





Public Registry

pa \$F den-a-5'l' bnl>'/nunavut impact review board/nunavutmi kanogilivalianikot elittohaiyeoplotik katimayiit

February 16, 2001

To:

Rita Becker

Licensing Administrator Nunavut Water Board Gjoa Haven, NU

Re: Renewal of Water Licence Meliadine

NIRB: 01WR005

NWB: NWB2MEL01-

Enclosed is the completed NIRB Screening Decision Report on a water licence renewal to conduct mineral exploration and diamond drilling at Meliadine Lake in the Kivalliq.

NIRB has screened this application for ecosystemic and socio-economic impacts of the proposal.

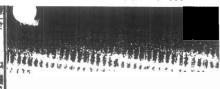
NIRB's indication to the Minister is: 12.4.4 (a) the proposal may be processed without a review under Part 5 or 6; NIRB may recommend specific terms and conditions to be attached to any approval, reflecting the primary objectives set out in Section 12.2.5;

Please contact me at (867) 983-2593 if you have any questions about the Screening Decision Report.

Yours truly,

Environmental Assessment Officer





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SCREENING DECISION

Date: February 16, 2001

Mr. Thomas Kudloo Chairperson, Nunavut Water Board Gjoa Haven, NT

Dear Mr. Kudlon:

RE: Screening Decision of the Nunavut Impact Review Board (NIRB) on Application:
NIRB 01WR005 NWB NWB2MEL01-Renewal of Water Licence for Meliadine – WMC International Limited

Authority:

Section 12.4.4 of the Nunavut Land Claim Agreement states:

Upon receipt of a project proposal, NIRB shall screen the proposal and indicate to the Minister in writing that:

- a) the proposal may be processed without a review under Part 5 or 6; NIRB may recommend specific terms and conditions to be attached to any approval, reflecting the primary objectives set out in Section 12.2.5;
- b) the proposal requires review under Part 5 or 6; NIRB shall identify particular issues or concerns which should be considered in such a review;
- c) the proposal is insufficiently developed to permit proper screening, and should be returned to the proponent for clarification; or
- d) the potential adverse impacts of the proposal are so unacceptable that it should be modified or abandoned.

Primary Objectives:

The primary objectives of the Nunavut Land Claims Agreement are set out in section 12.2.5 of the Land Claims Agreement. This section reads:

In carrying out its functions, the primary objectives of NIRB shall be at all times to protect and promote the existing and future well-being of the residents and communities of the Nunavut Settlement Area, and to protect the ecosystemic integrity of the Nunavut Settlement Area. NIRB shall take into account the well-being of the residents of Canada outside the Nunavut Settlement Area.

The decision of the Board in this case is 12.4.4 (a) the proposal may be processed without a review under Part 5 or 6; NIRB may recommend specific terms and conditions to be attached to any approval, reflecting the primary objectives set out in Section 12.2.5;

Reasons for Decision:

NIRB's decision is based on specific considerations that reflect the primary objectives of the Land Claims Agreement. Our considerations in making this decision included:

- the impact of drilling activities on the ecosystem;
- disposal of drill cuttings and waste water;
- impact to water quality, aquatic habitat and wildlife and fish populations from chemicals, drill waste, drill fluids and potential fuel spills;
- storage and disposal of chemicals, fuel, garbage, sewage, and gray water, and impact of these
 on the ecosystem;
- the impact of noise from drilling activities and their disturbance to wildlife and traditional users of area;
- the impact of campsite and equipment on terrain;
- the impact of exploration activities on archaeological sites or cultural landmarks in the area;
 and
- clean up/restoration of the camp site and drilling locations upon abandonment.

Terms and Conditions:

That the terms and conditions attached to this screening report will apply.

Drill Sites

- The Licensee shall not conduct any land based drilling within thirty (30) metres of the normal high water mark of a water body.
- The Licensee shall conduct any the lake-based winter drilling, in accordance with the Interim Guidelines for On-Ice drilling.
- The Licensee shall ensure that all drill cuttings are removed from ice surfaces.
- The Licensee shall not use drilling muds or additives in connection with drill holes unless
 they are recirculated or contained such that they do not enter the water, or are certified to be
 non-toxic.
- 5. The Licensee shall ensure that the release of total suspended solids in the receiving environment shall be in compliance with Guidelines for Total Suspended Solids contained in the Canadian Council of Ministers for the Environment's (CCME) Canadian Water Quality Guidelines, Chapter 3 Freshwater Aquatic Life (i.e. 10mg/L for lakes with background level under 100mg/L, or 10% for those above 100mg/L).
- The Licensee shall ensure that any drill cuttings and waste water that cannot be recirculated be disposed of in a properly constructed sump or an appropriate natural depression that does not drain into a waterbody.
- The Licensee shall ensure that drilling wastes do not enter any water body. The use of biodegradable, salt free drill additives is encouraged over non-biodegradable types.
- The Licensee shall ensure that the sump/depression capacity is sufficient to accommodate
 the volume of waste water and any fines that are produced so that there will be no
 additional impacts.

- The Licensee shall not locate any sump within thirty (30) metres of the normal high water mark of any water body.
- The Licensee shall ensure that disturbance of vegetation from deposit of drill fluids/cuttings
 is restricted to the area of the sump and the ground prepared for revegetation upon
 abandonment.
- 11. The Licensee shall not use mechanized clearing within 30 meters of the normal high water mark of a watercourse in order to maintain a vegetative mat for bank stabilization.
- 12. The Licensee shall, where flowing water from bore holes is encountered, plug, the bore hole in such a manner as to permanently prevent any further outflow of water. The occurrence shall be reported to the Nunavut Water Board and Land Use Inspector within 48 hours.

Water

13. The Licensee shall ensure that all water intake hoses are equipped with a screen with an appropriate mesh size to ensure that there is no entrapment of fish.

Fuel and Chemical Storage

- 14. The Licensee shall ensure that fuel storage containers are not located within thirty-one (31) metres of the ordinary high water mark of any body of water.
- 15. The Licensee shall ensure that any chemicals, fuels or wastes associated with the project do not spread to the surrounding lands or enter into any water body.
- The Licensee shall construct an impermeable dyke around each stationary fuel container or group of stationary fuel containers where one container has the capacity exceeding 4,000 litres
- 17. The Licensee shall take all reasonable precautions to prevent the possibility of migration of spilled petroleum fuel or chemicals over the ground surface.
- 18. The Licensee shall have one extra fuel storage container on site equal to, or greater than, the size of the largest fuel container.
- The Licensee shall examine all fuel and chemical storage containers daily for leaks. All leaks should be prepared immediately.
- 20. The Licensee shall seal all container outlets except the outlet currently in use.
- 21. The Licensee shall mark all fuel containers with the Licensee's name.
- 22. The Licensee shall have an approved emergency response and spill contingency plans in place prior to the commencement of the operation.
- 23. The Licensee shall immediately report all spills of petroleum and hazardous chemicals to the twenty four (24) hour spill report line at (867) 920-8130.

Waste Disposal

- 24. The Licensee shall not discharge or deposit any refuse substances or other waste materials in any body of water, or on the banks thereof, which will impair the quality of the waters of the natural environment.
- 25. The Licensee shall not locate any sumps or areas designated for waste disposal within thirty (30) metres of the ordinary high water mark of any body of water, and be sufficiently bermed or otherwise contained to ensure that these substances to do not enter a waterway unless otherwise authorized.

