

DE BEERS GROUP

May 4, 2022

Angela Love
Regulatory Officer
Mackenzie Valley Land and Water Board
7th Floor – 4922 48th Street
P.O. Box 2130
Yellowknife, NT X1A 2P6

Nahum Lee
Resource Management Officer III (Inspector)
North Slave Regional Office
Department of Lands
Government of the Northwest Territories
140 Bristol Avenue, Yellowknife, NT X1A 3T2

Subject: Follow-Up Spill Report – Hydraulic Oil – Gahcho Kué Mine – April 4, 2022 (GNWT Spill #2022116)

Pursuant to Part H Condition 3(d) of Water License MV2005L2-0015, De Beers Canada Inc. (De Beers) is submitting this follow-up spill report for GNWT Spill #2022116, which occurred at the Gahcho Kué Mine at 20:30 on April 4, 2022.

An NT-NU Spill Report was completed and submitted via email to the NWT Spills Hotline (spills@gov.nt.ca) at 09:00 on April 6, 2022.

Incident Summary:

271 Pit viper Drill “RD-003” was drilling on a kimberlite pattern in Hearne Pit when at approximately 8:30pm. The operator stated the hole drilled down extremely quick (possible void), then noticed the hose bundle was twisted and some fluid leaking onto the deck. Operator then pulled the drill head back up to remove the drill steel out of the hole. The operator then got out of the cab and noticed a hydraulic leak spraying from the bundle.

Immediate Actions:

Once the operator was aware of the leak they immediately deployed the emergency stop and the equipment was shut down. Both their supervisor and mobile maintenance were notified. The maintenance technician then deployed spill pads, while the mine operations supervisor coordinated the cleanup of contaminated materials and remediation of the area. Repairs were completed to the damaged hydraulic lines before the equipment was placed back into service. Upon refilling the hydraulic reservoir, it was determined the spill was approximately 200 litres of hydraulic oil.

The spill occurred in the Hearne Pit and all contaminated material was removed and loaded out to the Type 3 Area of the West Mine Rock Pile.

Root Cause:

Due to the void within the drill hole, hydraulic lines had become “bundled” and kinked, which resulted in wear against moving drill steel. This went unnoticed by the operator until the line ruptured resulting in a spill.

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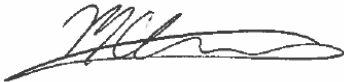
Follow-Up Actions:

The following corrective actions were identified during the internal investigation:

1. Review of operating procedures with crew, emphasising the need to note unusual conditions in the field that could result in malfunctions. If these conditions are noted, equipment must be shut down and inspected prior to a spill or malfunction occurring.

Should you have any questions or concerns, or require any additional information, please do not hesitate to contact the undersigned at your convenience.

Sincerely,



Mason Elwood
Environmental Coordinator / Gahcho Kué Mine
867.679.5814
mason.elwood@debeersgroup.com

Attachments:

- Figure 1. Location of GNWT Spill #2022116**
- Figure 2. Photos GNWT Spill #2022116**
- Figure 3. Updated Spill Report (GNWT Spill #2022116)**

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Figure 1. Location of GNWT Spill #2022116

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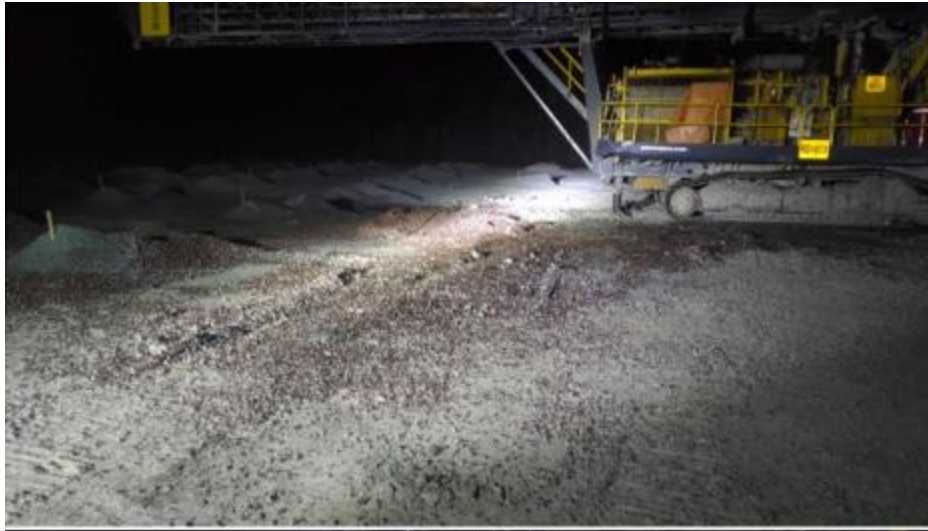


