine Lake) is approximately 100 m S.</b>				
	<b>Pursuant to Part H, Item 8c of water license 2AM-MEL1631, a follow up report will be issued after the investigation is completed.</b>				
	<b>Reported by Brett Fairbairn Environment Coordinator 819-759-3555 ext. 4603996 Brett.Fairbairn@agnicoeagle.com.</b>				
<b>L</b>	REPORTED TO SPILL LINE BY <b>Brett Fairbairn</b>	POSITION <b>Env. Coordinator</b>	EMPLOYER <b>AEM</b>	LOCATION CALLING FROM <b>Meliadine</b>	TELEPHONE <b>819-759-3555</b>
	ANY ALTERNATE CONTACT <b>Sara Savoie</b>	POSITION <b>Env. General Supervis</b>	EMPLOYER <b>AEM</b>	ALTERNATE CONTACT <b>Meliadine</b>	ALTERNATE TELEPHONE <b>819-856-9349</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					



September 15<sup>th</sup>, 2022

Christine Wilson  
Water Resource Officer  
Kivalliq Region, Field Operations Unit  
Crown-Indigenous Relations and Northern Affairs Canada  
Rankin Inlet, NU  
X0C 0G0

Sent via email: [Christine.Wilson3@rcaanc-cirnac.gc.ca](mailto:Christine.Wilson3@rcaanc-cirnac.gc.ca)

## **Re.: Follow-up Report: Spill #2022425 – Release of 20 L of partially treated bionest Effluent at the Meliadine Gold Project**

On August 17<sup>th</sup>, 2022, the Nunavut Spill Line was notified by Agnico Eagle personnel via email ([spills@gov.nt.ca](mailto:spills@gov.nt.ca)) of a spill of approximately 20 L of partially treated bionest effluent at the Meliadine Gold Project Exploration Camp site (spill location coordinates: 63° 1' 44.00"N, 92° 10' 11.00"). Please note that this spill was originally reported under the Nunavut Water Licence 2AM-MEL1631 whereas it falls under the Nunavut Water Licence 2BB-MEL1424. This follow-up report provides supplemental information based on the results of the incident investigation and is being provided in accordance with:

- the Nunavut Water Board 2BB-MEL1424 Water License, Part H, Item 4c.

### **Description of Incident**

On August 16<sup>th</sup>, 2022, effluent inside the bionest vessel was found to be leaking through the bolt holes of the seacan the vessel is housed in. No water bodies were impacted by this spill. The closest water body (Meliadine Lake) is approximately 100 meters south as seen in Figure 1.



**Figure 1:** Location of partially treated bionest effluent spill and proximity to water bodies.

## Spill Response and Remediation

Upon discovery of the spill, sorbent pads and spill trays were placed under the bionest seacan to collect partially treated effluent and a vacuum truck was used to ensure the spill trays did not overflow. A frost fighter was used to thaw the remaining partially treated effluent and a vacuum truck removed the liquid as it thawed. The recovered material was processed through the Meliadine sewage treatment plant.



After removal of the bionest seacans an inspection of the area under the seacan will be completed to determine if further remediation is required.

## Root Causes and Corrective Measures

An investigation was conducted soon after the incident occurred to determine the root cause and contributing factors for this incident. The investigation concluded with the following:

- Improper shut down and winterization of the Exploration sewage treatment plant.

The following corrective and preventative actions have been implemented to address the root causes and to reduce the likelihood of reoccurrence:

- The bionest secans have been proper drained and are now ready for removal from the Exploration camp as part of the Exploration camp clean up.

Should you have any questions or require further information, please do not hesitate to contact the undersigned.



**Brett Fairbairn** | Environment Coordinator

[brett.fairbairn@agnicoeagle.com](mailto:brett.fairbairn@agnicoeagle.com) | Direct 819.759.3555 x4603996 |

Agnico Eagle Mines Limited - Meliadine Mine, Suite 879 - Rankin Inlet, Nunavut,  
Canada X0C 0G0

[agnicoeagle.com](http://agnicoeagle.com)     

Sent from Meliadine



## **Appendix – Photos**





# AGNICO EAGLE

MELIADINE



**Photo 1:** Bionest partially treated Effluent spill



**Photo 2:** Bionest partially treated Effluent spill collection



# 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>09-14-2022</b>	REPORT TIME <b>7:20</b>	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT	<b>REPORT NUMBER</b>  _____
<b>B</b>	OCCURRENCE DATE: MONTH – DAY – YEAR <b>09-13-2022</b>	OCCURRENCE TIME <b>8:45</b>		
<b>C</b>	LAND USE PERMIT NUMBER (IF APPLICABLE) <b>KVPL11D01</b>	WATER LICENCE NUMBER (IF APPLICABLE) <b>2AM-MEL1631</b>		
<b>D</b>	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION <b>Meliadine Gold Project</b>		REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN	
<b>E</b>	LATITUDE DEGREES <b>63</b> MINUTES <b>2</b> SECONDS <b>21</b>		LONGITUDE DEGREES <b>92</b> MINUTES <b>13</b> SECONDS <b>41</b>	
<b>F</b>	RESPONSIBLE PARTY OR VESSEL NAME <b>Agnico Eagle Mines Ltd.</b>	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION <b>Meliadine, Rankin Inlet, Nunavut, X0C 0G0</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>Untreated sewage</b>	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES <b>25 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>MSB Lift Station</b>	SPILL CAUSE <b>Human Error</b>	AREA OF CONTAMINATION IN SQUARE METRES <b>3</b>	
<b>J</b>	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>	

<b>K</b>	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS <p><b>After transferring sewage from the vacuum truck to the MSB lift station the transfer line was not drained properly resulting in a 30 L spill of untreated sewage to the industrial pad. The spill was contained to the local area.</b></p> <p><b>The coordinates of the spill are 63° 2' 21.24"N, 92° 13' 40.67"W. No water bodies were impacted by this spill. The nearest natural water body (G2) is 325 m northwest.</b></p> <p><b>Pursuant to Part H, Item 8c of water license 2AM-MEL1631, a follow up report will be issued after the investigation is completed.</b></p> <p><b>Reported by Brett Fairbairn, Environment Coordinator 819-759-3555 ext. 4603996 Brett.Fairbairn@agnicoeagle.com , Sara.Savoie@agnicoeagle.com ext. 4603212</b></p>			
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<b>L</b>	REPORTED TO SPILL LINE BY <b>Brett Fairbairn</b>	POSITION <b>Env. Coordinator</b>	EMPLOYER <b>AEM</b>	LOCATION CALLING FROM <b>Meliadine</b>	TELEPHONE <b>819-759-3555</b>
<b>M</b>	ANY ALTERNATE CONTACT <b>Sara Savoie</b>	POSITION <b>General Supervisor</b>	EMPLOYER <b>AEM</b>	ALTERNATE CONTACT LOCATION <b>Meliadine</b>	ALTERNATE TELEPHONE <b>819-856-9349</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
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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					



October 9<sup>th</sup>, 2022

Christine Wilson  
Water Resource Officer  
Kivalliq Region, Field Operations Unit  
Crown-Indigenous Relations and Northern Affairs Canada  
Rankin Inlet, NU  
XOC 0G0

*Sent via email: [Christine.Wilson3@rcaanc-cirnac.gc.ca](mailto:Christine.Wilson3@rcaanc-cirnac.gc.ca)*

## **Re.: Follow-up Report Spill #2022465 – Release of 25 L of Untreated Sewage at the Meliadine Gold Project**

On September 14<sup>th</sup>, 2022, the Nunavut Spill Line was notified by Agnico Eagle personnel via email ([spills@gov.nt.ca](mailto:spills@gov.nt.ca)) of a spill of approximately 25 L of untreated sewage at the Meliadine Gold Project site (spill location coordinates: 63° 2' 21.24"N, 92° 13' 40.67"). This follow-up report provides supplemental information based on the results of the incident investigation and is being provided in accordance with:

- the Nunavut Water Board License 2AM-MEL1631 Water License, part H, item 8c.

### **Description of Incident**

On September 13<sup>th</sup>, 2022, at approximately 8:45 am, an estimated 25 L of untreated sewage was spilled on the industrial pad due to a sewage transfer line not being fully drained when securing it for storage on the vacuum truck. No water bodies were impacted by this spill. The closest water body (G2) is approximately 325 meters northwest, as seen in Figure 1.



**Figure 1:** Location of sewage spill and proximity to water bodies.

## Spill Response and Remediation

The immediate response from the employee was to stop and clean up spilled material. The employee then contacted his supervisor to report the incident. The impacted surface was hand excavated and an estimated 30 kg of material was brought to Landfarm A as per the Landfarm Management Plan.



## Root Causes and Corrective Measures

An investigation was conducted soon after the incident occurred to determine the root causes and contributing factors. The investigation concluded with the following:

- New employee in training and not yet familiar with the task.
- Employees fell behind on their daily sewage run and rushed to catch up on tasks.
- Buddy system was used but co-worker was distracted when line was being stored.

The following corrective and preventative actions have been implemented to address the root causes and to reduce the likelihood of reoccurrence:

- Supervisor met with employees to discuss the incident, reviewed the importance of attention to detail and the procedure when manipulating sewage transfer lines.

Should you have any questions or require further information, please do not hesitate to contact the undersigned.



**Brett Fairbairn** | Environment Coordinator

brett.fairbairn@agnicoeagle.com | Direct 819.759.3555 x4603996 |

Agnico Eagle Mines Limited - Meliadine Mine, Suite 879 - Rankin Inlet, Nunavut, Canada X0C 0G0

[agnicoeagle.com](http://agnicoeagle.com)     

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## **Appendix – Photos**



**Photo 1:** MSB lift station spill location (post-clean up)



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>09-14-2022</b>	REPORT TIME <b>7:20</b>	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT	<b>REPORT NUMBER</b>  _____	
	OCCURRENCE DATE: MONTH – DAY – YEAR <b>09-13-2022</b>	OCCURRENCE TIME <b>7:30</b>			
<b>C</b>	LAND USE PERMIT NUMBER (IF APPLICABLE) <b>KVPL11D01</b>	WATER LICENCE NUMBER (IF APPLICABLE) <b>2AM-MEL1631</b>			
	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION <b>Meliadine Gold Project</b>		REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN		
<b>E</b>	LATITUDE DEGREES <b>63</b> MINUTES <b>2</b> SECONDS <b>21</b>	LONGITUDE DEGREES <b>92</b> MINUTES <b>13</b> SECONDS <b>41</b>			
	RESPONSIBLE PARTY OR VESSEL NAME <b>Agnico Eagle Mines Ltd.</b>	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION <b>Meliadine, Rankin Inlet, Nunavut, X0C 0G0</b>			
<b>G</b>	ANY CONTRACTOR INVOLVED <b>N/A</b>	CONTRACTOR ADDRESS OR OFFICE LOCATION <b>N/A</b>			
	PRODUCT SPILLED <b>Untreated sewage</b>	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES <b>30 Litres</b>	U.N. NUMBER <b>N/A</b>		
<b>H</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>		
	SPILL SOURCE <b>MSB Lift Station</b>	SPILL CAUSE <b>Equipment malfunction</b>	AREA OF CONTAMINATION IN SQUARE METRES <b>3</b>		
<b>J</b>	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>		
	<b>K</b> <p>ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS</p> <p><b>A loose end cap at the MSB lift station resulted in a 30 L spill of untreated sewage to the industrial pad. The spill was contained to the local area.</b></p> <p><b>The coordinates of the spill are 63° 2' 21.24"N, 92° 13' 40.67"W. No water bodies were impacted by this spill. The nearest natural water body (G2) is 325 m northwest.</b></p> <p><b>Pursuant to Part H, Item 8c of water license 2AM-MEL1631, a follow up report will be issued after the investigation is completed.</b></p> <p><b>Reported by Brett Fairbairn, Environment Coordinator 819-759-3555 ext. 4603996 Brett.Fairbairn@agnicoeagle.com, Sara.Savoie@agnicoeagle.com ext. 4603212</b></p>				
<b>L</b>	REPORTED TO SPILL LINE BY <b>Brett Fairbairn</b>	POSITION <b>Env. Coordinator</b>	EMPLOYER <b>AEM</b>	LOCATION CALLING FROM <b>Meliadine</b>	TELEPHONE <b>819-759-3555</b>
	ANY ALTERNATE CONTACT <b>Sara Savoie</b>	POSITION <b>General Supervisor</b>	EMPLOYER <b>AEM</b>	ALTERNATE CONTACT LOCATION <b>Meliadine</b>	ALTERNATE TELEPHONE <b>819-856-9349</b>
<b>REPORT LINE USE ONLY</b>					
<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					





October 9<sup>th</sup>, 2022

Christine Wilson  
Water Resource Officer  
Kivalliq Region, Field Operations Unit  
Crown-Indigenous Relations and Northern Affairs Canada  
Rankin Inlet, NU  
XOC 0G0

*Sent via email: [Christine.Wilson3@rcaanc-cirnac.gc.ca](mailto:Christine.Wilson3@rcaanc-cirnac.gc.ca)*

## **Re.: Follow-up Report Spill #2022466 – Release of 30 L of Untreated Sewage at the Meliadine Gold Project**

On September 14<sup>th</sup>, 2022, the Nunavut Spill Line was notified by Agnico Eagle personnel via email ([spills@gov.nt.ca](mailto:spills@gov.nt.ca)) of a spill of approximately 20 L of untreated sewage at the Meliadine Gold Project site (spill location coordinates: 63° 2' 21.24"N, 92° 13' 40.67"). This follow-up report provides supplemental information based on the results of the incident investigation and is being provided in accordance with:

- the Nunavut Water Board License 2AM-MEL1631 Water License, part H, item 8c.

### **Description of Incident**

On September 13<sup>th</sup>, 2022, at approximately 7:30 am, an estimated 30 L of untreated sewage was spilled on the industrial pad due to a loose sewage cleanout cap at the MSB lift station. No water bodies were impacted by this spill. The closest water body (G2) is approximately 325 meters northwest, as seen in Figure 1.



**Figure 1:** Location of sewage spill and proximity to water bodies.

## Spill Response and Remediation

Upon discovery of the spill, a plumber responded to the scene to tighten the cleanout cap. Once the cap was tightened, the sewage droplets were stopped. The impacted surface was hand excavated and an estimated 19 kg of material was brought to Landfarm A as per the Landfarm Management Plan.



