

Mackenzie Valley Land and Water Board 7th Floor - 4910 50th Avenue P.O. Box 2130 YELLOWKNIFE NT X1A 2P6 Phone (867) 669-0506 FAX (867) 873-6610

	FILE	E NUME	BER: <u>MV20</u>	10C0015
Date:	July 23, 2010			
To:	Mr. Corey Segboer			
Organization:	Aurora Geosciences Ltd.			
Fax Number:	(867) 920-2739 Vern Christensen, Executive Director Marty Sanderson, A/District Manage	or, MEVI	RB Mackania F	Notwick INIAC
Copied To:	Robert Jenkins, Water Resources D	ivision,	INAC INAC	
From:	Amanda for Willard Hagen, Chair			
Number of pages incl	uding cover		_13	
Remarks:				
Re: TNR Gold Corp., Re	effered	$\boxtimes$	Enclosures	<b>.</b>
If you have any que (867) 669-0506 or e	stions please contact our office a mail permits@mvlwb.com.	ıt 🖂	As request	
Thanks,			For your in	formation
	RECEIVED JUL 23 2010 MAGNETE VALLE		For your co	mment
	Man 23 2010		For your ap	proval
	BANKE WALL	<u>Deli</u>	vered by	<u>Date</u>
	BOARD		Courier	
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			Sent by	AG

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## Mackenzie Valley Land and Water Board

7th Floor - 4910 50th Avenue • P.O. Box 2130 YELLOWKNIFE, NT X1A 2P6 Phone (867) 669-0506 - FAX (867) 873-6610

July 22, 2010

File: MV2010C0015

Mr. Corey Seaboer Aurora Geosciences Ltd. 3506 McDonald Drive YELLOWKNIFE NT X1A 2H1

Fax: (867) 920-2739

Dear Mr. Segboer:

## TNR Gold Corp., MV2010C0015 referred Mineral Exploration, Moose Property, NT

The Mackenzie Valley Land and Water Board (MVLWB) met on July 22, 2010 to review the application. The decision was made to refer this application to the Mackenzie Valley Environmental Impact Review Board for an environmental assessment pursuant to subsection 125(1) of the Mackenzie Valley Resource Management Act. The Reasons for Decision and the Preliminary Screening Report are attached for your information.

If you have any questions or concerns, please telephone (867) 669-0506 or email <u>permits@mvlwb.com.</u>

Yours sincerely

Willard Hagen

Chair

Copied to: Vern Christensen, Executive Director, Mackenzie Valley

**Environmental Impact Review Board** 

Marty Sanderson, A/District Manager, South Mackenzie District,

INAC

Robert Jenkins, Water Resources Division, INAC Shannon Hayden, Regulatory Officer, MVLWB

Attachment



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YELLOWKNIFE NT X1A 2P6
Phone (867) 669-0506
FAX (867) 873-6610

#### **REASONS FOR DECISION**

Preliminary Screener:	MVLWB
Reference/File Number:	MV2010C0015
Applicant:	TNR Gold Corp.
Project:	Mineral Exploration, Moose Property, NT

# DECISION from Mackenzie Valley Land and Water Board (the Board) Panel Meeting of

July 22, 2010

#### **Reasons for Decision**

Referred to the Mackenzie Valley Environmental Impact Review Board for an Environmental Assessment pursuant to paragraph125(1)(b) of the Mackenzie Valley Resource Management Act (MVRMA)

### Application:

- June 17, 2010 application to the Board pursuant to section 6 of the Northwest Territories Waters Act (NWTWA);
- June 18, 2010 the Board accepted the application as complete;
- June 18, 2010 notice was given in accordance with sections 63 and 64 of the MVRMA and section 23 of the NWTWA;
- July 12, 2010 comments due from reviewers; and
- There was no public hearing held in association with these applications.

## Reasons for the MVLWB preliminary screening decision

After the Board's review of the comments made by reviewers of the application, it was noted that issues of environmental and especially public concern were raised. A number of First Nation organizations provided evidence for their concern over the impacts to the environment including cumulative effects and impacts on their harvesting activities. More explicitly, the First Nations expressed their concerns that the project may cause significant impacts to their traditional rights and interests, as well as the cultural, heritage, and archaeological resources in the area. Further comment and explanation can be found in the Preliminary Screening.

