

DE BEERS GROUP

September 19, 2021

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Mackenzie Valley Land and Water Board
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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 – Diesel – Gahcho Kué Mine – August 19, 2021 (GNWT Spill # 2021357)

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 #2021357, which occurred at the Gahcho Kué Mine at 21:00 on August 19, 2021.

An NT-NU Spill Report was completed and submitted via email to the NWT Spills Hotline (spills@gov.nt.ca) at 15:19 on August 20, 2021.

Incident Summary:

On August 19, 2021, a fuel truck operator began refueling LV-017 (Lube Truck) at the light vehicle fueling module. While the unit was filling, the operator began to hear the sound of running liquid and observed fuel running out of the top of the fuel truck tank. The operator got out of truck and turned off the refueling line. The fueling meter was noted at reading 9124 litres, with the truck capacity being rated at 9000 litres.

Immediate Actions:

The operator immediately froze the scene, contacted the shop lead hand and started to put down some spill tubes / pads to help contain the fuel spill. The contaminated gravel was disposed of in the Type 3 area of the West Mine Rock Pile, and fresh material was placed within the impacted area.

Root Cause:

Initial investigations showed that a fuel control valve malfunctioned, resulting in the overfill of the tank. The control valve had failed previously and was left in the failed state. This was identified during the investigation. The operator did not follow the department operating procedure. The Lube truck was being utilized as the regular Fuel Trucks were out of service and does not have the same shutoff controls as the fuel truck, nor the capacity.

Follow-Up Actions:

The following corrective and preventative actions were identified during the internal investigation:

- Review of the department operating procedure DOP-071 with the entire maintenance team and stress the importance of following this DOP.
- Maintenance Technicians to check the operation of the fuel control valves on all fueling units to confirm they are working to OEM specifications.
- Investigate adding an audible alarm and/or flasher for the fuel tank level to activate at a reasonable percentage full. Supplier to provide quote and recommendation.

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

Sincerely,



Allan Knight
Environmental Coordinator / Gahcho Kué Mine
867.679.5812
allan.knight@debeersgroup.com

Attachments:

Figure 1. Location of Spill

Figure 2. Original Spill Report (GNWT Spill #2021357)



Figure 1. Location of GNWT Spill #2021357

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: | 08 20 21 | Report Time: | 3:30 pm | <input checked="" type="checkbox"/> Original Spill Report OR <input type="checkbox"/> Update # _____ to the Original Spill Report | Report Number: 2021357 |
| | B | Occurrence Date: | 08 19 21 | Occurrence Time: | | |
| 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 26 Minutes 35 Seconds | Longitude: | 109 Degrees 10 Minutes 43 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 | Quantity in Litres, Kilograms or Cubic Metres: | U.N. Number: | | | |
| I | Spill Source: | Light Vehicle Fueling Module / LV-017 | Spill Cause: | Area of Contamination in Square Metres: | | |
| J | Factors Affecting Spill or Recovery: | none | Describe Any Assistance Required: | Hazards to Persons, Property or Environment: | | |
| K | Additional Information, Comments, Actions Proposed or Taken to Contain, Recover or Dispose of Spilled Product and Contaminated Materials: On August 19, 2021, a fuel truck operator began refueling LV-017 at the light vehicle fueling module. While the unit was filling, the operator began to hear the sound of running liquid and observed fuel running out of the top of the fuel trucks tank. The operator got out of truck and turned off the refueling line. The fueling meter was noted at reading 9124 litres, with the truck capacity being rated at 9000 litres. Spill containment was immediately deployed and the operators supervisor notified. Initial investigations shows that a fuel control valve malfunctioned, resulting in an overfill of the tank. A follow up report will be provided within the next 30 days, indicating further detail, root causes and corrective actions. | | | | | |
| L | Reported to Spill Line by: | Position: | Employer: | Location Calling From: | Telephone: | |
| M | Any Alternate Contact: | Position: | Employer: | Alternate Contact Location: | Alternate Telephone: | |

REPORT LINE USE ONLY

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

Figure 2. Original Spill Report (GNWT Spill #2021357)