## Root Causes and Corrective Measures

An investigation was conducted soon after the incident occurred to determine the root causes and contributing factors. The investigation concluded with the following:

- Cleanout cap was not installed correctly when completing the sewage line tie in for new accommodation wings 15 and 16.
- Employee tightening the cleanout cap had a lack of knowledge for the task.
- Inadequate final inspection of the installation.

The following corrective and preventative actions have been implemented to address the root causes and to reduce the likelihood of reoccurrence:

- Qualified staff such as plumbers will be used in the future when working sewage lines and cap installations.
- Final installation inspections will be conducted prior to commissioning of sewage lines.

Should you have any questions or require further information, please do not hesitate to contact the undersigned.



**Brett Fairbairn** | Environment Coordinator

brett.fairbairn@agnicoeagle.com | Direct 819.759.3555 x4603996 |

Agnico Eagle Mines Limited - Meliadine Mine, Suite 879 - Rankin Inlet, Nunavut,  
Canada X0C 0G0

[agnicoeagle.com](http://agnicoeagle.com)     

Sent from Meliadine



## **Appendix – Photos**



# AGNICO EAGLE

MELIADINE



**Photo 1:** MSB remediated spill area.



# 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>09-15-2022</b>	REPORT TIME <b>10:20</b>	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT	REPORT NUMBER _____
	OCCURRENCE DATE: MONTH – DAY – YEAR <b>09-14-2022</b>	OCCURRENCE TIME <b>14:45</b>		
<b>C</b>	LAND USE PERMIT NUMBER (IF APPLICABLE) <b>KVPL11D01</b>	WATER LICENCE NUMBER (IF APPLICABLE) <b>2AM-MEL1631</b>		
	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION <b>Meliadine Gold Project</b>	REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN		
<b>E</b>	LATITUDE DEGREES <b>63</b> MINUTES <b>2</b> SECONDS <b>21</b>	LONGITUDE DEGREES <b>92</b> MINUTES <b>13</b> SECONDS <b>41</b>		
	RESPONSIBLE PARTY OR VESSEL NAME <b>Agnico Eagle Mines Ltd.</b>	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION <b>Meliadine, Rankin Inlet, Nunavut, X0C 0G0</b>		
<b>G</b>	ANY CONTRACTOR INVOLVED <b>N/A</b>	CONTRACTOR ADDRESS OR OFFICE LOCATION <b>N/A</b>		
	PRODUCT SPILLED <b>Untreated sewage</b>	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES <b>5 Litres</b>	U.N. NUMBER <b>N/A</b>	
<b>H</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>	
	SPILL SOURCE <b>MSB Lift Station</b>	SPILL CAUSE <b>Failed Equipment</b>	AREA OF CONTAMINATION IN SQUARE METRES <b>1</b>	
<b>J</b>	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>	

<b>K</b>	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS			
	<p><b>A cracked end cap at the MSB lift station resulted in a 5 L spill of untreated sewage to the industrial pad. The spill was contained to the local area.</b></p> <p><b>The coordinates of the spill are 63° 2' 21.24"N, 92° 13' 40.67"W. No water bodies were impacted by this spill. The nearest natural water body (G2) is 325 m northwest.</b></p> <p><b>Pursuant to Part H, Item 8c of water license 2AM-MEL1631, a follow up report will be issued after the investigation is completed.</b></p> <p><b>Reported by Brett Fairbairn, Environment Coordinator 819-759-3555 ext. 4603996</b> <b>Brett.Fairbairn@agnicoeagle.com , Sara.Savoie@agnicoeagle.com ext. 4603212</b></p>			

<b>L</b>	REPORTED TO SPILL LINE BY <b>Brett Fairbairn</b>	POSITION <b>Env. Coordinator</b>	EMPLOYER <b>AEM</b>	LOCATION CALLING FROM <b>Meliadine</b>	TELEPHONE <b>819-759-3555</b>
	ANY ALTERNATE CONTACT <b>Sara Savoie</b>	POSITION <b>General Supervisor</b>	EMPLOYER <b>AEM</b>	ALTERNATE CONTACT LOCATION <b>Meliadine</b>	ALTERNATE TELEPHONE <b>819-856-9349</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
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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					



October 9<sup>th</sup>, 2022

Christine Wilson  
Water Resource Officer  
Kivalliq Region, Field Operations Unit  
Crown-Indigenous Relations and Northern Affairs Canada  
Rankin Inlet, NU  
XOC 0G0

*Sent via email: [Christine.Wilson3@rcaanc-cirnac.gc.ca](mailto:Christine.Wilson3@rcaanc-cirnac.gc.ca)*

## **Re.: Follow-up Report Spill #2022470 – Release of 5 L of Untreated Sewage at the Meliadine Gold Project**

On September 15<sup>th</sup>, 2022, the Nunavut Spill Line was notified by Agnico Eagle personnel via email ([spills@gov.nt.ca](mailto:spills@gov.nt.ca)) of a spill of approximately 5 L of untreated sewage at the Meliadine Gold Project site (spill location coordinates: 63° 2' 21.24"N, 92° 13' 40.67"). This follow-up report provides supplemental information based on the results of the incident investigation and is being provided in accordance with:

- the Nunavut Water Board License 2AM-MEL1631 Water License, part H, item 8c.

### **Description of Incident**

On September 14<sup>th</sup>, 2022, at approximately 2:45 pm, an estimated 5 L of untreated sewage was spilled on the industrial pad due a cracked end cap. No water bodies were impacted by this spill. The closest water body (G2) is approximately 325 meters northwest, as seen in Figure 1.



**Figure 1:** Location of sewage spill and proximity to water bodies.

## Spill Response and Remediation

When the plumber noticed a leak coming from the cleanout cap he immediately stopped the MSB lift station. Once the lift station was stopped a new cap was installed. The impacted surface area was hand excavated and an estimated 5 kg of material was brought to Landfarm A as per Landfarm Management Plan.

## Root Causes and Corrective Measures

An investigation was conducted soon after the incident occurred to determine the root causes and contributing factors. The investigation concluded with the following:










- a hairline fracture was identified on the cleanout cap

The following corrective and preventative actions have been implemented to address the root causes and to reduce the likelihood of reoccurrence:

- the cracked cleanout cap was replaced and installed by a plumber
- a visual inspection was completed after the installation

Should you have any questions or require further information, please do not hesitate to contact the undersigned.



**Brett Fairbairn** | Environment Coordinator  
brett.fairbairn@agnicoeagle.com | Direct 819.759.3555 x4603996 |  
Agnico Eagle Mines Limited - Meliadine Mine, Suite 879 - Rankin Inlet, Nunavut,  
Canada X0C 0G0  
[agnicoeagle.com](http://agnicoeagle.com)       
Sent from Meliadine



## Appendix – Photos



**AGNICO EAGLE**  
MELIADINE



**Photo 1:** Sewage spill location



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>09-14-2022</b>	REPORT TIME <b>18:00</b>	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT	<b>REPORT NUMBER</b>  _____
	OCCURRENCE DATE: MONTH – DAY – YEAR <b>Unknown</b>	OCCURRENCE TIME <b>Unknown</b>		
<b>C</b>	LAND USE PERMIT NUMBER (IF APPLICABLE) <b>KVPL11D01</b>	WATER LICENCE NUMBER (IF APPLICABLE) <b>2AM-MEL1631</b>		
<b>D</b>	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION <b>Meliadine Gold Mine</b>	REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN		
<b>E</b>	LATITUDE DEGREES <b>63</b> MINUTES <b>2</b> SECONDS <b>21</b>	LONGITUDE DEGREES <b>92</b> MINUTES <b>13</b> SECONDS <b>41</b>		
<b>F</b>	RESPONSIBLE PARTY OR VESSEL NAME <b>Agnico Eagle Mines Limited</b>	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION <b>Meliadine, Rankin Inlet, Nunavut, X0C 0G0</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>Fine Grain Material</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>Unknown</b>	SPILL CAUSE <b>Unknown</b>	AREA OF CONTAMINATION IN SQUARE METRES <b>Unknown</b>	
<b>J</b>	FACTORS AFFECTING SPILL OR RECOVERY <b>None</b>	DESCRIBE ANY ASSISTANCE REQUIRED <b>None</b>	HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT <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>Fine grain material was observed in Channel 3 that flows to Containment Pond 3 (CP3) and around the perimeter access road southwest of the dry stack Tailings Storage Facility (TSF).</b>			
	<b>This report is being submitted as due diligence as the investigation into the source of the fine grain material is ongoing.</b>			
<b>Pursuant to Part H, Item 8c of water license 2AM-MEL1631, a follow up report will be issued after the investigation is completed.</b>				
<b>Reported by Sara Savoie 819-759-3555 ext. 4603212 sara.savoie@agnicoeagle.com.</b>				
<b>L</b>	REPORTED TO SPILL LINE BY <b>Sara Savoie</b>	POSITION <b>Env. General Supervis</b>	EMPLOYER <b>AEM</b>	LOCATION CALLING FROM <b>Meliadine</b>
	TELEPHONE <b>819-856-9349</b>			
<b>M</b>	ANY ALTERNATE CONTACT <b>Matt Gillman</b>	POSITION <b>Env. Superintendent</b>	EMPLOYER <b>AEM</b>	ALTERNATE CONTACT <b>Meliadine</b>
	ALTERNATE TELEPHONE <b>519-373-6249</b>	LOCATION		
<b>REPORT LINE USE ONLY</b>				
<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				



October 14<sup>th</sup>, 2022

Christine Wilson  
Water Resource Officer  
Kivalliq Region, Field Operations Unit  
Crown-Indigenous Relations and Northern Affairs Canada  
Rankin Inlet, NU  
XOC 0G0

*Sent via email: [Christine.Wilson3@rcaanc-cirnac.gc.ca](mailto:Christine.Wilson3@rcaanc-cirnac.gc.ca)*

**Re.: Follow-up Report Spill #2022469 – Fine grain material investigation  
Meliadine Gold Project - UPDATE**

On September 14<sup>th</sup>, 2022, as due diligence, the Nunavut Spill Line was notified by Agnico Eagle personnel via email ([spills@gov.nt.ca](mailto:spills@gov.nt.ca)) of fine grain material observed around the perimeter access road southwest of the dry stack Tailing Storage Facility (TSF). This follow-up report provides an update on the progress of the investigation into the source of the fine grain material and is being provided in accordance with:

- the Nunavut Water Board License 2AM-MEL1631 Water License, part H, item 8c.

**Description of Incident**

A deposit of fine grain material was identified around the perimeter access road southwest of the TSF and Agnico Eagle initiated an investigation into the source of the fine grain material. No water bodies are impacted by this event. The closest water body (B7) is approximately 130 meters south, as seen in Figure 1.



**Figure 1:** Location of the fine grain material and proximity to water bodies.

## Ongoing Assessment of the Source of the Fine Grain Material

Qualitative observations of the material are indicative of potential drill cuttings, potential TSF material brought by snow removal operations and/or from the wind and after further assessment and discussion, it also became apparent that the material could likely be partially composed of road material pulverized by haul truck traffic and relocated during maintenance and snow clearing activities.

To assess its source, the fine grain material adjacent to the access road has been profiled and sampled. Geochemical and granulometry analysis are ongoing.

Agnico Eagle will provide an update report within the next 30 days.



November 14<sup>th</sup>, 2022

Kyle Amsel  
Water Resource Officer  
Kivalliq Region, Field Operations Unit  
Crown-Indigenous Relations and Northern Affairs Canada  
Rankin Inlet, NU  
X0C 0G0

*Sent via email: [kyle.amsel@rcaanc-cirnac.gc.ca](mailto:kyle.amsel@rcaanc-cirnac.gc.ca)*

## **Re.: Follow-up Report Spill #2022469 – Fine grain material investigation Meliadine Gold Project – November 14<sup>th</sup>, 2022 UPDATE**

On September 14<sup>th</sup>, 2022, as due diligence, the Nunavut Spill Line was notified by Agnico Eagle personnel via email ([spills@gov.nt.ca](mailto:spills@gov.nt.ca)) of fine grain material observed around the perimeter access road southwest of the dry stack Tailing Storage Facility (TSF). On October 14<sup>th</sup>, Agnico Eagle provided a first update report. This second update report is intended to provide an update on the progress of the investigation into the source of the fine grain material and is being provided in accordance with:

- the Nunavut Water Board License 2AM-MEL1631 Water License, part H, item 8c.

### **Description of Incident**

A deposit of fine grain material was identified around the perimeter access road southwest of the TSF and Agnico Eagle initiated an investigation into the source of the fine grain material. No water bodies are impacted by this event. The closest water body (B7) is approximately 130 meters south, as seen in Figure 1.



**Figure 1:** Location of the fine grain material and proximity to water bodies.

## Ongoing Assessment of the Source of the Fine Grain Material

Qualitative observations of the material are indicative of potential drill cuttings, potential TSF material brought by snow removal operations and/or from the wind and after further assessment and discussion, it also became apparent that the material could likely be partially composed of road material pulverized by haul truck traffic and relocated during maintenance and snow clearing activities.

To assess its source, the fine grain material adjacent to the access road has been profiled and sampled. Geochemical and granulometry analysis have been conducted and Agnico Eagle has contracted a third-party consultant to analyze the results; this analysis is ongoing and Agnico Eagle will provide an update report within the next 30 days.





December 14<sup>th</sup>, 2022

Kyle Amsel  
Water Resource Officer  
Kivalliq Region, Field Operations Unit  
Crown-Indigenous Relations and Northern Affairs Canada  
Rankin Inlet, NU  
X0C 0G0

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## **Re.: Follow-up Report Spill #2022469 – Fine grain material investigation Meliadine Gold Project – December 14<sup>th</sup>, 2022 UPDATE**

On September 14<sup>th</sup>, 2022, as due diligence, the Nunavut Spill Line was notified by Agnico Eagle personnel via email ([spills@gov.nt.ca](mailto:spills@gov.nt.ca)) of fine grain material observed around the perimeter access road southwest of the dry stack Tailing Storage Facility (TSF). Agnico Eagle provided update reports on October 14<sup>th</sup> and November 14<sup>th</sup>, 2022. This third update report is intended to provide an update on the recent progress of the investigation into the source of the fine grain material and is being provided in accordance with:

- the Nunavut Water Board License 2AM-MEL1631 Water License, part H, item 8c.