TNR Gold Corp.

#### Conclusion

The Board, having due regard to the facts and circumstances, the merits of the submission made to it, and to the purpose, scope, and intent of the MVRMA and the NWTWA and Regulations has determined that MV2010C0015 will be referred to the Mackenzie Valley Environmental Impact Review Board because of significant public concern that the project might impact traditional land use activities, archaeological and heritage resources, as well as environmental resources in the context of harvesting and cumulative impacts.

The Board's reasons for this decision are as follows:

 It is the opinion of the Board that an environmental assessment is required to adequately assess the potential impacts regarding the operations proposed under Land Use Permit MV2010C0015

SIGNATUR	Ε
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Mackenzie Valley Land and Water Board Preliminary Screening Organization

Chair

July 22, 2010

Date

## Preliminary Screening Report Form

Preliminary screener: MVLV	VB	EIRB		7
Reference / File number: MV2010C0015	,	Reference	`	ŀ
TITLE: Exploration Activities,	, Moose Property, NT	number:		
Organization: TNR Gold Cor				]]
Meeting date: July 22, 2010				
				J.
Turns of Davidson and				<u>ك</u>
Type of Development: (CHECK ALL THAT APPLY)	⊠ New □ Amend ⊠ Requir	t, EIRB Ref. #		-
·	⊠ Requir	es permit, licence, or au	uthorization	
Project Summary	☐ Does r	ot require permit, licend	se, or authorization	
Project activities include:		•	•	
	g 2 sleep tents, combination cook/Fi	rst Aid tent, kitchen, dry	r, core shack, outhouse, generator shac	k and fue
<ul><li>cache;</li><li>ground geophysical survey</li></ul>			,/men, escisosof gondicido of idal	K 10110 (00
<ul> <li>prospecting;</li> </ul>				
<ul> <li>trench and channel sampling</li> <li>land-based drilling; and</li> </ul>	ng:			
<ul> <li>possible lake-based drilling</li> </ul>	<b>.</b>	. · · ·		
_		•		
be transported via barge or float	approximately 115 km southeast of Y plane from Yellowknife in the summ	'ellowknife on the north er and ice road or ski si	shore of Great Slave Lake, NT. Equipm lane in the winter. Equipment will include	ent will
· monoopion,		of alle to togo of ski bi	ene in the winter. Equiphrent will incition	<b>e</b> ;
<ul><li>diamond drill;</li><li>2 water pumps;</li></ul>				
<ul> <li>2 generators (gas and diese</li> </ul>	el);			
<ul><li>tin boat;</li><li>skidoo;</li></ul>				
<ul> <li>core saw; and</li> </ul>				
<ul> <li>rubber track vehicle.</li> </ul>				
Fuel storage will include:				
<ul> <li>8,200 L of diesel;</li> <li>820 L of gasoline;</li> </ul>		•		
<ul> <li>4,100 L Jet A aviation fuel;</li> </ul>				
<ul> <li>450 kg of propane; and</li> </ul>	- 11			
<ul> <li>48 L of engine oil/lubrication</li> </ul>				
This project will be carried out as	both a winter and summer program	for approximately 6-8 m	nonths each year (February through	. •
optomonj. Additorjaj work will	be dependent on the results of the w	ork carried out in 2010.		
Scope				
Mineral exploration activities inclu	iding camp construction, fuel caching	a, surveying, sampling.	and drilling between:	
_atitude 62"10'02" N and 62"12'3	9" N and Longitude 112 10 10" W a	nd 112'11'59" W.		
and Use Eligibility - Section 18 A	Mackenzie Valley Land Use Regulation	ons		
a(i)				
Type of Disposition	Disposition Number(s)	•		
☑ Mineral Claims	K00200, K00201, K200202, F7112	1 and \$71100		
Prospecting Permit (s) Mineral Leases		, BING ( / 1 ) ZZ		
Oll and Gas: EL/SDL/PL				
Quarry Permit Timber Permit				
Other:				
rincipal Activities (related to se CHECK ALL THAT APPLY)	coping)			
Construction	☑ Exploration		<b>7</b> Daggerminaianian	
Installation	🔯 Industrial		☑Decommissioning ☑ Abandonment	
Maintenance Expansion	☐ Recreation ☐ Municipal		Aerial	
Operation	☐ Quarry		] Harvesting ¶Camp	
		_	•	

