TMAC Resources Inc.

Revisions to TMAC Resources Inc. Amendment Application No. 1 of Project Certificate No. 003 and Water Licence 2AM-DOH1323





Package 3: NIRB and NWB Application Documents

Revisions to TMAC Resources Inc. - Amendment Application No. 1 of Project Certificate No. 003 and Water Licence 2AM-DOH1323

Regulatory Submission Outline

PACKAGE 1

Project Summary and Submission Outline

- P1-1 Plain Language Summary (translated)
- P1-2 Maps
- P1-3 Schedule for Implementation
- P1-4 Regulatory Submission Outline

PACKAGE 2

Project Description

P2-1 Project Description with Executive Summary (translated)

PACKAGE 3

NIRB and NWB Application Documents

- P3-1 NIRB Amendment Application Documents
- P3-2 NWB Amendment Application Documents
- P3-3 NPC Conformity Determination

PACKAGE 4

Environmental Effects Assessment

P4-1 Environmental Effects Assessment

PACKAGE 5

Management and Other Plans

- P5-1 Air Quality Management Plan
- P5-2 Interim Closure and Reclamation Plan
- P5-3 Water Management Plan
- P5-4 Waste Rock and Ore Management Plan

PACKAGE 6

Engineering and Design Documents

- P6-1 Doris Central Vent Raise Pad and Access Road
- P6-2 Doris Connector Vent Raise Pad and Access Road
- P6-3 Groundwater Inflow and Quality Model
- P6-4 Landfill
- P6-5 Reclamation and Security
- P6-6 Roberts Bay Discharge System: Water Management Options
- P6-7 Roberts Bay Discharge System: Surface Infrastructure
- P6-8 Roberts Bay Discharge System: Pump and Pipe Requirements
- P6-9 Roberts Bay Expanded Laydown Pads
- P6-10 Site-Wide Water and Load Balance
- P6-11 Storage Pad U
- P6-12 Tailings Geochemistry
- P6-13 Tailings Management System
- P6-14 Waste Rock and Ore Geochemistry, Static Testing
- P6-15 Waste Rock and Ore Geochemistry, Kinetic Testing

PACKAGE 7

Proponent Information

- P7-1 Financial Statements
- P7-2 List of Officers
- P7-3 Certificate of Incorporation



Package 3 NIRB and NWB Application Documents



Package 3 NIRB and NWB Application Documents

P3-1 NIRB Amendment Application Documents





PART 1 FORM PROJECT PROPOSAL INFORMATION REQUIREMENTS

To access NIRB documents, project screenings, and project reviews please visit the Nunavut Impact Review Board's ftp site http://ftp.nirb.ca/. The NIRB's website (www.nirb.ca) is currently under construction. Please contact info@nirb.ca should you have any questions or require further information.

IMPORTANT!

Please be advised that your application will not be processed until the Sections 1 - 9 are completed in their entirety, in both English and Inuktitut (+ Inuinnaqtun, if in the Kitikmeot).

	SECTION 1: APPLICANT	INFORM	ATION
1.	Project Name		
2.	Applicant's full name and mailing address:		
	TMAC Resources Inc.	Phone:	416.628.0216
	PO Box 44	_	
	95 Wellington Street West, Suite 1010	Fax:	
	Toronto, Ontario M5J 2N7	_ Email:	john.roberts@tmacresources.com
3.	Primary contact's full name and mailing address: John Roberts Vice President, Environmental Affairs	_ Phone: Fax:	416.628.0216
		_ Fmail:	john.roberts@tmacresources.com



SECTION 2: AUTHORIZATION NEEDED

Indicate <u>all</u> authorizations associated with the	ne project proposal:				
X Regional Inuit Association (RIA) X Nunavut Water Board (NWB) Nunavut Planning Commission (NPC) Government of Nunavut (GN) Community Government & Services (CG&S) Culture and Heritage (CH) Nunavut Research Institute (NRI) X Aboriginal Affairs and Northern Development	Canadian Launch Safety (CLS) Canadian Wildlife Service (CWS) Department of National Defense (DND) X Environment Canada (EC) X Fisheries and Oceans Canada (DFO) Parks Canada (PC) Hamlet Other (please specify):				
Canada (AANDC)	uthorizations related to the project proposal, and				
NWB Type A Water Licence No. 2AM-DOH1	323 (August 15, 2023)				
KIA Commercial Lease No. KTCL313D001 (September 13, 2018)				
KIA Quarry 2 Lease #KTP307Q010					
Fisheries Act Authorizations NU-02-01117.2	·				
Navigable Waters Protection Act Approval 8200-02-6565					
	AANDC Jetty lease 77A/3-1-4				
KIA Framework Agreement, including IIBA	and water Compensation Agreement				
<u> </u>	r authorizations related to the project proposal: I Amendments to Project Certificate No. 003 23 (submitted to the NIRB and the NWB				
*Please provide a copy of all applications to the NIRB.					
4. Has this project or any components of this p NIRB?	project been previously screened or reviewed by				
YES	□ NO				
If YES, indicate the previous project name and NIRB File No.					
 05MN047: Doris North Gold Mine, 2006; Applications for 12.8.2 Amendments Doris North Mine Modifications and Related Amendments to Project Certificate No. 3 and Type A Water Licence No. 2AM-DOH0713, 2011; Doris North Mine Modifications and Related Amendments to Project Certificate No. 003 and Type A Water Licence No. 2AM-DOH1323, 2013, including screening, review, Information Requests, proponent responses and NIRB public consultations. 					



SECTION 3: PROJECT PROPOSAL DESCRIPTION

1. Indicate the type of project proposal (check all that apply)^(1,2): (See Appendix A for Project Type Definitions)

1	All-Weather Road/Access Trail	9	Site Cleanup/Remediation	
2	Winter Road/ Winter Trail	10	Oil and Natural Gas Exploration/Activities	
3	Mineral Exploration	11	Marine Based Activities	
4	Advanced Mineral Exploration	12	Scientific/International Polar Year Research*	
5	Mine Development /Bulk Sampling	13	Harvesting Activities*	
6	Pits and quarries	14	Tourism Activities*	
7	Offshore Infrastructure (port, break water, dock)	15	Other ⁽²⁾ :	
8	Seismic Survey			

Please note:

- 1. All project types listed above, except those marked with an asterisk (*), will also require the Proponent to submit a **Part 2 Project Specific Information Requirement (PSIR) Form**. The NIRB application process will not be considered complete without the Part 2 PSIR Form.
- 2. Please be advised that in order to complete the NIRB process, the NIRB may request additional information at any time during the process.
- 3. If "Other" is selected, contact NIRB for direction on whether a Part 2 PSIR Form is required.

4.

2. If Project Type 3, 4 or 5 was selected in previous question, please indicate the mineral of interest that is being extracted. Include a brief description.

X	Base Metals (zinc, copper, gold, silver, etc) Gold
	Diamonds
	Uranium
	Other:

3a. If Project Type 12, 13 or 14 was selected above, complete the table and questions below.

Transportation Type	Quantity	Proposed Use	Length of Use



3b. Describe any docks, piers, air strips or related structures that are to be used in conjunction with the proposed project activities. **Please note**: the building of new structures may require a Part 2 Form.

The Roberts Bay Discharge System as described in enclosed *Package 2: Project Description* (TMAC. 2015) and *Package 6: Engineering and Design Documents of Revisions to TMAC Resources Inc. Amendment Application No. 1 of Project Certificate No. 003 and Type A Water Licence No. 2AM-DOH1323.*

There is an existing jetty and all weather airstrip that will be utilized during Project activities.

3c. If a temporary camp site is to be established, describe the proposed structures in detail and indicate the type and source of power for the camp site if applicable.					
4. Personnel Total No. of personnel on site = (A)	280	Total No. of days on-site	365		Total No. of Person days (A) × (B) = 102,200
5. Timing Period of operation:	from	Q4 201	6	to	Q4 2022
Proposed term of authorization:	from	ASAP		to	Aug 15, 2023 (2AM-DOH1323 expiry date
6a. Region (check all that apply): North Baffin Kivalliq X Kitikmeot Transboundary: South Baffin National Park 6b. Describe the location of the proposed project activities in a regional context, noting the proximity to the nearest communities and any protected areas. The Doris North Mine is part of TMAC's Hope Bay Project, located 685 km northeast of Yellowknife, Northwest Territories, and 125 km southwest of Cambridge Bay, Nunavut Territory, and is situated east of Bathurst Inlet, Nunavut Territory. The nearest settlements are Umingmaktok, located 75 km to the west and Kingoak (Bathurst Inlet), located 110 km southwest.					
The centroid of the I and 107° W longitud		approximately 1	60 km abov	e the A	rctic Circle at 67º30' N latitude
6c. Discuss the history of the site if it has been used for any project activities in the past.					
Mine construction commenced as per Project Certificate No. 003 with project placed on care and maintenance prior to completion in 2012. There has been no production to date and no mine tailings have been generated.					
6d. Indicate if there a	re any know	vn archaeological/p	oalaeontolo	gical his	torical sites in the area.
The majority of the Project area has been surveyed in detail and archaeological sites within most					

A reconnaissance level survey of the area within the footprint of the Roberts Bay Discharge Access Road and margins of the west and southwest pads at the Roberts Bay Expanded Laydown Area has been conducted and there are no archaeological sites recorded. A detailed survey of

of the proposed expanded footprint area are known, documented and mitigable.

these areas is planned for summer 2015.



Further detail on the archaeology assessment planned and conducted can be found in the enclosed *Package 4: Environmental Effects Assessment* submitted as part of *Revisions to TMAC Resources Inc. Amendment Application No. 1 of Project Certificate No. 003 and Type A Water Licence No. 2AM-DOH1323.*

7. Land Status (check all	that applies):		
X Crown (Jetty) X Inuit Owned Surface	Lands X Commissio	ners' M d Sub-Surface Lands	unicipal
8a. Co-ordinates:			
Min Lat (degree/minute)	68° 06' N	Min Long (degree/minute)	106° 32' W
Max Lat (degree/minute)	68° 11' N	Max Long (degree/minute)	106° 38' W
(Please ensure that maps of the Resources Canada)	, ,	0 if available, 1:250, 000 Mandatory se provide the coordinates of t	,
Min Lat (degree/minute)	68° 08' 16.5" N	Min Long (degree/minute)	106° 36' 52.6" W
Max Lat (degree/minute)		Max Long (degree/minute)	
If different from above NTS Map Sheet No: Please ensure that maps of the Resources Canada	·) if available, 1:250, 000 Mandatory)	available from Natural

Please note that additional location information may be required in a subsequent Project Specific Information Requirement (PSIR) submission. This may take the form of a digital Geographic Information Systems (GIS) file.

SECTION 4: NON-TECHNICAL PROJECT PROPOSAL DESCRIPTION

Please include a non-technical description of the project proposal, no more than 500 words, in English and Inuktitut (+Inuinnaqtun, if in the Kitikmeot). The project description should outline the following:

- The project activities, their necessity and duration;
- Method of transportation;
- Any structures that will be erected (permanent/ temporary);
- Alternatives considered; and
- Long-term developments, the projected outcome of the development for the area and its timeline.

<u>IMPORTANT:</u> If the proposed activities require submission of a NIRB Part 2 PSIR Form, please complete Section 8 only, otherwise continue on with Section 5.

Refer to the enclosed *Package 1: Project Summary and Submission Outline* submitted as part of *Revisions to TMAC Resources Inc. Amendment Application No. 1 of Project Certificate No. 003 and Type A Water Licence No. 2AM-DOH1323.*



SECTION 5: MATERIAL USE

1. List equipment to be used (including drills, pumps, aircraft, vehicles, etc.):

Refer to enclosed *Package 2: Project Description* and *Package 6: Engineering and Design Documents*, submitted as part of *Revisions to TMAC Resources Inc. Amendment Application No. 1 of Project Certificate No. 003 and Type A Water Licence No. 2AM-DOH1323.*

2a. Detail fuel and hazardous material use:

Refer to the enclosed *Package 2: Project Description* and *Package 6: Engineering and Design Documents*, submitted as part of *Revisions to TMAC Resources Inc. Amendment Application No. 1 of Project Certificate No. 003 and Type A Water Licence No. 2AM-DOH1323.*

Fuel and hazardous materials and handling will occur within existing permitted facilities. No additional storage containers and systems are planned.

2b. Describe the proposed Spill Prevention Plan.

Spill prevention and response will occur in accordance with the currently approved plan, *Hope Bay Mining Limited Spill Contingency Plan HB-ER-ENV-MP-001 (REV 5*; Oct 2012).

3a. Detail the anticipated daily water consumption rates

There will be no change in surface water withdrawal rates as approved pursuant to Project Certificate No. 003 and 2AM-DOH1323.

Windy Lake will become the permanent domestic water source (Windy Lake is temporarily permitted as the Doris domestic water source, under 2BE-HOP1222).

Daily amount (m³)	Proposed water retrieval methods	Proposed water retrieval location

Bb. Have you applied for a water License* with the N	Nunavut Water Board?	
X YES		NO
If yes, what class of licence?		
X Class A Water Licence (amendment to current Type A water licence 2AM-DOH1323)		Class B Water Licence

*Please provide a copy of the application or licence to the NIRB.



SECTION 6: WASTE DISPOSAL AND TREATMENT METHODS

1. List the types of waste associated with the proposed project activities:

It is expected that groundwater inflow will occur while mining under Doris Lake. While some water may be used for underground drilling purposes, the majority of this water will be directed to the wastewater management system and discharged to Roberts Bay. This is discussed further in enclosed *Package 2: Project Description, Package 4: Environmental Effects Assessment, Package 5 Management and Other Plans* and *Package 6: Engineering and Design Documents*, submitted as part of *Revisions to TMAC Resources Inc. Amendment Application No. 1 of Project Certificate No. 003 and Type A Water Licence No. 2AM-DOH1323.*

There are no changes to the types of waste produced by the Project as approved per Project Certificate No. 003 and 2AM-DOH1323.

2. Describe the proposed Waste Management Plan.

Waste management will continue to occur in accordance with the current plans:

Hazardous Waste Management Plan March 2012 (Rev 1.1; approved); Incinerator Management Plan, March 2012 (Rev1.1; approved); Interim Non-Hazardous Waste Management Plan March 2012 (Rev 1.1); Interim Water Management Plan (Feb 2012; approved); Landfarm Management Plan (Mar 2014); and Wastewater Treatment Management Plan, October 2012 (Rev 3; approved).

A revised Waste and Rock and Ore Management Plan (2015) is included in the enclosed Package 5
Management and Other Plans, submitted as part of Revisions to TMAC Resources Inc.
Amendment Application No. 1 of Project Certificate No. 003 and Type A Water Licence No. 2AM-DOH1323

At least 6 months prior to operating the non-hazardous waste landfill, a *Landfill Management Plan* will be submitted.

At least 6 months prior to depositing tailings, a Tailings Management Plan will be submitted.

For further information on waste management and waste management infrastructure, refer to enclosed *Package 2: Project Description* and *Package 6: Engineering and Design Documents*, submitted as part of *Revisions to TMAC Resources Inc. Amendment Application No. 1 of Project Certificate No. 003 and Type A Water Licence No. 2AM-DOH1323.*

SECTION 7: COMMUNITY INVOLVEMENT & REGIONAL BENEFITS

1. List the community representatives that have been contacted and provide the minutes of the meetings if available:

The enclosed *Package 2: Project Description*, submitted as part of *Revisions to TMAC Resources Inc. Amendment Application No. 1 of Project Certificate No. 003 and Type A Water Licence No. 2AM-DOH1323*, includes a summary of engagements conducted to date, which pertain to this application scope.



SECTION 8: GENERAL QUESTIONS

1. Will you be disturbing any known archaeological sites?							
□YES	□YES □NO						
At present, it cannot be confirmed whether or not any archaeological remains will be affected. Field studies to be conducted in Summer 2015 will clarify our response to this question. Any archaeological sites that are found within or in close proximity to the proposed footprint will be protected or mitigated in consultation with the Department of Culture and Heritage officials.							
Refer to Section 6b of this Form for	further comment on archaeology.						
SECTION	N 9: APPLICANT SIGNATURE						
Please sign and date your application	on:						
Jah of							
M. John Roberts	Vice President, Environmental Affairs	June 10, 2015					
Signature	Title	Date					



APPENDIX A Project Type Definitions

- **Access Trail**: A project proposal with the objective of providing vehicular access to an area of interest involving minimal alteration to the terrain.
- **Advanced Exploration:** A project proposal with the objective of identifying size, grade, and physical characteristics of a mineral occurrence and to assess the economic and technical feasibility of developing the mineral deposit into a producing mine
- **All-Weather Road:** A project proposal with the objective of road construction for use in all seasons.
- **Bulk Sampling:** A project proposal with the objective of extracting of large samples of mineralized material involving hundreds to thousands of tonnes. Samples are selected as representative of the potential mineral deposit being sampled. May involve crushing/milling (on small-scale)
- **Harvesting activities:** A project proposal with the objective of harvesting animals, marine mammals and/or fish from their natural habitats by means of hunting or trapping for traditional and commercial use.
- **Marine Based Activities:** Any activity occurring in the marine environment, such as vessel use associated with land-based activities or disposal at sea.
 - *Please note that normal community re-supply or individual ship movements not associated with land-based project proposals shall not be screened by NIRB (Section 12.12.2 of NLCA).
- **Mine Development:** A project proposal with the objective of extracting broken rock with mineralization of sufficient grade and tonnage to sustain commercial mining operations (ore). Mining a body of ore can be achieved by either open pit and/or underground development. Mine development may involve milling. Milling involves treatment of the extracted ore through a combination of mechanical and chemical processes to selectively recover the valuable mineral.
- **Mineral Exploration:** A project proposal with the objective of exploring an area to find geological anomalies. It involves site reconnaissance (ground and/or air) to locate broad and fiscal mineral deposits.
- **Offshore Infrastructure:** A project proposal with the objective of building off loading facilities constructed off the shoreline and connected to the mainland of the marine or freshwater environment. Examples include a jetty, dock, or port facility.
- **Oil and Gas Exploration/Activities:** A project proposal that includes 1) exploration, such as seismic or geological mapping, 2) drilling of oil and gas wells, 3) construction and operation of a pipeline, a gas processing plant or any oil and gas facility within Nunavut.
- **Pits and Quarries:** A project proposal with the objective of pitting, which involves the extraction of granular material (i.e. sands and gravels) and quarrying, which involves the removal of consolidated rock (i.e. bedrock, frozen soil).
- **Scientific Research:** A project proposal with the objective of implementing a series of site activities comprised of observation of phenomena, measurement and collection of data necessary for scientific investigation in designated areas within a limited time period.
- **Seismic Survey:** A project proposal with the objective of conducting a survey to map the depths and contours of rock strata by timing the reflections of sound waves released from the surface. Survey site locations may be offshore (not within 12 nautical miles of any coast), near shore, and extended onshore.
- **Site Cleanups:** A project proposal with the objective of site cleanups (includes DEW line site cleanups), which focuses on the remediation of chemically contaminated soils, stabilization of landfills and dumps, demolition/disposal of infrastructure and debris and monitoring after cleanup is completed.



- **Tourism Activity:** A project proposal with the objective of conducting travel predominantly for recreational, sport or leisure purposes within a designated area and limited time period.
- **Winter Road:** A project proposal with the objective of building a road for winter use by leveling and compacting surface snow and ice. Winter road is removed at end of season.
- **Winter Trail:** A project proposal with the objective of building a trail for winter use by a single pass of a tracked vehicle using a blade, if necessary.