- The Licensee shall treat greywater and sewage according to the terms and conditions outlined in the NWB approval.
- The Licensee shall backfill and recontour all sumps to match the natural environment prior to the expiry date of the license.
- 28. The Licensee shall incinerate all combustible and food wastes daily
- The Licensee shall keep all garbage and debris in a covered metal container until disposed of.
- 30. The Licensee shall ensure that all wastes generated through the course of the operation are backhauled and disposed of in an approved dumpsite.
- 31. The Licensee shall deposit all scrap metal, discarded machinery and parts, barrels and kegs, at an approved disposal site.

Wildlife

- The Licensee shall ensure that there is no damage to wildlife habitat in conducting this
 operation.
- 33. The Licensee shall not feed wildlife.
- 34. The Licensee use the latest bear detection and deterrent techniques to minimize man-bear interactions and shall report any Man-Bear Interactions to the nearest Renewable Resource Officer.
- The Licensee shall not hunt or fish, unless the appropriate permits and licenses are acquired from a GN Renewable Resources Officer.
- 36. The Licensee shall ensure that the drill sites avoid known environmentally sensitive areas (denning, nesting etc.) by a minimum of 250 metres.
- The Licensee shall not locate any operation so as to block or cause substantial diversion to migration of caribou.
- 38. The Licensee shall follow the Caribou protection measures attached.
- 39. The Licensee shall cease activities that may interfere with migration or calving, such as airborne geophysics surveys or movement of equipment, drilling activities until the caribou and their calves have vacated the area.
- 40. The Licensee shall ensure that aircraft pilots adhere to recommended flight altitudes of greater than 300 m above ground level as to not disturb wildlife. Raptor nesting sites and concentrations of nesting or molting waterfowl should be avoided by aircraft at all times.
- 41. The Licensee shall ensure compliance with Section 36 of the Fisheries Act which requires that no person shall deposit or permit the deposit of a deleterious substance on any type in water frequented by fish or in any place under any conditions where the deleterious substance may enter such a water body.
- 42. The harmful alteration, disruption or destruction of fish habitat is prohibited under Section 35 of the Fisheries Act. No construction or disturbance of any stream/lake bed or banks of any definable watercourse is permitted unless authorized by DFO.

Environmental

- 43. The Licensee shall ensure that the land use area is kept clean and tidy at all times.
- 44. The Licensee shall prepare the site in such a manner as to prevent damage to the ground surface. Wooden walkways are to be used to minimize erosion between tents and the camp.

- 45. The Licensee shall be required to undertake any corrective measures in the event of any damage to the land or water as a result of the Licensee's operation.
- 46. The Licensee shall not remove any material from below the ordinary high water mark of any waterbody.
- 47. The Licensee shall suspend overland travel of equipment or vehicles if rutting occurs.

Structure & Storage Facilities

- The Licensee shall not erect structures or store material on the surface ice of lakes or streams.
- The Licensee shall locate all structures and storage facilities on gravel, sand or other durable land.

Archaeological Sites

50. The Licensee shall follow all terms and conditions for the protection and restoration of archaeological resources as outlined by the Department of Culture, Language, Elders and Youths (CLEY) in attached letter.

Attachments

51. The Licensee shall follow the comments and recommendations provide by the Department of Sustainable Development and the letter addressed to the proponent from the Department of Fisheries and Oceans.

Reclamation

- The Licensee shall remove all scrap metal, discarded machinery and parts, barrels and kegs, buildings and building material upon abandonment.
- The Licensee shall complete all clean-up and restoration of the lands used prior to the expiry date of the permit.
- 54. The Licensee shall undertake ongoing restoration for any land or improvements which are no longer required for the Licensee's operation on the land.
- 55. The Licensee shall plug or cap all bore holes and cut off any drill casings that remain above ground to ground level upon abandonment of the operation.

Monitoring

- 56. The Licensee shall monitor the impacts to wildlife by maintaining a log of wildlife observed (species, number, date, time, location observed) and their behavior (i.e. avoidance, segregation, disturbance/stress, alteration of migration patterns or movements by wildlife).
- 57. The Licensee shall submit to the NWB and NIRB a summary report of activities undertaken and any abandonment and restoration of the site.

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2001-Feb-16 09:16am From-NUNAVUTIMPACT REVIEW BOARD

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Other Recommendations

- NIRB would like to encourage the proponent to hire local people and services, to the extent possible.
- NIRB advises proponents to consult with local residents regarding their activities in the region.
- 3. The Environmental Protection Branch (DOE), Department of Fisheries and Oceans (DFO), Numerout Impact Review Board (NIRB), and the Numerout Water Board (NWB), and the communities of Chesterfield Inlet, Whale Cove and Rankin Inlet should be advised of any material changes to plans or operating conditions associated with the project.
- Any amendment requests deemed by NIRB to be outside the original scope of the project will be considered a new project.

Validity of Land Claims Agreement

Section 2,12.2

Where there is any inconsistency or conflict between any federal, territorial and local government laws, and the Agreement, the Agreement shall prevail to the extent of the inconsistency or conflict.

Data

at Whale Cove, NII

Elizabeth Couland, A/Chairperson



POST AGUACA TO PULL CONTROL IMPACT REVIEW BOARD/NUNAVUTMI KANOGILIVALIANIKOT ELITTOHAIYEOPLOTIK KATIMAYIIT

NUNAVUT IMPACT REVIEW BOARD SCREENING FORM

1. General File Information on Screening
NIRB #: Owkoo Authorizing Agency #(s): WROM permit or licence of permit or licence of the permit or licence or licenc
Project Title: Revenue of water were Melfodire Proponent: Smc Takera Horal Limited Company: Applicant
Proponent's Address: 22 Gustavasa Road
Mesopean Dintario
LAE SAA Full Address
Company persons doing the work if different from the proponent
address and contact numbers
Proposed Dates of Activity: Start Date (yvvy-mm-dd) End Date (yvyy-mm-dd)
EA Starting Date: Source: 30 300 Date application accepted (yyyy-mm-did)
Date Application Referred for Comments: February 3001
Deadline for Comments: February 9, 2001
NIRB's EA Indication: 12.4.4 (c)
Date of Indication: February 16, 2001
Project Cancelled: Yes, Give Reason
Comments:

3. Project Location		
Kivalliq _	Kitikmeot	Baffin
Land Use Planning Region:	Kilallia	
Geographic Place Name:	(e.g. West Kitikmeot, North Raffin, Sell College (nearest place name or geographic fee	ske
Local/Traditional Name:	71,74	
National Topographic Sheet (NTS)	Number 557/4, NOS	Scale: 11,250,000
Latitude/Longitude: 163°01	36" W 920 K	
Drainage Region and Watershed	Melladive (nearest creek river or lab	ke system)
Nearest Settlement: Pon	Kin Inlet	
Adjacent Settlement/Out-post camp	S:	
Special Designation:	(Yes/No -e.g. Hentage River, Wildlife	e Reseserve, Park)
Does the project have Nunavut trans	boundary implications?	Yes No
If yes, what additional procedures/c	ontacts are needed?	

4. Project Description and Assessment		
Physical Work, Activity(ies): Dalling, construction, camp desearch, water works, installation.		
(drilling, construction, camp, besearch, water works, installation,	modification, maintenance	:e)
Multiple Activities Yes No		
Project Category Code: Point Multiple Points Linea		
Phase of Project. (exploration, bolk sampling, development, operations, decommissioning, ab		
(exploration, book sampling, development, operations, decommissioning, ab	andonment restoration)	
Project Description Summary (non-technical).		
(duration of project, size of project, number of personnel on site, related physical activities, machinery used, t	uels and chemical use and	d storage
associated infrastructure, methods of transportation, amount and source of resources needed eg. Gravel)		
Attach Project Overview (English and Inukitut)		
	- National Control	
		i
Alternatives Considered: (list all alternatives to the project and/or components of the project to avoid unnecessary amendments, (e.g. al	ternatives to location of	ca road or
camp logistics)	TO INCLUDE OF THE PARTY OF THE	
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		;
	* ***	
5. The Proponent's Public Consultation Process		
The state of the s		
Description of Proponent's Public Consultation Process		
	¥ /	NT
Did proponent make use of traditional knowledge?	Yes	No
Was information available in the community's preferred language?	Yes	No
In NIRB's opinion, was the proponent's public consultation adequate?	Yes	No
If no, explain why the proponent's consultation program was found defic	cient.	

