



GNWT-ECC - North Slave Region

May 1st 2023

**Arctic Canadian Diamond Company
900 606 4th St. SW
Calgary AB, X2P 1T1**

Land Use Permit W2017D0004

Attn: Harry O'Keefe – Superintendent Environment

Re: February 28th and March 14th, 2023, Misery Land Use Permit Inspection

Dear Mr. O'Keefe,

On February 28th and March 14th, 2023, a Land Use Permit Inspection was conducted at the Ekati Diamond Mine Misery Camp by Jamie Steele, Manager Diamond Resource Management.

As per the noted Land Use Permit granted in accordance with the Mackenzie Valley Resource Management Act, please be advised that the attached Inspection Report is part of the Public Registry and is intended to keep all interested parties informed of the manner in which Permit requirements are being met. This report provides comments based on general observations and highlights any concerns or items that should be addressed by the Permittee.

The following areas were inspected, and the details of the findings are included in the attached report:

- Refueling Station
- Waste Management
- Equipment Parking
- Hydrocarbon Storage
- Snow Dump

The Inspector had two minor concerns resulting from this land use inspection.

- The containment sump at the Misery Refuelling Station was plugged with ice, resulting in inadequate spill containment
- The hydrocarbon storage area requires some maintenance, several containers were not properly labelled.

The details of the findings are in the attached report. If you have any questions or concerns, please contact the undersigned at (867) 767-9187 extension 24188. Thank you for your continued cooperation.

Sincerely,



Jamie Steele
Manager-Diamond Resource Management
GNWT- Environment and Climate Change
North Slave Region
Jamie_Steele@gov.nt.ca

cc: Ms. Rhiana Bams – Regulatory Specialist, Wek'èezhìi Land and Water Board
Mr. Marc Casas – Executive Director, Independent Environmental Monitoring Agency

ENVIRONMENTAL INSPECTION REPORT

Permittee: Arctic Canadian Diamond Company	Inspection Dates: February 28 and March 14 2023
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Permit Expiry Date

Land Use Permit No.	W2017D0004	July 11 2023	
Quarrying Permit No.	N/A		
Contractor:	Procon		

Location(s) Inspected:	Misery Camp - Ekati Claim Block
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Current Stage of Operation:	Underground Mining
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Program Modifications Approved:	N/A
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Condition of Operation "A" - Acceptable "U" - Unacceptable "N/A" - Not Applicable "*" - Cautionary Remark

	Operating Condition	Aspect Inspected	Refers to Permit or License Requirement
26.1	Mackenzie Valley Land Use Regulations: Conditions of Permits		
26.1(a)	Location and Area 26.(1)(a):	A	
26.1(b)	Time	A	
26.1(c)	Type and Size of Equipment 26.1(c)	A	Equipment used was as approved in the LUP application.
26.1(d)	Methods and Techniques 26.1(d)	A	
26.1(e)	Type, Location, Capacity and Operation of All Facilities 26(1)(e)	A	
26.1(f)	Control or Prevention of Ponding of Water, Flooding, Erosion, Slides and Subsidence of Land 26.1(f)	A	
26.1(g)	Use, Storage, Handling and Ultimate Disposal of Any Chemical or Toxic Material	A*	The Inspector noted that several of the containers were not labelled and many of them appeared as though they had been there for quite a while. Details of observations noted below.
26.1(h)	Wildlife and Fisheries Habitat	A	
26.1(i)	Storage, Handling and Disposal of Refuse or Sewage	A	

26.1(j)	Protection of Historical, Archeological and Burial Sites	A	
26.1(k)	Objects and Places of Recreational, Scenic or Ecological Value	NA	
26.1(l)	Security Deposit	A	
26.1(m)	Fuel Storage	A*	Fuel transfer containment was frozen and plugged with ice. This will need to be free of ice before freshet.
26.1(n)	Methods and Techniques for Debris and Brush Disposal	N/A	
26.1(o)	Restoration of the Lands	A	
26.1(p)	Display of Permits and Permit Numbers	A	
26.1(q)	Biological and Physical Protection of the Land	A	

ENVIRONMENTAL INSPECTION REPORT

Notes and Observations:

Refueling Station

The refueling station at the Misery Camp was clean and maintained. Waste containers were labelled and there was no indication of misdirected waste. Spill pads were well stocked to respond to minor spills, and a fully stocked spill kit was easily accessible for potential spill response (Photos 1 through 3).