### **Description of Incident**

A deposit of fine grain material was identified around the perimeter access road southwest of the TSF and Agnico Eagle initiated an investigation into the source of the fine grain material. No water bodies are impacted by this event. The closest water body (B7) is approximately 130 meters south, as seen in Figure 1.



**Figure 1:** Location of the fine grain material and proximity to water bodies.

## Ongoing Assessment of the Source of the Fine Grain Material

Qualitative observations of the material are indicative of potential drill cuttings, potential TSF material brought by snow removal operations and/or from the wind and after further assessment and discussion, it also became apparent that the material could likely be partially composed of road material pulverized by haul truck traffic and relocated during maintenance and snow clearing activities.

To assess its source, the fine grain material adjacent to the access road has been profiled and sampled. Geochemical and granulometry analysis have been conducted and Agnico Eagle has contracted a third-party consultant to analyze the results; this analysis is ongoing and Agnico Eagle expects to have results available for the next update report which will be provided within the next 30 days.



January 13<sup>th</sup>, 2023

Kyle Amsel  
Water Resource Officer  
Kivalliq Region, Field Operations Unit  
Crown-Indigenous Relations and Northern Affairs Canada  
Rankin Inlet, NU  
X0C 0G0

*Sent via email: [kyle.amsel@rcaanc-cirnac.gc.ca](mailto:kyle.amsel@rcaanc-cirnac.gc.ca)*

**Re.: Follow-up Report Spill #2022469 – Fine grain material investigation  
Meliadine Gold Project – January 13<sup>th</sup>, 2022 UPDATE**

On September 14<sup>th</sup>, 2022, as due diligence, the Nunavut Spill Line was notified by Agnico Eagle personnel via email ([spills@gov.nt.ca](mailto:spills@gov.nt.ca)) of fine grain material observed around the perimeter access road southwest of the dry stack Tailing Storage Facility (TSF). On October 14<sup>th</sup>, Agnico Eagle provided update reports on October 14<sup>th</sup> and November 14<sup>th</sup>, 2022. This third update report is intended to provide an update on the recent progress of the investigation into the source of the fine grain material and is being provided in accordance with:

- the Nunavut Water Board License 2AM-MEL1631 Water License, part H, item 8c.

**Description of Incident**

A deposit of fine grain material was identified around the perimeter access road southwest of the TSF and Agnico Eagle initiated an investigation into the source of the fine grain material. No water bodies are impacted by this event. The closest water body (B7) is approximately 130 meters south, as seen in Figure 1.



**Figure 1:** Location of the fine grain material and proximity to water bodies.

## Ongoing Assessment of the Source of the Fine Grain Material

Qualitative observations of the material are indicative of potential drill cuttings, potential TSF material brought by snow removal operations and/or from the wind and after further assessment and discussion, it also became apparent that the material could likely be partially composed of road material pulverized by haul truck traffic and relocated during maintenance and snow clearing activities.

To assess its source, the fine grain material adjacent to the access road has been profiled and sampled. Geochemical and granulometry analysis have been conducted and Agnico Eagle has contracted a third-party consultant to analyze the results; this analysis is nearly complete and Agnico Eagle expects to have results available for the next update report which will be provided within the next 30 days.



February 20<sup>th</sup>, 2023

Kyle Amsel  
Water Resource Officer  
Kivalliq Region, Field Operations Unit  
Crown-Indigenous Relations and Northern Affairs Canada  
Rankin Inlet, NU  
XOC 0G0

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**Re.: Follow-up Report Spill #2022-469 – Fine grain material investigation Meliadine Gold Project – February 2023, Final Report**

On September 14<sup>th</sup>, 2022, as due diligence, the Nunavut Spill Line was notified by Agnico Eagle personnel via email ([spills@gov.nt.ca](mailto:spills@gov.nt.ca)) of fine grain material observed around the perimeter access road southwest of the dry stack Tailing Storage Facility (TSF). Agnico Eagle has provided monthly updates on the status of the ongoing assessment. This follow-up report serves as the final report providing discussion on a geochemical analysis of the potential source materials conducted by SRK Consulting, the presumed sources of the deposition, and the associated mitigation and monitoring strategy.

This report is being provided in accordance with:

- the Nunavut Water Board License 2AM-MEL1631 Water License, part H, item 8c.

**Description of Incident**

A deposit of fine grain material was identified around the perimeter access road southwest of the TSF and Agnico Eagle initiated an assessment into the source of the fine grain material. No water bodies are impacted by this event. The closest water body (Lake B7) is approximately 200 meters south, as seen in Figure 1.



# AGNICO EAGLE

MELIADINE



**Figure 1:** Area of interest and proximity to water bodies.



## Results and Discussion

Analysis of historical aerial drone imagery revealed that drill cuttings had been deposited in and around the area of interest in 2021 and 2022, an authorized disposal method under the 2BB-MEL1424 Water License. Geochemical analysis of samples collected within the area of interest suggests that the material represents a mix of tailings, drill cuttings, and/or road sediments. These determinations were supported by field observations and particle size distribution, which showed material of varying colour and particle size.

Various environmental monitoring programs are in place to collect and analyze monitoring data and to adjust practices to reduce or eliminate observed mine-related impacts throughout the life of the Project.

## Root Cause and Corrective Measures

An assessment was conducted to determine the root causes and contributing factors. The assessment concluded with the following:

- TSF material was transported by the wind onto snow, which accumulated naturally at the area of interest;
- Snow-clearing and road maintenance activities in the area transported pulverized road material and windblown tailings into the area of interest;
- Historical drill cuttings were deposited in the area of interest, which is an authorized disposal method under the 2BB-MEL1424 Water License.

The following corrective and preventative actions have been implemented to address the root causes and to reduce the likelihood of reoccurrence:

- Site-appropriate dust management practices and technologies are implemented to reduce the amount of windblown material, and potential additional improvements continue to be explored within the Dust Management Working Group;
- The Snow Management Procedure for the site has been updated to further detail authorized snow dump areas and clearly identify no-dump areas, including the area of interest at the southwest of the TSF;
- Drill cuttings disposal locations are reviewed and approved by the Environment Department as part of the Internal Environmental Permit (IEP) implemented in 2022.



## Mitigation and Monitoring

Agnico Eagle is in the process of amending its Nunavut Impact Review Board Project Certificate and Nunavut Water Board Water Licence 2AM-MEL1631 to consider the Meliadine Extension proposal. This extension would include an increased TSF footprint which will overprint the impacted area.






As the Meliadine Extension proposal is still under review, Agnico Eagle is implementing the following interim mitigation and monitoring:

- To reduce the risk of tundra damage and the potential for retrogressive thaw of permafrost in this area that would result from attempting to remove the material, the material will be left in place and capped with waste rock approved for construction and till or esker material. Capping will reduce the potential for erosion and seepage.
- To confirm the success of the above mitigation, a seepage survey will be conducted during spring freshet and during and after remarkable rainfall events along the downstream toe of the expanded access road. Observed seepages will be sampled and analyzed for Water Licence 2AM-MEL1631 Group 2 parameters of interest and field measurements will be taken. Results of the proposed monitoring program will be available upon request to Regulators.

Agnico Eagle continues to implement and explore the best available practices and technologies appropriate for the TSF. Through the Tailings Working Group, a Multiple Account Analysis was completed in 2021 to evaluate various dust abatement techniques and their applicability to the TSF. Monitoring technologies continue to be implemented and explored to understand better the factors that promote dusting conditions and to forecast when these conditions might exist to anticipate and adaptively manage dust emissions from the TSF.

Should you have any questions or require further information, please do not hesitate to contact the undersigned.



**Kyle Conway** | Environment General Supervisor  
kyle.conway@agnicoeagle.com | Direct 819.759.3555 x4603212 | Mobile  
819.860.1033  
Agnico Eagle Mines Limited - Meliadine Mine, Suite 879 - Rankin Inlet, Nunavut,  
Canada X0C 0G0  
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Sent from Meliadine





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>09-24-2022</b>	REPORT TIME <b>9:15</b>	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT	REPORT NUMBER _____
<b>B</b>	OCCURRENCE DATE: MONTH – DAY – YEAR <b>09-23-2022</b>	OCCURRENCE TIME <b>14:00</b>		
<b>C</b>	LAND USE PERMIT NUMBER (IF APPLICABLE) <b>KVPL11D01</b>	WATER LICENCE NUMBER (IF APPLICABLE) <b>2AM-MEL1631</b>		
<b>D</b>	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION <b>Meliadine Gold Project</b>	REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN		
<b>E</b>	LATITUDE DEGREES <b>63</b> MINUTES <b>2</b> SECONDS <b>21</b>	LONGITUDE DEGREES <b>92</b> MINUTES <b>13</b> SECONDS <b>41</b>		
<b>F</b>	RESPONSIBLE PARTY OR VESSEL NAME <b>Agnico Eagle Mines Ltd.</b>	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION <b>Meliadine, Rankin Inlet, Nunavut, X0C 0G0</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>Untreated sewage</b>	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES <b>5 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>MSB Lift Station</b>	SPILL CAUSE <b>Human Error</b>	AREA OF CONTAMINATION IN SQUARE METRES <b>1</b>	
<b>J</b>	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>	

<b>K</b>	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS <p><b>After transferring sewage from the vacuum truck to the MSB lift station the transfer line was not drained properly resulting in a 5 L spill of untreated sewage to the industrial pad. The spill was contained to the local area.</b></p> <p><b>The coordinates of the spill are 63° 2' 27.3"N, 92° 13' 33.5"W. No water bodies were impacted by this spill. The nearest natural water body (G2) is 325 m northwest.</b></p> <p><b>Pursuant to Part H, Item 8c of water license 2AM-MEL1631, a follow up report will be issued after the investigation is completed.</b></p> <p><b>Reported by Randy Schwandt, Environment Coordinator 819-759-3555 ext. 4603996 Randy.Schwandt@agnicoeagle.com , Kyle.Conway@agnicoeagle.com ext. 4603212</b></p>			
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<b>L</b>	REPORTED TO SPILL LINE BY <b>Randy Schwandt</b>	POSITION <b>Env. Coordinator</b>	EMPLOYER <b>AEM</b>	LOCATION CALLING FROM <b>Meliadine</b>	TELEPHONE <b>819-759-3555</b>
<b>M</b>	ANY ALTERNATE CONTACT <b>Kyle Conway</b>	POSITION <b>General Supervisor</b>	EMPLOYER <b>AEM</b>	ALTERNATE CONTACT LOCATION <b>Meliadine</b>	ALTERNATE TELEPHONE <b>819-860-1033</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					



October 9<sup>th</sup>, 2022

Christine Wilson  
Water Resource Officer  
Kivalliq Region, Field Operations Unit  
Crown-Indigenous Relations and Northern Affairs Canada  
Rankin Inlet, NU  
XOC 0G0

*Sent via email: [Christine.Wilson3@rcaanc-cirnac.gc.ca](mailto:Christine.Wilson3@rcaanc-cirnac.gc.ca)*

## **Re.: Follow-up Report Spill #2022475 – Release of 5 L of Untreated Sewage at the Meliadine Gold Project**

On September 24<sup>th</sup>, 2022, the Nunavut Spill Line was notified by Agnico Eagle personnel via email ([spills@gov.nt.ca](mailto:spills@gov.nt.ca)) of a spill of approximately 5 L of untreated sewage at the Meliadine Gold Project site (spill location coordinates: 63° 2' 27.3"N, 92° 13' 32.35"). This follow-up report provides supplemental information based on the results of the incident investigation and is being provided in accordance with:

- the Nunavut Water Board License 2AM-MEL1631 Water License, part H, item 8c.

### **Description of Incident**

On September 23<sup>rd</sup>, 2022, at approximately 2:00 pm, an estimated 5 L of untreated sewage was spilled on the industrial pad due a sewage transfer line not being fully drained when storing it back on the vacuum truck. No water bodies were impacted by this spill. The closest water body (G2) is approximately 316 meters northwest, as seen in Figure 1.



**Figure 1:** Location of sewage spill and proximity to water bodies.

## Spill Response and Remediation

The vacuum truck was used to recover the free liquid and transfer into the lift station. The impacted surface area was hand excavated and an estimated 5 kg of material was brought to Landfarm A as per the Landfarm Management Plan.



## Root Causes and Corrective Measures

An investigation was conducted soon after the incident occurred to determine the root causes and contributing factors. The investigation concluded with the following:

- New piece of equipment and worker was unfamiliar with its operation.
- Previous operator of equipment did not fully empty the line.

The following corrective and preventative actions have been implemented to address the root causes and to reduce the likelihood of reoccurrence:

- Vacuum truck procedure will be reviewed with all employees.
- Supervisors will meet with new operators to remind them of the importance of not rushing.
- Vacuum truck procedure will be available in the new vacuum truck for reference.

Should you have any questions or require further information, please do not hesitate to contact the undersigned.