Executive Summary

The main exploration activity during 2001-2002 on the Meliadine West Project gold exploration program will consist of a diamond drilling program of approximately 30,000 metres. The drilling is planned to commence in the April to early May period. In addition, four mineral claims will have boundary surveys completed which is required to bring these claims to mineral leases. This work will commence in the late May to early June period.

Environmental baseline studies will continue with focus on water, fish and wildlife studies. This work will commence in mid-May.

Continued monitoring and documentation of the rehabilitation of all diamond drilling sites completed by WMC during 1995-2000. This work will commence in mid-June.

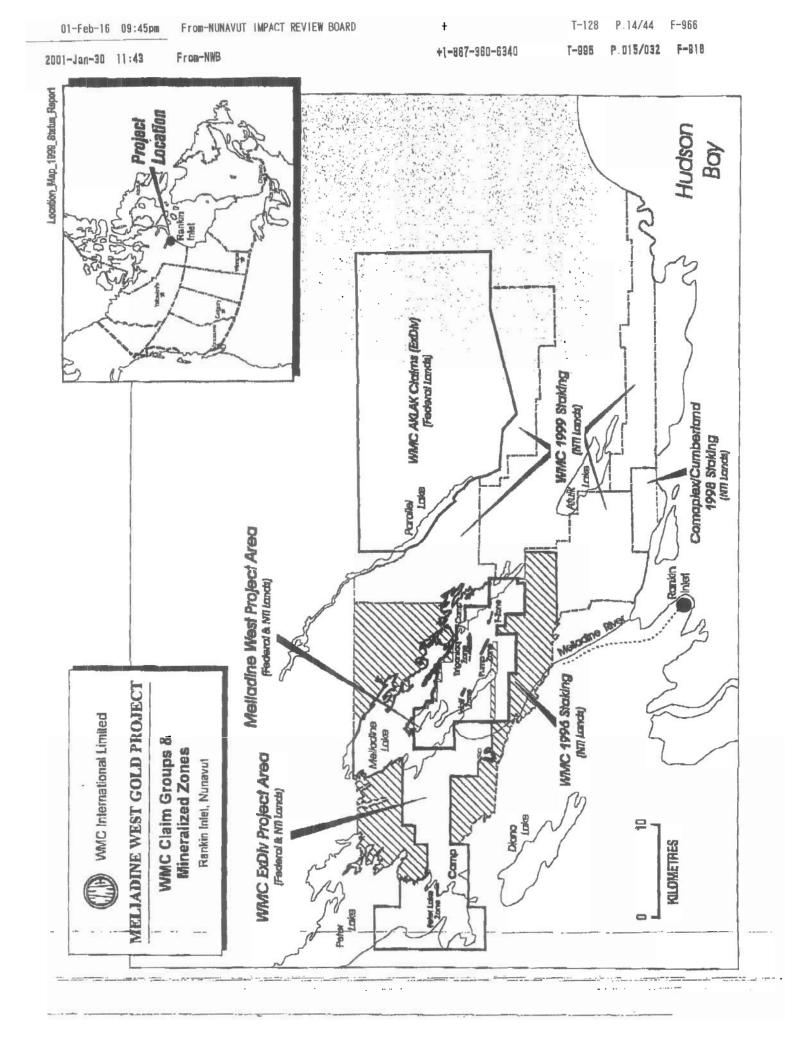
A total of up to 55 people will be completing this work program out of the Meliadine Lake camp during the early April to late October period.

2001-2002- - ABJUNG CHAC JETPIAPK A LBASKHAG HAGESTPE 30.000 ΓCσ». ΔdC°σρης Δ>)Γ LΔ° ΛΥσ°σθως. σισςΟρ», ΥCLΔ° ηδςρηθηρίδρςΓω»)ς "ל"סל בשב ל"חתום "ב ל"חתום ל"ל"חתום ל"ל"חתום ל"ל"חתום ל"ל"חתום ל"ל"חתום ל" N 45 Lps.

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6. Description of the Environment
Description of Biophysical Environment
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throughout the area.
•
Description of Socio-Economic and Cultural Environment This case contains several bose comps
town which winter contrar hunts are
as encountered. Mony takes are fished

5

7. NIRB's Consultation Date application referred for	on Process comments: February	1006 1 22
Deadline for comments:	February Co	M-mm-dd)
Distribution List: NUNAVUT:NTI	Contact Person:	Date comments received.
QIA Kivalliq I.A. Kitikmeot I.A. NPC NWB NWMB	Prices Aglistart	101 d d 27
RWOInuit Heritage TrustCommunity(s) Hamlet HTOOther?		
FEDERAL:DIANDDFODOEHeritage CanNatural ResourcesOther? (eg. Health DOT, DND)	Ame Wikin	Feb 12/10/
GOVERNMENT OF NUMSustainable DevCGHTHSS	NAVUT:	
CLEY Other?	Dand Speryou	Feb 6/01
TRANSBOUNDARY PARTIES		
OTHER PARTIES		

Identification of Project Activities and Environmental Effects
Identify all activities of the project under screening and their potential adverse environmental effects.

Project Activities	Project Effects
'v check all the items appropriate to this project)	A check all the irems appropriate to this project)
Vaccess roud	Directly-related Socio-Economic & Cultural
winter	Effects:
construction	
ibandonment/removal	1. Impact to hunting / trapping / fishing
modufication e.g., widening	2impact - ii women
duromobile, aircraft or vessel movement	men
_bl.sang	children
Durning	elders
burning	
	 impact to traditional use or traditional use are:
channelling	4 impact to outfitters
construction	 impact on recreational use
building	impact on tamily structure
shed, warehouse	impact to community health
landing smp	8 change in community economics
cut and all	9 change in community housing or
removal of vegetation Zdams and impoundments SUMPES	
L'dams and impoundments SUMPS	infrastructure
✓ construction	10 impact to industry
abandonment/removal	 change in regional transportation
modification	12. Limpact to archaeological or cultural landmarks
dirch construction	13. Limpact on beauty of the landscape
drainage alteration	14other, explain
dailus other than seoscientific	14Other, explain
dnilung other than geoscientific	
excavanon	Biophysical Environment Effects
gxplosive storage	 deposit into surface or ground water
ruel storage	 deposit to intrine environment
2 the storage	17 change in surface or ground water flow
gurbuge discount of horsestons mass	18change in water temperature
disposal of hazardous waste	
Disposal of sewage or grey water	19 change in drainage partern
disposal of solid waste	20 change in air quality
<u>V</u> geosciennic sampling	21 change in air flow
genching	22micro-climate change
✓ diamond dnll	23 ice fog
borehole core sampling	24. Change in ambient noise level
bulk soil sampling	25 deposit onto ground surface
— quarty	26 sharps in close architect
hydrological resting	26 change in slope stability
river stream/lake crossing/bridging	27 change in soil structure
site restoration	28 alteration of permatrost regime
feralizanon	29. describilization/erosion
grubbing	30 Soul compaction
pl:mang/seeding	31 change in access to renewable resources
scannication	32depletion of non-renewable resource
praying	33 removal of sare (and agreed plant aperies
recontouring	33 removal of rare/endangered plant species
soil testing	34introduction of species
topsoil, overburden or soil	35toxin heavy metal accumulation
611	 removal of rare/endangered wildlife species
disposal	37change in wildlife health
removal	38. Limpact to large mammals
storage	39impact to small mammals
runnelling/underground	40. Lumpact to fish
Nother, explain comp	41. Limpacr to birds
Descite	42 impact to other wildlife
_ possibility for accidents or malfunctions. Describe.	43 unpact in a culving, nesting, staging or
	spawning area
	++ removal of wildlife buffer zone
92 (97)	45 change in wildlife habitat/ecosystem
effects of environment on project (e.g., flooding).	
Describe.	46other, explain

Describe biophysical and socio-ec. Dic and cultural effects identified fre check-list.

