



25 September 2024

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**RE: W2017D0004 – Spill-2024360**

Pursuant to Part C: Condition 26(1)(g) requirement 18. c) of Land Use Permit W2017D0004 – Ekati, Burgundy Diamond Mines Ltd. is providing a detailed report on Spill-2024360 which occurred on 19-Septemeber-2024, at 1:30 AM in Misery Development (i.e., disturbed ground).

**Summary**

At 1:30 AM on 19-September-2024 Lube Truck (TKS6720) was refilling its bulk fuel tank at the Misery Fuel Station when diesel fuel overflowed out of the breather on the top of the tank (see photo 1). The investigation identified that the max level sensor inside the bulk tank of the lube truck failed causing the fuel island's pump not to kick off at 95% fuel level resulting in the fuel overflow. A recent heavy downpour caused water buildup in the subsurface sump beside the product transfer area, leaving it unable to capture the entire spill (see photo 2). Some of the fuel/water flowed from the product transfer area onto compacted gravel directly adjacent to the product transfer area.

This overflow resulted in a diesel spill of 795.9 L within the product transfer area and ground directly beside it at the Misery Fuel Station, impacting approximately 20 m<sup>2</sup> area.

Location of Misery Fuel Station

- **Latitude:** 64.571870°
- **Longitude:** -110.173544°



### **Root Cause**

The root cause of the diesel fuel spill was the failure of the max level inside the bulk tank of the lube truck (TKS6720). This failure prevented the Misery fuel island's pump from shutting off at 95% capacity, leading to the fuel overflow.

### **Immediate Action Taken**

Upon noticing the spill, the operator immediately stopped the fuel flow manually, deployed spill pads, froze the area, and informed their supervisor. The supervisor dispatched a vacuum truck to suck up fuel from the product transfer area. They also arranged for equipment to deliver crush, enabling a loader to construct berms for containment beside the Misery Fuel Station (see photo 3). The vacuum truck disposed of the water fuel mix (20 L) at the Ekati Landfarm (suitable hydrocarbon disposal area).

### **Follow Up Action Taken**

At first day light, heavy equipment was deployed to the area to begin scraping and excavating the impacted ground. Extra attention was given to the depth to ensure impacted material was properly removed (see photo 4). 61.3 m<sup>3</sup> of impacted material were hauled and deposited in Zone S - Panda/Koala (suitable hydrocarbon disposal area). Environmental Specialists inspected the area after cleanup activities to ensure adequate cleanup of the spill. No concerns were noted. Burgundy initiated a 5-WHYS investigation to identify the root cause and key learnings of the spill incident and will implement corrective actions to help prevent similar occurrences in the future.



**Field Photographs**



Photo 1: View of the lube truck (TKS 6720) at the site of the diesel fuel spill, located in the product transfer area.



Photo 2. View of the subsurface sump that overflowed due to rainwater mixed with diesel. The arrows highlight the flow of diesel/water from the paved product transfer area onto compacted gravel adjacent to the fuel station. Photo facing northeast.



Photo 3. View of berms made directly adjacent to the fuel station to contain the diesel fuel spill. Photo facing north.



Photo 4. View of cleanup area (highlighted in yellow) adjacent to the Misery Fuel Station. Photo facing northeast.

We trust this report is clear and informative. If you have any questions or comments, please contact the undersigned at [jonah.kelly@burgundydiamonds.com](mailto:jonah.kelly@burgundydiamonds.com) or (867) 880-4400 ext. 2157.

Sincerely,

Jonah Kelly  
Environment Team Leader, Operations  
Burgundy Diamond Mines

CC: *William Liu – Manager, Environmental Reporting & Permitting*  
*Richard Ehlert – Environment Team Leader, Operations*