

Government of Gouvernment des Northwest Territories Territoires du Nord-Ouest

April 11, 2023

Mr. Mark Cliffe-Phillips Executive Director Mackenzie Valley Environmental Impact Review Board Via email: mcliffephillips@reviewboard.ca

Dear Mr. Mark Cliffe-Phillips:

Notice of Preliminary Screening Decision for Pesticide Application Permit - Nahanni Butte.

The Department of Environment and Climate Change (ECC) has completed the preliminary screening of the referenced application (Development) in accordance with its responsibilities under subsection 124(1) and subsection 125(1) of the *Mackenzie Valley Resource Management Act* (MVRMA).

ECC has determined that the proposed Development will not be a cause of public concern and will not have a significant adverse impact on the environment. Therefore, ECC has decided not to refer the proposed Development to environmental assessment. ECC's reasons for decision, as required by section 121 of the MVRMA, are attached for your reference.

Unless the Mackenzie Valley Environmental Impact Review Board, or another party with the authority to do so, refers the proposed Development to an environmental assessment, ECC will proceed with the next stages of issuing the Pesticide Application Permit to Nahanni Butte after the ten-day pause period has expired.

If you have any questions, please do not hesitate to contact Benjamin Elkin, Intern, Environmental Protection at benjamin elkin@gov.nt.ca or (867) 767-9236 Ext. 53191.

Sincerely,

Erika Nyyssonen

Acting Manager, Environmental Protection

Environment and Climate Change

Euha Nyyroner

Attachment

c. Jamie Chambers, Regional Superintendent, Dehcho Region Environment and Climate Change

Shakita Jensen, IRMA Program Coordinator Environment and Climate Change

Curtis Fediuk Duka Environmental Services Ltd.

PRELIMINARY SCREENING REPORT FORM

PRELIMINARY SCREENER: PROPONENT NAME: Nahanni Butte Dene Band Government of the Northwest Territories **Environment and Climate Change PROJECT NAME:** Pesticide Application Permit **Environmental Protection Section PART 1: Type of Development:** New Development (check all that apply) Amendment Renewal Authorization required Does not require an authorization **Project Summary** On behalf of Nahanni Butte Dene Band, Duka Environmental Services Ltd. will conduct mosquito control by larvicide means. For the larvicide application, they will be using a helicopter mounted granule dispensing bucket with motor operated disc gates to disperse the larvicide. For ground-based applications, they will be completed by hand broadcast or backpack applicator equipment. They will undertake this work throughout Nahanni Butte, NT. All work will be performed by trained and certified contractors. Scope Perform mosquito control using larvicides to suppress local mosquito populations and subsequent mosquito populations and related potential nuisance/annoyance. The presence of mosquitos can cause annoyance and possibly mosquito-borne diseases, so the suppression is for the benefit of residents, workers, and visitors. All mosquito control measures using larvicides will be in accordance with the Pesticide Act and Pesticide Regulations. Type of ECC Authorization (check the authorization that applies) Forest Management Agreements Timber Cutting Permit (>5000m³ burned wood or > 1100 m³ of other timber) Timber Cutting Licence Mill Licence

Burning Permits (area > 25m³)

Harvest of Wildlife for a Commercial Purpose

Pesticide Application Permit

Wildlife Business Licence

Commercial Wildlife Licence Game Farm Licence Wildlife Management Permit General Wildlife Permit Licence to Capture Wildlife Licence to Capture Gyrfalcons for Commercial Licence to Import Live Wildlife Licence to Export Live Wildlife Licence to a Reindeer Owner for Grazing Allot	
Protected Area Land Withdrawal Territorial Park	
☐ Non-Application ☐ Other	
Principal Activities (check all that apply)	
Construction Explora Decommissioning Installa Abandonment Mainter Expansion Harvestin Operation Camp Repair Scientific Linear / Corridor Municipa Other: Mosquito control for Nahanni E	tion
Principal Development Components:	
Abandonment/removal Access Road Automobile, Aircraft or Vessel Movement Blasting Borehole core sampling Building Bulk soil sampling gravel hydrological testing site restoration fertilization grubbing planting/seeding reforestation scarify spraying	☐ Disposal of hazardous waste ☐ Disposal of sewage ☐ Ditch Construction ☐ Drainage Alteration ☐ Drilling other than Geoscientific ☐ Ecological Surveys ☐ Excavation ☐ Explosive Storage ☐ Fuel Storage ☐ Geoscientific sampling ☐ Modification e.g., widening, straightening ☐ Sewage ☐ Slashing and removal of vegetation ☐ Soil Testing ☐ Stream Crossing/Bridging ☐ Waste management