**Brett Fairbairn** | Environment Coordinator

brett.fairbairn@agnicoeagle.com | Direct 819.759.3555 x4603996 |

Agnico Eagle Mines Limited - Meliadine Mine, Suite 879 - Rankin Inlet, Nunavut,  
Canada X0C 0G0

[agnicoeagle.com](http://agnicoeagle.com)     

Sent from Meliadine



## Appendix – Photos



**AGNICO EAGLE**  
MELIADINE



**Photo 1:** Wing 16 lift station (spill location)



**Photo 2:** Wing 16 lift station clean up area



# 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>09-30-2022</b>	REPORT TIME <b>13:15</b>	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT	REPORT NUMBER _____
<b>B</b>	OCCURRENCE DATE: MONTH – DAY – YEAR <b>09-30-2022</b>	OCCURRENCE TIME <b>01:30</b>		
<b>C</b>	LAND USE PERMIT NUMBER (IF APPLICABLE) <b>KVPL11D01</b>	WATER LICENCE NUMBER (IF APPLICABLE) <b>2AM-MEL1631</b>		
<b>D</b>	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION <b>Meliadine Gold Project</b>	REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN		
<b>E</b>	LATITUDE DEGREES <b>63</b> MINUTES <b>2</b> SECONDS <b>21</b>	LONGITUDE DEGREES <b>92</b> MINUTES <b>13</b> SECONDS <b>41</b>		
<b>F</b>	RESPONSIBLE PARTY OR VESSEL NAME <b>Agnico Eagle Mines Ltd.</b>	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION <b>Meliadine, Rankin Inlet, Nunavut, X0C 0G0</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>Hydrochloric Acid (HCl)</b>	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES <b>205 Litres</b>	U.N. NUMBER <b>UN1789</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>Punctured Drum</b>	SPILL CAUSE <b>Human Error</b>	AREA OF CONTAMINATION IN SQUARE METRES <b>10</b>	
<b>J</b>	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>	

<b>K</b>	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS <b>While transferring a pallet of HCL barrels from a seacan to the mill facility, the fork of the equipment being used punctured the bottom of a barrel resulting in a spill of HCl to the industrial pad. The spill was contained and cleanup was initiated.</b>  <b>The coordinates of the spill are 63° 2' 11.74"N, 92° 13' 29.78"W. No water bodies were impacted by this spill. The nearest natural water body (G2) is 650 m north.</b>  <b>Pursuant to Part H, Item 8c of water license 2AM-MEL1631, a follow up report will be issued after the investigation is completed.</b> <b>Reported by Brett Fairbairn, Environment Coordinator 819-759-3555 ext. 4603996</b> <b>Brett.Fairbairn@agnicoeagle.com , Kyle.Conway@agnicoeagle.com ext. 4603212</b>			
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<b>L</b>	REPORTED TO SPILL LINE BY <b>Brett Fairbairn</b>	POSITION <b>Env. Coordinator</b>	EMPLOYER <b>AEM</b>	LOCATION CALLING FROM <b>Meliadine</b>	TELEPHONE <b>819-759-3555</b>
<b>M</b>	ANY ALTERNATE CONTACT <b>Kyle Conway</b>	POSITION <b>General Supervisor</b>	EMPLOYER <b>AEM</b>	ALTERNATE CONTACT LOCATION <b>Meliadine</b>	ALTERNATE TELEPHONE <b>819-860-1033</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
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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					



October 13, 2022

Christine Wilson  
Water Resource Officer  
Kivalliq Region, Field Operations Unit  
Crown-Indigenous Relations and Northern Affairs Canada  
Rankin Inlet, NU  
XOC 0G0

Sent via email: [Christine.Wilson3@rcaanc-cirnac.gc.ca](mailto:Christine.Wilson3@rcaanc-cirnac.gc.ca)

## **Re.: Follow-up Report Spill #2022480 – Release of 205 L of Hydrochloric Acid at the Meliadine Gold Project**

On September 30<sup>th</sup>, 2022, the Nunavut Spill Line was notified by Agnico Eagle personnel via email (spills@gov.nt.ca) of a spill of approximately 205 L of hydrochloric acid (HCl) at the Meliadine Gold Project site (spill location coordinates: 63° 2' 11.74"N, 92° 13' 29.78"). This follow-up report provides supplemental information based on the results of the incident investigation and is being provided in accordance with:

- the Nunavut Water Board License 2AM-MEL1631 Water License, part H, item 8c.

### **Description of Incident**

On September 30<sup>th</sup>, 2022, at approximately 1:30 am, an estimated 205 L of HCl was spilled on to the industrial pad outside of the process plant. During a transfer of a pallet of four HCl barrels from a seacan to the process plant a 205 L HCl barrel was punctured with the fork of the equipment being used to transfer the pallet. The spill occurred within the seacan and a spotter was being used, however the tight confines of the seacan would not safely allow the spotter to enter the seacan while pallets were being removed.

When the leak was discovered, the pallet was immediately set down and the area was evacuated for Health and Safety considerations. HCl then leaked out from the seacan door to the industrial pad.





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MELIADINE

No water bodies were impacted by this spill. The closest water body (G2) is approximately 650 meters north, as seen in Figure 1.



**Figure 1:** Location of HCl spill and proximity to water bodies.

## Spill Response and Remediation

The immediate response from the employee transferring the pallet of HCl barrels was to stop the transfer and contact the Emergency Response Team (ERT) to contain the spill. The employee then contacted his supervisor to report the incident. The spill area was evacuated and isolated by the ERT. Sand was used to contain and absorb the liquid HCl. Once the spilled material was contained and the area was determined



to be hazard free, the area of contamination was delineated and an excavator and shovels were used to remove the contaminated material to a depth of approximately eight inches. The impacted material was directed to the reclaim feeder for reprocessing through the process plant.

## Root Causes and Corrective Measures

An investigation was conducted soon after the incident occurred to determine the root causes and contributing factors. The investigation concluded with the following:

- Lightening in the seacan could be optimized.
- The lifting surface was uneven.
- Overhead roll-up door was not operating properly.

The following corrective and preventative actions have been implemented to address the root causes and to reduce the likelihood of reoccurrence:

- Additional lighting will be installed on the equipment so that the operator will have increased lighting to perform the task.
- Additional lighting will allow the operator to properly assess the lifting surface and address concerns, if any, before completing the task.
- The overhead roll-up door will be repaired and has been temporarily locked in the fully open position pending completion of the repair.

Should you have any questions or require further information, please do not hesitate to contact the undersigned.








**Brett Fairbairn** | Environment Coordinator

brett.fairbairn@agnicoeagle.com | Direct 819.759.3555 x4603996 |

Agnico Eagle Mines Limited - Meliadine Mine, Suite 879 - Rankin Inlet, Nunavut,  
Canada X0C 0G0



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MELIADINE

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## Appendix – Photos



**AGNICO EAGLE**  
MELIADINE



**Photo 1:** HCl spill initial release



**Photo 2:** HCl spill remediation



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**Photo 3:** HCl spill final remediation



**AGNICO EAGLE**  
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**Photo 4:** HCl spill final remediation



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FAX: (867) 873-6924

EMAIL: spills@gov.nt.ca

REPORT LINE USE ONLY

<b>A</b>	REPORT DATE: MONTH – DAY – YEAR <b>10-15-2022</b>	REPORT TIME <b>10:15</b>	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR		REPORT NUMBER  _____
	OCCURRENCE DATE: MONTH – DAY – YEAR <b>10-15-2022</b>	OCCURRENCE TIME <b>24:00</b>	<input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT		
<b>C</b>	LAND USE PERMIT NUMBER (IF APPLICABLE) <b>KVPL11D01</b>	WATER LICENCE NUMBER (IF APPLICABLE) <b>2AM-MEL1631</b>			
	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION <b>Meliadine Gold Project</b>		REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN		
<b>E</b>	LATITUDE DEGREES <b>63</b> MINUTES <b>2</b> SECONDS <b>21</b>	LONGITUDE DEGREES <b>92</b> MINUTES <b>13</b> SECONDS <b>41</b>			
	RESPONSIBLE PARTY OR VESSEL NAME <b>Agnico Eagle Mines Ltd.</b>	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION <b>Meliadine, Rankin Inlet, Nunavut, X0C 0G0</b>			
<b>H</b>	ANY CONTRACTOR INVOLVED <b>N/A</b>	CONTRACTOR ADDRESS OR OFFICE LOCATION <b>N/A</b>			
	PRODUCT SPILLED <b>Hydraulic Oil</b>	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES <b>250 Litres</b>	U.N. NUMBER		
<b>H</b>	SECOND PRODUCT SPILLED (IF APPLICABLE) <b>N/A</b>	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES	U.N. NUMBER		
	SPILL SOURCE <b>Hydraulic hose failure</b>	SPILL CAUSE <b>Broken hose</b>	AREA OF CONTAMINATION IN SQUARE METRES <b>5</b>		
<b>J</b>	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>		
	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS <b>A broken hydraulic hose on a haul truck led to the release of an estimated 250 L of hydraulic oil on Ore Pad 1 (OP1). The spill was contained to the local area and clean up is currently ongoing.</b>  <b>The coordinates of the spill are 63° 1' 40.15"N, 92° 12' 43.73"W. No water bodies were impacted by this spill. The nearest natural water body (B7) is 900 m west.</b>  <b>Pursuant to Part H, Item 8c of water license 2AM-MEL1631, a follow up report will be issued after the investigation is completed.</b> <b>Reported by Randy Schwandt, Environment Coordinator 819-759-3555 ext. 4603996</b> <b>Randy.Schwandt@agnicoeagle.com , Sara.Savoie@agnicoeagle.com ext. 4603212</b>				
<b>L</b>	REPORTED TO SPILL LINE BY <b>Randy Schwandt</b>	POSITION <b>Env. Coordinator</b>	EMPLOYER <b>AEM</b>	LOCATION CALLING FROM <b>Meliadine</b>	TELEPHONE <b>819-759-3555</b>
	ANY ALTERNATE CONTACT <b>Sara Savoie</b>	POSITION <b>General Supervisor</b>	EMPLOYER <b>AEM</b>	ALTERNATE CONTACT LOCATION <b>Meliadine</b>	ALTERNATE TELEPHONE <b>819-856-9349</b>
<b>REPORT LINE USE ONLY</b>					
<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					



November 8<sup>th</sup>, 2022

Kyle Amsel  
Water Resource Officer  
Kivalliq Region, Field Operations Unit  
Crown-Indigenous Relations and Northern Affairs Canada  
Rankin Inlet, NU  
XOC OGO

*Sent via email: [kyle.amsel@rcaanc-cirnac.gc.ca](mailto:kyle.amsel@rcaanc-cirnac.gc.ca)*

## **Re.: Follow-up Report Spill #2022498 – Release of 250 L of hydraulic oil at the Meliadine Gold Project**

On October 15<sup>th</sup>, 2022, the Nunavut Spill Line was notified by Agnico Eagle personnel via email ([spills@gov.nt.ca](mailto:spills@gov.nt.ca)) of a spill of approximately 250 L of hydraulic oil at the Meliadine Gold Project site (spill location coordinates: 63° 1' 40.15"N, 92° 12' 43.73"). This follow-up report provides supplemental information based on the results of the incident investigation and is being provided in accordance with:

- the Nunavut Water Board License 2AM-MEL1631 Water License, part H, item 8c.

### **Description of Incident**

On October 15<sup>th</sup>, 2022, at approximately 12:00 am, an estimated 250 L of hydraulic oil was spilled on to Ore Pad 1 (OP1). During normal operations, haul truck 14 was offloading ore onto OP1 when the hydraulic pump pressure hose failed.

No water bodies were impacted by this spill. The closest water body (B7) is approximately 900 meters west, as seen in Figure 1.





**Figure 1:** Location of the hydraulic spill and proximity to water bodies.

## Spill Response and Remediation

The immediate response from the employee was to shut down the equipment. The employee then contacted their supervisor to report the incident. Spill absorbent pads were deployed to recover pooling surface oil and to contain the spill. The contaminated material was then excavated and directed to the primary crusher for processing through the process plant.

## Root Causes and Corrective Measures

An investigation was conducted soon after the incident occurred to determine the root causes and contributing factors. The investigation concluded with the following:








- the hydraulic hose showed signs of wear;
- the crimp on the hydraulic hose was overtightened.

The following corrective and preventative actions have been implemented to address the root causes and to reduce the likelihood of reoccurrence:

- A more detailed inspection of the crimp on the hydraulic hose fittings installation to prevent overtightening

Should you have any questions or require further information, please do not hesitate to contact the undersigned.



**Brett Fairbairn** | Environment Coordinator  
brett.fairbairn@agnicoeagle.com | Direct 819.759.3555 x4603996 |  
Agnico Eagle Mines Limited - Meliadine Mine, Suite 879 - Rankin Inlet, Nunavut,  
Canada X0C 0G0  
[agnicoeagle.com](http://agnicoeagle.com)       
Sent from Meliadine



**AGNICO EAGLE**  
MELIADINE

## **Appendix – Photos**



**AGNICO EAGLE**  
MELIADINE



**Photo 1:** Hydraulic oil spill area



**Photo 2:** Hydraulic oil spill remediation area



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>10-18-2022</b>	REPORT TIME <b>18:00</b>	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT	REPORT NUMBER _____
<b>B</b>	OCCURRENCE DATE: MONTH – DAY – YEAR <b>10-18-2022</b>	OCCURRENCE TIME <b>8:15</b>		
<b>C</b>	LAND USE PERMIT NUMBER (IF APPLICABLE) <b>KVPL11D01</b>	WATER LICENCE NUMBER (IF APPLICABLE) <b>2AM-MEL1631</b>		
<b>D</b>	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION <b>Meliadine Gold Project</b>	REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN		
<b>E</b>	LATITUDE DEGREES <b>63</b> MINUTES <b>2</b> SECONDS <b>21</b>	LONGITUDE DEGREES <b>92</b> MINUTES <b>13</b> SECONDS <b>41</b>		
<b>F</b>	RESPONSIBLE PARTY OR VESSEL NAME <b>Agnico Eagle Mines Ltd.</b>	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION <b>Meliadine, Rankin Inlet, Nunavut, X0C 0G0</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>Sewage</b>	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES <b>30 Litres</b>	U.N. NUMBER	
	SECOND PRODUCT SPILLED (IF APPLICABLE) <b>N/A</b>	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES	U.N. NUMBER	
<b>I</b>	SPILL SOURCE <b>Vacuum Truck Hose</b>	SPILL CAUSE <b>Human Error</b>	AREA OF CONTAMINATION IN SQUARE METRES <b>2</b>	
<b>J</b>	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>	

<b>K</b>	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS <b>In the process of emptying the sewage treatment plant sludge tank, the transfer line was not drained properly resulting in a 30 L spill of sewage to the industrial pad. The spill was contained to the local area.</b>  <b>The coordinates of the spill are 63° 2' 22.92"N, 92° 13' 33.02"W. No water bodies were impacted by this spill. The nearest natural water body (G2) is 370 m northwest.</b>  <b>Pursuant to Part H, Item 8c of water license 2AM-MEL1631, a follow up report will be issued after the investigation is completed.</b> <b>Reported by Randy Schwandt, Environment Coordinator 819-759-3555 ext. 4603996</b> <b>Randy.Schwandt@agnicoeagle.com , Kyle.Conway@agnicoeagle.com ext. 4603212</b>			
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<b>L</b>	REPORTED TO SPILL LINE BY <b>Randy Schwandt</b>	POSITION <b>Env. Coordinator</b>	EMPLOYER <b>AEM</b>	LOCATION CALLING FROM <b>Meliadine</b>	TELEPHONE <b>819-759-3555</b>
<b>M</b>	ANY ALTERNATE CONTACT <b>Kyle Conway</b>	POSITION <b>General Supervisor</b>	EMPLOYER <b>AEM</b>	ALTERNATE CONTACT LOCATION <b>Meliadine</b>	ALTERNATE TELEPHONE <b>819-860-1033</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
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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					



November 8<sup>th</sup>, 2022

Kyle Amsel  
Water Resource Officer  
Kivalliq Region, Field Operations Unit  
Crown-Indigenous Relations and Northern Affairs Canada  
Rankin Inlet, NU  
XOC 0G0

*Sent via email: [kyle.amsel@rcaanc-cirnac.gc.ca](mailto:kyle.amsel@rcaanc-cirnac.gc.ca)*

## **Re.: Follow-up Report Spill #2022503 – Release of 30 L of Sewage at the Meliadine Gold Project**

On October 18<sup>th</sup>, 2022, the Nunavut Spill Line was notified by Agnico Eagle personnel via email ([spills@gov.nt.ca](mailto:spills@gov.nt.ca)) of a spill of approximately 30 L of untreated sewage at the Meliadine Gold Project site (spill location coordinates: 63° 2' 22.92"N, 92° 13' 33.02"). This follow-up report provides supplemental information based on the results of the incident investigation and is being provided in accordance with:

- the Nunavut Water Board License 2AM-MEL1631 Water License, part H, item 8c.