		Location (package) within application*	Location (section) within application
1. GENEI	RAL PROJECT INFORMATION REQUIREMENTS		
Project Co	oordinates and Maps		
1	The preferred method for submitting project coordinates information is through the use of a Geographic Information System (GIS) compatible digital file.	n/a	
2	Map of the project site within a regional context indicating the distance to the closest communities.	P1-2	-
3	Map of any camp site including locations of camp facilities.	P1-2	-
4	Map of the project site indicating existing and/or proposed infrastructure, proximity to water bodies and proximity to wildlife and wildlife habitat.	P1-2	-
Project G	eneral Information		
5	Discuss the need and purpose of the proposed project.	P2-1	1.3
6	Discuss alternatives to the project and alternative methods of carrying out the project, including the no-go alternative. Provide justification for the chosen option(s).	P2-1	1.4
7	Provide a schedule for all project activities.	P1-3	-
8	List the acts, regulations and guidelines that apply to project activities.	P2-1	1.5
9	List the approvals, permits and licenses required to conduct the project.	P2-1	1.6
DFO Ope	erational Statement (OS) Conformity		
10	Indicate whether any Department of Fisheries and Oceans (DFO) Operational Statement (OS) activities apply to the project proposal	n/a	

^{*} Note: n/a is not applicable to this application

		Location (package) within application*	Location (section) within application
11	If any of the DFO's OS apply to the project proposal, does the Proponent agree to meet the conditions and incorporate the measures to protect fish and fish habitat as outlined in the applicable OS? If yes, provide a signed statement of confirmation.	will consider available DFO guidance: - DFO Protocol for Winter Water Withdrawal from Ice-Covered Waterbodies - Fisheries protection policy statement - Framework for Assessing the Ecological Flow Requirements to Support Fisheries in Canada DFO. 2013c. Measures to Avoid Causing Harm to Fish and Fish Habitat. Fisheries and Oceans Canada. http://www.dfompo.gc.ca/pnw-ppe/measures-mesures/measures-me	
Transporta	tion		
12	Describe how the project site will be accessed and how supplies will be brought to site. Provide a map showing access route(s).	no change requested to current Project components and activities	
13	If a previous airstrip is being used, provide a description of the type of airstrip (ice-strip/all-weather), including its location. Describe dust management procedures (if applicable) and provide a map showing location of airstrip.	no change requested to current Project components and activities	

^{*} Note: n/a is not applicable to this application

		Location (package) within application*	Location (section) within application
14	If an airstrip is being constructed, provide the following information: a. Discuss design considerations for permafrost b. Discuss construction techniques c. Describe the construction materials, type and sources, and the acid rock drainage (ARD) and metal leaching (ML) characteristics (if rock material is required for airstrip bed). d. Describe dust management procedures. e. Provide a map showing location of proposed airstrip.	n/a	
15	Describe expected flight altitudes, frequency of flights and anticipated flight routes.	no change requested to current Project components and activities	
Camp Site			
16	Describe all existing and proposed camp structures and infrastructure	P2-1	3.11
17	Describe the type of camp: a. Mobile b. Temporary c. Seasonal d. Permanent e. Other	P2-1	3.11
18	Describe the maximum number of personnel expected on site, including the timing for those personnel involved with the project.	P2-1	3.11
Equipmen	14 /		
19	Provide a list of equipment required for the project and discuss the uses for the equipment.	no change requested to current Project components and activities. Available equipment onsite to be used	
20	If possible, provide digital photos of equipment.	n/a	
Water	• • •		
21	Describe the location of water source(s), the water intake methods, and all methods employed to prevent fish entrapment. Provide a map showing the water intake locations.	P2-1	3.4
22	Describe the estimated rate of water consumption (m³/day).	P2-1	3.4
23	Describe how waste water will be managed. If relevant, provide detail regarding location of sumps, including capacity of sumps and monitoring.	P2-1	3.6.3

^{*} Note: n/a is not applicable to this application

		Location (package) within application*	Location (section) within application
24	If applicable, discuss how surface water and underground water will be managed and monitored.	P2-1	3.6.3
Waste Wat	er (Grey water, Sewage, Other)		
25	Describe the quantities, treatment, storage, transportation, and disposal methods for the following (where relevant): - Sewage - Camp grey wate - Combustible solid waste - Non-combustible solid waste, including bulky items/scrap metal - Hazardous waste or oil - Contaminated soils/snow - Empty barrels/fuel drums - Any other waste produced	P6-4, P6-6	
26	If the project proposal includes a landfill or landfarm, indicate the locations on a map, provide the conceptual design parameters, and discuss waste management and contact-water management procedures.	P2-1	3.12
Fuel	<u> </u>		
27	Describe the types of fuel, quantities (number of containers, type of containers and capacity of containers), method of storage and containment. Indicate the location on a map where fuel is to be stored, and method of transportation of fuel to project site.	no change requested to current Project components and activities	
28	Describe any secondary containment measures to be employed, including the type of material or system used. If no secondary containment is to be employed, please provide justification.	n/a	
29	Describe the method of fuel transfer and the method of refuelling.	n/a	
30	Describe spill control measures in place.	n/a	
	and Hazardous Materials*		
	at not timited to outs, greases, artif mad, antifreeze, calcium or soutum		
31	Describe the types, quantities (number of containers, the type of container and capacity of containers), method of storage and containment. Indicate the location on a map where material is to be stored, and method of transportation of materials to project site.	no change requested to current Project components and activities	
32	Describe any secondary containment measures to be employed, including the type of material or system used.	no change requested to current Project components and activities	

^{*} Note: n/a is not applicable to this application

		Location	Location
		(package) within	(section) within
		application*	application
	T		
		no change	
		requested to	
33	Describe the method of chemical transfer.	current Project	
		components and	
		activities	
		no change	
2.4		requested to	
34	Describe spill control measures in place.	current Project	
		components and	
		activities	
Workforce	and Human Resources/Socio-Economic Impacts		
35	Discuss opportunities for training and employment of local Inuit	P2-1	4.1
	beneficiaries.	1-1	-11-
	Discuss workforce mobilization and schedule, including the		
36	duration of work and rotation length, and the transportation of	P2-1	4.1
	workers to site.		
37	Discuss, where relevant, any specific hiring policies for Inuit	P2-1	4.1
	beneficiaries.	1-1	-111
Public Inv	olvement/ Traditional Knowledge		
38	Indicate which communities, groups, or organizations would be	P2-1	4.2
- 50	affected by this project proposal.	121	1,2
	Describe any consultation with interested Parties which has		
39	occurred regarding the development of the project proposal.	P2-1	4.2
	Provide a summary of public involvement measures, a summary		
40	of concerns expressed, and strategies employed to address any	P2-1	4.3
	concerns.		
41	Describe how traditional knowledge was obtained, and how it	P2-1	4.4
	has been integrated into the project.	121	1.1
42	Discuss future consultation plans.	P2-1	4.3
2. PROJEC	T SPECIFIC INFORMATION		
SECTION	A: Roads/Trails		
A-1. Projec	et Information		
	Describe any field investigations and the results of field		
1	investigations used in selecting the proposed route (e.g.	P6-1, P6-2, P6-7	
	geotechnical, snow pack)		
2	Provide a conceptual plan of the road, including example road	D6 1 D6 2 D6 7	
	cross-sections and water crossings.	P6-1, P6-2, P6-7	
	Discuss the type and volume of traffic using the road/trail (i.e.		
3	type of vehicles and cargo and number of trips annually).	P6-1, P6-2, P6-7	
	1 2 2	,	
4	Discuss public access to the road.	n/a	
		no change	
_		requested to	
5	Describe maintenance procedures.	current Project	
		components and	
		activities	

^{*} Note: n/a is not applicable to this application

		Location (package) within application*	Location (section) within application
6	Describe whether any portion of the road will be located outside of the Nunavut Settlement Area and whether any other regulatory requirements must be met (e.g. CEAA).	n/a	
A-2. All-W	eather Road/Access Trail		
7	Discuss road design considerations for permafrost.	P6-1, P6-2, P6-7	
8	Describe the construction materials (type and sources for materials), and the acid rock drainage (ARD) and metal leaching characteristics of the construction materials.	P6-1, P6-2, P6-7	
9	Discuss construction techniques, including timing for construction activities.	P6-1, P6-2, P6-7	
10	Indicate on a map the locations of designated refuelling areas, water crossings, culverts, and quarries/borrow sources.	P6-1, P6-2, P6-7	
11	Identify the proposed traffic speed and measures employed to ensure public safety.	n/a	
12	Describe dust management procedures.	P5-1	
SECTION	B: Mineral Exploration/Advanced Exploration/Developm		
B-1. Projec	t Information		
1	Describe the type of mineral resource under exploration.	n/a	
B-2. Exploi	ration Activity		
2	Indicate the type of exploration activity: - Bulk Sampling (underground or other) - Stripping - Trenching - Pitting - Delineation drilling - Prelimnary delineation drilling - Exploration Drilling - Geophysical Work (ground and/or air)	n/a	
	- Other		

^{*} Note: n/a is not applicable to this application

		Location (package) within application*	Location (section) within application
3	Describe the exploration activities associated with this project: - Satellite remote sensing - Aircraft remote sensing - Soil sampling - Sediment sampling - On land drilling (indicate drill type) - On ice drilling (indicate drill type) - Water based drilling (indicate drill type) - Overburden removal - Explosives transportation and storage - work within navigable waters - On site sample processing - Off site sample processing - Waste rock storage - Ore storage - Tailings disposal - Portal and underground ramp construction - Landfilling - Landfarming - Other	n/a	
B-3. Geosc	iences		
4	Indicate the geophysical operation type: a. Seismic b. Magnetic c. Gravimetric d. Electromagnetic e. Other	n/a	
5	Indicate the geological operation type: a. Geological Mapping b. Aerial Photography c. Geotechnical Survey d. Ground Penetrating Survey e. Other	n/a	
6	Indicate on a map the boundary subject to air and/or ground geophysical work.	n/a	
7	Provide flight altitudes and locations where flight altitudes will be below 610m.	n/a	
B-4. Drilli	ng		
8	Provide the number of drill holes and depths (provide estimates and maximums where possible).	n/a	
9	Discuss any drill additives to be used.	n/a	
10	Describe method for dealing with drill cuttings.	n/a	
11	Describe method for dealing with drill water.	n/a	
12	Describe how drill equipment will be mobilized.	n/a	
13	Describe how drill holes will be abandoned.	n/a	

^{*} Note: n/a is not applicable to this application

If project proposal involves uranium exploration drilling, discuss the potential for radiation exposure and radiation protection measures. Please refer to the Canadian Guidelines for Naturally Occurring Radiacitive Materials for more information. B-5. Stripping/ Trenching/ Pit Excavation 15 Discuss methods employed. (i.e. mechanical, manual, hydraulic, blasting, other) Describe expected dimensions of excavation(s) including depth(s). 17 Indicate the locations on a map. 18 Discuss the expected volume material to be removed. 19 Discuss methods used to determine acid rock drainage (ARD) and metal leaching potential and results. B-6. Underground Activities 20 Describe underground access. 21 Describe underground workings and provide a conceptual plan. 22 Show location of underground workings on a map. 23 Describe the method for dealing with ground ice, groundwater and mine water when encountered. 25 Provide a Mine Rescue Plan. Con file with Nu Mines Inspector B-7. Waste Rock Storage and Tailings Disposal Indicate on a map the location and conceptual design of waste rock storage piles and tailings disposal facility. 27 Discuss the anticipated volumes of waste rock and tailings. 28 Bosus methods used to determine acid rock drainage (ARD) and metal leaching (ML) potential and results. 30 Describe the types of material to be stockpiled. (i.e. ore, overburden) 31 Describe the provential to be stockpiled. (i.e. ore, overburden) Describe the anticipated volumes of each type of material to be stockpiled. 32 Describe the anticipated volumes of each type of material to be stockpiled. 32 Describe the anticipated volumes of each type of material to be stockpiled. 34 Describe the provential measures for stockpiled materials as well as treatment measures for runoff from the stockpile. 35 Describe the Autivities 36 Discuss methods used to determine acid rock drainage (ARD) and metal leaching (ML) potential and results.			Location (package) within application*	Location (section) within application
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17	16	Describe expected dimensions of excavation(s) including	n/a	
Discuss the expected volume material to be removed. n/a	17		n/a	
Discuss methods used to determine acid rock drainage (ARD) and metal leaching potential and results.	-			
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B-7. Waste Rock Storage and Tailings Disposal 26	24		P2-1	3.2
Indicate on a map the location and conceptual design of waste rock storage piles and tailings disposal facility. P2-1 3.7	25	Provide a Mine Rescue Plan.		
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and metal leaching (ML) potential and results.	32	•	P2-1	3.7
	33		P2-1	3.7
	B-9. Mine	•		

^{*} Note: n/a is not applicable to this application

		Location (package) within application*	Location (section) within application
34	Indicate the type(s) of mine development activity(s): - Underground - Open Pit - Strip Mining - Other	P2-1	3.2
35	Describe mine activities.	P2-1	3
	- Mining development plan and methods - Mine development plan - Site access - Site infrastructure - Milling process - Water source(s) for domestic and industrial uses, required volumes, distribution and management - Solid waste, wastewater and sewage management - Water treatment systems - Hazardous waste management - Ore stockpile management - Tailings containment and management - waste rock management - Site surface Water management - Mine Water management - Pitting and quarrying activities - Explosives use, supply and storage - Power generation, fuel requirements and storage - Continuing exploration - Other	P2-1	3
36	Describe the explosive type(s), hazard class, volumes, uses, location of storage (show on map), and method of storage.	P2-1	3.13
B-10. Geo	logy and Mineralogy		
37	Describe the physical nature of the ore body, including known dimensions and approximate shape.	P2-1	2.1
38	Describe the geology/ mineralogy of the ore deposit	P2-1	2.1
39	Describe the host rock in the general vicinity of the ore body.	P2-1	2.1
40	Discuss the predicted rate of production.	P2-1	2.1
41	Describe mine rock geochemical test programs which have been or will be performed on the ore, host rock, waste rock and tailings to determine acid generation and contaminant leaching potential. Outline methods and provide results if possible.	P2-1	2.2
B-11. Min		70.1	
42	Discuss the expected life of the mine.	P2-1	3.2
43	Describe mine equipment to be used. Does the project proposal involve lake and/or pit dewatering? If so, describe the activity as well as the construction of water retention facilities if necessary.	n/a n/a	

^{*} Note: n/a is not applicable to this application

		Location (package) within application*	Location (section) within application
45	Discuss the possibility of operational changes occurring during the mine life with consideration for timing. (e.g. open pit to underground)	n/a	
46	If project proposal involves uranium mining, consider the potential for radiation exposure and radiation protection measures. Particular attention should be paid to <i>The Nuclear Safety and Control Act</i> .	n/a	
B-12. Mill			
47	If a mill will be operating on the property in conjunction with mining, indicate whether mine-water may be directed to the mill for reuse.	P2-1	3.3
48	Describe the proposed capacity of the mill.	P2-1	3.3
49	Describe the physical and chemical characteristics of mill waste as best as possible.	P2-1	3.3
50	Will or does the mill handle custom lots of ore from other properties or mine sites?	P2-1	3.3
SECTION			
1	Describe all activities included in this project: - Pitting - Quarrying - Overburden removal - Road use and/or construction - Explosives transportation and storage - Work within navigable waters - Blasting - Stockpiling - Crushing - Washing - Other	n/a	
2	Describe any field investigations and the results of field investigations used in determining new extraction sites.	n/a	
3	Identify any carving stone deposits.	n/a	
4	Provide a conceptual design including footprint.	n/a	
5	Describe the type and volume of material to be extracted.	n/a	
6	Describe the depth of overburden.	n/a	
7	Describe any existing and potential for thermokarst development and any thermokarst prevention measures.	n/a	
8	Describe any existing or potential for flooding and any flood control measures.	n/a	
9	Describe any existing or potential for erosion and any erosion control measures.	n/a	
10	Describe any existing or potential for sedimentation and any sedimentation control measures.	n/a	
11	Describe any existing or potential for slumping and any slump control measures.	n/a	
12	Describe the moisture content of the ground.	n/a	
13	Describe any evidence of ice lenses.	n/a	

^{*} Note: n/a is not applicable to this application

	, -		
		Location (package) within application*	Location (section) within application
14	If blasting, describe methods employed.	n/a	
15	Describe the explosive type(s), hazard class, volumes, uses, location of storage (show on map), and method of storage.	n/a	
16	Discuss methods used to determine acid rock drainage (ARD) and metal leaching (ML) potential and results.	n/a	
17	Discuss safety measures for the workforce and the public.	n/a	
3. DESCI	RIPTION OF THE EXISTING ENVIRONMENT		
Physical	Environment		
	§ Proximity to protected areas, including:	n/a	
	§ Eskers and other unique landscapes (e.g. sand hills, marshes, wetlands, floodplains).	P4-1	3.3
	§ Evidence of ground, slope or rock instability, seismicity.	P6-3, P6-11	
	§ Evidence of thermokarsts.	P6-3, P6-11	
	§ Evidence of ice lenses.	P6-3, P6-11	
	§ Surface and bedrock geology.	P2-1	2.1
	§ Topography.	P6-11	4.5
	§ Permafrost (e.g. stability, depth, thickness, continuity, taliks).	P6-11	4.5
	§ Sediment and soil quality.	n/a	
	§ Hydrology/ limnology (e.g. watershed boundaries, lakes, streams, sediment geochemistry, surface water flow, groundwater flow, flood zones).	P4-1	2.3
	§ Tidal processes and bathymetry in the project area (if applicable).	P4-1	4.3
	§ Water quality and quantity.	P4-1	4.3
	§ Air quality.	P4-1	3.2
	§ Climate conditions and predicted future climate trends.	P4-1	n/a
	§ Noise levels.	P4-1	3.2
	§ Other physical Valued Ecosystem Components (VEC) as determined through community consultation and/or literature review.	P4-1	All
Biologica	al Environment		
	§ Vegetation (terrestrial as well as freshwater and marine where applicable).	P4-1	3.3
	§ Wildlife, including habitat and migration patterns.	P4-1	3.3 & 4.4
	§ Birds, including habitat and migration patterns.	P4-1	3.3 & 4.4
	§ Species of concern as identified by federal or territorial		
	agencies, including any wildlife species listed under the <i>Species</i> at Risk Act (SARA), its critical habitat or the residences of individuals of the species.	P4-1	3.3 & 4.4
	§ Aquatic (freshwater and marine) species, including habitat and migration/spawning patterns.	P4-1	3.3 & 4.4
	§ Other biological Valued Ecosystem Components (VEC) as determined through community consultation and/or literature review.	P4-1	All
	•	1	

^{*} Note: n/a is not applicable to this application

		Location (package) within application*	Location (section) within application
Socioecon	omic Environment		
	§ Proximity to communities.	P4-1	6.2
	§ Archaeological and culturally significant sites (e.g. pingos, soap stone quarries) in the project (Local Study Area) and adjacent area (Regional Study Area).	P4-1	5.0
	§ Palaeontological component of surface and bedrock geology.	n/a	
	§ Land and resource use in the area, including subsistence harvesting, tourism, trapping and guiding operations.	n/a	
	§ Local and regional traffic patterns.	n/a	
	§ Human Health, broadly defined as a complete state of wellbeing (including physical, social, psychological, and spiritual aspects).	P4-1	6.2
	§ Other Valued Socioeconomic Components (VSEC) as determined through community consultation and/or literature review.	P4-1	6.0
4. IDENTI	IFICATION OF IMPACTS AND PROPOSED MITIGATION MEA		
1	Please complete the attached Table 1 – Identification of Environmental Impacts, taking into consideration the components/activities and project phase(s) identified in Section 4 of this document. Identify impacts in Table 1 as either positive (P), negative and mitigable (M), negative and non-mitigable (N), or unknown (U).	P3-1	-
2	Discuss the impacts identified in the above table.	P4-1	All
3	Discuss potential socioeconomic impacts, including human health.	P4-1	All
4	Discuss potential for transboundary effects related to the project.	n/a	
5	Identify any potentially adverse effects of the project proposal on species listed under the <i>Species at Risk Act (SARA)</i> and their critical habitats or residences, what measures will be taken to avoid or lessen those effects and how the effects will be monitored.	P4-1	All
6	Discuss proposed measures to mitigate all identified negative impacts.	P4-1	All
5. CUMUI	LATIVE EFFECTS		
	Discuss how the effects of this project interact with the effects of relevant past, present and reasonably foreseeable projects in a regional context.	P4-1	All
6. SUPPO	RTING DOCUMENTS		
	Where relevant, provide the following supporting documents:		
	Abandonment and Decommissioning Plan	P5-2	-
	Existing site photos with descriptions	P1, P4 and P5-2	All
	Emergency Response Plan	n/a	

^{*} Note: n/a is not applicable to this application

	Location (package) within application*	Location (section) within application
Comprehensive Spill Prevention/Plan (must consider hazardous waste and fuel handling, storage, disposal, spill prevention measures, staff training and emergency contacts)	n/a	
Waste Management Plan/Program	P5-4	-
Monitoring and Management Plans (e.g. water quality, air pollution, noise control and wildlife protection etc.)	P5-1 (Air Quality) P5-3 (Water Management Plan) P5-4 (Waste Rock Management Plan)	-
If project activities are located within Caribou Protection Areas or Schedule 1 Species at Risk known locations, please provide a Wildlife Mitigation and Monitoring Plan	n/a	
In addition, for Project Type 9 (Site Cleanup/Remediation), please provide the following additional supporting documents:		
§ Remediation Plan including cleanup criteria and how the criteria were derived.	n/a	
§ Human Health Risk Assessment of the contaminants at the site.	n/a	

