Telephone: 867-872-2558 Ext 26
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August 8, 2023

Northwest Territories Power Corporation
4 Capital Drive
Hay River, NT X0E 1G2

Attention: Patrick Smith

File Number	**MV2020X0004**
Type of Operation	**Miscellaneous**
Location	**Taltson Dam**

Dear Patrick,

An inspection of the above noted operation was conducted on July 13, 2023, by Resource Management Officer II, Gaylen Pischinger and Senior Water Resource Officer, Wendy Bidwell.

Enclosed is a copy of the Environmental Inspection Report. Please refer to the unacceptable and noted conditions in the general comments section of this report. Your attention to this matter is appreciated.

If you have any questions, please contact me at 867-872-2558 Ext 26.

Sincerely,

Gaylen Pischinger
Resource Management Officer II
Department of Environment and Climate Change
South Slave Region

CC: Leslie Wiltzen, Regional Superintendent (Land & Water), GNWT-ECC, South Slave Region
Andrew Wheeler, Regulatory Specialist, Mackenzie Valley Land and Water Board

ENVIRONMENTAL INSPECTION REPORT

Permittee:	Northwest Territories Power Corporation (NTPC)	**Permit Expiry Date:**	July 01, 2025
Land Use Permit No.	MV2020X0004	**Previous Inspection:**	May 26, 2022
Quarrying Permit No.	2022QP0006	**Inspection Date:**	July 13, 2023
Contractor:	Litostroj Hydro	**Subcontractor:**	DB Consultant
Location(s) Inspected:	Taltson Dam		
Current Stage of Operation:	Active – Overhaul Construction		
Program Modifications Approved:	N/A		

Note: NTPC Employees Nathan Gordon and Patrick Smith accompanied Resource Management Officer II, Gaylen Pischinger and Senior Water Officer, Wendy Bidwell during the July 13, 2023, inspection.

Condition of Operation "A" - Acceptable "U" - Unacceptable "N/A" - Not Applicable "N/I" - Not Inspected

Operating Conditions	**Aspect Inspected**				
	Camp	**Fuel Storage**	**Storage Areas**	**Waste Facilities**	**Quarries**
Location as Permitted	A	A	A	A	A
Time as Permitted	A	A	A	A	A
Equipment as Approved (Type & Size)	A	A	A	A	A
Methods & Techniques	A	A	A	A	A
Facilities	A	A	A	A	A
Erosion (Control or Prevention)	A	A	A	A	A
Chemicals	A	A	A	A	A
Wildlife and Fisheries Habitat (Protection)	A	A	A	A	A
Wastes	A	A* #36	A	A* #40	A
Historical/Archaeological Sites	A	A	A	A	A
Ecological Resources	A	A	A	A	A
Fuel Storage	A	A* #59	U #59 & 36	A	A
Brush Disposal	A	A	A	A	A #62
Restoration of Lands	N/A	N/A	N/A	N/A	N/A
Permits	A	A	A	A	A

Explanatory Remarks -

A Land Use Permit (LUP) inspection was conducted on July 13, 2023, in conjunction with the Water License (WL) inspection completed by Senior Water Officer, Wendy Bidwell. Northwest Territories Power Corporation quarrying. Overhaul operations are authorized

under LUP MV2020X0004 (expires July 1, 2025) and Quarry Permit 2022QP0006 for 3500m³ of gravel and 2000m³ of sand; expires April 11, 2025, or once authorized amount has been quarried, whichever comes first. Please see attached a Monthly Quarry Return Form that needs to be submitted monthly even if no material has been quarried.

Fuel Storage

At the airstrip, there is a newly developed gravel pad with a berm southwest of the fuel shed; there are five 1000L totes and seven 45G drums that contain waste products such as used oil, concrete water, and diesel (Figures 2-3). Please inform the Inspectors whether the gravel pad with berm is lined, if not please store waste containers in secondary containment.

There are 32 x 45G fuel drums located inside the fuel shed (Figures 4-5). There are 24 empty 45G drums located along the southeast side of the runway (Figures 6-7). It is recommended that empty 45G drums be stored on pallets and hauled out during the next winter road season (2023/24) and disposed of to an authorized waste facility.

Permit Condition #36 "*The Permittee shall dispose of all combustible waste petroleum products by removal to an approved disposal facility.*"

There are four 90,000L diesel fuel tanks, one 1295L gasoline fuel tank, and one 13,600L diesel fuel tank located in the storage and distribution area north of the garage (Figures 8-11).

There are two emergency water pumps with 25L jerry cans set up along the shore of the Twin Gorges Forebay; one is located near the water intake shed and one located near the head gate (Figures 12-13). It is recommended that the 25L jerry cans be stored in secondary containment.

Site Storage/Lay Down Areas

Parked in the storage and distribution area is the 160 Finning grader with a drip tray and 938K Cat loader without a drip tray (Figures 14 & 17-19); additional items observed include a new 500-kilowatt generator, existing generator, 1172 cu ft sea can, and metal scaffolding (Figures 15-16 & 20).