### **Description of Incident**

On October 18<sup>th</sup>, 2022, at approximately 8:15 am, an estimated 30 L of untreated sewage was spilled on the industrial pad due to a miscommunication between two operators during sewage transfer from the sewage treatment plant (STP) sludge tank and the sewage vacuum truck. No water bodies were impacted by this spill. The closest water body (G2) is approximately 370 meters northwest, as seen in Figure 1.



**Figure 1:** Location of the sewage spill and proximity to water bodies.

## Spill Response and Remediation

Upon discovery of the spill, the operator stopped the power take off (PTO). The operator then proceeded to contact the environment department to inform them of the situation. All surface material was hand excavated and contained within a 76 L plastic tub. The material collected was then reworked through the main camp lift station for further treatment.



## Root Causes and Corrective Measures

An investigation was conducted soon after the incident occurred to determine the root causes and contributing factors. The investigation concluded with the following:

- Only one out of the two operators involved in the sewage transfer had a radio causing inadequate communication between them.
- The vacuum truck procedure was not followed.

The following corrective and preventative actions have been implemented to address the root causes and to reduce the likelihood of reoccurrence:

- Both vacuum truck operators will be provided radios for two-way communication.
- Vacuum truck procedure has been updated to further clarify the communication between operators including the need for both operators to have radios – the updated procedure was communicated to all vacuum truck operators.
- Reiterate the importance of not rushing to prevent workplace accidents from occurring

Should you have any questions or require further information, please do not hesitate to contact the undersigned.



**Brett Fairbairn** | Environment Coordinator

brett.fairbairn@agnicoeagle.com | Direct 819.759.3555 x4603996 |

Agnico Eagle Mines Limited - Meliadine Mine, Suite 879 - Rankin Inlet, Nunavut,  
Canada X0C 0G0

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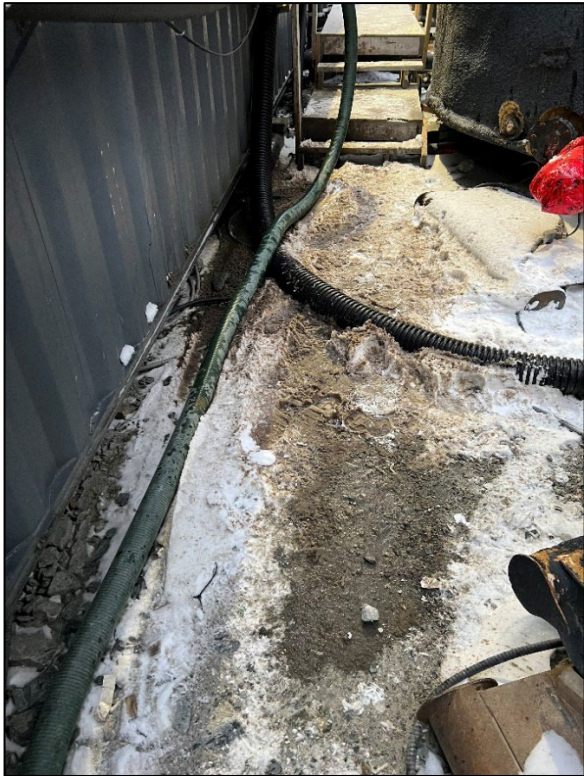




## **Appendix – Photos**



**AGNICO EAGLE**  
MELIADINE



**Photo 1:** Sewage spill area



**Photo 2:** Spill remediation area



# 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>11-02-2022</b>	REPORT TIME <b>13:00</b>	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT	REPORT NUMBER _____
<b>B</b>	OCCURRENCE DATE: MONTH – DAY – YEAR <b>11-02-2022</b>	OCCURRENCE TIME <b>3:00</b>		
<b>C</b>	LAND USE PERMIT NUMBER (IF APPLICABLE) <b>KVPL11D01</b>	WATER LICENCE NUMBER (IF APPLICABLE) <b>2AM-MEL1631</b>		
<b>D</b>	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION <b>Meliadine Gold Project</b>		REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN	
<b>E</b>	LATITUDE DEGREES <b>63</b> MINUTES <b>2</b> SECONDS <b>21</b>		LONGITUDE DEGREES <b>92</b> MINUTES <b>13</b> SECONDS <b>41</b>	
<b>F</b>	RESPONSIBLE PARTY OR VESSEL NAME <b>Agnico Eagle Mines Ltd.</b>	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION <b>Meliadine, Rankin Inlet, Nunavut, X0C 0G0</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>Wash bay water</b>	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES <b>800 Litres</b>	U.N. NUMBER	
	SECOND PRODUCT SPILLED (IF APPLICABLE) <b>N/A</b>	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES	U.N. NUMBER	
<b>I</b>	SPILL SOURCE <b>Potable water feed line</b>	SPILL CAUSE <b>Equipment Failure</b>	AREA OF CONTAMINATION IN SQUARE METRES <b>30 m2</b>	
<b>J</b>	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>	

<b>K</b>	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS <b>A failed potable water line released water within the wash bay building. The volume caused the wash bay solids sump to overflow resulting in a 800 L spill of diluted wash bay water to the frozen industrial pad. The spill was contained to the local area.</b>  <b>The coordinates of the spill are 63° 2' 18.05"N, 92° 13' 39.55"W. No water bodies were impacted by this spill. The nearest natural water body (G2) is 325 m northwest.</b>  <b>Pursuant to Part H, Item 8c of water license 2AM-MEL1631, a follow up report will be issued after the investigation is completed.</b> <b>Reported by Brett Fairbairn, Environment Coordinator 819-759-3555 ext. 4603996</b> <b>Brett.Fairbairn@agnicoeagle.com , Kyle.Conway@agnicoeagle.com ext. 4603212</b>			
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<b>L</b>	REPORTED TO SPILL LINE BY <b>Brett Fairbairn</b>	POSITION <b>Env. Coordinator</b>	EMPLOYER <b>AEM</b>	LOCATION CALLING FROM <b>Meliadine</b>	TELEPHONE <b>819-759-3555</b>
<b>M</b>	ANY ALTERNATE CONTACT <b>Kyle Conway</b>	POSITION <b>General Supervisor</b>	EMPLOYER <b>AEM</b>	ALTERNATE CONTACT LOCATION <b>Meliadine</b>	ALTERNATE TELEPHONE <b>819-860-1033</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					



November 8<sup>th</sup>, 2022

Kyle Amsel  
Water Resource Officer  
Kivalliq Region, Field Operations Unit  
Crown-Indigenous Relations and Northern Affairs Canada  
Rankin Inlet, NU  
XOC 0G0

*Sent via email: [kyle.amsel@rcaanc-cirnac.gc.ca](mailto:kyle.amsel@rcaanc-cirnac.gc.ca)*

## **Re.: Follow-up Report Spill #2022517 – Release of 800 L of wash bay water at the Meliadine Gold Project**

On November 2<sup>nd</sup>, 2022, the Nunavut Spill Line was notified by Agnico Eagle personnel via email ([spills@gov.nt.ca](mailto:spills@gov.nt.ca)) of a spill of approximately 800 L of wash bay water at the Meliadine Gold Project site (spill location coordinates: 63° 2' 18.05"N, 92° 13' 39.55"). This follow-up report provides supplemental information based on the results of the incident investigation and is being provided in accordance with:

- the Nunavut Water Board License 2AM-MEL1631 Water License, part H, item 8c.

### **Description of Incident**

On November 2<sup>nd</sup>, 2022, at approximately 3:00 am, an estimated 800 L of wash bay water was spilled on the industrial pad due to a failed freshwater line in the wash bay. The freshwater was released into the wash bay sump causing the sump to overflow. The diluted wash bay sump water flowed out the overhead door and on to the industrial pad where it froze in place. No water bodies were impacted by this spill. The closest water body (G2) is approximately 325 meters northwest, as seen in Figure 1.



**Figure 1:** Location of wash bay spill and proximity to water bodies.

## Spill Response and Remediation

Upon discovery of the spill the freshwater valve was closed. The operator then proceeded to contact the environment department to inform them of the situation. The frozen material was cleaned up using a loader. The frozen wash bay material was then disposed of in Tiriganiaq Pit 2 its disposal location during normal operations.



## Root Causes and Corrective Measures

An investigation was conducted soon after the incident occurred to determine the root causes and contributing factors. The investigation concluded with the following:

- A blizzard on November 1 caused the HVAC intake coils to plug with snow and ice resulting in low temperatures within the wash bay. This caused the freshwater line to fail.
- Low glycol level in the HVAC system reduced the effectiveness of the HVAC system.

The following corrective and preventative actions have been identified to address the root causes and to reduce the likelihood of reoccurrence:

- Preventative maintenance HVAC inspection will be conducted post blizzard;
- The freshwater line PC piping will be replaced with stainless steel piping ;
- The glycol level in the HVAC system was returned to 100%

Should you have any questions or require further information, please do not hesitate to contact the undersigned.



**Brett Fairbairn** | Environment Coordinator

brett.fairbairn@agnicoeagle.com | Direct 819.759.3555 x4603996 |

Agnico Eagle Mines Limited - Meliadine Mine, Suite 879 - Rankin Inlet, Nunavut,  
Canada X0C 0G0

[agnicoeagle.com](http://agnicoeagle.com)     

Sent from Meliadine



## **Appendix – Photos**



# AGNICO EAGLE

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**Photo 1:** Wash bay water spill area



**Photo 2:** Spill remediation area





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>11-15-2022</b>	REPORT TIME <b>18:30</b>	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR		REPORT NUMBER <b>20 - 22529</b>
	OCCURRENCE DATE: MONTH – DAY – YEAR <b>11-15-2022</b>	OCCURRENCE TIME <b>6:00</b>	<input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT		
<b>C</b>	LAND USE PERMIT NUMBER (IF APPLICABLE) <b>KVPL11D01</b>	WATER LICENCE NUMBER (IF APPLICABLE) <b>2AM-MEL1631</b>			
	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION <b>Meliadine Gold Project</b>		REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN		
<b>E</b>	LATITUDE DEGREES <b>63</b> MINUTES <b>2</b> SECONDS <b>21</b>	LONGITUDE DEGREES <b>92</b> MINUTES <b>13</b> SECONDS <b>41</b>			
	RESPONSIBLE PARTY OR VESSEL NAME <b>Agnico Eagle Mines Ltd.</b>	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION <b>Meliadine, Rankin Inlet, Nunavut, X0C 0G0</b>			
<b>G</b>	ANY CONTRACTOR INVOLVED <b>N/A</b>	CONTRACTOR ADDRESS OR OFFICE LOCATION <b>N/A</b>			
	PRODUCT SPILLED <b>Sewage</b>	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES <b>10 Litres</b>	U.N. NUMBER		
<b>H</b>	SECOND PRODUCT SPILLED (IF APPLICABLE) <b>N/A</b>	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES	U.N. NUMBER		
	SPILL SOURCE <b>Sewage Lift station</b>	SPILL CAUSE <b>Human Error</b>	AREA OF CONTAMINATION IN SQUARE METRES <b>0.5</b>		
<b>J</b>	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>		
	<b>K</b> ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS <b>An overflow of the lift station for wing 3 of the main camp resulted in a spill of 10 L of sewage to the industrial pad. The spill was contained to the local area.</b>  <b>The coordinates of the spill are 63 2 24.32 N, 92 13 43.51 W. No water bodies were impacted by this spill. The nearest natural water body (G2) is 222m northwest.</b>  <b>Pursuant to Part H, Item 8c of water license 2AM-MEL1631, a follow up report will be issued after the investigation is completed.</b>  <b>Reported by Randy Schwandt, Environment Coordinator 819-759-3555 ext. 4603996 Randy.Schwandt@agnicoeagle.com , Kyle.Conway@agnicoeagle.com ext. 4603212</b>				
<b>L</b>	REPORTED TO SPILL LINE BY <b>Randy Schwandt</b>	POSITION <b>Env. Coordinator</b>	EMPLOYER <b>AEM</b>	LOCATION CALLING FROM <b>Meliadine</b>	TELEPHONE <b>819-759-3555</b>
	ANY ALTERNATE CONTACT <b>Kyle Conway</b>	POSITION <b>General Supervisor</b>	EMPLOYER <b>AEM</b>	ALTERNATE CONTACT LOCATION <b>Meliadine</b>	ALTERNATE TELEPHONE <b>819-860-1033</b>
<b>REPORT LINE USE ONLY</b>					
<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					



December 8, 2022

Kyle Amsel  
Water Resource Officer  
Kivalliq Region, Field Operations Unit  
Crown-Indigenous Relations and Northern Affairs Canada  
Rankin Inlet, NU  
X0C 0G0

*Sent via email: [Kyle.Amsel@rcaanc-cirnac.gc.ca](mailto:Kyle.Amsel@rcaanc-cirnac.gc.ca)*