^{*} Note: n/a is not applicable to this application

Revisions to TMAC Resources Inc. Amendment Application No. 1 of Project Certificate 003 and Water Licence 2AM-DOH1323

Screening Part 2 Form, Project Specific Information Requirements (PSIR)

TABLE 1 - IDENTIFICATION OF ENVIRONMENTAL IMPACTS

P = Positive N = Negative and non-mitigatable M = Negative and mitigatable U = Unknown If no impact is expected cell is blank

	Potential Effect	Air Quality	quality from emissions due to increased equipment use, a higher rate of ore processing, waste incineration	fugitive dust from a higher rate of materials handling,	Reduced air quality due to fugitive dust from subaerial deposition of tailings	Noise	Changes to noise levels due to movement of additional vehicles, increased rate of materials handling, ore processing.	Alteration of the active layer due to expanded footprint.	Groundwater	Changes in groundwater quality due to interaction of talik and deep groundwater.	Marine	er Quality and Sediment Qua	effluent and groundwater to Roberts Bay has the potential to influence the water and	Discharge of Tailings Impoundment Area (TIA) effluent and groundwater to Roberts Bay has the potential to influence ice thickness	ıms, Fish	Changes to water quality as a result of TIA effluent and groundwater discharge to Roberts Bay	Installation and decommissioning of the subsea pipeline and diffuser system has the potential to affect fish habitat.
Project Phase	Construction		M	M	M			M					M	M		M	M
	Operations		M	M	M			M					M	M		M	M
	Closure							M									

TABLE 1 - IDENTIFICATION OF ENVIRONMENTAL IMPACTS (continued)

P = Positive N = Negative and non-mitigatable M = Negative and mitigatable U = Unknown If no impact is expected cell is blank

	Potential Effect	Marine Wildlife	Changes to water quality as a result of TIA effluent and groundwater discharge to Roberts Bay	Freshwater	Nater Quantity	Potential alteration of Doris Lake outflow.	Vater Quality and Sediment Quality	Changes in surface water quality from runoff water from proposed expanded laydown area and pads.	anisms, Fish and Fish Habitat	Reduction in or alteration of habitat (changes in flow) through water losses	Removal or alteration of aquatic habitat for additional infrastructure	Vegetation	Construction of proposed infrastructure, expansion of laydown area and pads, may result in direct loss or fragmentation of ecosystems and yegetation and	Fugitive dust affecting vegetation growth by alterating photosynthetic receptors, respiration, and transpiration
Project Phase	Construction		М			M		M		M	М		N	М
	Operations		M			M		M		M	M		N	M
	Closure							M					N	

TABLE 1 - IDENTIFICATION OF ENVIRONMENTAL IMPACTS (complete)

P = Positive N = Negative and non-mitigatable M = Negative and mitigatable U = Unknown If no impact is expected cell is blank

	P = Positive N = Negative and non-mitigatable N = Negative and mitigatable U = Unknown if no impact is expected cell is blank													
	Potential Effect	Terrestrial Wildlife	Habitat loss due to proposed amendment infrastructure expansion of laydown area and pads.	Wildlife nesting or denning on infrastructure	Direct mortality or disturbance	ocio-ec	and economy to the Kitikmeot	Increase in training and education opportunities due to extended Project life and increased employment	Increase in contract and business opportunitie s due to extended Project life	and Infras	social services, housing, and safety and protection	Increased demand for housing or increased conditions of overcrowding	Archaeology	Disturbance or loss of recorded and unrecorded archaeological sites or significant heritage resources.
Project Phase	Construction		М	M	M		Р	Р	Р		M	M		M
	Operations		M	M	M		Р	Р	P		M	M		M
	Closure		M				Р	Р	P					

SCREENING PART 2 FORM

TABLE 2 - MITIGATION AND MONITORING

TABLE 2 - MITIGATION AND MONITORING								
	PROPOSED MITIGATION MEASURE	IMPLEMENTATION SCHEDULE	RESIDUAL IMPACTS	PROPOSED MONITORING SCHEDULE	REPORTING SCHEDULE			
IMPACTS (IDENTIFIED IN	TABLE 1)							
Air Quality								
Reduced air quality from emissions due to increased equipment use, a higher rate of ore processing, waste incineration and fuel combustion.	Use of well-maintained, fuel efficient equipment and promotion of fuel conservation measures. Drive at designated speeds on site roads. Adhere to all permits, authorizations and approvals.	Mitigation measure already in place	None	See Air Quality Management Plan	Annual			
Reduced air quality from increased fugitive dust from a higher rate of materials handling, vehicle movements and blasting.	Apply water or dust suppression fluids to roadways to minimize dust from ore and waste rock haulage, site road traffic and maintenance (grading), when ambient air temperatures permit.	Mitigation measure already in place	None	See Air Quality Management Plan	Annual			
	Minimize discharge heights from the crushers onto conveyers, and conveyors onto stockpiles. Enclose the discharge from crushers onto conveyors or into other equipment where practicable.	Mitigation measure already in place	None	See Air Quality Management Plan	Annual			
Reduced air quality due to fugitive dust from subaerial deposition of tailings	Disposal of tailings in the TIA will be between the Interim Dike and the South Dam. Supernatant will drain from the tailings, through the Interim Dike to the Reclaim Pond.	Upon commencement of tailings deposition	None	See Air Quality Management Plan See Tailings Management Plan (under development)	Annual			
	The beached tailings will be covered either with a dust suppressing layer of polymer and/or ice, or a rock cover, depending upon the season and mine schedule, when deposited. This combination of drainage and cover will control fugitive dust emissions.	Upon commencement of tailings deposition	None	See Air Quality Management Plan See Tailings Management Plan (under development)	Annual			
Noise								
Changes to noise levels due to movement of additional vehicles, increased rate of materials handling, ore processing.	None; no impact expected	-	-	-	-			
Ground Stability and Permafrost								
Potential alteration of the active layer due to expanded footprint.	Effects to permafrost will be minimized by limiting overall footprint.	Already incorporated into design	None	-	As-builts will be provided following construction			

SCREENING PART 2 FORM

TABLE 2 - MITIGATION AND MONITORING

TABLE 2 - MITIGATION AND MONITORING							
	PROPOSED MITIGATION MEASURE	IMPLEMENTATION SCHEDULE	RESIDUAL IMPACTS	PROPOSED MONITORING SCHEDULE	REPORTING SCHEDULE		
IMPACTS (IDENTIFIED IN	TABLE 1)						
	Construct pads and roads on either bedrock or on rock fill thermal pads at least 1 m thick to preserve permafrost.	Already incorporated into design	None	-	As-builts will be provided following construction		
Groundwater							
Changes in groundwater quality due to interaction of talik and deep groundwater.	None; no impact expected	-	-	-	-		
Marine							
Water Quality and Sediment Quality							
Discharge of Tailings Impoundment Area (TIA) effluent and groundwater to Roberts Bay has the potential to influence the water and sediment quality of Roberts Bay.	Discharge to Robert's Bay is via the Robert's Bay Discharge System. Locating the subsea pipe and diffuser at a depth such that the buoyant plume mixes sufficiently during its buoyant rise to trap below the pycnocline and below the euphotic zone. Discharge will not interact with the sediment due to the buoyant nature of the effluent plume.	Already incorporated into design	None	According to Aquatic Monitoring Framework (under developement)	Annual		
	All regulatory parameters will be met prior to discharge and will meet national CCME marine water quality guidelines for aquatic life in Roberts Bay.	Already incorporated into design	None	According to Aquatic Monitoring Framework (under developement)	Annual		
Discharge of Tailings Impoundment Area (TIA) effluent and groundwater to Roberts Bay has the potential to influence ice thickness	Mitigation by design. Discharge below 40 m, with diffuser to promote mixing, compliant effluent.	None	None	None	None		
Marine Aquatic Organisms , Fish and Fish Habitat							
Changes to water quality as a result of TIA effluent and groundwater discharge to Roberts Bay	Compliance with regulatory water quality criteria for aquatic life in Roberts Bay will ensure no effect to marine aquatic organisms, fish and fish habitat	Already incorporated into design	None	According to Aquatic Monitoring Framework (under developement)	Annual		
Installation and decommissioning of the subsea pipeline and diffuser system has the potential to affect fish habitat.	Shoreline crossing of the pipeline has been designed to avoid disturbing sensitive shoreline fish habitat.	Already incorporated into design	None	In accordance with Lease (not yet applied for).	Annual		

SCREENING PART 2 FORM
TABLE 2 - MITIGATION AND MONITORING

TABLE 2 - MITIGATION AND MONITORING								
	PROPOSED MITIGATION MEASURE	IMPLEMENTATION SCHEDULE	RESIDUAL IMPACTS	PROPOSED MONITORING SCHEDULE	REPORTING SCHEDULE			
IMPACTS (IDENTIFIED IN	TABLE 1)							
	Consideration of DFO's new prohibition regarding the prevention of serious harm to commercial, recreational and aboriginal fisheries. Adherence to DFO's measures to avoid harm and associated best management practices guidance for the timing of installation of the pipeline and diffuser and habitat offsetting will be considered if deemed necessary.		None	-	Following construction			
	At closure, anticipate leaving subsea pipeline in place to minimize disturbance and anticipate surface areas will become fish habitat over time.	Already incorporated into design	None	According to Final Closure Plan	According to Final Closure Plan			
Marine Wildlife								
Changes to water quality as a result of TIA effluent and groundwater discharge to Roberts Bay	Compliance with regulatory water quality criteria for aquatic life in Roberts Bay will ensure no effect to marine aquatic organisms, fish and fish habitat	Already incorporated into design	None	According to Aquatic Monitoring Framework (under developement)	Annual			
Freshwater								
Surface Water Quantity								
Potential alteration of Doris Lake outflow.	Water management will limit water extraction from Doris Lake to current permitted volumes.	Mitigation measure already in place	None	See Aquatic Effects Management Plan	Annual			
	Undergruond mine operations will incorporate mitigation measures such as grouting and backfilling to reduce groundwater inflow	incorporated into design	None	-	-			
	Recycling of intercepted groundwater for drilling purposes will reduce the demand for fresh water and potential for lake drawdown.	Already incorporated into design	None	-	-			
	Adhere to all permits, authorizations and approvals. Use will be within permissible use as described in existing permit. Unchanged.	Mitigation measure already in place	None	as per 2AM-DOH1323	Monthly (SNP), Annual			

SCREENING PART 2 FORM
TABLE 2 - MITIGATION AND MONITORING

TABLE 2 - MITIGATION AND MONITORING								
	PROPOSED MITIGATION MEASURE	IMPLEMENTATION SCHEDULE	RESIDUAL IMPACTS	PROPOSED MONITORING SCHEDULE	REPORTING SCHEDULE			
IMPACTS (IDENTIFIED IN TABLE 1)								
Surface Water Quality and Sediment Quality								
Changes in surface water quality from runoff water from proposed expanded laydown area and pads.	quality from runoff water minimizes the alteration to runoff patterns. Runoff from		None	as per 2AM-DOH1323	Monthly (SNP), Annual			
	Roads and infrastructure pads have been sited to avoid water bodies and are designed to minimize the risk for erosion and use of silt fencing if and where necessary.	Already incorporated into design	None	-	-			
	Spill and emergency response equipment will be established.	Mitigation measure already in place	None	-	-			
Freshwater Aquatic Organisms, Fish and Fish Habitat								
Reduction in or alteration of habitat (changes in flow) through water losses	Ensure compliance with DFO Protocol for Winter Water Withdrawal from Ice- covered Waterbodies in the Northwest Territories and Nunavut.	Already incorporated into design	None	See Hydrology Compliance Monitoring Program	Annual			
	Additional water losses from Doris Lake are anticipated with mining in the talik zone. The cumulative water losses from Doris Lake may result in serious harm to fisheries and an Offset Plan and DFO Authorization will be obtained.	-	-	As per Fisheries Authorization, if required	As per Fisheries Authorization, if required			
Removal or alteration of aquatic habitat for additional infrastructure, including culvert construction.	Minimized impacts by using accepted techniques for sediment control, riparian care, site isolation, and timing windows.	Already incorporated into design	None	Monitoring during construction	Annual			
	Location of infrastructure to minimize the loss of aquatic systems, with a particular focus on avoiding important fish habitat (e.g., spawning).	Already incorporated into design	None	-	-			

SCREENING PART 2 FORM
TABLE 2 - MITIGATION AND MONITORING

TABLE 2 - MITIGATION A	PROPOSED MITIGATION MEASURE	IMPLEMENTATION SCHEDULE	RESIDUAL IMPACTS	PROPOSED MONITORING SCHEDULE	REPORTING SCHEDULE
IMPACTS (IDENTIFIED IN	N TABLE 1)				
	Infrastructure is designed with a minimum 30 m setback distance from adjacent water bodies and the water that comes into contact with these facilities will be intercepted for management prior to release to the environment.	Already incorporated into design	None	as per 2AM-DOH1323	Monthly (SNP), Annual
Vegetation					
Construction of proposed infrastructure, expansion of laydown area and pads, may result in direct loss or fragmentation of ecosystems and vegetation and habitat alteration.	Loss of ecosystems and vegetation will be minimized by limiting the additional amendment infrastructure footprint and avoiding critical habitat areas.	Already incorporated into design	None	-	-
	The proposed amendment expanded laydown area and pads are immediately adjacent to existing constructed footprints, reducing impacts associated with habitat fragmentation.	Already incorporated into design	None	-	-
Fugitive dust affecting vegetation growth by alterating photosynthetic receptors, respiration, and transpiration	The tailings covered with either a dust suppressing layer of polymer and/or ice, or a rock cover as required when deposited will reduce control fugitive dust emissions	Following tailings deposition	None	See Air Quality Management Plan	Annual
Terrestrial Wildlife					
Habitat loss due to proposed amendment infrastructure expansion of laydown area and pads.	Minimizing overall Project footprint and avoiding significant habitat.	Already incorporated into design	None	See Wildlife Mitigation and Monitoring Plan	Annual
	Minimize noise on site	Mitigation measure already in place	None	See Wildlife Mitigation and Monitoring Plan and Noise Abatement Plan	Annual
Nesting or denning on infrastructure	Prevent wildlife from nesting or denning on project infrastructure	Mitigation measure already in place	None	See Wildlife Mitigation and Monitoring Plan	Annual
	Manage wastes to prevent attracting wildlife	Mitigation measure already in place	None	See Wildlife Mitigation and Monitoring Plan, Hazardous Waste Management Plan and Non-Hazardous Waste Management Plan	Annual
Direct mortality or disturbance	Manage vehicles and aircraft to reduce the chance of direct mortality and disturbance	Mitigation measure already in place	None	See Wildlife Mitigation and Monitoring Plan	Annual

SCREENING PART 2 FORM

TABLE 2 - MITIGATION AND MONITORING

TABLE 2 - WITIGATION A	- MITIGATION AND MONITORING						
	PROPOSED MITIGATION MEASURE	IMPLEMENTATION SCHEDULE	RESIDUAL IMPACTS	PROPOSED MONITORING SCHEDULE	REPORTING SCHEDULE		
IMPACTS (IDENTIFIED IN	TABLE 1)						
	Avoiding clearing during wildlife sensitive periods or using qualified personnel to conduct pre-clearing surveys if clearing occurs within sensitive wildlife periods.	Mitigation measure already in place	None	See Wildlife Mitigation and Monitoring Plan	Annual		
Socio-economic							
Changes in employment and economy resulting from increased employment and economy to the Kitikmeot region due to extended mine operations.	Implement IIBA	Mitigation measure already in place	None	As per Socio-Economic Monitoring Committee	Annual		
Community Services and Infrastructure							
Potential for project induced negative effects with respect to health services, social services, housing, and safety and protection services due to extended Project life and increased workforce.		Mitigation measure already in place	None	As per Socio-Economic Monitoring Committee	Annual		
	Adoption of a fly-in/fly out arrangement with well- equipped camp facilities will minimize any additional demand on community services and infrastructure.	Mitigation measure already in place	None	As per Socio-Economic Monitoring Committee	Annual		
Archaeology							
Disturbance or loss of recorded and unrecorded archaeological sites or significant heritage resources.	Archaeological ground reconnaissance survey carried out and no known archeological resources at location. Conflicts of placing infrastructure are considered unlikely and implementation of a "chance find" procedure, if needed, following territorial legislation.	Mitigation measure already in place	None	As per Archaeology Education Program	Annual		

Package 3 NIRB and NWB Application Documents

P3-2 NWB Amendment Application Documents





Application for Water Licence Amendment

Document Date: April 2013

Application Submission Date: June 15, 2015

Resubmission of Amendment Application No. 1
Type A Water Licence No. 2AM-DOH1323.



P.O. BOX 119 GJOA HAVEN, NUNAVUT XOB 1J0

Tel: (867) 360-6338 FAX: (867) 360-6369



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POSC PULL PULL GJOA HAVEN, NU X0B 1J0 NUNAVUT WATER BOARD NUNAVUT IMALIRIYIN KATIMAYIT OFFICE DES EAUX DU NUNAVUT

APPLICATION FOR WATER LICENCE AMENDMENT

The applicant is referred to the NWB's Guide 7: <u>Licensee Requirements Following the Issuance</u> of a Water Licence for more information about this application form.

Where possible, provide background information regarding the original licence application or attach previously submitted information.