MV2010C0015 - TNR Gold Corp., Moose Property, NT

☐ Repair ☐ Research ☑ Water Intake ☐ Other:		⊠ Linear / Co ⊠ Sewage	rridor	□Sclenti ⊠ Solld V	fic/ Vaste	
Principal Development Co	imponents (related to s	coping)			· ·	
□ Access Road     □ construction     □ abandonment/ren     □ modification e.g.,     □ Automobile, Alreraft or Vi     □ Blasting     □ Burling     □ Burning     □ Channelling     □ Cut and Fill     □ Cutting of Trees or Remo     □ barns and Impoundments     □ construction     □ abandonment/rem     □ modification     □ Ditch Construction     □ Drainage Alteration     □ Drainage Alteration     □ Drilling other than Geosci	noval widening, straightening essel Movement essel of Vegetation s				al of hazardous waste generation electrical of sewage impling impling glical Testing is seeding atton	
☐ Ecological Surveys ☐ Excavation ☐ Explosive Storage ☒ Fuel Storage ☒ Topsoll, Overburden or So ☐ fill ☐ disposal ☒ removal ☐ storage			<b>V</b>	☐ spraying ☐ re-contol ☐ re-contol ☐ Slashing and remo ☐ Soil Testing ☐ Stream Crossing/E ☐ Tunnelling/Underg ☐ Other:	uring oval of vegetation Bridging	
NTS topographic map sheet 851/01 Latitude / longitude and UTI Latitude: 62°10'02" N to 62°12 Longitude: 112°10'10" W to 1 NAD83	W system: 2'39" N					
Nearest community and wat Yellowknife and Lutselk'e, Gre	at Slave Lake					
Land Status (consultation in	formation)					
Free Hold/Private	Commissioners Lar	nd	☑ Federal C	rown Land	☐ Municipal Lan	ıđ
Transboundary/Transregion:	i implications					
☐ British Columbla ☐ Nunavut ☐ Wek'èezhil	☐ Alberta ☐ Wood Buffalo Nation ☐ Gwich'in	nai Park	☐ Sasketche ☐ Inuvialuit : ☐ Sahtu	ewan Settlement Region	☐ Yukon ☐ Nahanni Natlo ☐ Outside Mana	
Type of transboundary impli	cation: 🔲 impa	act / Effect	□ De	evelopment		
Public concern: Describe.)						
Physical - Chemical Effects						
mpact ) Ground Water	Mitigation					Location of condition
🛚 water table alteration	Drill hole will be the operation pro	plugged and ogresses, espe	sealed at the	completion of drilling g water is encountere	g and as	Congration
3 water quality changes	Sumps will be us All sumps will be	sed for deposit required to be	ting grey water e 100 meters	r, rig wash, and drill co from the high water meated through a diffe	uttings.	

23-Jul-2010 09:54am

From-MVLWB

T-651 P.006/013 F-883

Potential impacts to surface water are associated with equipment use, onsite fuel storage, and the transportation of excavated contaminated soils and waste materials for disposal at an approved facility. Fuel storage areas will be at least 100 meters from the high water mark and large containers will be dyked. Petroleum products are not allowed to be spread to the surrounding lands.

The potential ground water quality impacts are mitigated through land use permit conditions and will be addressed in the Spill Contingency Plan. There is a Spill Contingency Plan in place with NWT 24-Hour Spill Report Line to be contacted at (867) 920-8130. This plan will be updated prior to commencement of operations, Spill kits will be available.