The spill containment sump was snowed in and not functional at the time of inspection (Photo 4). A follow-up inspection revealed that the snow covering the sump was cleared; however, the sump was still frozen in. Some holes were drilled into the ice to add some limited capacity; however, further action is required to ensure proper spill containment (Photo 5). Arctic staff indicated that the steam truck was down for repairs and awaiting parts. The sump will need to be thawed out and free of ice before freshet.

Waste Management

Waste containers on the Misery Camp Pad were present, properly labelled and easily accessible. Inspection of the waste containers showed that waste was being properly segregated and managed as per the approved Waste Management Plan (Photos 6 through 9).

Equipment Parking

Condition 37 of the Land Use Permit W2017D0004 states that "All equipment that may be parked for two hours or more, shall have a haz-mat/drip tray under it or be sufficiently diapered". The Inspector noted that there is an active effort to ensure that drip trays are deployed under all parked equipment (Photo 10). A supply of drip trays are placed in common parking areas for vehicle operators to use (photo 11). Every piece of parked equipment inspected in the Misery Camp had a drip tray deployed (Photo 12).

Hydrocarbon Storage

The hydrocarbon storage facility is located on the Misery Camp pad. The area is used to store hydrocarbons and other potentially hazardous materials. The facility is bermed and lined to contain any potential spills. The Inspector noted that several of the containers were not labelled and many of them appeared as though they had been there for quite a while (Photo 13). The Inspector recommends that proper labels be placed on all containers, and the facility be inventoried. Any materials that are no longer needed should be shipped off site.

Snow Dump

The Snow Dump is located adjacent to the King Pond Containment Facility. Snow from regular snow clearing within the camp and surrounding area is deposited into the snow dump, which will melt into the King Pond in the Spring. The snow within the Snow Dump was clean, with no visible debris, or any indication of hydrocarbon contamination (Photo 14).

Completed off site

Jamie Steele



Representative's Signature

GNWT-ECC Inspector

Inspector's Signature



Photo 1 – Misery Refueling Station – Refueling station was clean and well organized. Waste containers were labelled and there was no indication of misdirected waste.



Photo 2 – Misery Refueling Station – Spill pads were well stocked to respond to minor spills.



Photo 3 – Misery Refueling Station – Spill kit was fully stocked and easily accessible for potential spill response.



Photo 4 – Misery Refueling Station – The spill containment sump was snowed in and not functional.



Photo 5 – Misery Refueling Station – Follow-up inspection revealed that the sump was still frozen in. Some capacity was available from some holes that were drilled in the ice, but further action is required to ensure proper spill containment. The sump will need to be thawed out and free of ice before freshet.



Photo 6 – Waste Management – Waste containers were labelled and easily accessible.



Photo 7 – Waste Management – Plastics disposal container had no indication of misdirected waste.



Photo 8 – Waste Management – Aerosol cans were being segregated into a labelled waste bin as per the approved Waste Management Plan.



Photo 9 – Waste Management – Landfill was placed near the truckshop. The bin was properly labelled and had no indication of misdirected waste.



Photo 10 – Drip Trays – A campaign at the misery camp has been initiated to ensure that all parked equipment deploys drip trays as per Condition 37 of the Land Use Permit.



Photo 11 – Drip Trays – Drip trays are available at many of the common parking areas around the misery camp.



Photo 12 – Drip Trays – Drip tray placed under parked truck.



Photo 13 – Misery Hydrocarbon Storage – The hydrocarbon storage area is a lined facility used to store hydrocarbon and other potentially hazardous materials. Several of the containers required labels, and many of the containers have been in the area for an extended period. The Inspector recommends that Arctic go through the area and review which containers are no longer needed and remove from site.



Photo 14 – Misery Snow Dump – The Misery Snow Dump is located adjacent to King Pond. All the snow was clean and there was no indication of any debris or hydrocarbon staining.