EXISTING LICENCE NO: 2AM-DOH1323
1. LICENSEE CONTACT INFORMATION
Is the licensee the same as that referred to on the existing licence?
x Yes □ No
If No, a licence assignment must be completed and approved by the NWB. An amendment will only be issued in the name of the current licensee in the absence of assignment of the licence.
If the licensee is the same, but the <u>name</u> of the licensee has changed, attach a certificate of name change.
Name:
TMAC Resources Inc.
Address:
PO Box 44 95 Wellington St. West, Suite 1010 Toronto, ON M5J 2N7
Phone: 416.628.0216 Fax:e-mail: john.roberts@tmacresources.com

2.	LICENSEE REPRESENTATIVE C	CONTACT INFO	RMATION – If different from Block 1.
Name	:		
Vice F	Roberts President, Environmental Affairs Resources Inc.		
Addre	ss:		
Same	as Block 1		
Fax:	: :		
(Attacl	n authorization letter.)		
3.	NAME OF PROJECT		
Has the	e name of the project changed?		
		Yes	× No
If Yes,	indicate the name of the project inc	luding the name	of the location:
4.	LOCATION OF UNDERTAKING		
Does	the proposed amendment change t	he location of th	e amended undertaking?
		☐Yes	× No
Provid	le the project extents and camp loc	ations. Identify p	roposed changes.
Projec	t Extents		
NW: NE: SE: SW:	Latitude: Latitude: Latitude: Latitude:	Longitud Longitud Longitud Longitud	e: e:
Camp	Location(s)		
Latitu		Longitud	e:
5.	MAP		
Does th	ne proposed amendment change th	e locations of a	y of the main components of the undertaking?
		Yes	× No
Attach	a topographical map, indicating the	main compone	nts of the undertaking. Identify proposed changes.
NTS M	ap Sheet No.: Map N	ame:	Map Scale:

	☐ Yes × No
Yes	, indicate changes
	c any of the following that are applicable to the proposed undertaking (at least one box under the ce' header must be checked).
	Sub-surface
	★ Mineral Lease from Nunavut Tunngavik Incorporated (NTI)
	Date (expected date) of issuance: March 30, 2015 Date of expiry: March 30, 2035 TMAC now has in place Inuit Mining and Land Access Agreements which provide TMAC with surface and subsurface access to IOL land and resources.
	★ Mineral Lease from Indian and Northern Affairs Canada (INAC)
	Koig 2: Date of issuance: <u>Apr. 17, 1997</u> Date of expiry: <u>Apr. 17, 2018</u> Note: the AANDC lease #3547 is a small section of grandparented mining lease to the southeast of Tail Lake that underlies the explosives facility and part of the south dam.
	Surface
	★ Crown Land Use Authorization from Indian and Northern Affairs Canada (INAC)
	77A/3-1-4 Jetty Lease: Date of issuance: <u>July 1, 2007</u> Date of expiry: <u>June 30, 2017</u>
	★ Inuit Owned Land (IOL) Authorization from Kitikmeot Inuit Association (KIA)
	Date (expected date) of issuance: March 30, 2015 Date of expiry: March 30, 2035 TMAC now has in place Inuit Mining and Land Access Agreements which provide TMAC with surface and subsurface access to IOL land and resources.
	☐ IOL Authorization from Kivalliq Inuit Association (KivIA) Date (expected date) of issuance: Date of expiry:
	☐ IOL Authorization from Qikiqtani Inuit Association (QIA) Date (expected date) of issuance: Date of expiry:
	Commissioner's Land Use Authorization Date (expected date) of issuance: Date of expiry:
	☐ Other
	NIRB Project Certificate No. 003

Fisheries Act Authorization No Date (expected date) of issuan	NU-02-0117.3 ce: Jan 19, 2011 Date of expiry: Dec 31, 2013*
` .	NU-10-0028 ce: May 13, 2010 Date of expiry: Dec 31, 2013* the Authorizations extend past the authorization expiry period for the works
Navigable Waters Protection Date (expected date) of issuan	Act Approval 8200-02-6565 ace: June 29, 2007 Date of expiry: June 28, 2017
Is the name of the entity(s) holding autilicence?	thorizations the same as that considered in the existing water
illocritice:	x Yes □ No
If No, a licence assignment must be co	ompleted and approved by the NWB.
Name of entity(s) holding authorization	ns:
7. NUNAVUT PLANNING COMM	IISSION (NPC) DETERMINATION
Indicate the land use planning area in	which the existing project is located.
☐ North Baffin ☐ South Baffin ☐ Akunniq	☐ Keewatin☐ SanikiluaqX West Kitikmeot
Does the proposed amendment change	e the land use planning area?
	☐ Yes × No
If yes, indicate the land use planning a	area in which the amended undertaking is located.
☐ North Baffin ☐ South Baffin ☐ Akunniq	☐ Keewatin☐ Sanikiluaq☐ West Kitikmeot
	mination required from NPC prior to the issuance of the existing water
licence?	☐ Yes × No
If Yes, indicate date issued and attach	о сору
Does the proposed amendment change	ge the original NPC conformity determination or the need to obtain one?
	☐ Yes × No
If Yes, indicate date issued (or expect If No, provide written confirmation from	ed) and attach a copyn NPC confirming that a land use plan conformity review is not required.
found in Package 3: NIRB and NWB	requested by email on May 8, 2015. A copy of the email can be Application Documents of Revisions to TMAC Resources Inc. bject Certificate No. 003 and Type A Water Licence No. 2AM-

8.	NUNAVUT IMPACT REVIEW BOARD (NIRB) DETERMINATION
Was a	a screening determination required from NIRB prior to the issuance of the existing water licence?
	x Yes □ No
If Yes	, indicate date issued and attach copy.
05MN0 • •	 Doris North Gold Mine, September 15, 2006; Applications for 12.8.2 Amendments Doris North Mine Modifications and Related Amendments to Project Certificate No. 3 and Type A Water Licence No. 2AM-DOH0713, 2011; Doris North Mine Modifications and Related Amendments to Project Certificate No. 003 and Type A Water Licence No. 2AM-DOH1323, 2013, including screening, review, Information Requests, proponent responses and NIRB public consultations.
Poes one?	o: http://ftp.nirb.ca/02-REVIEWS/COMPLETED%20REVIEWS/05MN047- DORIS%20NORTH%20GOLD%20MINE%202006/2-REVIEW/11- BOARD_DECISION/158NIRB_DECISION ftp://ftp.nirb.ca/03-MONITORING/05MN047-DORIS%20NORTH%20GOLD%20MINE/01- PROJECT%20CERTIFICATE/03-12.8.2%20AMENDMENTS/12.8.2%20AMENDMENT%20No.1/ the proposed amendment change the original NIRB screening determination or the need to obtain
	x Yes □ No
TMAC DOH1 to the 2014 to project techn include regula While descr of the subst the Ni	indicate date issued (or expected) and attach a copy. provide written confirmation from NIRB confirming that a screening determination is not required. Girst submitted an application to amend Project Certificate 003 and Water License 2AM-323 on November 29, 2013 (it is noted this amendment application was substantially similar amendment application originally filed by Hope Bay Mining and later withdrawn). In April the amendment process was suspended pending the provision of further information on the ct by TMAC. In the interim TMAC has undertaken a successful exploration program and a ical review of the entire project to confirm that all currently foreseeable project revisions are ded within the amendment application. We believe this approach will support an efficient atory process and will limit the need for further stand-alone amendment applications in future. The June 2015 revised application reflects a change to the tailings management strategy ibed in November 2013 (from subaqueous to subaerial management) it should be noted most project activities and facilities described in the June 2015 revised amendment are antially similar to those originally proposed in 2013 and have already been considered within IRB and NWB amendment processes.
	to the enclosed Revisions to TMAC Resources Inc. Amendment Application No. 1 of Project icate No. 003 and Type A Water Licence No. 2AM-DOH1323.

9. DESCRIPTION OF UNDERTAKING	
Does the proposed amendment change the description of the	undertaking?
× Yes	No
List and attach plans and drawings or project proposal. Identi	fy proposed changes.
Refer to the enclosed <i>Package 2: Project Description</i> (TM. Design Documents of Revisions to TMAC Resources Inc. Certificate No. 003 and Type A Water Licence No. 2AM-DC	Amendment Application No. 1 of Project
10. OPTIONS	
Does the proposed amendment change any of the alternative to carry out the project?	
Provide a brief explanation of the alternative methods or location project. Identify proposed changes.	ions that were considered to carry out the
Alternatives assessments per project components can be in the enclosed <i>Package 6: Engineering and Design Docu Amendment Application No. 1 of Project Certificate No. 00 DOH1323.</i>	ments of Revisions to TMAC Resources Inc.
11. CLASSIFICATION OF PRIMARY UNDERTAKING	
Indicate the primary classification of undertaking for the eboxes:	
☐ Industrial★ Mining and Milling (includes exploration/drilling/exp	☐ Agricultural sloration camps)
ConservationMunicipal (includes camps/lodges)Power	Recreational Miscellaneous (describe below):
Does the proposed amendment change the classification of p	orimary undertaking?
☐ Yes ×	No
If Yes, indicate the primary undertaking of the amendment:	
Information in accordance with applicable Supplemental Info submitted with an Application for Amendment. Indicate which	
Hydrostatic Testing Tannery Tourist / Remote Camp Landfarm & On-Site Storage of Hydrocarbon Conta Onshore Oil and Gas Exploration Drilling Mineral Exploration / Remote Camp Advanced Exploration Mine Development Municipal General Water Works Power	aminated Soil

12. WATER USE	
Indicate, using the boxes below, the types of	of water use(s) approved in the existing licence.
 To obtain water for camp/ munici To obtain water for industrial purp To cross a watercourse To alter the flow of, or store water Other: 	To divert a watercourse To modify the bed or bank of a watercourse Flood control
Does the proposed amendment change the	e type(s) of water use(s)?
	☐ Yes X No
If Yes, indicate using the boxes below, the use(s) that are to be added, continued, or re	proposed change(s) to the type(s) of water use(s) noting any water emoved.
☐ To obtain water for camp/ munici☐ To obtain water for industrial pur☐ To cross a watercourse☐ To alter the flow of, or store wate☐ Other:	poses
13. QUANTITY OF WATER INVOLVED)
Does the proposed amendment change the	e source of water?
Indicate the water source(s). Identify propo	osed changes:
Lake is temporarily permitted as the Dori	Lake as the domestic water source for the Doris Camp. Windy s domestic water source under 2BE-HOP1222, and the use of c purposes is permitted under Part E Item 1 of 2AM-DOH1323.
(show location(s) on map)	
Does the proposed amendment change the	e quality of the water source and/or its available capacity?
	☐ Yes ×No
Describe the quality of the water source(s)	and the available capacity(s). Identify any changes.:
Does the proposed amendment change the	e overall quantity of water to be used?
	☐ Yes × No
Provide the overall estimated quantity to be	e used. Identify proposed changes.: m³/day
Does the proposed amendment change the	e quantity of water to be used from each source?
	☐ Yes × No

Provide the estimated quantity(s) of water to be used from each source. Identify proposed changes. :
Does the proposed amendment change the quantity of water to be used for each purpose?
☐ Yes ×No
Provide the estimated quantities to be used for each purpose (camp, drilling, etc.). Identify proposed changes.:
Does the proposed amendment change the method(s) of extraction? ☐ Yes × No
Describe the method(s) of extraction. Identify proposed changes. :
Does the proposed amendment change the quantity(s) of water returned to source(s)?
× Yes □ No
Estimated quantity(s) of water returned to source(s). Identify proposed changes. :
TMAC wishes to discharge up to 4,000 m³/day of compliant effluent from the tailings impoundment area to Roberts Bay, instead of Doris Creek. For further details, refer to the enclosed <i>Package 2: Project Description</i> (TMAC 2015) and <i>Package 6: Engineering and Design Documents</i> of <i>Revisions to TMAC Resources Inc. Amendment Application No. 1 of Project Certificate No. 003 and Type A Water Licence No. 2AM-DOH1323.</i>
Does the proposed amendment change the quality(s) of water returned to source(s)?
☐ Yes × No
Describe the quality(s) of water(s) returned to source(s). Identify any changes. :

14.	WASTE	
Check	the appropriate box(s) to indicate the typ	es of waste(s) approved in the existing licence.
	X Sewage X Solid Waste X Hazardous X Bulky Items/Scrap Metal ☐ Animal Waste ☐ Other (describe):	XWaste oilX GreywaterXSludgesXContaminated soil and/or water
Does t	the proposed amendment change the typ	e(s) of waste(s) to be generated or deposited?
		X Yes ☐ No cosed change(s) to the type(s) of waste(s) to be generated or continued generation and/or disposal of waste(s).
	Sewage Solid Waste Hazardous Bulky Items/Scrap Metal Animal Waste Other (describe): Groundwater	
be use manag 2: Proj Other I	d for underground drilling purposes, to the ment system and discharged to Robe fect Description, Package 4: Environme Plans and Package 6: Engineering and	cur while mining under Doris Lake. While some water may he majority of this water will be directed to the wastewater erts Bay. This is discussed further in the enclosed <i>Package ental Effects Assessment, Package 5: Management and Design Documents</i> , submitted as part of <i>Revisions to on No. 1 of Project Certificate No. 003 and Type A Water</i>
15.	QUANTITY AND QUALITY OF WASTE	INVOLVED
Does	the proposed amendment change the qu	antity(s) of the types of wastes involved?
		x Yes □ No
Does	the proposed amendment change the co	mposition(s) of the types of wastes involved?
		×Yes
Does	the proposed amendment change the me	ethod(s) of treatment for the types of waste involved?
		x Yes ☐ No
Does	the proposed amendment change the me	ethod(s) of disposal for the types of waste involved?
		x Yes ☐ No

If Yes to any of the above, describe the proposed changes:

Due to an extended mine life, more waste rock, tailings, effluent and domestic waste will be produced.

TMAC is modifying tailings deposition to include a combination of backfill underground and subaerial deposition within the Tailings Impoundment Area, which is licensed under Schedule 2 of the *Metal Mining and Effluent Regulations*. All cyanide leach tailings will have the residual cyanide chemically destroyed prior to being deposited underground as backfill, while the remaining gravity flotation tailings will be deposited in a designated area within the existing tailings impoundment area. This approach maximizes use of capacity within the tailings area, isolates detoxified leach tailings and promotes water reuse.

It is expected that groundwater inflow will occur while mining under Doris Lake. While some water may be used for underground drilling purposes, the majority of this water will be directed to the wastewater management system and discharged to Roberts Bay.

TMAC is revising management of the tailings impoundment area so that water is discharged directly to Roberts Bay via pipeline and a diffuser on the ocean floor, rather than to Doris Creek as previously planned. Effluent quality requirements outlined in the *Metal Mining Effluent Regulations* will be met prior to discharge. Process water may be treated prior to discharge to Roberts Bay, if needed, and will be codisposed with the groundwater at some times of the year.

TMAC is introducing treatment measures in the mill to destroy cyanide in the tailings slurry. Cyanide will be reduced to 0.5 mg/L, below management thresholds set out in the International Cyanide Management Code for the Gold Mining Industry and will meet all applicable Canadian regulatory standards

Expanded mining activities will result in additional waste rock that will require storage. Upon closure, all waste rock will be placed underground.

A non-hazardous waste landfill will be situated in Quarry 3, to receive non-hazardous waste generated during Doris operations and closure.

Due to the additional persons required to support increased mining and milling rates, there will be an increase in the volume of domestic waste produced at Doris Camp.

An extended mine life will increase the amount of hazardous and on-hazardous industrial generated.

These changes are discussed further in enclosed *Package 2: Project Description, Package 4: Environmental Effects Assessment, Package 5 Management* and *Other Plans and Package 6: Engineering and Design Documents,* submitted as part of *Revisions to TMAC Resources Inc. Amendment Application No. 1 of Project Certificate No. 003 and Type A Water Licence No. 2AM-DOH1323.*

For each type of waste indicated in Block 14, describe its composition, quantity in cubic meters/day, method of treatment and method of disposal.

Type of Waste	Composition	Quantity Generated	Treatment Method	Disposal Method
Tailings	Flotation tailings (94%)	2,350,000 tonnes or 1,822,000 m ³ over life of mine	Gravity Flotation	Subaerial deposition in existing tailings impoundment area
Tallings	Detoxified cyanide leach tailings (6%)	150,000 tonnes or 116,000 m ³ over life of mine	SO ₂ Destruction Process	Consolidated backfill underground
Waste Rock	Mineralized and non-mineralized waste rock	1,340,000 t over life of mine	-	Backfill underground
Groundw ater	Groundwater	Up to 3,000 m ³ /day	-	Discharge to Roberts Bay via Marine Outfall and Diffuser
Domestic Waste	Domestic solid waste (incl. sewage sludge)	0.002 m³/day/persons	-	Incineration
Sewage	Domestic liquid waste	0.13 m³/day/person	Activated Sludge	Discharge to tailings impoundment area
Hazardou s Waste	Hydrocarbon contaminated soils	0.05 m ³ – 0.9m ³ /day (estimated)	Landfarm	Reclamation, underground disposal, offsite backhaul
Hazardou s Waste	Hydrocarbon contaminated materials, various filters, hoses, waste glycol, paints, lubricants, batteries	1 m³/day	Containment	Backhaul for offsite disposal
Waste Oil	Waste Oil	0.01 m ³ /day	Filter	Waste oil burner
Fluoresc ent Bulbs	Mercury-containing bulbs	0.002 m ³ /day	Crush and Contain	Offsite disposal
Non- Hazardou s Waste	Construction waste, untreated wood and paper products, scrap metal, punctured aerosols, clean containers, incinerator ash	5m³-10m³/day	Landfill or Open Burn	Divert recyclables where possible, back haul for offsite recycling, burn pan

Refer to Package 2: Project Description, Package 4: Environmental Effects Assessment, Package 5 Management and Other Plans and Package 6: Engineering and Design Documents, submitted as part of Revisions to TMAC Resources Inc. Amendment Application No. 1 of Project Certificate No. 003 and Type A Water Licence No. 2AM-DOH1323.

16. OTHER AUTHORIZATIONS
Does the proposed amendment change the need for other authorizations in addition to the sub-surface and surface land use authorizations provided in Block 6?
x Yes □ No
If Yes, indicate any additional authorizations required, which authorizations are no longer required, and which authorizations continue to be required.
For each provide the following:
Authorization 1: Revision to Project Certificate 003 Administering Agency: Nunavut Impact Review Board Project Activity: Subaerial tailings deposition, effluent discharge to Roberts Bay, expanded project footprint. Date (expected date) of issuance: on or before June 15, 2016 Date of expiry:
TMAC first submitted an application to amend Project Certificate 003 and Water License 2AM-DOH1323 on November 29, 2013 2013 (it is noted this amendment application was substantially similar to the amendment application originally filed by Hope Bay Mining and later withdrawn). In April 2014 the amendment process was suspended pending the provision of further information on the project by TMAC. In the interim TMAC has undertaken a successful exploration program and a technical review of the entire project project to confirm that all currently foreseeable project revisions are included within the amendment application. We believe this approach will support an efficient regulatory process and will limit the need for further stand-alone amendment applications in future. While the June 2015 revised application reflects a change to the tailings management strategy described in November 2013 (from subaqueous to subaerial management) it should be noted most of the project activities and facilities described in the June 2015 revised amendment are substantially similar to those originally proposed in 2013 and have already been considered within the NIRB and NWB amendment processes. Based on communications between TMAC, the NWB and the NIRB, it is understood that the two Boards are prepared to facilitate a cooperative review of the proposed amendments.
Authorization 2: Foreshore Lease for Roberts Bay Discharge System Marine Outfall Berm and Seabed Administering Agency: AANDC Project Activity: Construction of a Marine Outfall Berm Date (expected date) of issuance: on or before June 15, 2016 Date of expiry:
Authorization 3: Fisheries Authorization for Construction of Roberts Bay Discharge System Marine Outfall Berm, Discharge Pipeline and Diffuser Administering Agency: DFO Project Activity: Construction of Marine Outfall Berm, Discharge Pipeline and Diffuser Date (expected date) of issuance: on or before June 15, 2016 Date of expiry:
Authorization 4: Navigation Protection Act - Minor Works Order or Approval for Roberts Bay Discharge System Marine Pipeline and Diffuser Administering Agency: Transport Canada Project Activity: Placement of Marine Discharge Pipeline and Diffuser Date (expected date) of issuance: on or before June 15, 2016 Date of expiry:

17. PREDICTED ENVIRONMENTAL IMPACTS OF UNDERTAKING AND PROPOSED MITIGATION MEASURES
Does the proposed amendment change the predicted environmental impacts of the undertaking or the mitigation measures?
x Yes □ No
Describe direct, indirect, and cumulative impacts related to water and waste. Identify any changes.
Refer to Package 4: Environmental Effects Assessment, submitted as part of Revisions to TMAC Resources Inc. Amendment Application No. 1 of Project Certificate No. 003 and Type A Water Licence No. 2AM-DOH1323.
18. WATER RIGHTS OF EXISTING AND OTHER WATER USERS
Was compensation paid and/or an agreement(s) for compensation been entered into with any existing or other users of water during consideration of the existing licence?
☐ Yes × No
If Yes, provide the names, addresses and the nature of water use by those persons or properties.
Does the proposed amendment adversely affect any known persons or property including those that hold licences for water use in precedence to the application, domestic users, in-stream users, authorized waste depositors, owners of property, occupiers of property, and/or holders of outfitting concessions, registered trapline holders, and holders of other rights of a similar nature?
☐ Yes × No
If Yes, provide the names, addresses and the nature of water use of those persons or properties.
Advise the Board if compensation has been paid and/or an agreement(s) for compensation has been reached with any existing or other water users with respect to the proposed amendment.
19. INUIT WATER RIGHTS
Was compensation paid/ or an agreement(s) for compensation been entered into with any Designated Inuit Organization (DIO) during consideration of the existing licence?
X Yes No If Yes, which DIO(s) Kitikmeot Inuit Association
Does the proposed amendment substantially affect the quality, quantity or flow of waters flowing through Inuit Owned Land (IOL)?
☐ Yes × No
If Yes, advise the Board if negotiations have commenced or an agreement to pay compensation for any loss or damage has been reached with one or more DIO(s) with respect to the proposed amendment.