	• • • • • • • • • • • • • • • • • • • •	
☐ Inflitration changes		•
other:		
□ N/A		
Impact 2) Surface Water	Mitigation	Lecation of condition
☐ flow or level changes		
☑ water quality changes	Sumps will be used for depositing grey water, rig wash, and drill cuttings. All sumps will be required to be 100 meters from the high water mark with a 1 meter freeboard. Drill cuttings will be treated through a riffle system before final deposit and drill waste will not be allowed to spread to the surrounding lands.	
	Potential impacts to surface water are associated with equipment use, on- site fuel storage, and the transportation of excavated contaminated soils and waste materials for disposal at an approved facility. Fuel storage areas will be at least 100 meters from the high water mark and large containers will be dyked. Petroleum products are not allowed to be spread to the surrounding lands.	
	Materials and cuttings will not be allowed to accumulate on ice surface or enter any water body. Any materials that may freeze and accumulate on the ice surface should be chipped and removed to the camp for proper disposal.	
	The potential surface water quality impacts are mitigated through land use permit conditions and will be addressed in the Spill Contingency Plan. There is a Spill Contingency Plan in place with NWT 24-Hour Spill Report Line to be contacted at (867) 920-8130. This plan will be updated prior to commencement of operations. Spill kits will be available.	
water quantity changes	No Mitigation - maximum water use will be 8,640 gallons (approximately 32 m³) per day from Great Slave Lake. DFO recommends the use of Great Slave Lake as a water source as it is exempt from the DFO Protocol for Winter Water Withdrawal from Ice-covered Waterbodies in the Northwest Territories and Nunavut (June 2010) due to its quantity of available water.	
drainage pattern changes		
☐ temperature		
wetland changes/loss		
☐ other:		
□ N/A		
Impact 3) Noise	Mitigation	Location of condition
☑ noise in/near water	No Mitigation - Noise in and near water will temporarily increase as a result	

of drilling on ice.

No Mitigation - There will be some emissions from vehicles and other

equipment. This will be minimal, short term, and reversible.

Other:

□ N/A

condition

Biological Environment		
Impact 1) Vegetation	Mitigation	Location of condition
species composition		
species introduction		
toxin/heavy accumulation		
ather:		
⊠ N/A		
Impact 2) Wildlife and Fish	Mitigation	Location of
feets on rare, threatened or endangered species		condition
☑ fish population changes	The Permittee shall construct and maintain the water intake using the DFO recommended 2.54 millimetre fine mesh size to prevent entrainment of fish. Other dimensions must follow DFO's "Freshwater Intake End-of-Pipe Fish Screen Guidelines".	
waterfowl population changes		•
☑ breeding disturbance	No Mitigation - short duration as a result of increased human activity and noise in the vicinity. If active nests of migratory birds are discovered, the proponent must minimize all activities until nesting is completed.	
population reduction		
species diversity change		
☐ health changes		
☑ behavioural changes	Proper food handling and garbage disposal procedures that do not attract wildlife are required.	
	Minimize damage - short duration and no permanent infrastructure.	
game species effects		
☑ toxins/ heavy metals	Potential impacts to fish habitat are associated with equipment use, on-site fuel storage, and the transportation of excavated contaminated soils and waste materials for disposal at an approved, licenced facility. The potential impacts are mitigated through land use permit conditions and are addressed in the Spill Contingency Plan.	
forestry changes		
agricultural changes		
other:		
□ N/A		
Interacting Environment		
Impact  1) Habitat and Communities	Mitigation	Location of condition
predator-prey		
□ wildlife habitat/ecosystem composition changes		
reduction/removal of keystone or endangered		

Staff has suggested that TNR Gold Corp. contact the NWT Mining

Heritage Society to investigate the historic mining site and associated

This area is also a significant cultural and heritage site of the Akaitcho Dene First Nations. This operation could impact modern harvesting activity as well as historic sites and other archaeological and heritage

resources.

Change to or loss of historic

resources

change to or loss of archaeological resources

According to the Northwest Territories Archaeological Sites Regulations, an "archaeological artifact" means any tangible evidence of human activity that is more than 50 years old, in respect of which an unbroken chain of possession cannot be demonstrated. Staff has suggested that TNR Gold Corp. contact the NWT Mining Heritage Society to investigate the historic mining site and remains.