Storage area A across from the new camp facility has two large Quonsets (Figures 21-23). There is a Velmet TD 1612 HS forklift parked in between the Quonsets without a drip tray (Figures 24-25).

Storage area B has a gravel pad and is being used to store material and heavy equipment for the overhaul (Figures 26-39). Hydrocarbon staining and full drip trays were observed under the AMMANN single drum roller (Figures 26-27) and the old NTPC dump truck #3027 (Figures 26-29). The new NTPC dump truck #3081, Genie articulating boom lift, RT780 Terex crane, and Freightliner semi-truck did not have drip trays underneath them (Figures 26, 28, 30 & 36-37).

Equipment parked for 2 hours or greater must have a drip tray underneath it. Leaky equipment needs to be repaired immediately, and full drip trays need to be emptied into a labelled waste container to be hauled out and disposed of to an authorized waste facility.

Permit Condition #59 "*All equipment that may be parked for two hours or more, shall have a haz-mat/drip tray under it or be sufficiently diapered. Leaky equipment shall be repaired immediately.*"

Permit Condition #36 "*The Permittee shall dispose of all combustible waste petroleum products by removal to an approved disposal facility.*"

The boneyard has two storage sheds and miscellaneous items throughout the area (Figures 40-55). It is recommended that items be pulled out from the tree line and sorted through; items that are no longer of use need to be hauled out during the 2023/24 winter road and disposed of at an authorized waste facility.

New Camp Facility

The new camp is fully operational. An electric bear fence and gate has been constructed (Figure 56) and a new water intake shed (Figures 57-58).

Waste Areas

The new septic field is operational (Figures 59-61). A temporary sewage lagoon for dumping porta-potti waste has been developed along the spillway access road (Figures 62-63). The grease trap from the kitchen was dumped on the berm of the pit (Figure 64). Domestic waste cannot be dumped in the pit. Please clean up contaminated granular material by shoveling it into the pit and covering it with fresh granular material.

The dump is well organized with signage and a spill response kit (Figures 65-72). There was a bag of domestic garbage in the general section of the dump (Figure 72). Please do not dump domestic garbage at the dump as this attracts wildlife; domestic garbage should be stored in a secure container until it is disposed of.

Permit Condition #40 "*The Permittee shall keep all garbage and debris in a secure container until disposal.*"

As mentioned in the May 26, 2022, inspection report it is recommended that the incinerator ash (Figure 67) be stored in a container and removed from site when possible; the ash contains traces of heavy metals and dioxins.

Quarries (Pits B, V & W)

Pit B is an active sand quarry north of the airstrip; please note the quarry is very close to the access road (Figures 73-75). It is recommended that quarrying occurs in the east side of the pit.

There has been no activity in Pit V since the last inspection report. If the contaminated soil containment area is to be used again, the vegetation needs to be removed and the HDPE liner needs to be in good condition before use.

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Pit W is an active gravel quarry northwest of the airstrip. Pit run material has been stockpiled in the northwest portion of the pit (Figure 80). An EZ Screen 1000XL and manual metal screener are located along the west side of the pit (Figure 79). There are two small brush piles along the west side of the pit, it is recommended that brush/tree piles be burned when weather conditions are acceptable.

Permit Condition #62 "*The Permittee shall progressively dispose of all brush and trees; all disposal shall be completed prior to the end this land use operation.*"

_____ _____

Representative Signature Inspector's Signature

ENVIRONMENTAL INSPECTION REPORT

Inspection Images:

Figure 1
Atlas land tenure map of the Taltson Dam.

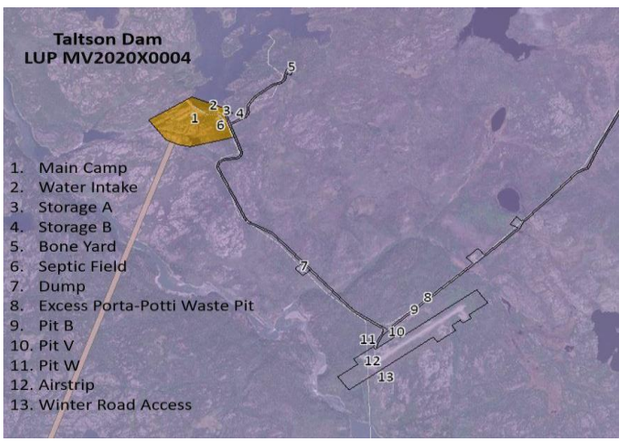

Figure 2
Gravel pad with berm located at the south end of the airstrip.

Figure 3
Waste products in containers at the south end of the airstrip.

Figure 4
Fuel storage shed located at the airstrip.

Figure 5
32 x 45G fuel drums stored inside the fuel shed at the airstrip.

Figure 6
Empty 45G fuel drums along the southeast side of the airstrip.

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Figure 7
Empty 45G fuel drums along the southeast side of the airstrip.