20. CONSULTATION - Provide a summary of any consultation meetings including when the meetings were held, where and with whom. Include a list of concerns expressed and measures to address concerns.
The enclosed <i>Package 2: Project Description</i> , submitted as part of <i>Revisions to TMAC Resources Inc. Amendment Application No. 1 of Project Certificate No. 003 and Type A Water Licence No. 2AM-DOH1323</i> , includes a summary of engagements conducted to date, which pertain to this application scope.
21. SECURITY INFORMATION
Does the proposed amendment change the financial security assessment?
x Yes □ No
Does the proposed amendment change the estimate of the total financial security for final reclamation?
x Yes □ No
Provide an estimate of the total financial security for final reclamation equal to the total outstanding reclamation liability for land and water combined sufficient to cover the highest liability over the life of the undertaking. Estimates of reclamation costs must be based on the cost of having the necessary reclamation work done by a third party contractor if the operator defaults. The estimate must also include contingency factors appropriate to the particular work to be undertaken. Identify any changes in the financial security assessment resulting from the proposed amendment.
Where applicable, the financial security assessment should be prepared in a manner consistent with the principals respecting mine site reclamation and implementation found in the <i>Mine Site Reclamation Policy for Nunavut</i> , Indian and Northern Affairs Canada, 2002.
Approval of the Project changes requested in this Amendment application will result in a closure and reclamation cost of \$25,269,000.
Refer to memorandum on reclamation costing found in the enclosed <i>Package 6: Engineering and Design Documents</i> and the updated <i>Interim Closure Plan</i> found in <i>Package 5 Management</i> and <i>Other Plans</i> submitted as part of <i>Revisions to TMAC Resources Inc. Amendment Application No. 1 of Project Certificate No. 003 and Type A Water Licence No. 2AM-DOH1323.</i>

22. FINANCIAL INFORMATION
Is the statement of financial security the same as that considered in the existing water licence?
☐ Yes X No
Provide an updated statement of financial security.
Refer to Package 7: Proponent Information submitted as part of Revisions to TMAC Resources Inc. Amendment Application No. 1 of Project Certificate No. 003 and Type A Water Licence No. 2AM-DOH1323.
If the applicant is a business entity please answer the questions below:
Is the list of the officers of the company the same as those considered in the existing water licence?
☐ Yes X No
Provide a list of the officers of the company. Refer to Package 7: Proponent Information submitted as part of Revisions to TMAC Resources Inc. Amendment Application No. 1 of Project Certificate No. 003 and Type A Water Licence No. 2AM-DOH1323.
Is the Certificate of Incorporation or evidence of registration of the company name the same?
x Yes □ No
Attach a copy of the Certificate of Incorporation or evidence of registration of the company name.
Refer to Package 7: Proponent Information submitted as part of Revisions to TMAC Resources Inc. Amendment Application No. 1 of Project Certificate No. 003 and Type A Water Licence No. 2AM-DOH1323.

23. STUDIES UNDERTAKEN TO DATE

List and attach updated studies, reports, research etc.

Studies conducted in support of this Amendment Application are submitted as part of Revisions to TMAC Resources Inc. Amendment Application No. 1 of Project Certificate No. 003 and Type A Water Licence No. 2AM-DOH1323.

Compliance monitoring under 2AM-DOH1323, Project Certificate 003 and Fisheries Authorizations are ongoing and can be accessed here:

- ftp://ftp.nwboen.ca/1%20PRUC%20PUBLIC%20REGISTRY/2%20MINING%20MILLING/2A/2AM%20-%20Mining/2AM-DOH1323%20TMAC/3%20TECH/9%20MONITORING%20(J)(K)/
- ftp://ftp.nirb.ca/03-MONITORING/05MN047-DORIS%20NORTH%20GOLD%20MINE/01-PROJECT%20CERTIFICATE/03-12.8.2%20AMENDMENTS/12.8.2%20AMENDMENT%20No.1/

Annual reporting to the NWB, the NIRB and KIA is up to date and ongoing, with annual reports summarizing studies undertaken over the preceding calendar year.

Provide a compliance assessment and status report including a response to any inspector's reports. The licensee must contact the NWB for licence specific direction in completing the assessment and report.

Refer to Package 3: NIRB and NWB Application Documents submitted as part of Revisions to TMAC Resources Inc. Amendment Application No. 1 of Project Certificate No. 003 and Type A Water Licence No. 2AM-DOH1323.

If in non-compliance, a licence may not be issued until compliance is achieved. If in non-compliance, attach plans/reports for consideration. Application will not be processed if significant issues of non-compliance exist.

24. PROPOSED TIME SCHEDULE

When are proposed amendments scheduled to be undertaken: On or before June 2016, immediately upon receipt of Amendment 1 to 2AM-DOH1323

Does the proposed amendment change the time schedule considered in the existing licence for any phase of development?

X Yes No

Indicate the start and completion dates for each applicable phase of development (construction, operation, closure, and post closure). Identify proposed changes.

Construction

Proposed Start Date: Underway Proposed Completion Date: Q4 2016

(month/year) (month/year)

Operation

Proposed Start Date: Underway Proposed Completion Date: Q4 2020 (month/year) (month/year)

monary out

Closure

Proposed Start Date: Q1 2021 Proposed Completion Date: Q1 2030

(month/year) (month/year)

Post - Closure

Proposed Start Date: Q1 2030 Proposed Completion Date: Q4 2030 (month/year) (month/year)

For each applicable	phase of dev	elopment indic	cate which	season(s) activities occur.
Constructio Winter	<u>in</u> ☐ Spring	Summer	☐ Fall	× All season
Operation Winter	Spring	Summer	☐ Fall	×All season
<u>Closure</u> ☐ Winter	Spring	Summer	Fall	×All season
Post - Close Winter	<u>ure</u> ☐ Spring	Summer	☐ Fall	×All season
	of Revision	s to TMAC Re	sources li	ckage 3: NIRB and NWB Application Documents nc. Amendment Application No. 1 of Project M-DOH1323.
25. PROPOSE	D TERM OF	LICENCE		
On what date does	s the existing	licence expire?	? August 1	5, 2023
Is the Licensee ap	plying for a co	ombined renew	val and am	endment of the existing licence?
			Yes	× No
If Yes, indicate the	proposed te	rm of the renev	val (maxim	um of 25 years):
Requested date of	renewal issu	ance:		Requested Expiry Date:
		(mo	nth/year)	(month/year)
licence and at least o licence application. I use planning or devel accordance with any	ne (1) year fro These timefram opment impact project specific	m the date of ap nes are approxim requirements, ti guidelines issu	oplication for nate and do ime for the a led by the N	e (3) months from the date of application for a type B water a type A water licence, to allow for processing of the water not account for the time to complete any pre-licensing land applicant to prepare and submit a water licence application in WB, or the time for the applicant to respond to requests for the received Applications for more information)
26. ANNUAL R	REPORTING			
Will the proposed a	mendment ch	ange the conte	ent of annu	al reports or the annual report template?
			Yes	×No
If Yes, provide deta report.	ils regarding	the content of a	annual repo	orts and a proposed outline or template of the annual

27.	CHECKLIST						
The	following must be includ	ed with the applic	ation for Amendme	nt for the water licensing pro	ocess to begin.		
	Completed Application for Water Licence Amendment form.						
	× Yes	□No	If no, date ex	xpected			
	Information address	sing Supplement I	nformation Guidelir	ne (SIG), where applicable (s	see Block 11)		
	×Yes	□No	If no, date ex	pected			
	Compliance Assess	ment / Status Rep	port (see Block 23)				
	×Yes	☐ No	If no, date ex	pected			
	Indication of Renew	al Requirement (s	see Block 26)				
	× Yes	□No	If no, date ex	pected			
	English Summary o	f Amendment App	olication.				
	× Yes	□No	If no, date ex	pected			
	Inuktitut and/or Inui	nnaqtun Summary	y of Amendment Ap	pplication.			
	∐Yes	× No	If no, date ex	pected June 16, 2015			
	Application fee of \$3	30.00 CDN (Paye	e Receiver Genera	l for Canada).			
	× Yes	□No	If no, date ex	pected			
		ed by the NWB ba	ased upon the amo	er General for Canada). The unt of water authorized for tee.			
	☐ Yes	× No	If no, date exp	pected August 16, 2015			
28.	SIGNATURE						
	M. John Roberts		President nental Affairs	It is	June 10, 2015		
	Name (Print)	Title	e (Print)	Signature	Date		



2AM-DOH1323 COMPLIANCE ASSESSMENT(AS OF JUNE 2015)

Clause	Compliance Status	
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Part A: Scope, Definitions and Enforcement				
A.1	۲	N/A		
A.2	١	N/A		
A.3	۲	N/A		

Part B:	rt B: General Conditions					
B.1		In compliance				
B.2		Paid until Aug. 16, 2015				
		2007: April 30, 2008				
		2008: May 29, 2009				
		2009: March 31, 2010				
B.3		2010: March 31, 2011				
0.3		2011: March 30, 2012				
		2012: March 28, 2013				
		2013: March 31, 2014				
		2014: March 31, 2015				
B.4	Х	Review with NWB				
B.5		In compliance				
B.6	X	On-going updates to Management Plans - several included with Amendment Application				
B.7		In compliance				
B.8		In compliance				
B.9		In compliance				
B.10		In compliance				
B.11	Х	Review with NWB				
B.12		In compliance				
B.13		In compliance				
B.14		In compliance				
B.15	Х	In progress				
B.16	2	N/A				



Part C	Part C: Conditions Applying to Security				
C.1		In compliance			
C.2		In compliance			
C.3	~	N/A			
C.4	~	N/A			
C.5		In compliance			

Part D:	C	onditions Applying to Construction and Operations
D.1		In compliance
D.2		In compliance
D.3		In compliance
D.4		In compliance
D.5		In compliance
D.6		In compliance
D.7		In compliance
		2007: No construction took place therefore no report submitted.
		2008: March 29, 2010
		2009: No construction took place therefore no report submitted.
D.8		2010: March 31, 2011
5.0		2011: March 30, 2012
		2012: April 8, 2013
		2013: May 13, 2014
		2014: March 31, 2015
D.9		In compliance
D.10		In compliance
D.11		In compliance
D.12		In compliance
D.13		Submitted February 4, 2010
D.14		In compliance
D.15		In compliance
D.16		In compliance
D.17		In compliance
D.18		In compliance
D.19		In compliance
D.20		In compliance



Part D:	Part D: Conditions Applying to Construction and Operations (continued)				
		2009: November 27, 2009			
		2010: March 31, 2011			
D.21		2011: March 29, 2012			
D.Z1		2012: January 23, 2014			
		2013: May 12, 2014			
		2014: May 5, 2015			
D.22		In compliance			
D.23		In compliance			
D.24		In compliance			
		2010: December 23, 2010			
		2011: December 23, 2011			
D.25		2012: November 6, 2012			
	١	2013: N/A			
	١	2014: N/A			
D.26		In compliance			
D.27		In compliance			
D.28		In compliance			

Part E:	Part E: Conditions Applying to Water Use			
E.1		In compliance		
E.2	Х	Not yet applicable		
E.3		In compliance		
E.4		In compliance		
E.5		In compliance		
E.6		In compliance		
E.7		In compliance		

Part F: Conditions Applying to Water Management				
F.1		Being submitted with the Amendment		
F.2		In compliance		



Part G:	C	onditions Applying to Waste Management and Waste Management Plans						
G.1	_	In compliance						
G.2		In compliance						
G.3		In compliance						
G.3.e	_	Submitted March 19, 2013						
G.4		In compliance						
		2009: October 1, 2009 (Fail)						
		2011: Sept. 1, 2011 (Fail)						
G.5		2012: July 19, 2012 (Pass)						
		2013: N/A < 26t/yr						
		2014: N/A <26t/yr						
G.6		In compliance						
G.7	Х	In-progress						
G.8	Х	Not yet applicable						
G.9	Х	Not yet applicable						
G.10	Х	On-going updates to Management Plans						
G.11		In compliance						
G.12		In compliance						
G.13		In compliance						
G.14		Being submitted with Amendment.						
G.15	Х	Not applicable, no changes currently planned						
G.16		n compliance						
		2010: March 31, 2011						
		2011: March 29, 2012						
G.17		2012: January 23, 2013						
		2013: May 12, 2014						
		2014: May 5, 2014						
G.18		In compliance						
G.19		In compliance						
G.20		In compliance						
G.21		In compliance						
G.22		In compliance						
G.23		In compliance						
G.24		In compliance						
G.25		Being submitted with Amendment.						
G.26		Compliant: a, d, e, f, h, j, k, m, n Not yet applicable: b, c, g, i, l						
G.27		Being submitted with Amendment.						
G.28		In compliance						



Part G: Conditions Applying to Waste Management and Waste Management Plans (continued)							
G.29	G.29 In compliance						
G.30		In compliance					
G.31	Х	Not yet applicable					
G.32		In compliance					
G.33	Х	Water quality model being updated for Amendment					
G.34	Х	Not yet applicable					

Part H: Conditions Applying to Modifications				
H.1	١	N/A		
H.2	2	N/A		
H.3		In compliance		

Part I:	Part I: Conditions Applying to Contingency Planning					
1.1		In compliance				
1.2		In compliance				
1.3		In compliance				
1.4		In compliance				
1.5		In compliance				
1.6		In compliance				
1.7		In compliance				



Part J:	Co	onditions Applying to General and Aquatic Effects Monitoring					
J.1		In compliance					
J.2		In compliance					
J.3		In compliance					
J.4		In compliance					
J.5		In compliance					
J.6		In compliance					
J.7		In compliance					
J.8		In compliance					
J.9		In compliance					
J.10		In compliance					
J.11	Х	· · · · · · · · · · · · · · · · · · ·					
J.12		Compliant with a, d, e, f. All others are not yet applicable.					
J.13	Х	2 11					
J.14		In compliance					
J.15		In compliance, for current thermistor installations					
J.16	Х	Not yet applicable					
J.17	Х	Not yet applicable					
		2009: July 20-25, 2009					
		2010. 3dty 12 10, 2010					
J.18		2011: July 25-29, 2011					
3.10		2012: September 7-10, 2012					
		2013: August 20-23, 2013					
		2014: July 15-22, 2014					
		2009: November 27, 2009					
		2010: March 31, 2011					
J.19		2011: March 19, 2012					
		2012: March 28, 2013					
		2013: April 18, 2014					
		2014: February 2, 2015					
J.20		In compliance					
J.21		In compliance					



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Part K	Part K: Conditions Applying to General and Aquatic Effects Monitoring Plans					
K.1	١	N/A				
K.2	Χ	Update in progress, owner change and formatting				
K.3		In compliance				
K.4		In compliance				
K.5		In compliance				
K.6		In compliance				
K.7	х	In progress - A revised AEMP will be developed based on Amendment changes. Sampling occurring under current AEMP.				

Part L:	Part L: Conditions Applying to Abandonment, Reclamation and Closure						
L.1	Χ	Not yet applicable					
L.2		In compliance					
L.3		In compliance					
L.4		In compliance					
L.5		In compliance					
L.6		Being submitted with Amendment					
L.7	Χ	Not yet applicable.					
L.8	١	N/A					
L.9	Χ	Not yet applicable					
L.10		In compliance					
L.11	Χ	Not yet applicable					
L.12	Χ	Not yet applicable					
L.13	Χ	Not yet applicable					
L.14	Χ	Not yet applicable					
L.15	Χ	Not yet applicable					
L.16	Χ	Not yet applicable					



P.O. Box 119 Gjoa Haven, NU X0B 1J0 Tel: (867) 360-6338 Fax: (867) 360-6369 

Mining and Milling Supplemental Information Guideline (SIG) for Mine Development (MM3)

Date of Issuance: February 2010

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- 2.0 MINIMUM APPLICATION REQUIREMENTS (Application Checklist)
- 3.0 GENERAL WATER LICENCE APPLICATION
- 4.0 PROJECT DESCRIPTION
- 5.0 BASELINE INFORMATION
- 6.0 WATER USE
- 7.0 WASTE DISPOSAL
- 8.0 MONITORING
- 9.0 PROJECT SPECIFICS

APPENDIX A: ADDITIONAL SOURCE DOCUMENTS

APPENDIX A: COMMONLY USED ACRONYMS

1.0 Introduction

This Supplemental Information Guideline (SIG) is for applicants seeking a water licence for water use, waste disposal, works and associated activities for Mine Development which is an undertaking classified as Mining and Milling in accordance with the *Northwest Territories Water Regulations* (NTWR or Regulations).

Supplemental information is required as part of the water licence application in accordance with section 48(2) of the Nunavut Waters Nunavut Surface Rights Tribunal Act (NWNSRTA or Act) which states:

"An application, except in relation to a cancellation, shall be accompanied by the information and studies concerning the use of waters or the deposit of waste that are required for the Board to evaluate the qualitative and quantitative effects of the use or the deposit on waters."

Also, in accordance with section 48(3) of the Act, on the filing of an application, the Board may provide guidelines to the applicant respecting the information to be provided by the applicant in respect of any matter that the Board considers relevant, including the following:

- a) the description of the use of waters, deposit of waste or appurtenant undertaking, as the case may be;
- b) the qualitative and quantitative effects of the use of waters or the deposit of waste on the drainage basin where the use is to be undertaken or the deposit is to be made, and the anticipated impact of the use or deposit on other users;
- c) the measures the applicant proposes to take to avoid or mitigate any adverse impact of the use of waters or the deposit of waste;
- d) the measures the applicant proposes to take to compensate persons, including the designated Inuit organization, who are adversely affected by the use of waters or the deposit of waste;
- e) the program the applicant proposes to undertake to monitor the impact of the use of waters or the deposit of waste;
- f) The interests in and rights to lands and waters that the applicant has obtained or seeks to obtain; and

g) the options available for the use of waters or the deposit of waste.

To provide further guidance for these requirements, as well as the requirements of section 6(2) of the Regulations which outlines more specific information requirements for proposed undertakings, the NWB has developed Supplemental Information Guidelines (SIGs or Guidelines).

The SIGs are designed in spreadsheet format to facilitate the development of a concordance table that cross references the requirements of the SIG with the documents that make up the water licence application. The tables in the following nine (9) worksheets include columns for the applicant to enter information regarding the applicability of the requirement to the proposed undertaking; the title, author, and date of the document where information to address the requirement can be found; the electronic file name of the document; as well as the section of the document where the information can be found. Specific information about the proposed undertaking should not be inserted into these spreadsheets.

The applicant must complete the yellow sections of the SIG and submit the completed SIG along with the documents that address the requirements of the SIG to the NWB.

Further to this SIG, the applicant is referred to the NWB's *Guide 4 - Completing and Submitting a Water Licence Application for a New Licence*. This Guide provides more details regarding completion of the NWB's minimum information requirements, information required to complete plans including designs and reports, executive summaries and translations, as well as how, when and who to contact when submitting a water licence application.

Following submission of a water licence application, the NWB will determine whether the application is complete. If the NWB determines that an application is materially incomplete, meaning that items included in Section 2: Minimum Application Requirements are missing, the applicant will be informed by the NWB that their application has been rejected. In other cases, NWB staff will correspond with the applicant to resolve deficiencies before proceeding.

The NWB cannot issue, amend, or renew a licence where there is an applicable, approved land use plan until the NPC's requirements under the NLCA have been addressed regarding land use planning (Article 11). In addition, the NWB cannot issue, amend, or renew a licence where the appurtenant undertaking requires screening by NIRB in accordance with Part 4 of Article 12 of the NLCA until NIRB has completed its screening. Furthermore, notwithstanding sections 13.5.5 or 12.10.2 of the NLCA, where the appurtenant undertaking requires a review under Part 5 or Part 6 of Article 12 of the NLCA, the Board may not issue, amend, or renew a licence until NIRB has issued a project certificate. For this reason, the applicant must provide the NWB with written confirmation that both NPC's and NIRB's requirements under the NLCA have been addressed.

Following completion of development impact assessment in accordance with Article 12 of the NLCA, the NWB may issue additional Project Specific Information Requirements (PSIR) to the applicant. See Section 9 of the SIG.

The applicant is referred to Appendix A of these Guidelines for a list of additional documents, guidelines, legislation and standards that may be of use to the applicant in preparing the information to address this SIG.

Submission of the information required by this SIG does not relieve the applicant from confirming and following up on other information requirements which may be required during the regulatory process.