Environmental Effect	Describe
#13	Exploration site is clear to the
1,11	consumpt of Ronkin Int reac
	Courte on your propert
	Cash cas 10001 22 prist 1 whish
	& panythan week
#13	See CPET COMMENTS
pt 13	conte con dilling activities
	temporing issued districtione.
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	dilling octilities may course
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7.3.4.66.	to voise field activities
	Transfer State Contraction
	coming Drill cutting ma
	They will is the whole
	year just on the same for
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Cumulative Effects: Identification of Other Resources Used in the Area. Identify past, current and future (pending applications) physical works and activities in the area (for the proponent, other proponents and nearby communities) and their potential adverse environmental effects.

Other Resource Uses	Effects from Other Resource Uses
vicheck all the items appropriate to this project;	I i check all the items appropriate to the scope of this project
∠ harvesting	
marine mammals	Directly-related Socio-Economic & Cultural
Luid maininals	Effects:
rur bearers	I Junpace to hearing / trapping / fishing
Tords	2impaction:women
shell tish	men
pl:mrs	children
bernes	elders
tish	3 Impact to traditional use or traditional use area
Aming	4impact to outfitters
Vexploration	 unpact on recreational use
_ open pits	impact on family structure
underground	 impact to community health
off-shore	 change in community economics
mineral processing	change in community housing or infrastructure
industry (type)	10 impacr to industry
Quarries	11 change in regional transportation
carving stone	12impact to archaeological or cultural landmarks
nkategate	13. Impact on beauty of the landscape
transportation/communications	14other, explain
airport / landing strip	
roads/access routes wither	Biophysical Environment Effects
shipping	15 deposit into surface or ground water
channels/canal *	16deposit to marine environment
telephone lines, satellite dishes, cables	 change in surface or ground water flow
beacons	18 change in water temperature
waste disposal (solid, liquid or gas?)	19 change in drainage pattern
energy project	20 change in air quality
hvdro	21 change in air flow
pipeline	22micro-climate change
mansmission line	23ice fog
_ other water licenses, permits, leases	24. Change in ambient noise level
Mands	 deposit onto ground surface
Linuit owned	26 change in slope stability
-surface rights	27change in soil structure
-sub-surface rights	28 alteration of permatrost regime
Lytown	29destabilization/erosion
Commissioner's	30 soil compaction
Marine Areas	 change in access to tenewable resources
other private lands held under tenure	32depletion of non-renewable resource
harrage sites or archaeological sites	33 removal of rare/endangered plant species
Lecreation (eg. cabins, tent frames)	34introduction of species
✓ tourism	35toxin/heavy metal accumulation
municipal (construction)	36removal or rare/endangered wildlife species
commercial	37change in wildlife health
built structures	38. Limpact to large mammals
intrastructure	39impact to small mammals
agriculture	40. Lumpact to fish
forestry	41. Limpacr to birds
other, explain	42impact to other wildlife
	43 impact in a calving, nesting, staging or spawning
	area
	44removal of wildlife buffer zone
	45change in wildlife habitat/ecosystem
	46other

	effects identified in #8 and #9.
Matching Number's	Description of Cumulative Environmental Effects
Will the project make	e large demands on non-renewable energy sources?
developments (other similar	urage further developments within the current project or other ar projects, energy development, generation, petroleum development and additional roads):
The same of the sa	urage a "boom-bust" economy over an economy of permanence?
Will the project enco	urage more wildlife harvesting on account of better access for hunters and
Will the project have	an effect on the water quality of the watershed?
Will the project have	a significant effect on existing land uses?
11. Mitigation Meas For each environmental et measures.	ures Frect identified in #8, #9 and #10, describe the required mitigation
Number(s) (as identified in #8, #9 & #10)	Description of Mingation Measures
	SER STRONING DECISION
	Report.

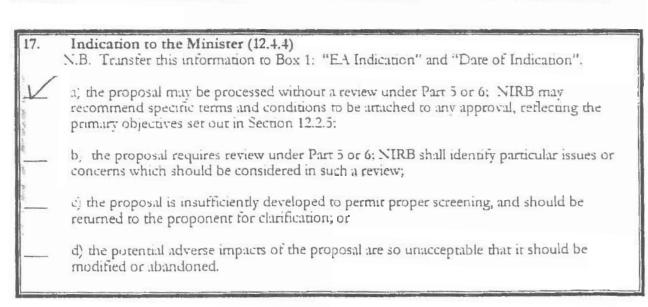
12. Significance		
Afrer taking into according to the environmental effects	unt the mitig	pition measures identified in #11, are any of the residual, adverse
Yes Ir yes, identir	which one's	s, and proceed to =13; if no proceed to # 14.
Number's	-	advantaged.
	-	

13. Likelihood	of Occurren	ce
Of the significant, r	esidual, advers	se environmental effects identified in #12, are any likely to occur?
Number(s)	-	
	-	

14.	Information Sources
	What sources of information were used in the screening process?
	local knowledge
	traditional ecological knowledge
	land use plans (and draft land use plans)
	authorizing agencies' data
	departmental or agency opinions
	maps
	photos
	reports (scientific, economic, social, or anthropological, archival or historical information)
	Nunavut Environmental Dambase (NED)
	Project Registry (NPG) WRB
	previous similar projects
	service organizations
	media monitoring
	experts
	For information sources identified above, provide contact person and/or information

15. Staff Recommendations
Smft Recommendations: /include mtionale:
Environmental effects started be mithigated
with know technology and best proctice
techniques and the terms and and those
continued in the screening decision
report.
Prepared By: Woods Tondrey Date: February 2, 2001
ijjji mir do

16.	NIRB'S Principles
	The project has significant adverse effects on the ecosystem, wildlife habitat or Inuit harvesting activities.
	The project may have significant adverse socio-economic effects on northerners.
_	The project will cause significant public concern.
	The project involves technological innovations for which the effects are unknown.
K	The project does not have significant effects or concerns.



Feb-16-01 09:32A 2001-Feb-16 09:16am From-NUNAVUTIMPACT REVIEW BOARD

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1-142 P UU4/UU4 F-165 P-01

18. Term	s and Conditions
(i the Jeterni Decision Re	in mon is 12.4.4 a., NIRB', terms and conditions include those listed in the Screening port.
Specific Com	no and Conditions of the medical and analysis.
	horization .
Approved B	Bullett foland Date Feb-16/01
	low-up / Monitoring
Minister's E	Determinanon
Action ³	Vimister agreed with NIRB's indication.
Acoon?	Manager varied NIRB's indication.
	Minister rejected NIRB's indication
lf applicable Is a	e, follow up / monitoring program required? If yes, give details.
Has	s screening report information been added to NIRB's GIS/ Calyx system?



A-Grenza

Department of Culture, Language, Elders & Youth

Pithohilikioni.