This area is also a significant cultural and heritage site of the Akaitcho Dene First Nations. This operation could impact modern harvesting activity as well as historic sites and other archaeological and heritage resources,

increased pressure on archaeological sites

Should any sites be identified in the project area, TNR Gold shall take all steps necessary to investigate and ensure they remain undisturbed. TNR Gold has also offered to take in an archaeologist and an ADFN representative to do a site inspection and archaeological study at the start of the exploration program.

change to or loss of aesthetically important sites

No mitigation Identified – Project may have impacts on First Nations traditional use. The area is part of an important travel corridor linking the Akaitcho Dene communities, it is an active harvesting area, and may contain evidence of historic land use associated with traditional uses, nearby historic villages, and grave sites. Several First Nation communities are concerned that this project will impact archaeological and heritage resources as well as environmental resources in the context of harvesting and cumulative impacts.

☑ effects to aborlginal lifestyle

No mitigation identified — Project may have impacts on First Nations traditional use. The area is part of an important travel corridor linking the Akaltoho Dene communities, it is an active harvesting area, and may contain evidence of historic land use associated with traditional uses, nearby historic villages, and grave sites, Several First Nation communities are concerned that this project will impact archaeological and heritage resources as well as environmental resources in the context of hervesting and cumulative impacts.

☐ other:	
□ N/A	

#### Notes:

#### Consultation

- Pursuant to section 27, paragraphs (a) and (b) of the Deh Cho First Nations (DCFN) Interim Measures
  Agreement, the MVLWB has determined that written notice was given to the DCFN, and that a reasonable period
  of time was allowed for DCFN to make representations with respect to the application.
- Pursuant to subsection 1.6, paragraphs (a) and (b) of the Akaltcho Territory Dene First Nations (ATDFN) Interim
  Measures Agreement, the MVLWB has determined that written notice was given to the ATDFN, and that a
  reasonable period of time was allowed for ATDFN to make representations with respect to the Application.
- Pursuant to Schedule 4.1 of the Northwest Territory Métis Nation (NWTMN) Interim Measures Agreement, the MVLWB has determined that written notice was given to the NWTMN, and that a reasonable period of time was allowed for NWTMN to make representations with respect to the application.

## Preliminary Screener / Referring Body information

/	\bor	iginal	Organ	Izat	lon	18

## Communities

Deninoo Community Council	776178974107410
City of Yellowknife	
Town of Fort Smith	····

#### Government - GNWT

GNWT - PWNHC
GNWT - ENR
Gnwt ea@gov.nt.ca
GNWT - HEALTH
GNWT - MACA
WCSS
GNWT – ITI
GNWT – DOT

#### Government - Federal

(Middle and a second and a second a sec
South Mackenzie District Office - INAC
Head, Regulatory and Science Advice
Section - Water Resources - INAC
Mineral & Petroleum Resources Directorate
- INAC
Manager/Aboriginal and Territorial Relations
Environment and Conservation - INAC
Intergovernmental Affairs - INAC
Environment Canada
DFO
The state of the s

#### Others

	TTM: W. D. (44)
Barrenground Caribou	Outfitters
MVEIRB	PPPHARICAL TO THE PROPERTY OF
Blachford Lake Lodge	

## Reasons for Decision (List all reasons and supporting rationales for preliminary screening decision)

#### Decision

The Mackenzie Valley Land and Water Board (the Board) is satisfied that the preliminary screening of Application MV2010C0015, TNR Gold Corp., Exploration Activity has been completed in accordance with section 125 of the Mackenzie Valley Resource Management Act

The Board is satisfied that a reasonable period of notice was given to communities and First Nations affected by the application as required by subsection 63(2) of the MVRMA so that they could provide comments to the Board.

Having reviewed all relevant evidence on the Public Registry, including the submissions of the Applicant, the written comments received by the Board and any Staff Reports prepared for the Board, the Board has decided that:

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

	Preliminary Screening Decision	
- ⊠	Outside Local Government Boundaries	
	The development proposal might have a significant adverse impact on the environment, refer it to the EIRB.	
Ø	Proceed with regulatory process and/or implementation.	
×	The development proposal might have public concern, refer it to the EIRB.	
	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, refer it to the EIRB.	
	Proceed with regulatory process and/or implementation.	
	The development proposal might have public concern, refer it to the EIRB.	
	Proceed with regulatory process and/or implementation.	
	creening Organization Signatures	