DOCUME	NT KEY	Title, Author and Date of Document					
Package 1: F	Project Summary and Submission Outline						
P1-1	Plain Language Summary	TMAC Resources Inc. (TMAC). 2015. Doris North Project: Revisions to TMAC Resources Inc. Amendment Application No. 1 of Project Certificate No. 003 and Water Licence 2AM-DOH1323 - Package 1:					
P1-2	Maps	Project Summary and Submission Outline					
P1-3	Schedule for Implementation	<u> </u>					
P1-4	Regulatory Submission Outline						
	Project Description	THE COLUMN TWO COLUMN TO THE COLUMN TWO COLU					
P2-1	Project Description-Executive Summary Project Description	TMAC Resources Inc. (TMAC). 2015. Doris North Project: Revisions to TMAC Resources Inc. Amendment Application No. 1 of Project Certificate No. 003 and Water Licence 2AM-DOH1323 - Package 2: Project Description					
Package 3: N	NIRB and NWB Application Documents						
P3-1	NIRB Amendment Application Documents	TMAC Resources Inc. (TMAC). 2015. Doris North Project: Revisions					
P3-2	NWB Amendment Application Documents	to TMAC Resources Inc. Amendment Application No. 1 of Project					
P3-3	NPC Conformity Determination	Certificate No. 003 and Water Licence 2AM-DOH1323 - Package 3:					
Package 4: I	Environmental Effects Assessment						
P4-1	Effects Assessment	ERM. 2015. Doris North Project: Revisions to TMAC Resources Inc. Amendment Application No. 1 of Project Certificate No. 003 and Water Licence 2AM-DOH1323 - Package 4 Identification of Potential Environmental Effects and Proposed Mitigation. Prepared for TMAC Resources Inc. by ERM Consultants Canada Ltd.: Vancouver, British Columbia.					
Package 5: N	Management and Other Plans						
P5-1	Air Quality Management Plan	TMAC Resources Inc. (TMAC). 2015. Air Quality Management Plan, Hope Bay. June 2015.					
P5-2	Interim Closure and Reclamation Plan	TMAC Resources Inc. (TMAC). 2015. Doris North Mine Interim Closure and Reclamation. June 2015.					
P5-3	Water Management Plan	TMAC Resources Inc. (TMAC). 2015. Water Management Plan, Hope Bay. June 2015.					
P5-4	Waste Rock and Ore Management Plan	TMAC Resources Inc. (TMAC). 2015. Hope Bay Project, Waste Rock and Ore Management Plan, Hope Bay. June 2015.					
Package 6: I	Engineering and Design Documents						
P6-1	Doris Central Vent Raise Pad and Access Road	SRK Consulting (Canada) Inc. (SRK). 2015. Doris North Project: Doris Central Vent Raise Pad and Access Road . Prepared for TMAC Resources Inc. May 2015.					
P6-2	Doris Connector Vent Raise Pad and Access Road	SRK Consulting (Canada) Inc. (SRK). 2015. Doris North Project: Doris Connector Vent Raise Pad and Access Road. Prepared for TMAC Resources Inc. May 2015.					
P6-3	Groundwater Inflow and Quality Model	SRK Consulting (Canada) Inc. (SRK). 2015. Hydrogeological Modeling of the Proposed Doris Mine, Hope Bay Project, Nunavut. Prepared for TMAC Resources Inc. June 2015.					
P6-4	Landfill	SRK Consulting (Canada) Inc. (SRK). 2015. Doris North Project: Quarry #3 Non-Hazardous Waste Landfill Design Brief. Prepared for TMAC Resources Inc. May 2015.					
P6-5	Reclamation and Security	SRK Consulting (Canada) Inc. (SRK). 2015.Costing Assumptions Summary for Doris North Mine Interim Closure and Reclamation Plan . Prepared for TMAC Resources Inc. June 2015.					
P6-6	Roberts Bay Discharge System Water Management Options	SRK Consulting (Canada) Inc. (SRK). 2015. Doris North Project: Roberts Bay Discharge System Water Management Options. Prepared for TMAC Resources Inc. May 2015.					
P6-7	Roberts Bay Discharge System 1-Surface Infrastructure	SRK Consulting (Canada) Inc. (SRK). 2015. Doris North Project: Roberts Bay Discharge System Surface Infrastructure Design Brief. Prepared for TMAC Resources Inc. May 2015.					
P6-8	Roberts Bay Discharge System 2-Pump and Pipe Requirements	SRK Consulting (Canada) Inc. (SRK). 2015. Doris North Project: Roberts Bay Discharge System Pumps and Pipeline Requirements Brief. Prepared for TMAC Resources Inc. June 2015.					

DOCUME	NT KEY	Title, Author and Date of Document				
		SRK Consulting (Canada) Inc. (SRK). 2015. Doris North Project:				
P6-9	Roberts Bay Expanded Laydown Pads	Roberts Bay Laydown Expansion Design Brief. Prepared for TMAC				
		Resources Inc. May 2015.				
		SRK Consulting (Canada) Inc. (SRK). 2015. Doris North Project -				
P6-10	Site-Wide Water and Load Balance	Water and Load Balance. Prepared for TMAC Resources Inc. June				
		2015.				
		SRK Consulting (Canada) Inc. (SRK). 2015. Doris North Project:				
P6-11	Storage Pad U	Expanded Laydown Area (Pad U). Prepared for TMAC Resources Inc.				
		May 2015.				
		SRK Consulting (Canada) Inc. (SRK). 2015. Geochemical				
P6-12	Tailings Geochemistry	Characterization of Tailings from the Doris Deposits, Hope Bay.				
		Prepared for TMAC Resources Inc. June 2015.				
		SRK Consulting (Canada) Inc. (SRK). 2015. Doris North Project -				
P6-13	Tailings Management System	Tailings Management System Design.Prepared for TMAC Resources				
		Inc. May 2015.				
		SRK Consulting (Canada) Inc. (SRK). 2015. Static Testing and				
P6-14	Waste Rock and Ore Geochemistry, Static Testing	Mineralogical Characterization of Waste Rock and Ore from the Dori				
1 0-14	waste Rock and Ofe Geochemistry, Static Testing	Deposit, Hope Bay. Prepared for TMAC Resources Inc. June 2015.				
		SRK Consulting (Canada) Inc. (SRK). 2015. Kinetic Testing of Waste				
P6-15	Waste Rock and Ore Geochemistry, Kinetic Testing	Rock and Ore from the Doris Deposit, Hope Bay. Prepared for TMAC				
		Resources Inc. June 2015.				
Package 7: P	roponent Information					
P7-1	Statement of Financial Security	TMAC Resources Inc. (TMAC). 2015. Doris North Project: Revisions				
P7-2	List of Officers	to TMAC Resources Inc. Amendment Application No. 1 of Project				
P7-3	Certificate of Incorporation	Certificate No. 003 and Water Licence 2AM-DOH1323 - Package 7:				

2.0 Minimum Application Requirements (Application Checklist)

Section Title	Section No.	Information Requirement	Indicate whether Information Requirement is applicable by inserting 'Y'or'NA'	If 'NA' provide justification	Insert Title, Author and Date of Document where information is provided	Insert <u>electronic file</u> <u>name of document</u> where information is provided	Insert <u>Section of</u> <u>document</u> where information is provided	NWB Concordance Assessment
Minimum Application Requirements		General Water Licence Application Form (see the NWB's Guide 4: Completing and Submitting a Water Licence Application for a New Licence) or Application for Water Licence Amendment Form, if appropriate (see NWB's Guide 7: Licensee Requirements Following the Issuance of a Water Licence).	Y		See Document Key		P3-2	
		Information required to satisfy the requirements of the SIG including plans, reports and designs.	Υ		See Document Key		P1 to P7	
	3	Executive summary in english.	Y		See Document Key		P1-1 and P2-2	
	4	Translated executive summary in appropriate language and dialect.	not available	to be provided June 16, 2	016		P1-1 and P2-2	
	5	Application fee.	Υ				with application cover le	ter
	6	Water use fee.	not applicable	annual fees are paid per o	current license terms and	conditions		
		A table indicating concordance of the application and supporting documents to the Guidelines. These generic Guidelines are provided in excel as a tool for applicants to provide the necessary concordance table.	Y		See Document Key		P3-2	

Qualifications:

- 1 Applications that do not include all of the items listed above will be returned to the applicant as incomplete with a request for the deficient information.
- 2 If more than one licensable activity or facility is proposed that requires a water licence (eg. multiple water sources, waste deposits, structures, crossings, etc.) the required information must be provided for each activity or facility.
- 3 Information between all documents that make up the application package must be consistent and must be accurately cross referenced.
- 4 The application must distinguish between recommendations or options and actual commitments to chosen alternatives.
- 5 For additional guidance regarding the submission of electronic documentation, see the NWB's Guide 6: Electronic Documentation: Submissions and Registry.
- 6 The applicant, where practical, may combine components of the information requested in the SIG into more concise plans to provide clarity and eliminate duplication. If this practice is considered, then the applicant must clearly outline, through proper referencing and clearly detailed statements, how the NWB should consider the documents that have combined elements of information. Information management is the responsibility of the applicant.
- 7 The applicant must submit a concise executive summary of the application package. In addition, the Applicant shall submit an executive summary for each separate supporting document, report or study. All executive summaries shall be provided in English, Inuktitut and/or Inuinnagtun (where applicable).

The applicant must complete the yellow columns of the worksheet(s). Blue columns are for NWB use only.

3.0 General Water Licence Application

Section Title	Section No.	Information Requirement	Indicate whether Information Requirement is applicable by inserting ' Y'or'NA'	If 'NA' provide justification	Insert Title, Author and Date of Document where information is provided	Insert electronic file name of document where information is provided	Insert <u>Section of</u> <u>document</u> where information is provided	If information is not available at the time of application, indicate when the information will be made available	NWB Concordance Assessment	NIRB Guideline Section No.
Applicant	1	Provide the full name of the applicant and contact person including contact information (position, phone number, address, fax number and email address).	Y		See Document Key		P3-2			
Applicant Representative	2	Provide the name and contact information of any party submitting the application on behalf of the applicant (including position, phone number, address, fax number and email address).	Y				submitted with application in email			
	3	Provide a signed letter authorizing a party to be the applicant's representative in the licensing process.	not applicable	applicant is represer	iting itself					
Name of Project	4	Provide the name of the project.	Υ		See Document Key		P3-2			
Location of Undertaking	5	Provide coordinates of the project extents taking into account the Local Project Area (LPA) and the Regional Project Area (RPA), where applicable.	Y		See Document Key		P3-2			
	a	Provide location by Latitude and Longitude. Provide location by UTM coordinates, if available.	Y		See Document Key See Document Key		P3-2 P3-2			
	b	Provide the distances to the nearest communities.	Y V		See Document Key		P3-2			-
	6	Indicate whether the drainage basin, in which the project is located, is shared with any other jurisdiction. If applicable, indicate which jurisdiction.	not applicable	drainage basin is no	t shared with any other jur	risdiction	10-2			
Мар	7	Provide a map at a 1:50,000 scale based on the National Topographic Series indicating the location of the undertaking, watercourses and the location of waste deposits. Additional maps at various scales may be provided if those maps will provide additional information or clarification. All additional maps must indicate the scale, map sheet number, and location of north.	Υ		See Document Key		P1-2			
Nature of Interest in the	8	Provide the nature of the interest in the land associated with the proposed undertaking, including:	Υ		See Document Key		P2-1			
Land	а	Sub-surface leases from Nunavul Tunngavik Incorporated (NTI) and/or Indian and Northern Affairs Canada (INAC) awell as surface authorizations from INAC for crown land use, a Designated Inuit Organization (DIO) for Inuit Owned Land (IOL) use, or the Government of Nunavut for Commissioner's land use. Provide the permit or licence	Υ		See Document Key		P2-1			
	b	The date or expected date of issuance of any authorization and the date of expiry.	Y		See Document Key		P2-1			
	9	Indicate whether the applicant is the name of the entity holding the authorization for the interest in the land and if not, provide the name of the entity holding the authorization.	Y		See Document Key		P3-2			
NPC Determination	10	Provide written confirmation from the NPC confirming that NPC's requirements under the NLCA regarding land use plan conformity (Article 11 of the NLCA) have been addressed.	Υ		See Document Key		P3-3			
NIRB Determination	11	Provide written confirmation from the NIRB confirming that NIRB's requirements under the NLCA regarding development impact assessment (Article 12 of the NLCA) have been or are in the process of being addressed. Documentation may include:	Y		See Document Key		P3-1 - Amendment request submitted concurrently to NIRB			
	а	Written confirmation from NIRB that the project proposal does not require screening;	Y		See Document Key		P3-1 - Amendment request submitted concurrently to NIRB			
	b	NIRB's screening determination;	Y		See Document Key		P3-1 - Amendment request submitted concurrently to NIRB			
	С	If a review is required, NIRB's recommendation to the Minister regarding the type of review;	Y		See Document Key		P3-1 - Amendment request submitted concurrently to NIRB			
	d	If a review is required, the Minister's written decision regarding the review of the development proposal;	Υ		See Document Key		P3-1 - Amendment request submitted concurrently to NIRB			

Section Title	Section No.	Information Requirement	Indicate whether Information Requirement is applicable by inserting ' Y'or'NA'	If 'NA' provide justification	Insert <u>Title</u> . <u>Author and</u> <u>Date of Document</u> where information is provided	Insert <u>electronic file</u> <u>name of document</u> where information is provided	Insert <u>Section of</u> <u>document</u> where information is provided	If information is not available at the time of application, indicate when the information will be made available	NWB Concordance Assessment	NIRB Guideline Section No.
	е	If a review is required, NIRB's project certificate;	Y		See Document Key		P3-1 - Amendment request submitted concurrently to NIRB			
	12	List of activities requested for exception in accordance with NLCA s. 12.10.2;	not applicable	no request for excep	tion under NLCA 12.10.2 i	s included in application				
		Indicate whether any Type B water licence application is for an activity to be considered for interim, short term approval in accordance with NLCA s. 13.5.5.	not applicable	no request for a Type	B is included in applicat	ion				
Description of Undertaking	14	See section 4 of this SIG for specific requirements.								
Other Applicable Supplemental Information		Indicate whether any other Supplemental Information Guidelines apply to the undertaking including the following:								
Guidelines		Hydrostatic testing	not applicable	not included in amer						
1		Tannery	not applicable	not included in amen						ļ
		Tourist / remote camp Landfarm and on-site storage of hydrocarbon contaminated soil	not applicable not applicable	not included in amer not included in amer						
		Onshore oil and gas exploration drilling	not applicable	not included in amer	idment request					
		Mineral exploration/ remote camp	not applicable	not included in amer						
ĺ		Advanced exploration	not applicable	not included in amer						
		Mine development								
	i	Municipal	not applicable	not included in amer						
	į.	General Water Works	not applicable	not included in amer						
Options	16	Provide a brief explanation of the alternative methods or	not applicable	not included in amen	idment request					
(Alternatives)	16	locations that were considered to carry out the project.	Υ		See Document Key		P2-1 (s1.4)			
Water Use	17	See section 6 of this SIG for specific requirements								
Water Use:	18	See section 6 of this SIG for specific requirements								
Quality and Quantity										
Waste Disposal	19	See section 7 of this SIG for specific requirements								
Waste Disposal: Quality and Quantity	20	See section 7 of this SIG for specific requirements								
Other Authorizations		Provide a list of any authorizations required in relation to the project in addition to the water licence. For each additional authorization required for the project, provide the name of the authorization, the administering agency, the project activity requiring the authorization, the date or expected date of issuance and the date of expiry. Provide a description of how those authorizations may affect the NWB's water licensing process.	Y		See Document Key		P2-1 (s1.6)			
	22	Indicate whether an authorization has been obtained or sought from the Department of Fisheries and Oceans for dewatering or using any waterbodies for containment of waste	not applicable	Dewatering or using	any waterbody for contai	nment of waste is not incl	luded in amendment appli	cation.		
	23	Provide formal applications to the Navigable Waters Protection Program (NWPP) for any works.	not applicable	Formal application to	NWPP not required at ti	me of application				
	24	Provide a timetable for filing the appropriate plans and procedures required by government parties.	not applicable	Not required at time	of application					
	25	Indicate whether the applicant/ licensee holds any existing water licences. If applicable, provide the licence number and expiry date of any existing water licences.	Υ		See Document Key		P2-1 (s1.6)			
Predicted Environmental Effect and	26	Identify the potential effect of water use and waste disposal on the following components:								
Proposed	а	Groundwater and Surface Water including:	ļ.,,		00		D447.00			
mitigation		changes in flow (including seasonal rate of flow)	Y		See Document Key See Document Key		P4-1 (s 2.0) P4-1 (s 2.0)			
measures		quantity	Y		See Document Key		P4-1 (\$ 2.0) P4-1 (\$ 2.0)			
	b	Land including:	<u>'</u>		oce Document Key		F 4-1 (3 2.0)			
1		geologic structure change	Υ		See Document Key		P5-4			1
		soil contamination	v		See Document Key		P6-4			

Section Title	Section No.	Information Requirement	Indicate whether Information Requirement is applicable by inserting ' Y'or'NA'	If 'NA' provide justification	Insert <u>Title</u> , <u>Author and</u> <u>Date of Document</u> where information is provided	Insert <u>electronic file</u> <u>name of document</u> where information is provided	Insert <u>Section of</u> <u>document</u> where information is provided	If information is not available at the time of application, indicate when the information will be made available	NWB Concordance Assessment	NIRB Guideline Section No.
		compaction, settling and erosion	Y		See Document Key		P6-4			
		alteration of the permafrost regime	Y		See Document Key		P6-1 (s4.3) P6-2 (s4.3) P6-7 (s4.9) P6-9 (s4.4) P6-11 (s4.5)			
		riparian zone loss	not applicable	Not conducting any	vorks that would result in	riparian zone loss				
	С	Vegetation including:					P4-1 (s 3.0)			
		species composition and abundance	Y		See Document Key		P4-1 (s 3.0)			
		non-native species introduction	not applicable	amendment request	does include change to co	urrent appoaches	P4-1 (s 3.0)			
		accumulation of toxins and heavy metals (in relation to remediation objectives for closure)	not applicable	Remediation objective	res will be outlined in the	Final Closure Plan				
	d	Aquatic Ecosystems including:					P4-1 (s 2.0 & 6.0)			
		fish benthic invertebrates	Y Y		See Document Key		P4-1 (s 2.0 & 6.0) P4-1 (s 2.0 & 6.0)			
		plankton	Y		See Document Key See Document Key		P4-1 (\$ 2.0 & 6.0) P4-1 (\$ 2.0 & 6.0)			
	27	Identify effects separately for each project phase.	Y		See Document Key		P4-1 (\$ 2.0 & 6.0)			
	28	Provide a description of the methods used to predict effects.	Y		See Document Key		P4-1			
	29	Provide a cumulative effects assessment of the project's water use and waste disposal activities in relation to other activities in the same drainage basin.	Y		See Document Key		P4-1 (s 2.5)			
	30	Identify effects arising from accidental events or malfunctions.	Υ		See Document Key		P5-3, P5-4			
	31	Provide a description of all proposed mitigation, management and monitoring programs to mitigate adverse impacts.	Y		See Document Key		P4-1 (s 2.6, 3.6, 4.6, 6.6)			
	32	Provide a description of the measures to be taken to mitigate impacts on historical resources or traditional uses of water and procedures to be followed should artifacts be discovered.	Y		See Document Key		P4-1 (s 5.0)			
	33	If applicable, provide a description of any potential transboundary effects.	not applicable	no transboundary ef	fects identified					
	34	See sections 5, 6, 7, and 8 of this SIG for additional information requirements								
Existing and Other User Water Rights		Provide the names, addresses, and nature of use for any known persons or properties that may be adversely affected by the proposed undertaking, including those that that hold licences for water use in precedent to the application, domestic users, in-stream users, authorized waste depositors, owners of property, occupiers of property, and/or holders of outfitting concessions, registered trapline holders, and holders of other rights of a similar nature.	not applicable	no other water user r	ights in area					
	36	Provide a description of any potential effects of the project on the persons or properties identified in item 35 of this section.	not applicable	no other water user i	ights in area					
	37	Provide a description of the measures incorporated into the project design to mitigate effects of the project on the persons or properties identified in item 35 of this section.	not applicable	no other water user i	ights in area					
	38	Indicate whether compensation has been paid and/or agreement(s) for compensation have been reached with any existing or other users.	not applicable	no other water user i	ights in area					
Inuit Water Rights	39	Provide a description of any potential effects of the project on the quality, quantity, or flow of waters flowing through Inuit Owned Land (IOL).	Y		See Document Key		P4-1			
	40	Provide a description of the measures incorporated into the project design to mitigate effects of the project on the quality, quantity, or flow of waters flowing through IOL.	Y		See Document Key		P4-1			