Ministèr du governement Culture Langues, Aînés et Jeunesse



February 6, 2001

Gladys Joudrey Environmental Assessment Screener Nunavut Impact Review Board Box 2379 Cambridge Bay, NU X0E 0C0

Re: Land Use Application NIRB 01WR005; Renewal of Water Licence: Meliadine Lake(WMC International)

Due Date:

February 9, 2001

Dear Ms. Joudrey:

At your request, the Department of Culture and Heritage, Government of Nunavut, has reviewed the above-noted application. Our recommendations follow.

In view of the fact that this is a request for a renewal of the license, and that no changes have been made to the original application (NIRB 00EA034), we recommend approval of the above-cited application, as the proposed activities do not constitute a threat to known archaeological resources.

The attached conditions specify plans and methods of site protection and restoration to be followed by the permittee if an archaeological site is encountered or disturbed in the course of the land use activity.

Sincerely

Lear Otak, Director Culture and Heritage

Department of Culture, Language, Elders and Youth

Encl.



Ac'drenze

Department of Culture, Language, Elders & Youth

Pithohilikioni

Ministèr du governement Culture Langues, Aînés et Jeunesse

ARCHAEOLOGICAL RESOURCES: TERMS AND CONDITIONS

BACKGROUND

The archaeological record of the Inuit of Nunavut is a record of Inuit use and occupancy of lands and resources through time. The evidence associated with their use and occupancy represents a cultural, historical, and ethnographic heritage of Inuit society and, as such, Government recognizes that Inuit have a special relationship with such evidence, which shall be expressed in terms of special rights and responsibilities.

The archaeological record of Nunavut is of spiritual, cultural, religious and educational importance to Inuit. Accordingly, the identification, protection, and conservation of archaeological sites and specimens and the interpretation of the archaeological record is of primary importance to Inuit and their involvement is both desirable and necessary.

In recognition of the cultural, spiritual and religious importance of certain areas in Nunavut to Inuit, Inuit have special rights and interests in these areas as defined by Article 33 of the Nunavut Land Claim Agreement.

- "Archaeological site" means a site or work within Nunavut of archaeological ethnographical or historical importance, interest or significance, or a place where an archaeological specimen is found, and includes explorer's cairns.
 - "Archaeological specimen" means an object or specimen found in an archeological site of archaeological ethnographical or historical importance, interest or significance, or a place where an archaeological specimen is found, and includes explorer's documents.
- III. Any new Terms and Conditions raising issues found in ss. 10 and 16 of the Territorial Land Use Regulations should duplicate statutory sections, or be stricter, but not more lenient in terms of protection of archaeological resources.
- The permittee shall not operate any vehicle over a known or suspected archaeological site.
 - 2. The permittee shall not remove, disturb or displace any archaeological specimen or site.
 - The permittee shall contact the Department of Culture, Language, Elders and Youth (867-975-5500) and DIAND officials should an archaeological site or specimen be encountered or disturbed by any land use activity.
 - 4. The permittee shall immediately cease any activity which disturbs an archaeological or historical site, encountered during the course of a land use operation, until permitted to proceed with the authorization of the Department of Culture, Language, Elders and Youth, Government of Nunavut, Iqaluit.
 - The permittee shall follow the direction of the Department of Culture, Language, Elders and Youth and DIAND in restoring disturbed archaeological sites to an acceptable condition.
 - The permittee shall provide information to the Department of Culture, Language, Etders and Youth about each archaeological site or specimen encountered by any land use activity, by completing the attached form.

- ŧ
- The permittee shall make best efforts to ensure that all persons working under authority of the
 permit are aware of these conditions concerning archaeological sites and specimens.
- The permittee shall avoid the known archaeological sites as listed in Attachment #1
- 9. The permittee shall have an archaeologist perform the following functions, as required by the Department of Culture, Language, Elders and Youth: survey, inventory and documentation of the archaeological and historical resources of the land use area; assessment of potential for damage to archaeological sites; mitigation; marking boundaries of archaeological sites for avoidance; restoration. The Department of Culture, Language, Elders and Youth shall authorize by way of a Nunavut Archaeologist Permit all procedures subsumed under the above operations.

COMMENT FORM FOR NIRB SCREENINGS

The Nunavut Impact Review Board has a mandate to protect the integrity of the ecosystem for the existing and future residents of Nunavut. In order to assess the environmental and socio-economic impacts of project proposals, NIRB would like to hear your concerns, comments and suggestions about the following project application:

	Nater Licence for Meliadine
Proponent WMC Intern	dine Lake, Kivallig_, NIRB#:01WR005
Location: Melia	Millia, raika' Maduid ' Mikishi na Aaalana
Commente Due By:Friday F	sbruary 9, 2001
We want to be 7. The second of the	
Indicate your concerns about the	
☐ no concerns	☐ traditional uses of land
(Xwater quality	☐ Inuit harvesting activities
T terrain	☐ community involvement and consultation
☐ air quality	☐ local development in the area
☐ wildlife and their habitat	□ tourism in the area
☐ marine mammals and their habitat	☐ human health issues
디 birds and their habitat	Cother:
Afish and their habitat	
☐ heritage resources in area	
Please describe the concerns ind	icated above:
See a Hacked le	16 1/10
See attached U	the of advac
	D
Do you have any suggestions or	recommendations for titls application?
me And Head atth suffacing of	incuttilities determine to la mile abbitration in
	The deal of the second
Do you support the project propo	osal? YES 🖂 NO 🖂
	Matt (Co 🗆 MO 🗆
Any additional comments?	
Name of person commenting:	Jordan Gebroot of
Position: By 6108131	Organisation: OFO
Signature: C) 2000	DHO CAR DANS
- Siffind color	

Péches et Océans

Fish Habitat Management P.O. Box 368 Iqaluit, Nunavut XOA 0H0

Your file Vatie of organic
OUWROOS
Out file Name of territory

February 12th, 2001

Alan Sexton WMC International Inc. 22 Gurdwara Road Napean, Ontario K2E 8A2

RE: NIRB File # 00WR005, Water Licence Renewal Application, Mineral Exploration, WMC International, Meliadine Lake Area.

Dear Mr. Sexton:

This letter is to advise that The Department of Fisheries and Oceans, Fish Habitat Management (DFO-FHM) received your Water Licence Renewal Application for mineral exploration, in the Meliadine Lake area, submitted on your behalf by the Nunavut Impact Review Board. I have reviewed the plans for the proposed work.

Field operations in or near water may result in the harmful alteration, disruption or destruction of fish habitat, which is prohibited under Section 35 of the Fisheries Act. In addition to the measures set out in the project proposal, the following mitigation measures, if incorporated into the project, are intended to prevent any potentially harmful impacts to fish and fish habitat:

- All disturbed areas should be stabilized and re-vegetated as required, upon completion of work, and restored to a pre-disturbed state.
- If artesian flow is encountered, drill holes should be plugged and permanently sealed upon completion of the project.
- If the drilling requires water in sufficient volume that the source waterbody may be
 drawn down please submit details (volume required, size of waterbody, etc.) to DFOFHM for review. DFO-FHM does not recommend the use of streams as a water
 source.
- All water intakes should be properly screened to prevent the entrainment of fish.
 Refer to the Freshwater Intake End-of-Pipe Fish Screen Guideline (DFO 1995), available on request.
- Winter lake/stream crossings should be located to minimize approach grades.
 Cutting or filling of crossing approaches below the normal high water mark will require prior review and approval by DFO-FHM.