recontouring Burning Burying Channeling Construction Cut and Fill Cutting of Trees or Removal of Vegetat Construction Modification Modification	Waste generation Topsoil, Overburden or Soil disposal fill removal storage Trenching Tunneling/Underground Other (describe):
<u>PART 2:</u>	
NTS Topographic Map Sheet Numbers Nahanni Butte – 095G03	(List all that apply)
NTS Map Sheet #s:	
Latitude / Longitude and UTM System: Nahanni Butte 61.030946, -123.345150	
Nearest Community and Water Body: Located on the Designated Authority of Na The South Nahanni River and the Liard R are within 5km.	ahanni Butte River are within 5km. Several Smaller unnamed bodies of water
Land Status	
☐ Free Hold / Private ☑ Commissioners Land ☑ Territorial Land	Federal Crown Land Municipal Land
Transboundary Implications	
☐ British Columbia ☐ Manitoba ☐ Wood Buffalo National Park	☐ Alberta ☐ Saskatchewan ☐ Nunavut ☐ Yukon ☐ Inuvialuit Settlement Region
Type of Transboundary Implication:	
☐ Impact / Effect	Development Public Concern:
Describe:	

PART 3:

PHYSICAL - CHEMICAL EFF	ECTS MITIGATION	CONDITION
1. Ground Water		
water table alteration		
water quality changes		
infiltration changes		
other		
⊠ N/A	No ground water impacts are expected. The larvicide does a contaminate untreated areas or transport the spores through the sor water. The larvicide is a naturally occurring spore-forming bacterium which only targets larvae of mosquitoes, black flies, a related flies, not causing harm to non-target organism populations.	oil ing
IMPACT	MITIGATION	CONDITION
2. Surface Water		
flow or level changes		
water quality changes		
water quantity changes		
drainage pattern changes		
temperature		
wetland changes /loss		
☑ other:	Some surface water impacts are expected. The larvicide will run-off into the surface water in order to target the mosquitos. The larvicid is a naturally occurring spore-forming bacterium which only targets larvae of mosquitoes, black flies, and related flies, not causing harm to non-target organism populations. Risk of spray drift is mitigated by using proper spray techniques, low-risk larvicides, establishing and working within buffer zones in accordance with legislation, and only spraying in suitable weather conditions.	e I
□ N/A		

IMPACT	MITIGATION	CONDITION
3. Noise		
noise in/near water		
☑ other: noise increase	Some noise impacts are expected based on the proposed activities. Spraying of larvicides from a helicopter will last less than 8 days and will be localized above the spraying zones.	
□ N/A		
IMPACT	MITIGATION	CONDITION
4. Land		
geologic structure changes		
soil contamination		
buffer zone loss		
soil compaction & settling		
Destabilization/erosion		
permafrost regime alteration		
⊠ other:	Some land impacts are expected based on the proposed activities. The larvicide persists in the soil in the form of spores which biodegrade quickly from direct sunlight. Repeated application of the larvicide does not result in accumulation of the bacteria in the soil. The larvicide is a naturally occurring spore-forming bacterium which only targets larvae of mosquitoes, black flies, and related flies, not causing harm to non-target organism populations. Risk of spray drift is mitigated by using proper spray techniques, low-risk larvicides, establishing and working within buffer zones in accordance with legislation, and only spraying in suitable weather conditions.	
□ N/A		
IMPACT	MITIGATION	CONDITION
	MITIGATION	CONDITION
5. Non-Renewable Resources		
resource depletion		
other:		
⊠ N/A	No impacts are expected based on the proposed development or associated activities.	

IMPACT	MITIGATION	CONDITION
6. Air/Climate/Atmosphere		
☑ other	Some air impacts are expected based on the proposed development or associated activates. The larvicide is partially applied via helicopter using helicopter granule application equipment. Risk of spray drift is mitigated by using proper spray techniques, low-risk larvicides, establishing and working within buffer zones in accordance with legislation, and only spraying in suitable weather conditions. Public access will also be restricted during and after the spraying.	
□ N/A		
BIOLOGICAL ENVIRONMENT		
IMPACT	MITIGATION	CONDITION
7. Vegetation		
species composition		
species introduction		
toxic/heavy accumulation		
other:		
⊠ N/A	No impacts are expected based on the proposed development or associated activities. The larvicide is a naturally occurring spore-forming bacterium which only targets larvae of mosquitoes, black flies, and related flies, not causing harm to non-target organism populations.	
IMPACT	MITIGATION	CONDITION
8. Wildlife & Fish		
effects on rare, threatened or endangered species		
fish population changes		
waterfowl population changes		
breeding disturbance		
population reduction		
species diversity change		
health changes		

behavioural changes		
habitat changes / effects		
game species effects		
toxins / heavy metals		
forestry changes		
agricultural changes		
other:		
⊠ N/A	No impacts are expected based on the proposed development or associated activities. The larvicide is a naturally occurring spore-forming bacterium which only targets larvae of mosquitoes, black flies, and related flies, not causing harm to non-target organism populations.	
INTERACTING ENVIRONMENT		
IMPACT	MITIGATION	CONDITION
9. Habitat &Communities		
predator-prey		
wildlife habitat/ecosystem		
composition changes		
keystone/endangered species		
wildlife corridor/buffer zone		
other:		
⊠ N/A	No impacts are expected based on the proposed development or associated activities.	ť