Figure 2. Photos of GNWT Spill #2022116

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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 • Email: spills@gov.nt.ca

REPORT LINE USE ONLY

A	Report Date: 04 06 22	Report Time: 9:00 am	<input checked="" type="checkbox"/> Original Spill Report OR <input type="checkbox"/> Update # _____ to the Original Spill Report		Report Number:
B	Occurrence Date: 04 04 22	Occurrence Time: 11:00 pm			
C	Land Use Permit Number (if applicable): MV2021D0009	Water Licence Number (if applicable): MV2005L2-0015			
D	Geographic Place Name or Distance and Direction from the Named Location: De Beers Group (Canada) Gahcho Kue Mine (Kennady Lake, NT)		Region: <input checked="" type="checkbox"/> NT <input type="checkbox"/> Nunavut <input type="checkbox"/> Adjacent Jurisdiction or Ocean		
E	Latitude: 63 Degrees 25 Minutes 50 Seconds		Longitude: 109 Degrees 13 Minutes 40 Seconds		
F	Responsible Party or Vessel Name: De Beers Group	Responsible Party Address or Office Location: Suite 300 - 1601 Airport Road NE, Calgary Alberta Canada T2E 6X8			
G	Any Contractor Involved:	Contractor Address or Office Location:			
H	Product Spilled: <input type="checkbox"/> Potential Spill Hydraulic Oil	Quantity in Litres, Kilograms or Cubic Metres: 200 L	U.N. Number:		
I	Spill Source: PV261 Pit Viper Drill	Spill Cause: Line Failure	Area of Contamination in Square Metres: 10		
J	Factors Affecting Spill or Recovery: None	Describe Any Assistance Required: None	Hazards to Persons, Property or Environment: None		
K	Additional Information, Comments, Actions Proposed or Taken to Contain, Recover or Dispose of Spilled Product and Contaminated Materials: On April 4, 2022 at approximately 23:00, the hydraulic hose bundle for the rotation head on RD-003 (Pit Viper Drill) got caught up in the safety chain. As the rotation head passed the stuck hoses, one hose was torn in half, releasing approximately 200 litres of hydraulic oil to the pattern being drilled. The unit has been locked out and will be repaired in the next 36 hours. Once repairs are complete, the unit will be moved and the contaminated material will be removed and disposed of properly. A follow up report will be submitted within the next 30 days detailing the root cause and corrective/preventative actions of this incident.				
L	Reported to Spill Line by: Allan Knight	Position: Env. Coordinator	Employer: De Beers	Location Calling From: Gahcho Kue Mine	Telephone: (867) 679-5812
M	Any Alternate Contact: Mason Elwood	Position: Env. Coordinator	Employer: De Beers	Alternate Contact Location: Off-Site	Alternate Telephone: (867) 679-5814

N	Received at Spill Line by:	Position:	Employer:	Location Called:	Report Line Number:
Lead Agency: <input type="checkbox"/> EC <input type="checkbox"/> COG/TCMSS <input type="checkbox"/> GNWT <input type="checkbox"/> GN <input type="checkbox"/> ILA <input type="checkbox"/> AANDC <input type="checkbox"/> NEB <input type="checkbox"/> Other: _____					
Significance: <input type="checkbox"/> Minor <input type="checkbox"/> Major <input type="checkbox"/> Unknown					
File Status: <input type="checkbox"/> Open <input type="checkbox"/> Closed					
Agency:	Contact Name:	Contact Time:	Remarks:		
Lead Agency:					
First Support Agency:					
Second Support Agency:					
Third Support Agency:					

Figure 3. Original Spill Report (GNWT Spill #2022116)