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- The use of material other than ice or snow to construct a temporary crossing over any
 ice-covered watercourse is prohibited by regulations under Fisheries Act unless
 authorized by a Fishery Officer.
- All winter crossings should be removed prior to spring breakup.
- No material should be left on the ice when there is the potential for that material to enter the water (i.e. spring break-up).

Depositing deleterious substances into fish bearing waters is prohibited as stated under Subsection 36(3) of the *Fisheries Act*. The following are additional measures to mitigate habitat disturbance or loss as well as the deposition of deleterious substances.

- Sediment and erosion control measures should be implemented prior to, and maintained during the work to prevent entry of sand or sediment into the water.
- All activities, including maintenance procedures and vehicular refuelling, should be controlled to prevent the entry of petroleum products, debris, slash, rubble, or other deleterious substances into the water.
- All wastes, drill cuttings, sewage containments and fuel caches should be located a
 minimum of thirty (30) metres from the normal high water mark of any water body,
 and be sufficiently bermed or otherwise contained to ensure that these substances do
 not enter any water body.
- Drill cuttings should be disposed of in a sump such that they do not enter any water body. The use of biodegradable, salt free drill additives is encouraged over nonbiodegradable types.
- All spills of oil, fuel, or other deleterious material should be reported immediately to the 24-Hour Spill Line at (867) 920-8130.

If the proposed work is carried out as described in the plans provided to DFO-FIIM and if the additional mitigation measures specified above are implemented, the proposed work will not be considered as contravening Subsection 35(1) of the Fisheries Act which reads:

"No person shall carry on any work or undertaking that results in the harmful alteration, disruption or destruction of fish habitat."

Therefore, an authorization under Subsection 35(2) of the Fisheries Act will not be necessary. If a harmful alteration, disruption or destruction of fish habitat and/or the deposition of deleterious substances into fish bearing waters occurs as a result of a change in the plans for the proposed works or failure to implement the additional mitigation measures specified above, prosecution under Subsection 35(1) and/or Subsection 36(3) of the Fisheries Act may be initiated.

Please note that this letter of advice does not release the proponent of the responsibility for obtaining any other permits that may be required and will apply for the proposed activities for the period of the Water Licence.

Canadä

If you have any questions concerning the mitigation measures or should there be any changes to the proposed work, please contact me at (867) 979-8007 or by fax at (867) 979-8039.

Tordan DeGroot

Aren Habitat Biologist

Fish Habitat Management

Department of Pisheries and Oceans-Eastern Arctic Area

c.c. Gladys Joudrey, Nunavut Impact Review Board Winston Fillatre - A/C&P Supervisor/Fishery Officer

COMMENT FORM FOR NIRB SCREENINGS

The Nunavut Impact Review Board has a mandate to protect the integrity of the ecosystem for the existing and future residents of Nunavut. In order to assess the environmental and socio-economic impacts of project proposals, NIRB would like to hear your concerns, comments and suggestions about the following project application:

Project Title: Renewal of Water license for Meladine				
Proponent: WMC International.				
Location:Meliadine Lake Kivalliq, NIRB	#:01WR005			
Comments Due By: February 9, 2000				
Indicate your concerns about the project proposal below:				
□ no concerns	□ traditional uses of land			
□ water quality □ Inuit harvesting activitie				
□ terrain	□ community involvement			
and consultation				
□ air quality	□ local development in the			
area				
□ wildlife and their habitat	□ tourism in the area			
□ marine mammals and their habitat	□ human health issues			
□ birds and their habitat				
Other:				
□ fish and their habitat				
□ heritage resources in area				
Please describe the concerns indicated above: DSD has reviewed the permit application from WMC Inc. and offers the following comments for your consideration: Copies of all environmental reports should be sent to the Regional Wildlife Biologist in Arviat and DSD headquarters in Iqaluit. The proponent has indicated that drilling water will be discharged into natural depressions. These depressions should not drain in any active aquatic system. This project is adjacent to a Territorial Park and (although the mapping does not allow identification of the sites in relation to the park) no drill sites, sumps, water access, water disbursement etc. should include lands or water within				
the park.				
Do you have any suggestions or recommendate	ions for this application?			
Do you support the project proposal? YES NO Any additional comments?				
Name of person commenting: _Dept. of Sustainable Development_ Position:Organisation: Signature:Chris Nichols Date:March 20, 2000				
Signature: Chris Nichols Date: March 20, 2000				



DEPARTMENT OF SUSTAINABLE DEVELOPMENT ENVIRONMENTAL PROTECTION SERVICE

STANDARD RECOMMENDATIONS FOR LAND USE APPLICATIONS (AS APPLICABLE)

Spill Contingency Plan

The applicant should have a contingency plan for responding to chemical and petroleum spills which might occur during the proposed activity. The plan should include a list of available spill response equipment and the names of trained personnel who will be on-site and available in the case of a spill.

The proponent is referred to DSD's Spill Contingency Planning and Reporting Regulations and A Guide to the Spill Contingency Planning and Reporting Regulations.

Fuel Storage

To prevent spreading in the event of a spill, fuel stored in drums should be located, whenever practical, in a natural depression a minimum distance of 90 feet from all streams, preferably in an area of low permeability. All fuel storage containers should be situated in a manner that allows easy access and removal of containers in the event of leaks or spills. Large fuel caches in excess of 20 drums, should be inspected daily.

Chemical Storage

All chemicals should be stored in a safe and chemically-compatible manner a minimum of 90 feet from all bodies of water. The applicant should be required to remove unused chemicals for reuse or disposal to an approved site using methods approved by the Land Use Inspector. Material safety data sheets (MSDS) should be provided for each chemical and be posted in a central location; accessible by all camp personnel. Camp personnel should be conversant in the handling of these chemicals as well as able to deal with any accidents or spills.

Location of Hazardous Materials

Hazardous materials stored on-site should be marked so they will be visible under all conditions, in all seasons. This recommendation is intended to help prevent possible injuries to camp personnel and/or damage to the containers. Unless otherwise specified by the land use inspector or licence -issuing agency,

all hazardous materials should be removed from the site upon completion of the activity. The proponent is referred to DSD's Environmental Guideline for the General Management of Hazardous Waste.

Waste Oil/Waste Fuel Disposal

Waste oil and waste fuel should be removed and returned for recycling when the land use activity is completed. Alternative methods of disposal that provide and equivalent level of environmental protection will be considered on a case by case basis.

Used Drums

Used fuel and oil drums should be removed from the site, returned for deposit, or reused.

Contaminated Soils

Soil contaminated by fuel (e.g., soils under an old storage tank) should be treated on site or removed to an approved disposal site and replaced with new soil. The proponent is referred to DSD's Environmental Guideline for Site Remediation.

Winter Roads

Existing winter road routes and trails should be used whenever possible to avoid unnecessary land clearing.

Drill Sumps

The sumps should only be used for inert drilling fluids, not any other materials or substances. All effluent from sample washing site including trenches must not be allowed to flow directly into the lake/river. It should be allowed to go to a depression (sump) that does not drain in any active aquatic system. The sumps should be properly closed out.

Garbage Disposal

Garbage should be removed from the camp periodically; alternatively, all combustible wastes can be incinerated on site and non-combustibles collected and removed upon termination of the activity or periodically.

Incineration

For camps of less than 10 people, it is recommended that a draught barrel be employed to burn wastes. A draught barrel is essentially a 45 gallon drum or equivalent, with a hole in the bottom to facilitate air intake, and is closed at

the top with a lid and a chimney for the exhaust. EPS does not consider burning wastes in a draught barrel to be true incineration, however, for small camps, this is an acceptable means to deal with camp wastes. The draught barrel should be operated so that a high temperature burn is maintained at all times. This will promote complete combustion and eliminate pollutant and odor concerns.