IMPACT	MITIGATION	CONDITION
10. Social and Economic		
planning / zoning changes or conflicts		
increase in urban facilities or services use		
rental house		
airport operations / capacity changes		
human health hazard		
impair the recreational use of water or aesthetic quality		
affect water use for other purposes		
affect other land use operations		
quality of life changes		
public concern		
⊠ other:	A decrease in mosquito population is expected based on the proposed development or associated activities. The permit holder will be required to post signs warning workers and the public that pesticide spraying is taking place in the area. Public access will also be restricted during and after the spraying.	!
□ N/A		
IMPACT	MITIGATION	CONDITION
11. Cultural and Heritage		
\square affects to historic property		
increased economic pressure on historic properties		
change to or loss of historic resources		
change to or loss of archaeological resources		

increased pressure on archaeological sites

change to or loss of aesthetically important site		
affects to aboriginal lifestyle		
other:		
⊠ N/A	No impacts are expected based on the proposed development or associated activities.	
PART 4: PRELIMINARY SO	REENER / Distribution List	
Grand Chief Herb Norwegian	Dehcho First Nations	
Chief Steve Vital	Nahanni Butte Dene Band	
Shelagh Montgomery Executive Director	Mackenzie Valley Land and Water Board	
Mark Cliffe-Phillips Executive Director	Mackenzie Valley Environmental Impact Review Board	
Jamie Chambers Superintendent	Environment and Climate Change	
Shane Seaman Assistant Fire Marshal	Municipal and Community Affairs	
Rick Walbourne Manager, Water Resources	Environment and Climate Change	
Maggie Collins Manager, Communications	Workers' Safety and Compensation Commission	
Shakita Jensen IRMA Program Coordinator	Environment and Climate Change	

Department of Fisheries and Oceans Canada

Environment and Climate Change Canada

Central Mail

Central Email

<u> Part 5:</u>

PRELIMINARY SCREENING COMMENTS

Table 1. Preliminary Screening comments for the proposed Pesticide Application Permit

Organization	Impact/Concern	Mitigation
No concerns expressed to ECC.		

REASONS FOR DECISION

(LIST REASONS AND SUPPORTING RATIONALE FOR PRELIMINARY SCREENING DECISION)

DECISION:

The Department of Environment and Climate Change (ECC) is satisfied that the preliminary screening of application for a Pesticide Application Permit by the Nahanni Butte Dene Band for mosquito control in Nahanni Butte in the Dehcho Region has been completed in accordance with Section 125 of the *Mackenzie Valley Resource Management Act*.

ECC is satisfied that a reasonable period of notice (21 days) was given to Communities and Indigenous Governments affected by the application as required by Subsection 63(2) of the MVRMA so that they could provide comments to ECC.

Having reviewed all relevant information in the application, including the submissions of the Applicant, and the absence of any written comments, ECC has decided that in its opinion that:

- there is no likelihood that the proposed development might have a significant adverse impact on the environment; and
- there is no likelihood that the proposed development might be a cause of public concern.

ECC is also of the opinion that the application can proceed through the regulatory process and that any impacts of the development on the environment can be mitigated through the imposition of the terms and conditions in the Pesticide Application Permit.

As a result, ECC, having due regard to the facts and circumstances, the merits of the submissions made to it, and to the purpose, scope and intent of the *Mackenzie Valley Resource Management Act* and the Mackenzie Valley Land Use Regulations has decided that this Pesticide Application Permit be issued subject to the terms and conditions contained therein.

2	PRELIMINARY SCREENING DECISION
	Outside Local Government Boundaries
	The development proposal might have a significant adverse impact on the environment, refer it to the Mackenzie Valley Environmental Impact Review Board (Review Board).
\boxtimes	Proceed with regulatory process and/or implementation.
	The development proposal might have public concern, refer it to the Review Board.
\boxtimes	Proceed with regulatory process and/or implementation.
	Wholly within Local Government Boundaries
	The development proposal is likely to have a significant adverse impact on air, water or renewable resources, <i>refer it to the Review Board</i> .
\boxtimes	Proceed with regulatory process and/or implementation.
	The development proposal might have public concern, <i>refer it to the Review Board</i> .
\boxtimes	Proceed with regulatory process and/or implementation.

Preliminary Screening Organization	Signatures	
Department of Environment and Climate Change	Griha Ny	moner