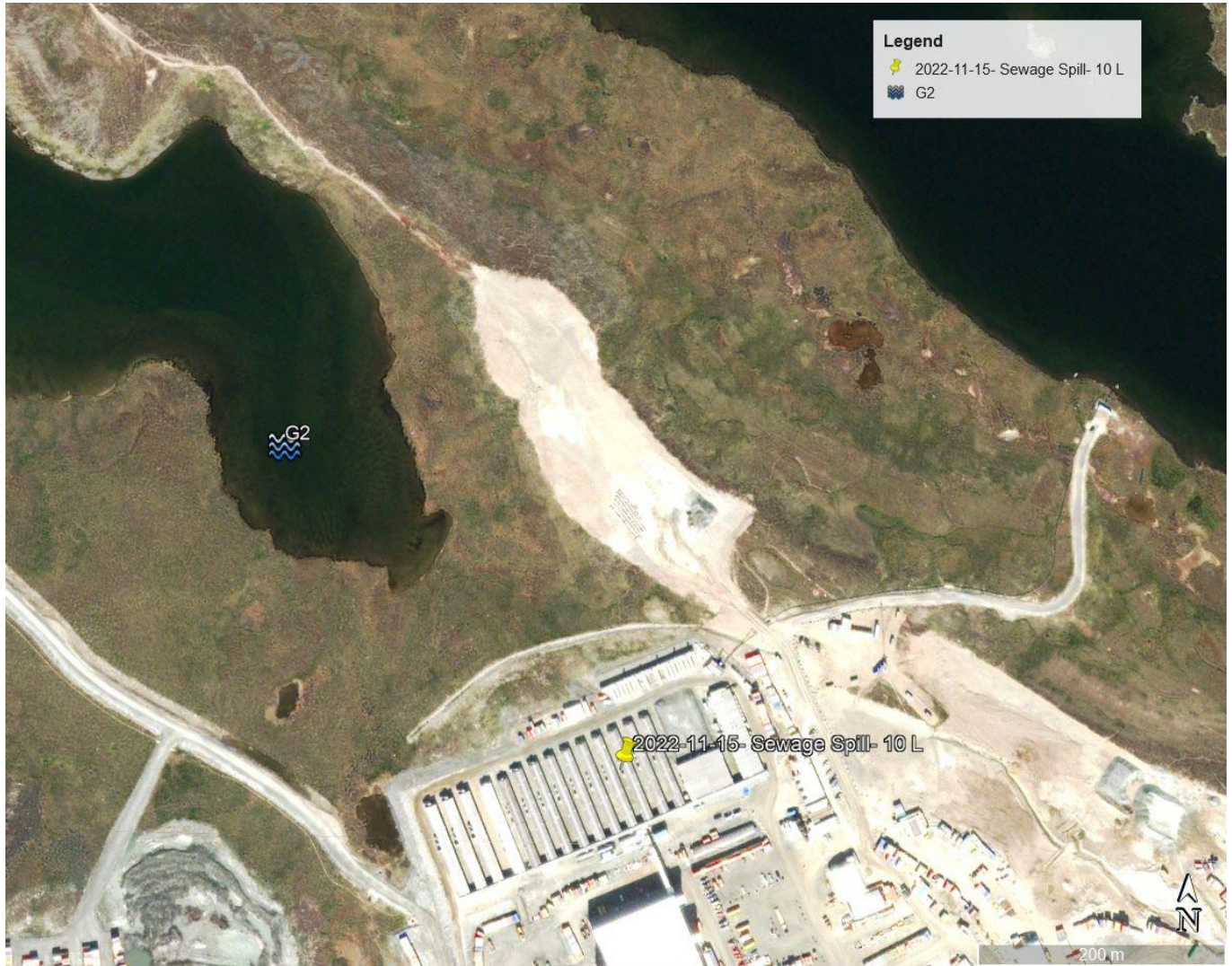
## **Re.: Follow-up Report: Spill #2022529 – Release of 10 L of Sewage at the Meliadine Gold Project**

On November 15<sup>th</sup>, 2022, the Nunavut Spill Report Line was notified by Agnico Eagle personnel via email ([spills@gov.nt.ca](mailto:spills@gov.nt.ca)) of a spill of approximately 10 L of sewage at the Meliadine Gold Project site (spill location coordinates: 63° 2' 24.32" N, 92° 13' 43.51" W). This follow-up report provides supplemental information based on the results of the incident investigation and is being provided in accordance with:

- the Nunavut Water Board License 2AM-MEL1631 Water License, part H, item 8c.

### **Description of Incident**

On November 15<sup>th</sup>, at approximately 6:00 am, an estimated 10 L of sewage was spilled on the industrial pad due to an overflow of the wing three lift station. No water bodies were impacted by this spill. The closest water body (G2) is approximately 222 meters northwest, as seen in Figure 1.



**Figure 1:** Location of sewage spill and proximity to water bodies.

## Spill Response and Remediation

Upon discovery of the spill, a vacuum truck was dispatched to empty the lift station and recover the untreated sewage outside the lift station. Free liquid was pumped back into the main camp lift station. Absorbent pads were deployed to collect the remaining liquid and packaged for offsite disposal at a licensed disposal facility. The impacted surface was hand excavated and an estimated 15 kg of material was brought to Landfarm A as per section 3.4.4 of the Landfarm Management Plan.



## Root Causes and Corrective Measures

An investigation was conducted soon after the incident occurred to determine the root causes and contributing factors. The investigation concluded with the following:

- Sewage grinder pumps became clogged with material preventing normal operations.

The following corrective and preventative actions have been implemented to address the root causes and to reduce the likelihood of reoccurrence:

- Grinder pump blades are to be replaced at wing three lift station. These have been ordered and will be replaced upon arrival to the Meliadine site.
- Secondary containment has been installed around wing three and work is ongoing for each of the wing lift station.

Should you have any questions or require further information, please do not hesitate to contact the undersigned.



**Brett Fairbairn** | Environment Coordinator

brett.fairbairn@agnicoeagle.com | Direct 819.759.3555 x4603996 |

Agnico Eagle Mines Limited - Meliadine Mine, Suite 879 - Rankin Inlet, Nunavut,  
Canada X0C 0G0

[agnicoeagle.com](http://agnicoeagle.com)     

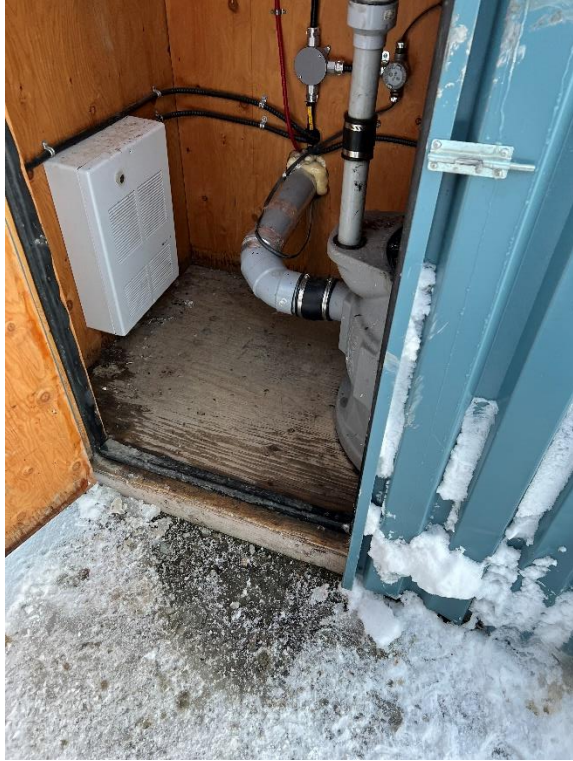
Sent from Meliadine



## Appendix – Photos



**AGNICO EAGLE**  
MELIADINE



**Photo 1:** Wing three lift station spill



**Photo 2:** Wing three lift station grind pump blade



**AGNICO EAGLE**  
MELIADINE



**Photo 3:** Ground area outside the wing three lift station.



**Photo 4:** Wing three lift station with secondary containment installed.



Canada

# NT-NU SPILL REPORT

OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS

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FAX: (867) 873-6924

EMAIL: spills@gov.nt.ca

REPORT LINE USE ONLY

<b>A</b>	REPORT DATE: MONTH – DAY – YEAR <b>11-18-2022</b>	REPORT TIME <b>08:00</b>	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT	<b>REPORT NUMBER</b> <b>20 - 22532</b>
<b>B</b>	OCCURRENCE DATE: MONTH – DAY – YEAR <b>11-17-2022</b>	OCCURRENCE TIME <b>08:00</b>		
<b>C</b>	LAND USE PERMIT NUMBER (IF APPLICABLE) <b>KVPL11D01</b>	WATER LICENCE NUMBER (IF APPLICABLE) <b>2AM-MEL1631</b>		
<b>D</b>	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION <b>Meliadine Gold Project</b>	REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN		
<b>E</b>	LATITUDE DEGREES <b>63</b> MINUTES <b>2</b> SECONDS <b>21</b>	LONGITUDE DEGREES <b>92</b> MINUTES <b>13</b> SECONDS <b>41</b>		
<b>F</b>	RESPONSIBLE PARTY OR VESSEL NAME <b>Agnico Eagle Mines Ltd.</b>	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION <b>Meliadine, Rankin Inlet, Nunavut, X0C 0G0</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>Sewage</b>	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES <b>5 Litres</b>	U.N. NUMBER	
	SECOND PRODUCT SPILLED (IF APPLICABLE) <b>N/A</b>	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES	U.N. NUMBER	
<b>I</b>	SPILL SOURCE <b>Sewage lift station</b>	SPILL CAUSE <b>Equipment failure</b>	AREA OF CONTAMINATION IN SQUARE METRES <b>0.5</b>	
<b>J</b>	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>	

<b>K</b>	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS <b>An overflow of the lift station for wing 3 of the main camp resulted in a spill of 5 L of sewage to the industrial pad. The spill was contained to the local area and the contaminated material was recovered.</b>  <b>The coordinates of the spill are 63° 2' 24.32"N, 92° 13' 43.51"W. No water bodies were impacted by this spill. The nearest natural water body (G2) is 222m northwest.</b>  <b>Pursuant to Part H, Item 8c of water license 2AM-MEL1631, a follow up report will be issued after the investigation is completed.</b>			
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<b>L</b>	REPORTED TO SPILL LINE BY <b>Kyle Conway</b>	POSITION <b>Env. Supervisor</b>	EMPLOYER <b>AEM</b>	LOCATION CALLING FROM <b>Meliadine</b>	TELEPHONE <b>819-860-1033</b>
<b>M</b>	ANY ALTERNATE CONTACT <b>Sara Lavoie</b>	POSITION <b>Env. Supervisor</b>	EMPLOYER <b>AEM</b>	ALTERNATE CONTACT LOCATION <b>Meliadine</b>	ALTERNATE TELEPHONE <b>819-856-9349</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
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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					





December 17<sup>th</sup>, 2022

Kyle Amsel  
Water Resource Officer  
Kivalliq Region, Field Operations Unit  
Crown-Indigenous Relations and Northern Affairs Canada  
Rankin Inlet, NU  
X0C 0G0

*Sent via email: [Kyle.Amsel@rcaanc-cirnac.gc.ca](mailto:Kyle.Amsel@rcaanc-cirnac.gc.ca)*

## **Re.: Follow-up Report: Spill # 2022532 – Release of 5 L of Sewage at the Meliadine Gold Project**

On November 18<sup>th</sup>, 2022, the Nunavut Spill Report Line was notified by Agnico Eagle personnel via email ([spills@gov.nt.ca](mailto:spills@gov.nt.ca)) of a spill of approximately 5 L of sewage at the Meliadine Gold Project site. Spill location coordinates are: 63° 2' 24.32" N, 92° 13' 43.51" W. This follow-up report provides supplemental information based on the results of the incident investigation and is being provided in accordance with:

- the Nunavut Water Board License 2AM-MEL1631 Water License, part H, item 8c.

### **Description of Incident**

On November 17<sup>th</sup>, at approximately 8:00 am, an estimated 5 L of sewage was spilled on the industrial pad due to an overflow of the wing three lift station. No water bodies were impacted by this spill. The closest water body (G2) is approximately 222 meters northwest, as seen in Figure 1.



**Figure 1:** Location of sewage spill and proximity to water bodies.

## Spill Response and Remediation

Upon discovery of the spill, 10 L of contaminated snow was hand shoveled and placed in the main camp lift station for treatment. The solid material was cleaned up and 10 kg of material was placed in Landfarm A as the Landfarm Management plan.

## Root Causes and Corrective Measures



An investigation was conducted soon after the incident occurred to determine the root causes and contributing factors. The investigation concluded with the following:

- Sewage grinder pumps became clogged with material preventing normal operations.

The following corrective and preventative actions have been implemented to address the root causes and to reduce the likelihood of reoccurrence:

- Grinder pump blades are to be replaced at wing three lift station. These have been ordered and will be replaced upon arrival to the Meliadine site.
- Secondary containment has been installed around wing three and work is ongoing for each of the wing lift station.

Should you have any questions or require further information, please do not hesitate to contact the undersigned.