For camps of more than 10 people, it is recommended that a forced air incinerator be used to manage wastes. Once again maintaining a high temperature burn to reduce wastes is imperative.

Kitchen wastes, cardboard, paper products, packaging and untreated wood wastes are suitable for burning in a draught barrel and a forced air incinerator. Industrial wastes and non combustible wastes should be removed from the camp and disposed of at a designated landfill or other approved facility. Under no circumstance should hazardous wastes be managed through burning or incineration.

For camps of greater than 50 people, it is recommended that a municipal waste incinerator, which produces emissions that meet CCME air quality guidelines, be used to dispose of camp wastes. The manufacturer will specify operating conditions and types of wastes that can be disposed of in the incinerator in order to meet the specified CCME standards. It is recommended that municipal waste incinerators be operated to meet manufacturer specifications.

The aforementioned comments are a brief thumbnail sketch of what DSD suggests that a proponent should be implementing to mitigate any damage or alterations to the environment during the course of their proposed activities. The proponent is referred to the Government of Nunavut's acts, regulations and environmental guidelines for a details.

Acts, Regulations and Environmental Guidelines

The Environmental Protection Service, Department of Sustainable Development derives its regulatory authority and operational mandate from the Government of Nunavut's Environmental Protection Act (EPA). A number of regulations and guidelines have been developed and adopted under the EPA; some, or all of which might prove to be of assistance to a proponent in planning their activities. The guidelines are listed here for the information of the proponent and are available to the public at any DSD office in Nunavut or from DSD's Headquarters office located at:

Department of Sustainable Development Environmental Protection Service Government of Nunavut Box 1340 Iqaluit, NU X0A 0H0 (867) 979-5119

e-mail: reno@gov.nu.ca or ebaddaloo@gov.nu.ca

Acts and Regulations

{PRIVATE } Environmental Protection Act{tc V 5 "Environmental Protection Act"}

Environmental Protection Act: Simplified Summary

Environmental Rights Act

{PRIVATE } Spill Planning and Reporting Regulations {tc \ \ 1 5 "Spill Contingency Planning and Reporting Regulations"}

{PRIVATE }Asphalt Paving Industry Emission Regulations{tc \ \ \ 5 "Asphalt Paving Industry Emission Regulations"}

{PRIVATE } Pesticide Act{tc \ V 5 "Pesticide Act"}

{PRIVATE } Pesticide Regulations{tc \ \ \ 5 \ "Pesticide Regulations"}

Used Oil and Waste Fuel Management Regulations (undergoing completion; proposed for June 2000)

{PRIVATE }Environmental Guidelines{tc \| 5 "Environmental Guidelines"}

{PRIVATE }Dust Suppression{to V 5 "Dust Suppression"}

{PRIVATE } General Management of Hazardous Waste{tc \ V 5 "General Management of Hazardous Waste"}

{PRIVATE }Ozone Depleting Substances{tc \ V 5 "Ozone Depleting Substances"}

{PRIVATE } Site Remediation{tc V 5 "Site Remediation"}

{PRIVATE } Sulphur Dioxide & Suspended Particulates{tc \ \ \ \ 5 "Sulphur Dioxide & Suspended Particulates"}

{PRIVATE } Waste Antifreeze{tc \ \ \ 5 \ "Waste Antifreeze"}

{PRIVATE } Waste Asbestos {tc V 5 "Waste Asbestos"}

{PRIVATE } Waste Batteries {tc V 5 "Waste Batteries"}

{PRIVATE } Waste Paint{tc \ \ \ 5 \ "Waste Paint"}

Waste Solvents

Wildlife

Bear-People Conflicts

The operation is in an area where bears may be encountered. Proper food handling and garbage disposal procedures should be followed to reduce the likelihood that bears will be attracted to the operation. Careful planning and attention to details of camp design and maintenance will decrease the attraction of bears to camp.

The applicant should follow procedures outlined in the "Safety in Bear Country Manual", and should contact the Regional/Area Biologist or the Renewable Resource Officer indicated below for information and advice on measures which should be taken to minimize the possibility of bear-people conflicts.

DSD Contacts

Manager, Wildlife, Fisheries

- Ian Ellsworth, (867) 857-2828

Renewable Resource Officer,

- nearest community to the land use activity

Biologist, Kivalliq Region, Arviat

- Mitch Campbell, (867) 857-2828

Caribou Protection Measures

See attached. [Recommendation of these conditions is not restricted to the Kaminuriak and Beverly herds (i.e., they may be applied to other herds as well).]

Peary Caribou (for Banks Island and High Arctic islands; not for Victoria Island)

Peary Caribou are a critically endangered subspecies which must not be harassed in any way. The applicant should be instructed not to harass these caribou, and to contact the Regional Biologist or Caribou Biologist in Pond Inlet (819) 979-8819 to obtain information on procedures required to prevent unintentional harassment.

Raptor Nesting Areas

The project area includes known raptor nesting sites and other areas where it is likely that raptors nest. To minimize negative impacts of this operation on raptors, the applicant should be advised to:

- (a) take care not to disturb nesting raptors from 15 April to 1 September by staying at least 1.5 km away from them when in transit by aircraft, and to avoid approaching them closely while on foot, and
- (b) contact the Regional Biologist in Arviat (857-2828) to identify areas which should be avoided.

The following clause could be included in the covering letter: "If raptors are disturbed during the nesting period, they often abandon the eggs or young. Loud, repeated noises and close approach by humans on foot are particularly harmful."

Low Level Flights

Aircraft activity with no specific requirements for low level flying should be restricted to a minimum altitude of 300m above ground level.

Storage of Chemicals Containing Salts

Chemicals containing salts, which may attract wildlife to the site, should be stored so that they are inaccessible to wildlife.

CARIBOU PROTECTION MEASURES1

- (a) The Permittee shall not, without approval, conduct any activity between May 15 and July 15 within the Kitikmeot region.
- (b) A Permittee may, upon approval by the Land Use Inspector (DIAND) or Land Manager (KIA), operate within the Kivaliq region beyond the May 15 deadline set out in 1(a), provided that when caribou cows are approaching the area of operation, the Permittee will implement 1 (c).
- (c) During the period of May 15 to July 15, the Permittee will suspend all operations, particularly blasting, overflights by aircraft at any altitude of less than 300 metres above ground level, and the use of snowmobiles and ATV's (all-terrain vehicles) outside the immediate vicinity of the camp, and all personnel will remain quietly in camp or, upon advice from the Land Use Inspector (DIAND) or Land Manager (KIA), the Permittee will remove all personnel from the site who are not required for the maintenance and protection of the camp facilities and equipment.
- (d) The Permittee may resume activities prior to July 15 if the caribou cows have ceased to use the area for calving or post-calving.
- (a) During migration of caribou, the Permittee shall not locate an operation so as to block or cause substantial diversion to migrating caribou.
- (b) The Permittee shall cease activities that may interfere with migration, such as airborne geophysics surveys or movement of equipment, until the migrating caribou have passed.
- The Permittee shall not construct any camp, cache any fuel or conduct blasting within 10 km, or conduct any diamond drilling operation within 5 km, of

Based on the Caribou Protection Measures (Qamanirjuaq and Beverly Herds) 1988, DIAND

any "Designated Crossing" as outlined on the map annexed to a Land Use Permit.