Section Title	Section No.	Information Requirement	Indicate whether Information Requirement is applicable by inserting ' Y'or'NA'	If 'NA' provide justification	Insert Title, Author and Date of Document where information is provided	Insert electronic file name of document where information is provided	Insert Section of document where information is provided	If information is not available at the time of application, indicate when the information will be made available	NWB Concordance Assessment	NIRB Guideline Section No.
	41	Indicate wheter an agreement to pay compensation for any loss or damage has been reached with one or more Designated Inuit Organization (DIO); or if the parties have	Υ		See Document Key		P4-1 (s 1.1)			
Consultation	42	Provide a summary of any consultation meetings including when the meetings were held, where and with whom.	Y		See Document Key		P2-1 (s 4.0)			
	43	Provide a summary of the results of consultation meetings including a list of concerns expressed and measures proposed to address concerns.	Y		See Document Key		P2-1 (s 4.0)			
Security	44	Provide a financial security assessment that is prepared in a manner consistent with principals respecting mine site reclamation and implementation found in the <u>Mine Site</u> <u>Reclamation Policy for Nunavut</u> , Indian and Northern Affairs Canada, 2002. The financial security assessment must include:	Y		See Document Key		P6-5			
	а	An estimate of the total financial security for final reclamation equal to the total outstanding reclamation liability for land and water combined sufficient to cover the highest liability over the life of the undertaking;	Υ		See Document Key		P6-5			
	b	The cost of having the necessary reclamation work done by a third-party contractor if the operator defaults;	Y		See Document Key		P6-5			
	С	Contingency factors appropriate to the particular work to be undertaken.	Y		See Document Key		P6-5			
Abandonment and Restoration	45	Provide plans for the abandonment and restoration of the project. Plans must address all phases of the project including construction, operation, care & maintenance, final closure and post closure. Detail the costs to carry out the plan, and a proposal for financial assistance which covers the costs to carry out the plan.	not available					Remediation objectives will be provided in the Final Closure Plan		
	46	Provide a description of all remediation plans and remediation objectives. Discuss the results of any human health and ecological risk assessment used to establish remediation objectives.	Y		See Document Key		P5-2			
	47	Provide a list and description of any existing abandoned or restored site facilities.	Υ		See Document Key		P5-2			
	48	Provide details regarding the timing of the removal of any dewatering dikes (if applicable) and the implications of this action on water quality.	Υ		See Document Key		P5-2			
	49	Provide detailed information regarding the method used to remove/breach any dewatering dykes (if applicable), including details of any mitigation measures for any adverse impacts.	Υ		See Document Key		P5-2			
Financial	50	Provide a statement of financial responsibility.	Υ		See Document Key		P7-1			
Information	51	If the applicant is an entity for which audited financial statements are issued, a copy of the most recent audited financial statements must be attached to the statement of financial responsibility.	Y		See Document Key		P7-1			
	52	Provide the name of the corporation, limited company or other business entity, with a list of the officers of the company and a copy of the Certificate of Incorporation or evidence of registration of the company name.	Υ		See Document Key		P7-2 and P7-3			
Studies and Designs	53	Provide a list of studies, reports and plans relevant to the application that have been undertaken to date including:	Υ	_	See Document Key		P6			
	а	Design rational, design requirements, design criteria, design parameters, design standards/analysis/method;	Y		See Document Key		P6			
	b	Design assumptions and the limitations associated with such design assumptions;	Y		See Document Key		P6			
	С	The inclusion of clear, definable engineering qualifiers with all design drawings and reports;	Y	_	See Document Key	_	P6			
	d	Site specific data and analysis to support the design and management decisions made;	Υ		See Document Key		P6			

								1		
Section Title	Section No.	Information Requirement	Indicate whether Information Requirement is applicable by inserting ' Y'or'NA'	If 'NA' provide justification	Insert <u>Title, Author and</u> <u>Date of Document</u> where information is provided	Insert <u>electronic file</u> name of document where information is provided	Insert <u>Section of</u> <u>document</u> where information is provided	If information is not available at the time of application, indicate when the information will be made available	NWB Concordance Assessment	NIRB Guideline Section No.
	е	Materials that appropriately delineate the particulars of a design or plan.	Y		See Document Key		P6			
	54	Provide construction methods and procedures regarding how infrastructure will be put in place on-site.	Y		See Document Key		P6			
	55	Provide a timetable for submission of preliminary and final- for-construction engineered designs (note: for construction designs are required for NWB approvals).	Y		See Document Key		IFD drawings included in P6	IFC drawings will be submitted at least 60 prior to commencement of construction of facilities.		
	56	See sections 5, 6 and 7 of this SIG for additional information requirements								
Proposed Time Schedule	57	Provide the proposed start and completion dates for each phase of development (construction, operation, closure and post closure) and any anticipated periods of seasonal shut down.	Y		See Document Key		P1-3			
Proposed Term of Licence	58	Provide a proposed term of licence including the expected date of licence issuance and the expected date of licence expiry.	not applicable	application does not	include amendment to ter	m of license				
Annual Reporting	59	Provide detailed information regarding the content of annual reports and a proposed outline or template of the annual report. The annual report should include the following:	not applicable	annual reporting as p	er current license terms a	and conditions				
	а	Water related monitoring results:	not applicable	annual reporting se n	er current license terms a	and conditions	†			
	b	Comparison of water quality and quantity monitoring data with the water quality and quantity predictions presented in the application;	not applicable		er current license terms a					
	С	A description of how the conditions in the NIRB project certificate related to the NWB mandate have been implemented;			er current license terms a					
1	d	Project changes under adaptive management;	not applicable	annual reporting as p	er current license terms a	and conditions				
	е	Any actions taken in response to direction provided by the Inspector.	not applicable	annual reporting as p	er current license terms a	and conditions				
Renewals and Amendments	60	If the application is for a renewal or amendment of an existing licence provide the water licence number and the date of water licence expiry.	Y		See Document Key		P3-2			
	61	If the application is for a renewal or amendment of an existing licence, provide a compliance assessment/status report. This report must document the status of compliance for each condition of the existing water licence taking into consideration inspector dialogues and inspector directions, responses to inspector dialogues and inspector directions, spills that may have occurred, and any reporting requirements. The report must indicate when facilities were inspected by regulatory agencies and list any spills that may have occured including a description, location shown on a	Y		See Document Key		P3-2			

4.0 Project Description

Section Title	Section No.	Information Requirement	Indicate whether Information Requirement is applicable by inserting ' Y'or'NA'	If 'NA' provide justification	Insert <u>Title</u> , <u>Author and</u> <u>Date of Document</u> where information is provided	Insert electronic file name of document where information is provided	Insert <u>Section of</u> <u>document</u> where information is provided	If information is not available at the time of application, indicate when the information will be made available	NWB Concordance Assessment	NIRB Guideline Section No.
Description of	1	Provide a complete description of the undertaking with								
Undertaking		detailed site plan(s) of all project infrastructure for the Local								
		Project Area (LPA) and/or the Regional Project Area (RPA), where applicable. Include maps and/or aerial photos with								
		scales that allow the determination of distances between the								
		objects depicted. Differentiate any temporary components								
		from permanent components. Consider the following in								
		providing the description:								
	а	Raw water intake;	not applicable	not included in amer						
	b	Water storage and treatment facilities including distribution systems;	not applicable	not included in amer	dment request					
	С	Existing water bodies/courses and any changes to these					P4-1 (s 2.3)			
		water bodies/courses that may have or may occur as a								
		result of water use or waste disposal facilities. Provide an	Υ		See Document Key					
		outline of the drainage basin and drainage patterns within the RPA;								
	d	Location of receiving water bodies and drainage pathways;	Υ		See Document Key		P4-1 (s 2.3)			
	е	Transportation access routes and details of water course crossings:	Υ		See Document Key		P6-1, P6-2, P6-7			
	f	Locations of environmental monitoring sites;					P5-3 (s. A6.2)			
		_	Υ		See Document Key		P5-1 (s.3)			
			ı		See Document Key		P2-1 (s3.6.4)			
							P5-2 (s9)			
	g	Traditional water use and land use areas that may be impacted by the project;	not applicable	no change arising fro	om amendment request					
	h	Sewage treatment facilities;	not applicable	not included in amer	dment request					
	i	Wastewater treatment area and discharge outlet locations;	Y		See Document Key		P2-1 (s 3.6)			
	j	Solid waste disposal areas and drainage patterns;	not applicable	not included in amer						
	k	Incinerators	not applicable	not included in amer						
	ı	Landfarm (see the NWB's SIG for Landfarm and on-site storage of hydrocarbon contaminated soil (I3));	not applicable	not included in amer	•					
	m		Y		See Document Key		P2-1 (s 3.7)			
	n	Stockpiles;	Υ		See Document Key		P2-1 (s 3.7)			
	0	Mill or processing plant;	Y		See Document Key		P2-1 (s 3.3)			
	р	Tailings containment areas;	Y		See Document Key		P2-1 (s 3.6)			
	q	Laydown areas; Quarries;	Y		See Document Key See Document Key		P2-1 (s 3.9) P2-1 (s 3.10)			
	r	Hazardous waste disposal area;		not included in amer			P2-1 (\$ 3.10)			
	- S	Waste discharge distribution lines;		not included in amer						
	u u	Fuel and chemical storage;	not applicable	not included in amer			1			
	v	Explosives manufacturing and storage;	Y		See Document Key		P2-1 (s 3.13)			
	w	Abandoned and/or restored facilities;	not applicable	not included in amen			, , , , ,			
	х	Existing on site infrastructure;	Y		See Document Key		P-6			
	у	Others:					P6			
Mine Plan	2	Provide a Mine Plan Overview including:								
	а	Description of the location, physical nature, geology and minerology of the ore deposit and host rock. (See section 5 items 19-23)	Υ		See Document Key		P2-1 (s 2.1)			
	h	Mine development plan and methods	Y		See Document Key		P2-1 (s 2.0)			
	c	Exploration operations		not included in amen			(00)			
	d	Description of earthworks for mine development	not applicable	not included in amer						
	е	Milling or processing plant operations including:	Y		See Document Key		P2-1 (s 3.3)			
		A copy of the mill or processing plant flow sheet.		A discussion of the			P2-1 (s 3.3)	Preliminary design will	_	
	1	Indicate the points of addition of the various reagents		process flow sheet				be provided during the		
	1	(chemicals) that will be used.	Not available	is presented within				public comment period		
				the application						
		The capacity of the mill	Υ		See Document Key		P2-1 (s 3.3)		·	

4.0 Project Description

Section Title	Section No.	Information Requirement	Indicate whether Information Requirement is applicable by inserting ' Y'or'NA'	If 'NA' provide justification	Insert <u>Title</u> , <u>Author and</u> <u>Date of Document</u> where information is provided	Insert electronic file name of document where information is provided	Insert <u>Section of</u> <u>document</u> where information is provided	If information is not available at the time of application, indicate when the information will be made available	NWB Concordance Assessment	NIRB Guideline Section No.
		If applicable, indicate whether the (proposed) milling circuit is in whole or in part based on autogenous grinding.	Y		See Document Key		P2-1 (s 3.3)			
		Predicted rate of production.	Υ		See Document Key		P2-1 (s 3.3)			
	f	Expected life of the mine.	Ý		See Document Key		P2-1 (s 3.2)			
	g	Camp and mine site population projections for each phase of the project.	Y		See Document Key		P2-1 (s 3.11)			

5.0 Baseline Information

Setting and expected prices of prices with section that has her her process of the prices of company garded covers of the expected covers of t	Section Title	Section No.	Information Requirement	Indicate whether Information Requirement is applicable by inserting 'Y'or'NA'	If 'NA' provide justification	Insert <u>Title</u> . <u>Author and</u> <u>Date of Document</u> where information is provided	Insert <u>electronic file</u> <u>name of document</u> where information is provided	Insert <u>Section of</u> <u>document</u> where information is provided	If information is not available at the time of application, indicate when the information will be made available	NWB Concordance Assessment	NIRB Guideline Section No.
too place before the present company gained control of the abs. Postular Author. Mrs. Mrs. Mrs. Mrs. Mrs. Mrs. Mrs. Mr	Environmental Setting	1		Υ		See Document Key		P1-2			
a location Y See Document Key P2.1 See Document Key P2.3.1 b. Soprogradiation Y See Document Key P2.3.1 c. displays of the control of t			took place before the present company gained control of the site. Include shafts, adits, mills, waste dumps, chemical storage areas, tailings disposal areas, and effluent discharge locations. Make references to a detailed map.	Υ		See Document Key		P2-1 (s 1.7)			
b begrorative y				Υ		See Document Key		P2-1			+
c geologic conditions d hydrologic deviated files d section for the section of the section											+
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g permethoat conditions Y See Document Key P6 P6 P7 P7 P7 P7 P7 P7				not applicable	not included in amendme						
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1 Overburden piles		j L	I.		not included in amendme			D6 44			+
m Dewatering dikes not applicable not included in amendment request 14 Provide results of any assessment of the permeability of any faults and talks beneath water bodies. 15 Provide a description of the historical uses of the waters affected by the project. 16 Provide a description of the historical uses of the waters affected by the project.					not included in amendmen			P0-11			+
14 Provide results of any assessment of the permeability of any faults and talks beneath water bodies. 15 Provide a description of the historical uses of the waters affected by the project. 16 Provide a description of any tertificant uses of the waters affected by the project.					not included in amendmen	nt request					+
faults and talliks beneath water bodies. 15 Provide a description of the historical uses of the waters affected by the project. 16 Provide a description of any traditional uses of the waters affected by the project.								BC -			1
affected by the project. 15 See Document Key P4-1 (\$1.1)			faults and taliks beneath water bodies.	•				1 1			<u> </u>
Provide a description or any traditional uses or water in the not applicable no change arising from amendment request		16			no change arising from ar	•		P4-1 (\$1.1)			

5.0 Baseline Information

Section Title	Section No.	Information Requirement	Indicate whether Information Requirement is applicable by inserting 'Y'or'NA'	If 'NA' provide justification	Insert <u>Title</u> . <u>Author and</u> <u>Date of Document</u> where information is provided	Insert <u>electronic file</u> <u>name of document</u> where information is provided	Insert <u>Section of</u> <u>document</u> where information is provided	If information is not available at the time of application, indicate when the information will be made available	NWB Concordance Assessment	NIRB Guideline Section No.
		Indicate whether fish, shellfish, or other wildlife are present and harvested in or near discharge areas and, if applicable, indicate the species harvested and the level of harvest.	Y		See Document Key		P4-1(2.4, 4.4)			
	18	Provide a description of the results of any consultation with Elders regarding the collection of baseline data.	Y		See Document Key		P2-1 (4.3)			
Geology and Mineralogy	19	Provide a description of the physical nature of the mineralization, including known dimensions and approximate shape	Y		See Document Key		P6-12, P6-14, P6-15			
	20	Provide a description of the host rock in the general vicinity of the mineralization (from the surface to the mineralized zone)	Y		See Document Key		P6-12, P6-14, P6-15			
	21	Provide a geological description of the mineralized zone. (If possible, include the percentage of metals)	Y		See Document Key		P6-12, P6-14, P6-15			
		Provide a description of the geochemical tests which have been (or will be) performed on the ore, host rock, and waste rock to determine their relative acid generation and contaminant leaching potential. Outline methods used (or to be used) and provide test results in an attached report (ie. static tests, kinetic tests).	Y		See Document Key		P6-12, P6-14, P6-15			
	23	Provide an estimate of the percentage of sulphide in the mineralization including:	Y		See Document Key		P6-12, P6-14, P6-15			
	а	Pyrite	Υ		See Document Key		P6-12, P6-14, P6-15			
	b	Pyrrhotite	Y		See Document Key		P6-12, P6-14, P6-15			
	С	Pyrite / Pyrrhotite mixture	Y		See Document Key		P6-12, P6-14, P6-15			
	d	Arsenopyrite	Y		See Document Key		P6-12, P6-14, P6-15			
		Provide a description of the geochemical tests which have been (or will be) performed on quarrry or borrow material to determine the relative acid generation and contaminant leaching potential. Outline methods used (or to be used) and provide test results in an attached report (ie. static test, kinetic tests).	Y		See Document Key		P6-12, P6-14, P6-15			
Fisheries		The applicant is advised to consult with DFO regarding fish and fish habitat related issues and to visit DFO's website at http://www.dfo-mpo.gc.ca/habitat/habitat-eng.htm. Indicate whether the applicant has consulted with DFO and provide the results of any consultation.	not applicable	TMAC has not consulted	with DFO at the time of a	pplication				
	26	If applicable, provide baseline data and an evaluation of baseline data describing fish and fish habitat in the project area.	Y		See Document Key		P4-1(2.4, 4.4)			
	27	If applicable, provide a fisheries assessment including:	Υ		See Document Key		P4-1(2.5, 4.5)			
	а	Detailed area description (including photographic record);	Y		See Document Key		P4-1(2.5, 4.5)			
	b	Description of fish habitat (including river or lake bottom substrates such as silt, sand, or cobble);	Υ		See Document Key		P4-1(2.5, 4.5)			
	С	Presence of sensitive habitats (spawning, migration corridors etc.);	Y		See Document Key		P4-1(2.5, 4.5)			
	d	Description of aquatic and riparian vegetation;	Y		See Document Key		P4-1(2.5, 4.5)			1
	e	Fish community and lifestage present;	Y		See Document Key		P4-1(2.5, 4.5)			+
	f	Depth and width of watercourse; Max/min water flows, currents, tides;	Y		See Document Key See Document Key		P4-1(2.5, 4.5) P4-1(2.5, 4.5)			+
	g h		Y		See Document Key		P4-1(2.5, 4.5)			+
	- "	Sport, commercial, subsistence fishery present.	Y		See Document Key		P4-1(2.5, 4.5)			1
Studies	28	Provide a list of baseline studies, reports and plans relevant to the application that have been undertaken to date including:	Y		See Document Key		P-3, P-4, P-6			
	а	Geotechnical studies;	Y		See Document Key		P6-13 (s2.1.4, 4.1.2)			1
	b	Geochemical studies;	Y		See Document Key		P6-12, P6-14, P6-15			1
	c	Water quality studies;	Y		See Document Key		P4-1			
	d	Hydrological and hydrogeological studies;	Y		See Document Key		P6-3			1
	e	Traditional use studies;	not applicable	none required for amend	ment request		P4-1			1
	f	Aquatic studies;	Y		See Document Key					1
	ı g	Meteorological studies;	Y		See Document Key	I	P4-1	I		1

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Water Use	1	Provide a detailed description of all types of water uses including: (See the NWB definition of "use" in the NWB Guide 2: Terminology and Definitions). Categorize water consumption use(s) as either mining/industrial use and/or domestic use.								
	а		not applicable	amendment request does r	not include a change in water	er uses				
	b	Obtain water for industrial purposes	not applicable	amendment request does r						
		drilling	not applicable		not include a change in water					
		mill or processing plant	not applicable		not include a change in water					-
		concrete production explosives manufacture	not applicable not applicable		not include a change in wate not include a change in wate					
		ice road construction	not applicable		not include a change in water					+
		other: (describe)	not applicable		not include a change in water					
	С	To cross a water course	Y	amenament request uses r	See Document Key	1	P6-1, P6-2, P6-7			1
	d		not applicable	amendment request does r	not include a change in water	er uses	,,, -			
	e		not applicable		not include a change in water					
	f		not applicable	amendment request does r	ot include a change in water	er uses				
	g	To modify the bed or bank of a watercourse	not applicable		ot include a change in water					
	h	Others:	not applicable	amendment request does r	ot include a change in water	er uses				
Water Use: Quality and	2	Provide the name of the primary water source(s) as well as the name of any alternative water source(s).	not applicable	amendment request does r	not include a change in water	er uses				
Quantity Water Intake	3	Provide a description of the source(s) of water and the location of the water source(s) as shown on a map.	not applicable	amendment request does r	not include a change in water	er uses				
**Identify uses as		Indicate the type of water source(s) as lake, river, well, or other type. Provide a description of the quality of the water from the	not applicable	amendment request does r	not include a change in water	er uses				
either domestic or industrial**	6	source(s) for each season (summer, fall, winter, spring). Provide the capacity of the water source(s).	not applicable	· ·	not include a change in wate not include a change in wate					
	7	Provide the capacity of the water source(s). Provide the acquisition rate in cubic metres per day and cubic								1
	- 8	metres per year from each water source. Provide a description of the water intake method(s) including	not applicable	amendment request does r	lot include a change in water	er uses				
		the intake facility, the operating capacity of the pump used, the details of any screening to exclude fish, and the distance the pump will be placed from the ordinary high water mark of the watercourse.	not applicable	amendment request does r	not include a change in wate	er uses				
	9	Provide a description of the general condition of any existing water intake facility. Rate the condition of the facility as satisfactory or unsatisfactory and explain the rating.	not applicable	amendment request does r	not include a change in wate	er uses				
	10	Indicate whether water is drawn from the source(s) intermittently or continuously and if intermittently indicate during what months it is drawn and for what period it is drawn (days/weeks/months).		amendment request does r						
	11	Indicate the amount of water to be returned to the source.	not applicable	amendment request does r	not include a change in water	er uses				1
	12	Provide a description of the methods to ensure water returned to any source is of an acceptable quality.	not applicable	amendment request does r	not include a change in water	er uses				
	13	Provide a description of any hydrostatic testing programs, including water sources, and treatment/disposal requirements. If applicable, refer to the NWB's SIG for Hydrostatic Testing.	not applicable	amendment request does r	not include a change in wate	er uses				
	14	Indicate the quantities of water required for ice road construction and provide a description of the methods of ice road construction.	not applicable	amendment request does r	not include a change in wate	er uses				
	15	Provide a description of any measures to reduce water consumption.	not applicable	amendment request does r	not include a change in water	er uses				
Water Storage	16	Provide a description of any water storage facilities including the type (reservoir/pond, storage tank), location, design, and the water storage volume in cubic meters.	not applicable	amendment request does r	not include a change in wate	er uses				
	17	If the water storage facility is a reservoir, indicate whether the reservoir is lined, the type of liner and when it was or will be installed.	not applicable	amendment request does r	not include a change in water	er uses				