**Randy Schwandt** | Environment Coordinator

[randy.schwandt@agnicoeagle.com](mailto:randy.schwandt@agnicoeagle.com) | Direct 819.759.3555 x4603996 |

Agnico Eagle Mines Limited - Meliadine Mine, Suite 879 - Rankin Inlet, Nunavut,  
Canada X0C 0G0

[agnicoeagle.com](http://agnicoeagle.com)     

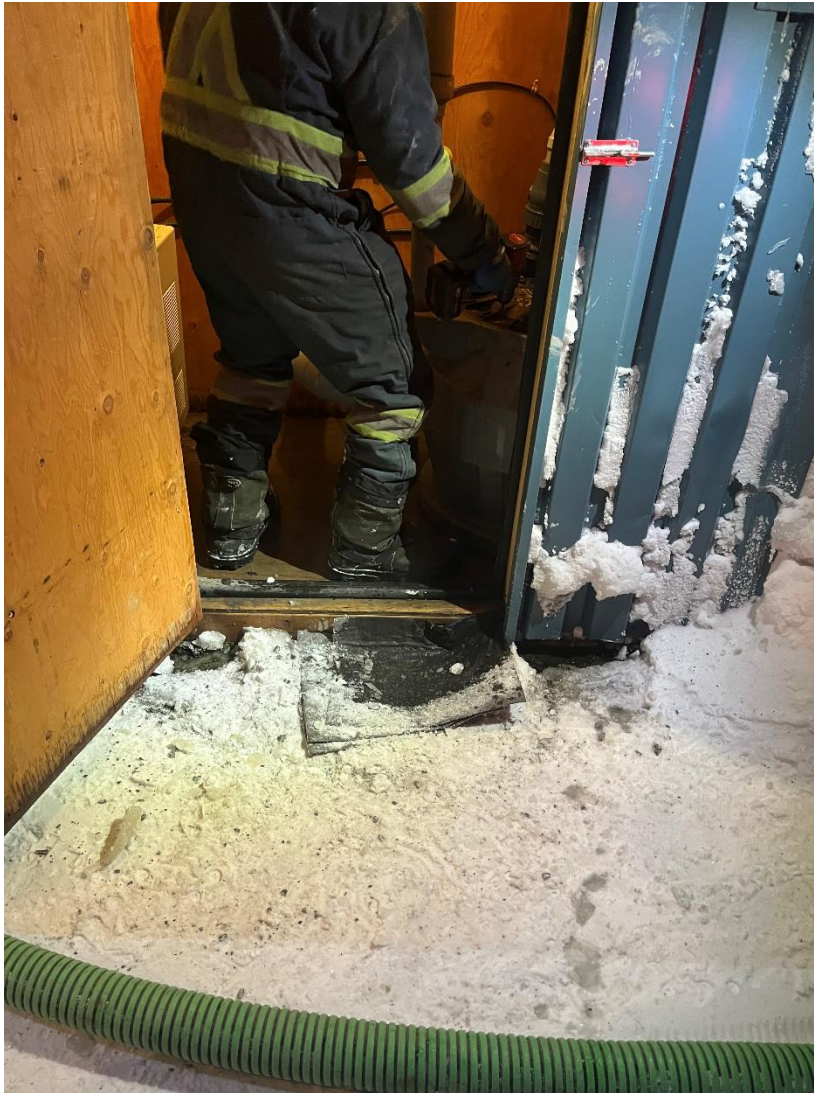
Sent from Meliadine



## Appendix – Photos



**AGNICO EAGLE**  
MELIADINE



**Photo 1:** Wing three lift station 5 L spill



# AGNICO EAGLE

MELIADINE



**Photo 2:** Ground area outside the wing three lift station, post cleanup.



**Photo 3:** Wing three lift station with secondary containment installed post cleanup



# 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>11/20/2022</b>	REPORT TIME <b>18:30</b>	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT	<b>REPORT NUMBER</b>  <b>20 - 22533</b>
<b>B</b>	OCCURRENCE DATE: MONTH – DAY – YEAR <b>11/20/2022</b>	OCCURRENCE TIME <b>4:00</b>		
<b>C</b>	LAND USE PERMIT NUMBER (IF APPLICABLE) <b>KVPL11D01</b>	WATER LICENCE NUMBER (IF APPLICABLE) <b>2AM-MEL1631</b>		
<b>D</b>	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION <b>Meliadine Gold Project</b>		REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN	
<b>E</b>	LATITUDE DEGREES <b>63</b> MINUTES <b>2</b> SECONDS <b>21</b>		LONGITUDE DEGREES <b>92</b> MINUTES <b>13</b> SECONDS <b>41</b>	
<b>F</b>	RESPONSIBLE PARTY OR VESSEL NAME <b>Agnico Eagle Mines Ltd.</b>	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION <b>Meliadine, Rankin Inlet, Nunavut, X0C 0G0</b>		
<b>G</b>	ANY CONTRACTOR INVOLVED <b>Dyno Nobel</b>	CONTRACTOR ADDRESS OR OFFICE LOCATION <b>N/A</b>		
<b>H</b>	PRODUCT SPILLED <b>Emulsion</b>	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES <b>1.5m3</b>	U.N. NUMBER <b>UN2067</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>Emulsion container</b>	SPILL CAUSE <b>Human error</b>	AREA OF CONTAMINATION IN SQUARE METRES <b>5</b>	
<b>J</b>	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>	

<b>K</b>	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS <p><b>A worker was loading an emulsion container onto a platform truck. During this task the bin to fell off the truck and broke allowing the product to spill to the ground. Clean up of the spill occurred immediately.</b></p> <p><b>The coordinates of the spill are 63°01'35.5"N, 92°12'33.6"W. No water bodies were impacted by this spill. The nearest natural water body (A8) is 950 m southwest.</b></p> <p><b>Pursuant to Part H, Item 8c of water license 2AM-MEL1631, a follow up report will be issued after the investigation is completed. E2 Facility ID #2-1524.</b></p>			
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<b>L</b>	REPORTED TO SPILL LINE BY <b>Kyle Conway</b>	POSITION <b>Env. Supervisor</b>	EMPLOYER <b>AEM</b>	LOCATION CALLING FROM <b>Meliadine</b>	TELEPHONE <b>819-860-1033</b>
<b>M</b>	ANY ALTERNATE CONTACT <b>Sara Savoie</b>	POSITION <b>Env. Supervisor</b>	EMPLOYER <b>AEM</b>	ALTERNATE CONTACT LOCATION <b>Meliadine</b>	ALTERNATE TELEPHONE <b>819-856-9349</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					



December 19<sup>th</sup>, 2022

Kyle Amsel  
Water Resource Officer  
Kivalliq Region, Field Operations Unit  
Crown-Indigenous Relations and Northern Affairs Canada  
Rankin Inlet, NU  
X0C 0G0

Sent via email: [kyle.amsel@rcaanc-cirnac.gc.ca](mailto:kyle.amsel@rcaanc-cirnac.gc.ca)

## **Re.: Follow-up Report: Spill #2022533– Release of 1.5 m<sup>3</sup> of Emulsion at the Meliadine Gold Project**

On November 20<sup>th</sup>, 2022, the Nunavut Spill Line was notified by Agnico Eagle personnel via email ([spills@gov.nt.ca](mailto:spills@gov.nt.ca)) of a spill of approximately 1.5 m<sup>3</sup> of emulsion at the Meliadine Gold Project site (spill location coordinates: 63° 1' 35.5"N, 92° 12' 33.6"). This follow-up report provides supplemental information based on the results of the incident investigation and is being provided in accordance with:

- the Nunavut Water Board License 2AM-MEL1631 Water License, part H, item 8c.

### **Description of Incident**

On November 20<sup>th</sup>, at approximately 4:00 am, an estimated 1.5 m<sup>3</sup> of emulsion was spilled on the industrial pad when loading a boom truck for transport to the underground mine. While placing an emulsion bin #1 on the boom truck with a loader (with forks attached) a previously loaded emulsion bin was accidentally pushed off the boom truck. This led to the operator accidentally raising the forks (versus tilting) on the loader causing the emulsion bin #2 being loaded to slide off the forks. The bin sustained damage upon contact with the ground leading to the release of emulsion.

No water bodies were impacted by this spill. The closest water body (A8) is approximately 950 meters southwest, as seen in Figure 1.





**Figure 1:** Location of emulsion spill and proximity to water bodies.

## Spill Response and Remediation

Upon discovery of the spill, the emulsion was contained to the local area. The emulsion loading operation stopped and the remediation process started. Hand tools and heavy equipment were used to recover the spilled emulsion. The contaminated material was placed in quatrex bags and stored in a seacan for reprocessing at the emulsion production plant or for later use in the open pit blasting process.



## Root Causes and Corrective Measures

An investigation was conducted soon after the incident occurred to determine the root causes and contributing factors. The investigation concluded with the following:

- The current loading setup allowed for a bin to be pushed off the loading deck even with a spotter in place.

The following corrective and preventative actions have been implemented to address the root causes and to reduce the likelihood of reoccurrence:

- A job hazardous analysis was completed to review all hazards with operators.
- A designated loading area has been identified and is now in use to allow for a backstop to prevent the bin from being pushed off the loading deck.
- The “Boom Truck Emulsion Loading and Transportation” procedure is being developed and will be issued for use in the coming days.
- The Boom Truck Emulsion Loading and Transportation procedure will be reviewed with relevant employees.

Should you have any questions or require further information, please do not hesitate to contact the undersigned.



**Randy Schwandt** | Environment Coordinator

[randy.schwandt@agnicoeagle.com](mailto:randy.schwandt@agnicoeagle.com) | Direct 819.759.3555 x4603996 |

Agnico Eagle Mines Limited - Meliadine Mine, Suite 879 - Rankin Inlet, Nunavut, Canada X0C 0G0

[agnicoeagle.com](http://agnicoeagle.com)     

Sent from Meliadine



## **Appendix – Photos**



# AGNICO EAGLE

MELIADINE



**Photo 1:** Emulsion spill location



**Photo 2:** Emulsion spill remediation



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>11-25-2022</b>	REPORT TIME <b>15:00</b>	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT	<b>REPORT NUMBER</b>  _____
<b>B</b>	OCCURRENCE DATE: MONTH – DAY – YEAR <b>11-24-2022</b>	OCCURRENCE TIME <b>18:30</b>		
<b>C</b>	LAND USE PERMIT NUMBER (IF APPLICABLE) <b>KVPL11D01</b>	WATER LICENCE NUMBER (IF APPLICABLE) <b>2AM-MEL1631</b>		
<b>D</b>	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION <b>Meliadine Gold Project</b>		REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN	
<b>E</b>	LATITUDE DEGREES <b>63</b> MINUTES <b>2</b> SECONDS <b>21</b>		LONGITUDE DEGREES <b>92</b> MINUTES <b>13</b> SECONDS <b>41</b>	
<b>F</b>	RESPONSIBLE PARTY OR VESSEL NAME <b>Agnico Eagle Mines Ltd.</b>	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION <b>Meliadine, Rankin Inlet, Nunavut, X0C 0G0</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>Sewage</b>	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES <b>30 Litres</b>	U.N. NUMBER	
	SECOND PRODUCT SPILLED (IF APPLICABLE) <b>N/A</b>	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES	U.N. NUMBER	
<b>I</b>	SPILL SOURCE <b>Sewage lift station</b>	SPILL CAUSE <b>Equipment failure</b>	AREA OF CONTAMINATION IN SQUARE METRES <b>3.0</b>	
<b>J</b>	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>	

<b>K</b>	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS <p><b>An overflow of the lift station for wing 3 of the main camp resulted in a spill of 30 L of sewage to the industrial pad. The spill was contained to the local area and the contaminated material was recovered.</b></p> <p><b>The coordinates of the spill are 63° 2' 24.32" N, 92° 13' 43.51" W. No water bodies were impacted by this spill. The nearest natural water body (G2) is 222 m northwest.</b></p> <p><b>Pursuant to Part H, Item 8c of Water License 2AM-MEL1631, a follow up report will be issued after the investigation is completed.</b></p> <p><b>Reported by Brett Fairbairn, Environment Coordinator 819-759-3555 ext. 4603996</b>  <b>Brett.Fairbairn@agnicoeagle.com</b></p>			
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<b>L</b>	REPORTED TO SPILL LINE BY <b>Brett Fairbairn</b>	POSITION <b>Env. Coordinator</b>	EMPLOYER <b>AEM</b>	LOCATION CALLING FROM <b>Meliadine</b>	TELEPHONE <b>819-759-3555</b>
<b>M</b>	ANY ALTERNATE CONTACT <b>Kyle Conway</b>	POSITION <b>Env. Supervisor</b>	EMPLOYER <b>AEM</b>	ALTERNATE CONTACT LOCATION <b>Meliadine</b>	ALTERNATE TELEPHONE <b>819-860-1033</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					



December 21, 2022

Kyle Amsel  
Water Resource Officer  
Kivalliq Region, Field Operations Unit  
Crown-Indigenous Relations and Northern Affairs Canada  
Rankin Inlet, NU  
X0C 0G0

*Sent via email: [Kyle.Amsel@rcaanc-cirnac.gc.ca](mailto:Kyle.Amsel@rcaanc-cirnac.gc.ca)*

## **Re.: Follow-up Report: Spill # 2022542 – Release of 30 L of Sewage at the Meliadine Gold Project**

On November 25<sup>th</sup>, 2022, the Nunavut Spill Report Line was notified by Agnico Eagle personnel via email ([spills@gov.nt.ca](mailto:spills@gov.nt.ca)) of a spill of approximately 30 L of sewage at the Meliadine Gold Project site. Spill location coordinates are: 63° 2' 24.32" N, 92° 13' 43.51" W. This follow-up report provides supplemental information based on the results of the incident investigation and is being provided in accordance with:

- the Nunavut Water Board License 2AM-MEL1631 Water License, part H, item 8c.

### **Description of Incident**

On November 24<sup>th</sup>, at approximately 6:30 pm, sewage overflowed from the pump of the wing 3 lift station. No water bodies were impacted by this spill. The closest water body (G2) is approximately 222 meters northwest, as seen in Figure 1.



**Figure 1:** Location of sewage spill and proximity to water bodies.

## Spill Response and Remediation

Upon discovery of the spill, personnel noticed the pump was not running and manually engaged the pump to reduce the level in the lift station. Personnel requested a vacuum truck to recover the liquid untreated sewage spilled outside the lift station. Hand tools were used to clean up the frozen material and placed in a drum for disposal at Landfarm A as per section 3.4.4 of the Landfarm Management plan.



## Root Causes and Corrective Measures

An investigation was conducted to determine the root causes and contributing factors. The investigation concluded with the following:

- Floats did not engage the pump as levels in the basin rose.
- Consequently, no alarms were triggered as the spill was occurring.
- The secondary containment in place overflowed as no alarms were triggered.

The following corrective and preventative actions have been implemented to address the root causes and to reduce the likelihood of reoccurrence:

- New floats were installed.
- Tests were conducted to ensure the new floats are operating properly.
- Once the floats were installed, alarms were tested and operated as per design.
- Lift station inspections were increased to two times per day to verify proper operation.
- A formal lift station preventative maintenance program and associated work orders was developed.

Should you have any questions or require further information, please do not hesitate to contact the undersigned.