4. Concentrations of caribou should be avoided by low-level aircraft at all times.

Note: These caribou protection measures are provided as guidance for land users. There are a number of ways that these measures might be used. The following is from a Kitikmeot Inuit Association land use permit and is provided for illustration:

Protection measures would apply to industrial activity, though not necessarily tourism, outfitting or other activities. They could be implemented at least three different ways: as part of a regional land use plan (zoning); through the Nunavut Wildlife Management Board (wildlife regulations); and through terms and conditions attached to land use authorizations (land use regulations). For example, the Kitikmeot Inuit Association attaches caribou protection measures to permits it grants to companies seeking to work on its lands.²

- 35. The Permittee is given permission to conduct the approved land use operations between May 15 and July 15, provided that when caribou and muskox cows are approaching the area of operation, the Permittee shall cease blasting, over-flights by aircraft at any altitude less than 300 meters above ground level, and the use of snowmobiles and ATV's (all terrain vehicles) outside the immediate vicinity of the camp. Other activities shall also be suspended if caribou approach the immediate vicinity of the specific operation and the monitoring work described in clause indicates that there is stress on the animals.
- During the presence of caribou and muskox within sight and sound of a camp, all personnel will remain quietly in camp.
- 37. The Permittee may resume activities prior to July 15 if the caribou and muskox cows have ceased to use the area for calving and post-calving.
- 38. Raptor nesting sites and concentrations of nesting or moulting waterfowl should be avoided by aircraft at all times.
- 39. The Permittee shall not locate any operation so as to block or cause substantial diversion to migration of caribou.
- 40. The Permittee shall cease activities that may interfere with migration or calving, such as airborne geophysics surveys or movement of equipment, until the migrating caribou have passed.
- 41. The Permittee shall not conduct any operation within 5 km of any "Designated Crossing" as outlined on the map annexed to this Land Use Permit.

West Kitikmeot Regional Land Use Plan, Draft produced for Informal Public Hearing, Ikaluktutiak (Cambridge Bay) NT, 10-11 June 1998, pg. 84.

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T-740 P.03/33 F-879

CUMMENT FURM FUR NIRB SCREENINGS

The Nunavut Impact Review Board has a mandate to protect the integrity of the ecosystem for the existing and future residents of Nunavut. In order to assess the environmental and socio-economic impacts of project proposals, NIRB would like to hear your concerns, comments and suggestions about the following project application:

Project Title: Renewal of Wate	r Licence for Mulladina				
Fropogotton Bollerino	Lake, Kivallig NIRB#: 01WRD05				
Comments Due By: Friday Febru	ary 8-2004				
Indicate your concerns about the proje	mt managal balassa				
	□ traditional uses of land				
no concerns	☐ Inuit harvesting activities				
☐ water quality ☐ terrain	community involvement and consultation				
Dair quality	☐ local development in the area				
□ wildlife and their habitat	D tourism in the area				
☐ marine mammals and their habitat	Thuman health issuer . A				
D birds and their habitat	Mother: htermat/htenmatron				
🗅 fish and their habitat	Provide				
☐ heritage resources in area	The state of the s				
Please describe the concerns indicate	d above:				
When Salamittme any NIRB Screening, the Municipal					
When Salamithme any NIRB Screening the Municipal Boundary Should be shown on attacked maps if the project is withough the Vicinity of the Municipal					
the project is withough the vicinity of the Munraipal					
Doundary					
Do you have any suggestions or reco	mmendations for this application?				
N	1:1 do cichat opical				
Bettermapping as described above. Response the Should be increased, 4 days is hot enough.					
The state of the s					
The state of the s	hard at a facility of the state				
Do you support the project proposal?	YES Ø NO				
Any additional comments? If the project is outside the Manicipal Boundary.					
If the project is cuts,	role the municipal roundings.				
1 0	4				
A STATE OF THE STA	Later Town And I do b				
Name of person commenting: Kolden & Chapter of Kunkin lade					
Position: Commany Paul	Organiaation:				
Signature: That America	Date: 13/0/				



January 31, 2001

Gladys Joudrey Environmental Assessment Officer Nunavut Impact Review Board box 2379 Cambridge Bay, NU XOE OCO



Dear Ms. Joudrey:

Re: WMC KE96P090

This is to inform you that the WMC file is active. The original expiry date was September 30th, 2000, but it was extended to May 31, 2001.

If you have any other questions please call our office at (867) 645-2810 or fax us at (867) 645-3855.

Regards,

Tongola Bandy

Chief Land Administrator

c.c. Luis Manzo, Land Management Officer

FAX NO. 867. 8185

P. 01/02



Environment Environnement Canada Canada

Northern Division
Environmental Protection Branch
Prairie and Northern Region
#301 - 5204 - 50th Ave
Yellowknife, NT X1A 1E2
Ph. (867) 669-4700

Feb. 12, 2001

Qur File: 4703 001 001

Gladys Joudrey
Environmental Assessment Officer
Nunavut Impact Review Board
P.O. Box 2379
Cambridge Bay, NT X0E 0C0

By Facsimile: (867) 983-2594

Dionne Filiatrault Technical Advisor Nunavut Water Board P.O. Box 119, Gjoa Haven, NT X0E 1J0

By Facsimile: (867) 360-6369

Re: WMC International Renewal Application - NIRB File 01WR005; Water Licence NWB2MEL01 - Meliadine Lake Project

I have reviewed the above application on behalf of Environment Canada (EC), and offer the following comments for your consideration.

WMC International proposes to continue delineation drilling using three small diameter diamond drills, based from their existing camp to the south of Meliadine Lake. Proposed mitigation addresses concerns which pertain largely to waste management, including:

- treatment of drill effluent with removal of cuttings to a landfill, for all lake-based drilling;
- sump disposal of land-based drilling cuttings, with subsequent remedial measures;
- spill contingency planning and availability of spill cleanup kits at drilling sites and fuel storage locations:
- incineration of sewage and camp wastes, with non-combustibles disposed to a landfill;
- sump disposal of greywater;
- removal of waste oil and hazardous wastes to Rankin Inlet for disposal;

Comments and Recommendations

Two additives are listed for use in drilling operations. It should be noted that an assessment of CaCl as a toxic substance under the Canadian Environmental Protection Acts in the final stages, and that its use for ice-based drilling is discouraged. For use on land-based drilling, it is recommended that sump closure measures include documentation of effects on vegetation for holes which used CaCl as an additive. It should be ensured that any such sumps are a sufficient distance from water that runoff into streams or lakes doesn't occur.



Y. UZ/UZ

No details are provided at this time on drilling and sump locations. The following standard conditions should address concerns with siting and general operations.

- The applicant shall ensure that any drill cuttings, chemicals, fuel or wastes associated with the proposed project do not enter waters frequented by fish. All sumps, spill basins and fuel caches should be located a minimum of thirty (30) meters from the normal high water mark of any such waterbody.
- 2. EC encourages exploration companies, when storing barreled fuel at a location, to use a secondary container rather than relying on "natural depressions". There are self supporting instant berms now available from various suppliers within Canada and if these "insta-berms" are used properly it will virtually eliminate the possibility of ever having to deal with petroleum contaminated soils.
- 3. Drilling additives or mud shall not be used in connection with holes drilled through the lake ice unless they are recirculated or contained such that they do not enter the water, or demonstrated to be non-toxic.
- 4. With respect to access road construction, pad construction or other earthworks, the deposition of slash, debris or sediment into any waterbody is prohibited. These materials shall be disposed of above the high water mark in such a fashion that they do not enter the water,
- 5. If artesian flow is encountered, drill holes shall be plugged and permanently sealed upon project termination.
- 6. The permittee shall not erect camps or store material on the surface ice of streams or lakes.

Please do not hesitate to contact me at (867) 669-4735 with any questions or comments regarding the foregoing.

Yours truly,

Anne Wilson

Water Pollution Specialist

ma wilson

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