Figure 8
1295L gasoline fuel tank located in the storage and distribution area.

Figure 9
13,600L Diesel fuel tank located in the storage and distribution area.

Figure 10
90,000L Diesel fuel tank located in the storage and distribution area.

Figure 11
3 x 90,000L Diesel fuel tanks located in the storage and distribution area.

Figure 12
Emergency water pump and 25L jerry can in secondary containment.

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Figure 13
Emergency water pump and 25L jerry can without secondary containment located at the head gate.

Figure 14
Overview of the storage and distribution area facing south.

Figure 15
New 500-kilowatt generator located in the storage and distribution area.

Figure 16
Incinerator and existing generator located in the storage and distribution area.

Figure 17
160 Finning grader located in the storage and distribution area.

Figure 18
Drip tray underneath 160 Finning grader.

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Figure 19
938K Cat Loader located in the storage and distribution area.

Figure 20
Metal scaffolding and 1172 cu ft sea can located in the storage and distribution area.

Figure 21
2 large Quonsets located in storage area A.

Figure 22
Northeast corner of Quonset.

Figure 23
Northeast corner of Quonset.

Figure 24
Velmet TD 1612 HS forklift parked in between the 2 Quonsets.

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Figure 25
No drip tray underneath the Velmet TD 1612 HS forklift.

Figure 26
Heavy equipment located in storage B area.

Figure 27
Hydrocarbon staining and full drip tray underneath the AMMANN single drum roller.

Figure 28
No drip tray underneath NTPC dump truck #3081.

Figure 29
Hydrocarbon staining and drip tray underneath NTPC dump truck #3027.

Figure 30
RT780 Terex crane.

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Figure 31
Two sea cans located in storage B area.

Figure 32
Metal and wooden box located in storage B area.

Figure 33
Metal frame in storage B area.

Figure 34
Metal scaffolding in storage B area.

Figure 35
Culverts and pipes located in storage B area.

Figure 36
Enclosed trailer and Freightliner semi-truck located in storage B area.

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Figure 37
No drip tray underneath Freightliner semi-truck.

Figure 38
Metal material and electrical spools located in storage area B.

Figure 39
Open fiberglass insulation in storage B area.

Figure 40
Storage shed and miscellaneous items in the bone yard.

Figure 41
Miscellaneous items are stored along the south tree line of the boneyard.

Figure 42
Miscellaneous items are stored along the south tree line of the boneyard.

Figure 43
Storage shed and miscellaneous items in the boneyard.

Figure 44
Miscellaneous items located in the boneyard.

Figure 45
New generator, concrete mixer, and water pump located in the boneyard.

Figure 46
Miscellaneous items are located along the northwest tree line of the boneyard.

Figure 47
Miscellaneous items located along the northwest tree line of the boneyard.

Figure 48
Miscellaneous items located along the north tree line of the boneyard.

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Figure 49
Miscellaneous items located along the north tree line of the boneyard.

Figure 50
Miscellaneous items located along the north tree line of the boneyard.

Figure 51
Miscellaneous items located along the northeast tree line of the boneyard.

Figure 52
Miscellaneous items located along the northeast tree line of the boneyard.

Figure 53
Old dozer located in the boneyard.

Figure 54
View of the north side of the storage shed in the boneyard.

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Figure 55
Miscellaneous items located in the center of the boneyard.

Figure 56
View of the new gate and electric bear fence around the new camp.

Figure 57
South view of the new water intake shed.

Figure 58
North view of the new water intake shed.

Figure 59
View of septic field connections to the new camp.

Figure 60
View of pipe running down into the septic field from the new camp.

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Figure 61
Overview of the septic field facing west.

Figure 62
Additional sewage lagoon for dumping porta-potti waste.

Figure 63
Additional sewage lagoon for dumping porta-potti waste

Figure 64
Kitchen grease trap waste dumped on berm.

Figure 65
Sea cans and clean metal container located at the entrance of the dump.

Figure 66
Scrap wood piled at the dump.

Figure 67
Incinerator ash pile located at the dump.

Figure 68
Clean metal bin and emergency response spill kit located at the dump.

Figure 69
Old turbine located at the dump.

Figure 70
Old turbine located at the dump.

Figure 71
Signage for organized dumping at the dump.

Figure 72
Bag of domestic garbage located in the general section of the dump.

Figure 73
Pit B facing northeast.

Figure 74
Pit B shows sand berm and spillway access road.

Figure 75
Pit B facing west.

Figure 76
Overgrown contaminated soil containment area in Pit V.

Figure 77
Overgrown contaminated soil containment area in Pit V.

Figure 78
South side of Pit W.

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Figure 79
Manual metal screener and EZ Screen 1000XL located in Pit W.

Figure 80
Pit run stockpile located in the northwest portion of Pit W.

Figure 81
Piled trees along the west side of Pit W.

Figure 82
Piled trees located in the southwest side of Pit W.

Figure 83
Winter road access road entrance.