**Randy Schwandt** | Environment Coordinator

[randy.schwandt@agnicoeagle.com](mailto:randy.schwandt@agnicoeagle.com) | Direct 819.759.3555 x4603996 |

Agnico Eagle Mines Limited - Meliadine Mine, Suite 879 - Rankin Inlet, Nunavut, Canada X0C 0G0

[agnicoeagle.com](http://agnicoeagle.com)     

Sent from Meliadine

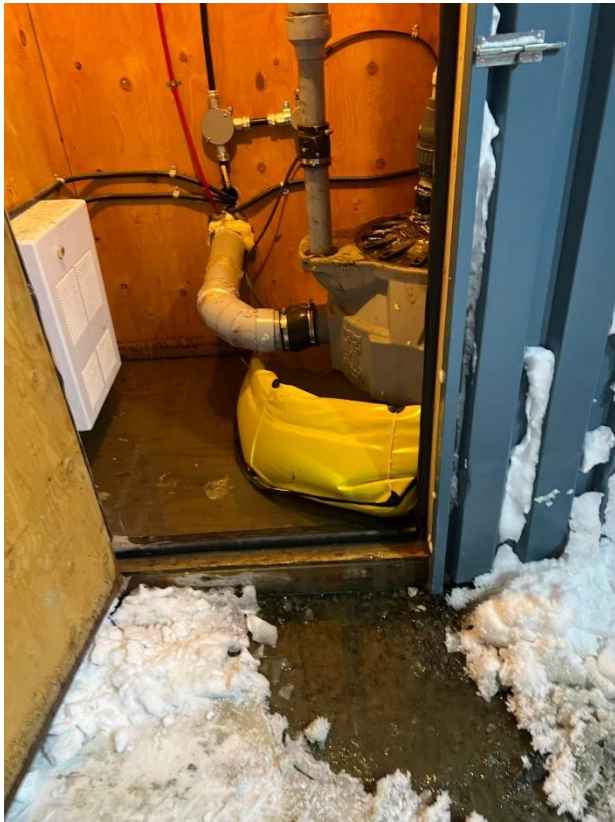




## **Appendix – Photos**



**AGNICO EAGLE**  
MELIADINE



**Photos 1&2:** Wing three lift station 30 L spill



# AGNICO EAGLE

MELIADINE



**Photo 3:** Ground area outside the wing three lift station, post cleanup.



**Photo 4:** Ground area outside the wing three lift station.



# 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>12-17-2022</b>	REPORT TIME <b>17:35</b>	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT	REPORT NUMBER _____
<b>B</b>	OCCURRENCE DATE: MONTH – DAY – YEAR <b>12-17-2022</b>	OCCURRENCE TIME <b>8:00</b>		
<b>C</b>	LAND USE PERMIT NUMBER (IF APPLICABLE) <b>KVPL11D01</b>	WATER LICENCE NUMBER (IF APPLICABLE) <b>2AM-MEL1631</b>		
<b>D</b>	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION <b>Meliadine Gold Project</b>		REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN	
<b>E</b>	LATITUDE DEGREES <b>63</b> MINUTES <b>2</b> SECONDS <b>21</b>		LONGITUDE DEGREES <b>92</b> MINUTES <b>13</b> SECONDS <b>41</b>	
<b>F</b>	RESPONSIBLE PARTY OR VESSEL NAME <b>Agnico Eagle Mines Ltd.</b>	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION <b>Meliadine, Rankin Inlet, Nunavut, X0C 0G0</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>Sewage</b>	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES <b>50 Liters</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>Main Camp Lift Station</b>	SPILL CAUSE <b>Equipment Failure</b>	AREA OF CONTAMINATION IN SQUARE METRES <b>2</b>	
<b>J</b>	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>	

<b>K</b>	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS <b>An overflow of the main camp lift station resulted in a spill of 50 L of sewage to the industrial pad. The spill was contained to the local area. Clean up activities are ongoing.</b>  <b>The coordinates of the spill are 63° 2' 23.60"N, 92° 13' 39.57"W. No water bodies were impacted by this spill. The nearest natural water body (G2) is 280 m north.</b>  <b>Pursuant to Part H, Item 8c of water license 2AM-MEL1631, a follow up report will be issued after the investigation is completed.</b>  <b>Reported by Randy Schwandt, Environment Coordinator 819-759-3555 ext. 4603996 Randy.Schwandt@agnicoeagle.com , Kyle.Conway@agnicoeagle.com ext. 4603212</b>			
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<b>L</b>	REPORTED TO SPILL LINE BY <b>Randy Schwandt</b>	POSITION <b>Env. Coordinator</b>	EMPLOYER <b>AEM</b>	LOCATION CALLING FROM <b>Meliadine</b>	TELEPHONE <b>819-759-3555</b>
<b>M</b>	ANY ALTERNATE CONTACT <b>Kyle Conway</b>	POSITION <b>General supervisor</b>	EMPLOYER <b>AEM</b>	ALTERNATE CONTACT LOCATION <b>Meliadine</b>	ALTERNATE TELEPHONE <b>819-860-1033</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					



January 15<sup>th</sup>, 2023

Kyle Amsel  
Water Resource Officer  
Kivalliq Region, Field Operations Unit  
Crown-Indigenous Relations and Northern Affairs Canada  
Rankin Inlet, NU  
XOC 0G0

*Sent via email:* [Kyle.Amsel@rcaanc-cirnac.gc.ca](mailto:Kyle.Amsel@rcaanc-cirnac.gc.ca)

## **Re: Follow-up Report Spill #2022556 – Spill of 50L of Sewage at the Meliadine Gold Project**

On December 17<sup>th</sup>, 2022, the Nunavut Spill Line was notified by Agnico Eagle personnel via email ([spills@gov.nt.ca](mailto:spills@gov.nt.ca)) of a spill of approximately 50L of sewage at the Meliadine Gold Project site (spill location coordinates: 63° 2' 23.60" N, 92° 13' 39.57"). This follow-up report provides supplemental information based on the results of the incident investigation and is being provided in accordance with:

- the Nunavut Water Board License 2AM-MEL1631 Water License, part H, item 8c.

### **Description of Incident**

On December 17<sup>th</sup>, 2022, at approximately 8:00 am, an estimated 50L of sewage was spilled to the industrial pad due to an equipment failure at the main camp lift station causing it to overflow. The spilled sewage collected directly underneath the lift station enclosure. No water bodies were impacted by this spill. The closest water body (G2) is approximately 280 meters north, as seen in Figure 1.



**Figure 1:** Location of the sewage spill and proximity to water bodies.

## Spill Response and Remediation

The operator of the sewage treatment plant responded to the red strobe light indicating a high volume of sewage in the main camp lift station. The operator switched the system into manual mode to lower the level in the tank to stop the overflow. The spilled sewage travelled underneath the lift station and is inaccessible. The area will be remediated upon replacement or closure of the lift station.



## Root Cause and Corrective Measures

An investigation was conducted soon after the incident occurred to determine the root cause and contributing factors. The investigation concluded with the following:

- An alternator relay failed which resulted in the system automation malfunction.
- The inside of the lift station is humid and increases the potential for electrical issues.

The following corrective and preventative actions have been implemented to address the root causes and to reduce the likelihood of reoccurrence:

- An external shelter will be built to house the electrical components reducing humidity.
- Increased lift station inspections to twice daily.
- Develop a preventive maintenance program for each lift station (mechanical/electrical) and have automated work orders generated based on the preventive maintenance schedule.

Should you have any questions or require further information, please do not hesitate to contact the undersigned.



**Kyle Conway** | Environment General Supervisor

kyle.conway@agnicoeagle.com | Direct 819.759.3555 x4603212 | Mobile  
819.860.1033

Agnico Eagle Mines Limited - Meliadine Mine, Suite 879 - Rankin Inlet, Nunavut,  
Canada X0C 0G0

[agnicoeagle.com](http://agnicoeagle.com)     

Sent from Meliadine



# 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>12-23-2022</b>	REPORT TIME <b>08:30</b>	<input checked="" type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT	REPORT NUMBER _____
	OCCURRENCE DATE: MONTH – DAY – YEAR <b>12-22-2022</b>	OCCURRENCE TIME <b>16:30</b>		
<b>C</b>	LAND USE PERMIT NUMBER (IF APPLICABLE) <b>KVPL11D01</b>	WATER LICENCE NUMBER (IF APPLICABLE) <b>2AM-MEL1631</b>		
	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION <b>Meliadine Gold Project</b>	REGION <input type="checkbox"/> NWT <input checked="" type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN		
<b>E</b>	LATITUDE DEGREES <b>63</b> MINUTES <b>2</b> SECONDS <b>21</b>	LONGITUDE DEGREES <b>92</b> MINUTES <b>13</b> SECONDS <b>41</b>		
	RESPONSIBLE PARTY OR VESSEL NAME <b>Agnico Eagle Mines Ltd.</b>	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION <b>Meliadine, Rankin Inlet, Nunavut, X0C 0G0</b>		
<b>G</b>	ANY CONTRACTOR INVOLVED <b>N/A</b>	CONTRACTOR ADDRESS OR OFFICE LOCATION <b>N/A</b>		
	PRODUCT SPILLED <b>Sewage</b>	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES <b>40 Liters</b>	U.N. NUMBER <b>N/A</b>	
<b>H</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>	
	SPILL SOURCE <b>Power Plant Lift Station</b>	SPILL CAUSE <b>Equipment Failure</b>	AREA OF CONTAMINATION IN SQUARE METRES <b>3</b>	
<b>J</b>	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>	

<b>K</b>	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS			
	<b>An overflow of the power plant lift station resulted in a spill of 40 L of sewage to the industrial pad. The spill was contained to the local area. Clean up activities are ongoing.</b>			
	<b>The coordinates of the spill are 63° 2' 16.41" N, 92° 13' 31.42" W. No water bodies were impacted by this spill. The nearest natural water body (G2) is 520 m north.</b>			
	<b>Pursuant to Part H, Item 8c of water license 2AM-MEL1631, a follow up report will be issued after the investigation is completed.</b>			
<b>Reported by Brett Fairbairn, Environment Coordinator 819-759-3555 ext. 4603996 Brett.Fairbairn@agnicoeagle.com , Sara.Savoie@agnicoeagle.com ext. 4603212</b>				

<b>L</b>	REPORTED TO SPILL LINE BY <b>Brett Fairbairn</b>	POSITION <b>Env. Coordinator</b>	EMPLOYER <b>AEM</b>	LOCATION CALLING FROM <b>Meliadine</b>	TELEPHONE <b>819-759-3555</b>
	ANY ALTERNATE CONTACT <b>Sara Savoie</b>	POSITION <b>General supervisor</b>	EMPLOYER <b>AEM</b>	ALTERNATE CONTACT LOCATION <b>Meliadine</b>	ALTERNATE TELEPHONE <b>819-856-9349</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			





January 21<sup>st</sup>, 2023

Kyle Amsel  
Water Resource Officer  
Kivalliq Region, Field Operations Unit  
Crown-Indigenous Relations and Northern Affairs Canada  
Rankin Inlet, NU  
XOC 0G0

*Sent via email: [kyle.amsel@rcaanc-cirnac.gc.ca](mailto:kyle.amsel@rcaanc-cirnac.gc.ca)*

## **Re: Follow-up Report Spill #2022559 – Release of 40L of Sewage at the Meliadine Gold Project**

On December 22<sup>nd</sup>, 2022, the Nunavut Spill Report Line was notified by Agnico Eagle personnel via email ([spills@gov.nt.ca](mailto:spills@gov.nt.ca)) of a spill of approximately 40L of sewage at the Meliadine Gold Project site. The spill location coordinates are: 63° 2' 16.41" N, 92° 13' 31.42" W. This follow-up report provides supplemental information based on the results of the incident investigation and is being provided in accordance with the Nunavut Water Board License 2AM-MEL1631 Water License, part H, item 8c.

### **Description of Incident**

On December 22<sup>nd</sup>, 2022, at approximately 10:00 am, an estimated 40L of sewage was spilled on the industrial pad from a damaged distribution line from the power plant lift station. The line sustained damage due to freezing. No water bodies were impacted by this spill. The closest water body (G2) is approximately 520 meters north-northwest, as seen in Figure 1.



**Figure 1:** Location of the sewage spill and proximity to water bodies.

## Spill Response and Remediation

While conducting a routine site inspection the Power Plant Operator noticed the lift station was overflowing onto the ground. Upon discovery, the operator immediately called the Energy and Infrastructure (E&I) Maintenance Supervisor. E&I Maintenance quickly responded by closing washrooms that discharge into the lift station and bringing a vacuum truck to empty the lift station. Hand tools were used to clean up the frozen material. The material was brought to Landfarm A as per the Landfarm Management Plan.



## Root Causes and Corrective Measures

An investigation was conducted soon after the incident occurred to determine the root causes and contributing factors. The investigation concluded the following:

- A heat-trace cable servicing the lift station discharge pipe was not functioning properly allowing the liquid in the distribution line to freeze.

The following corrective and preventative actions have been implemented to address the root causes and to reduce the likelihood of reoccurrence:

- Moreau Construction conducted a full inspection of the distribution line. A section of heat trace was found to be faulty and replacement parts are on order for repair.
- AEM plumbers inspected the washroom facilities at the E&I Carpentry Shop and the Power Plant and identified a passing toilet. The issue was addressed, and the flow stopped.
- Vacuum truck operators now conduct 3 inspections per shift and drain the lift station to prevent another overflow event.

Should you have any questions or require further information, please do not hesitate to contact the undersigned.



**Brett Fairbairn** | Environment Coordinator

brett.fairbairn@agnicoeagle.com | Direct 819.759.3555 x4603996 |

Agnico Eagle Mines Limited - Meliadine Mine, Suite 879 - Rankin Inlet, Nunavut,  
Canada X0C 0G0

[agnicoeagle.com](http://agnicoeagle.com)     

Sent from Meliadine



## Appendix – Photos

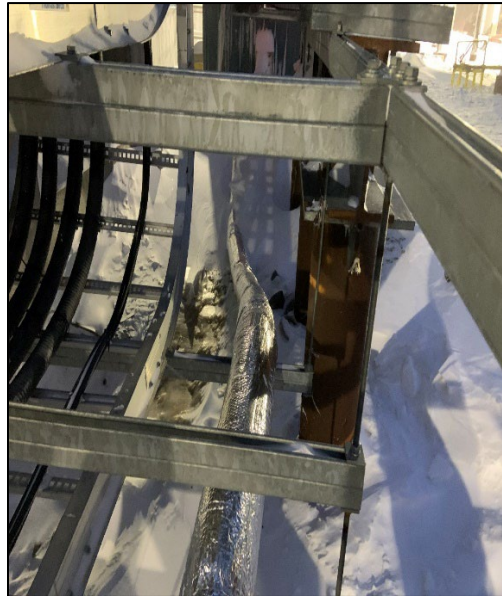


# AGNICO EAGLE

MELIADINE



**Photos 1:** Sewage spill outside life station.



**Photos 2:** Sewage spill under infrastructure.



**Photo 3:** Sewage spill location post clean up.



**Photo 4:** Sewage spill location post clean up.