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		Indicate whether a storage reservoir is created in a natural channel. If applicable, provide plan and profile drawings of the reservoir including the size of the drainage basin upstream of the reservoir, topographical plan showing the drainage area boundary, number of hectares flooded, surface area of the reservoir at full capacity, storage capacity, and details of shoreline protection.	not applicable	amendment request does n	not include a change in wat	er uses				
		Provide a plan showing representative cross sections of the reservoir.	not applicable	amendment request does n	not include a change in water	er uses				
	20	Provide a description of the general condition of any existing water storage facility and provide an explanation if it is unsatisfactory.	not applicable	amendment request does n	not include a change in wate	er uses				
Water Distribution	21	Provide a description of water distribution systems (ie. piped water, trucked).	not applicable	amendment request does n	not include a change in water	er uses				
	22	Provide a description of the general condition of any existing water distribution system and provide an explanation if it is unsatisfactory.	not applicable	amendment request does n	not include a change in water	er uses				
Watercourse Crossings	23	Provide a description of any watercourse crossings including pipelines, bridges, culverts or roads and its purpose.	Y		See Document Key		P6-1, P6-2, P6-7			
	24	Provide a plan of any watercourse crossing showing cross section and elevations	Υ		See Document Key		P6-1, P6-2, P6-7			
Watercourse Trainings	25	Provide a description of any watercourse trainings including channel and bank alterations, culverts, spurs, erosion control, and artificial accretion, and its purpose.	not applicable	amendment request does n	not include a change in wate	er uses				
Flood Control	26	Provide a description of any flood control structures and its purpose.	not applicable	amendment request does n	not include a change in water	er uses				
Diversions	27	Provide a description of any diversions including ditches and dikes and its purpose.	Υ		See Document Key		P5-3			
Alterations in flow	28	Provide a description of any activities or structures that could alter the flow of a watercourse including dams, spillways, berms, cofferdams, and dikes, and its purpose.	Y		See Document Key		P6-13			
	29	Indicate whether the natural storage capacity or water level of any lake or pond will be altered.	Y		See Document Key		P4-1 (2.4)			
		If the alteration involves a dam, provide a plan showing the length, height, cross section and elevations of the dam and the location and preliminary designs of spillways, canals, sluice pipes, and any other outlet work.	not applicable	amendment request does n	not include a change in wat	er uses				
Dewatering	31	Provide a description of dewatering programs, if planned, including estimated quantities, qualities, dewatering flow rates, methods and schedule of withdrawl, end use or discharge location.	Y		See Document Key		P6-3			
	32	Provide an estimate of the quality and flow of groundwater that will flow into any open pits.	Y		See Document Key		P6-3			
Identification	33	Indicate whether there are any signs identifying past or present water intake, storage, distribution systems and/or waterwork structures presently in the project area.	not applicable	amendment request does n	not include a change in water	er uses				
Modifications	34	Indicate whether any changes are planned for the water intake, storage, distribution systems and/or waterwork structures. If applicable, see item 35 of this section.	not applicable	amendment request does n	not include a change in wate	er uses				
Proposed Water Works	35	For each water work component provide the design plans stamped for construction. Design plans shall consider the following:	not applicable	amendment request does n	not include a change in water	er uses				
		Name of the water body(s) affected. Site photos, site map, or air photos of the location.	not applicable not applicable	amendment request does n						
	С	Description of the existing condition of the site (see Section 5)	not applicable	amendment request does n amendment request does n						
	d	b) Indicate whether any structure will be placed in water on a temporary, seasonal or permanent basis and provide a description of when and how the structure will be removed.	not applicable	amendment request does n	not include a change in water	er uses				
	е	The design flood flow in cubic metres per second and its return period for the type of structure proposed.	not applicable	amendment request does n	not include a change in wate	er uses				
	f	An explanation of the rationale for the selected design flow flood and its return period.	not applicable	amendment request does n	not include a change in wat	er uses				
	g	Design drawings in plan and profile, drawn to scale, including all relevant dimensions.	not applicable	amendment request does n	not include a change in water	er uses				

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	h	Detaills of design parameters including seismic design criteria if applicable.	not applicable	amendment request does n	not include a change in water	er uses				
	i	In water work timing restriction for fisheries.	not applicable	amendment request does n	not include a change in water	er uses				
	i	Start and completion dates for construction.	not applicable	amendment request does n						
	k	Construction schedule and sequence taking into account any timing restrictions.	not applicable	amendment request does n	not include a change in water	er uses				
			not applicable	amendment request does n						
	m		not applicable	amendment request does n	ot include a change in water	er uses				
	n	A description of the source, type, and composition of material used in construction.	not applicable	amendment request does n	not include a change in water	er uses				
	0	The quantity of material to be either placed into or removed from the watercourse. Sedimentation and erosion control measures.	not applicable	amendment request does n						
	p q	Construction monitoring plans.	not applicable not applicable	amendment request does n amendment request does n						1
	r	Construction quality assurance and quality control measures.								
	s	Assessment of impacts to fish and fish habitat (see item 44	not applicable	amendment request does n						
	t	of this Section). Bank stabilization measures (including the size range of	not applicable	amendment request does n						
	, u	material if applicable). Operation and maintenance plans including instrumentation,	not applicable	amendment request does n						
	u	monitoring and inspection requirements.	not applicable	amendment request does n	not include a change in water	er uses				
	v	Contingency plans.	not applicable	amendment request does n	not include a change in water	er uses				
	w	Re-vegetation plans	not applicable	amendment request does n						
	х	Proposed post construction monitoring (photos taken of the site before construction, during construction, and after construction; photos should be taken from the same reference point for easy comparison)	not applicable	amendment request does n	not include a change in wate	er uses				
	У	Abandonment and restoration plans (see items 45-49 of Section 3).	not applicable	amendment request does n	not include a change in water	er uses				
		Final plans and drawings for construction must be stamped by a Professional Engineer licensed to practice in Nunavut. (See Section 7 of the NWB's Guide 4: Completing and Submitting a Water Licence Application for more information regarding design drawings).	Y		See Document Key		P-6			
	37	If geotextile is used or a similar material to prevent the transport of sediment into a watercourse, provide the technical specifications for the proposed material as well as the location, extent and placement method for the material.	not applicable	specifications will be provid	led with IFC drawings					
		If rip rap is used or a similar material for erosion protection, provide information regarding the minimum and maximum sizes of the material and the gradation between those limits. Indicate the quantity to be used and its source.	not applicable	specifications will be provid	led with IFC drawings					
Predicted Environmental Effects and		Provide a description of the effects of water usage on the source from which water will be drawn including the potential for drawdown.	Y		See Document Key		P4-1 (s 2.2)			
Proposed mitigation measures	40	Provide a description of any expected changes in surface water flow or storage including changes downstream of the project.	Y		See Document Key		P4-1 (s 2.2)			
		If the cross-section of any watercourse is changed, provide a description of the change and its effect on the flow capacity of the channel.	Y		See Document Key		P4-1 (s 2.2)			
		If the course of any channel is changed, provide a description of measures to maintain stream bed and bank stability.	Y		See Document Key		P4-1 (s 2.2)			
		Provide a description of measures of preventing surface water from coming into contact with waste and measures of managing surface water that does come into contact with waste (surface water management plan).	Y		See Document Key		P5-3			
	44	Provide a description of measures of preventing groundwater from coming into contact with waste and measures of managing groundwater that does come into contact with waste (groundwater management plan).	Υ		See Document Key		P5-3			

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Fisheries		If applicable, provide a description of any potential impacts to fish and/or fish habitat. (Indirect effects may include project effects, water quality, or aquatic organisms. Direct effects may include degradation or alteration of fish habitat). The applicant is advised to consult with DFO regarding fish and fish habitat related issues and to visit DFO's website at http://www.dfo-mpo.gc.ca/habitat/habitat-eng.htm.	Y		See Document Key		P4-1 (s 2.4)			
	а	Potential effects on fish or fish habitat;	Y		See Document Key		P4-1 (s 2.4)			1
	b	The area in square metres to be impacted;	Y		See Document Key		P4-1 (s 2.4)			1
	С	Measures to avoid sensitive periods and habitat areas (i.e., spawning beds, migration corridors);	Y		See Document Key		P4-1 (s 2.4)			
	d	Measures to avoid physical impacts on habitat;	Y		See Document Key		P4-1 (s 2.4); P3-1; P5-3			
	е	Measures to maintain flows and fish passage;	Y		See Document Key		P4-1 (s 2.4); P3-1; P5-3			
	f	Measures to avoid sedimentation;	Υ		See Document Key		P4-1 (s 2.4); P3-1; P5-3			
	g	Measures to avoid spills;	Y		See Document Key		P4-1 (s 2.4); P3-1; P5-3			
	h	Detailed habitat no-net-loss plan and site restoration plan;	Y		See Document Key		P4-1 (s 2.4)			
Studies		Provide a list of studies, reports and plans relevant to the application that have been undertaken to date, including:	Y		See Document Key		P4-1 (s 2.4)			
	а	Options analysis;	Y		See Document Key		P-6			
	b	Water management plan including water balance analysis;	Y		See Document Key		P5-5-3,P6-3, P6-10			
	С	Fisheries assessment;	Y		See Document Key		P4-1 (s 2.4)			
	d	Construction plan and construction schedule for water works;	Y		See Document Key		P6-7, P6-8			
	е	Implementation schedule for construction of works.	Y		See Document Key		P1-3			
	f	Construction quality assurance and quality control plans;	not applicable	Construction Summary R	eports submitted annuall	y to the NIRB				
	g	Operation and maintenance plan;	not available	will incorporate terms and	d conditions of amended	water license and Projec	t Certificate	60 days prior to commissioning facility		
	h	Preliminary abandonment and reclamation plans for existing and proposed facilities;	Y		See Document Key		P5-2			
	i	Final abandonment and reclamation plans for facilities to be closed;	not applicable	Interim Closure Plan prov	rided		P5-2			
	i	Monitoring plans (See Section 8).	Y		See Document Key		P-5			

					Insert Title, Author and	Insert electronic file		If information is not		
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Waste Disposal	1	Provide a detailed description of all types of waste and all forms of waste disposal including: (see the NWB definition of Waste in the NWB <u>Guide 2: Terminology and Definitions</u>)								
	а	Sewage	not applicable	not included in amendme	ent reques					
	b		not applicable	not included in amendme						
	c		Y not applicable	not included in amendme	See Document Key		P6-4			
	e		not applicable	not included in amendme	ent reques					
	f	Contaminated soil, snow, ice and/or water	Y		See Document Key		P6-4			
	g	Bulky items/ scap metal	not applicable	not included in amendme						
	h	Mill or processing plant waste	Y		See Document Key		P6-13			
		Mine water Dredged material	not applicable	not included in amendme	See Document Key		P6-6			
	k	Discharge from dewatered areas	not applicable	not included in amendme						
	ï	Other: (describe)	not applicable	not included in amendme						
Waste Disposal: Quality and Quantity	2	For each type of waste, provide the composition, chemical characteristics and quantity generated. Also provide the location, rate, timing, frequency and duration of the deposit.	Y		See Document Key					
	3	For each type of waste, provide the proposed methods and processes for collecting, storing, treating and discharging the waste. Indicate the capacity of these facilities.	Y		See Document Key					
Identification	5	Provide a description of any measures to minimize the production of wastes. Indicate whether there are signs identifying any past or presen	Y		See Document Key					
		wastewater disposal sites, solid waste disposal sites, or any other waste disposal sites presently in the project area.	Y	signage in place under cu	urrent operations					
Modifications	6	Indicate whether any changes are planned for the wastewater, solid waste, or any other waste facilities. If applicable, see iter 7 of this Section. For each proposed waste facility provide design plans. The	Υ		See Document Key		See Item 7			
Proposed waste facilities	7	designs shall consider the following:								
	a b	Site photos, site map, or air photos of the site. Description of the existing condition of the site (see Section								
	С	5). A description of the types of waste entering the facility (if			_					
	d	applicable, provide a description of the source, type, and quantity of the waste); The concentration of waste entering the facility;			_					
	e	The geochemical characterization of waste entering the			1					
		facility, where applicable (ie. tailings solids);								
	f	Distance of the facility from watercourses and fish bearing waters.								
	g	All sources of seepage encountered near watercourse and fish bearing waters as well as the volumes (m3/day) and direction of any seepage;								
	h	Existing and proposed drainage modifications.]		j			
	i	Details of retaining structures.				_			_	
	ļ.,	Level of treatment (primary, secondary or tertiary). By products of treatment which may require further			4		-			1
	k	treatment, characterization, handling and disposal. Capacity and retention time of the facility:								
	m	Identification of final discharge point (last point of control).			1		1			
	n	Method and type of discharge (seasonal, annual, continuous including details of all decant, siphon mechanisms etc.	•				P5-4 (Waste Rock and			
	0				1		Ore Management Plan) P6-4 (Landfill)			
1	p	Restrictions on discharge.	_		4		P6-4 (Landilli)			1
1	q r	Discharge effluent criteria proposed; Receiving water quality objectives.	Υ	 	See Document Key		P6-6 (Roberts Bay			1
	s t	Capacity of the receiving environment; Details regarding direction and path of wastewater flow from			1		Discharge System)			
	u	the area or infrastructure. Design drawings in plan and profile, drawn to scale, including			+		P6-13 (Tailings Management System			
1		all relevant dimensions.			_		J			

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	v	Details of design parameters including seismic design if								
	w	applicable. Start and completion dates for construction.								
	х	Construction schedule and sequence taking into account any timing restrictions.								
	у	Construction methods.								
	z aa	Equipment to be used. A description of the source, type, and composition of the								
		material to be used in construction.								
	bb	Construction monitoring plans. Construction quality assurance and quality control measures								
	dd ee	Operation and maintenance plans. Contingency plans.								
	ff	Abandonment and restoration plans (see items 45-49 of Section 3).								
		Final plans and drawings for construction must be stamped by a Professional Engineer licensed to practice in Nunavut. (See Section 7 of the NWB's <u>Guide 4: Completing and Submitting a</u>								
		<u>Water Licence Application</u> for more information regarding design drawings). Provide an assessment of alternatives for any proposed tailing.								
		containment facility. Provide a description of the general condition of any existing								
	10	waste facilities and provide an explanation if it is unsatisfactory	-							
Predicted Environmental Effects and Proposed mitigation measures		Provide detailed treatment plans for discharges from any tailings containment area, attenuation pond, reclaim pond, sewage disposal area, sumps or dewatered area. Water treatment plans should include estimates of treatment efficiency for each parameter of concern and a description of pl4 adjustment methods.	Υ		See Document Key		P6-6 (Roberts Bay Discharge System) P6-13 (Tailings Management System			
	12	Clearly outline proposed discharge criteria, how the criteria were developed, standards to be applied, and how these criteria will be used to prevent ecological effects in the receivin environment.	Y		See Document Key		P4-1 (s 4.0)			
		If waste is expected to infiltrate into the ground, provide a description of the sub-surface soil compositions and provide information on groundwater elevations for the project area. Also provide the proximity between the proposed waste disposal system and the groundwater elevation.	Υ		See Document Key		P6-3			
		Provide a discussion of the consequences of long-term stratification in any pit lakes and associated contingency plans	not applicable	not included in amendment request						
	15	Provide detailed contingency plans for the treatment of turbid water during dewatering activities and/or increased suspended solids during any rewatering activities.	not applicable	not included in amendment request						
Operations and Maintenance	16	Provide operation and maintenance plans for any tailings containment areas.	not available	will be developed to incorporate terms and conditions of amended water license and Project Certificate				60 days prior to commissioning facility		
		If the project includes sewage and/or solid waste disposal, provide an Operations and Maintenance Manual in accordance with the "Guidelines for the Preparation of an Operations and Maintenance Manual for Sewage and Solid Waste Disposal Facilities in the Northwest Territories, 1996".	not applicable	Plan is already in place ur	nder 2AM-DOH1323					
Hazardous Materials		Provide a description of the type and quantities of drill additives, mill reagents, petroleum products, chemicals and/or hazardous materials on site. MSDS sheets are not required to be submitted as part of the water licence application.	not applicable	Plan is already in place under 2AM-DOH1323						
	19	Provide details regarding the handling and storage of hazardous or potentially hazardous materials.	not applicable	Plan is already in place under 2AM-DOH1323						
Emergency Response and Spill Contingency	20	Provide designs for the fuel tank farm facilities including a description of the nearest water bodies. Provide an evaluation of impacts and mitigation measures in case of a fuel spill.	not applicable	not included in amendme	nt request					

Section Title	Section No.	Information Requirement	Indicate whether Information Requirement is applicable by inserting ' Y ' or ' NA '	If 'NA' provide justification	Insert <u>Title</u> , <u>Author and</u> <u>Date of Document</u> where information is provided	Insert <u>electronic file</u> name of document where information is provided	Insert <u>Section of</u> <u>document</u> where information is provided	If information is not available at the time of application, indicate when the information will be made available	NWB Concordance Assessment	NIRB Guideline Section No.
		Provide an Emergency Response and Spill Contingency Plan (ERSCP) that includes mechanisms and processes for addressing potential or actual failure of structures, response equipment and material storage, and programs for providing appropriate training to workers. The plan shall address all licensed facilities.	not applicable	Plan is already in place u	nder 2AM-DOH1323					
		Plan(s) shall address phases of the project including construction, operation, and care & maintenance.	not applicable	Plan is already in place u	nder 2AM-DOH1323					
		Provide an explanation of how the applicant will ensure project contractors meet the applicant's due diligence standards with respect to oil and hazardous material spill prevention, preparedness, response, and restoration.	not applicable	Plan is already in place u	nder 2AM-DOH1323					
Studies		Provide a list of studies, reports and plans relevant to the application that have been undertaken to date including design and management decisions. Studies, reports and plans may include:								
	а	Options analysis.			1		1			1
	b	Geotechnical and geothermal assessment;								
	С	Water quality modeling;			1					
	d	Snow drift assessments;			1					
	е	Permafrost protection;			1					
	f	Mine waste and water management;			1					
	g	Landfill management;			1					
	h	Landfarm management;			1					
	i	Quarry Management;			1					
	j	Incineration management;			1					
	k	Hazardous waste management;			Ī		1			
	1	Operation and maintenance plan;			Ī		1			
	m	Inspection plan (see Section 8);			1		1			1
	n	Tailings monitoring (see Section 8);			1		P5- 1 to 4.			1
	0	Mine site water quality monitoring (see Section 8);	Υ		See Document Key		,			
	р	Receiving water quality monitoring (see Section 8);			Ī		P6-1 to 15, P4-1			1
	q	Aquatic effects monitoring (see Section 8);			1]			1
	r	Geotechnical and structural monitoring (see Section 8);			1]			1
	s	Quality assurance and quality control plan (see Section 8);								
	t	Spill contingency and emergency response plans;					1			+
	·	Preliminary abandonment and reclamation plans for existing			1		1			
	ı "	and proposed facilities;		ĺ	ĺ					
	v	Final abandonment and reclamation plans for facilities to be		1	1		1			+
	'	closed:		1	1]			
	w	Remediation plans for waste disposal infrastructure;		-	1					+
	X X	Human health and ecological risk assessment for		-	1					+
	_ ^	establishment of remediation objectives for closure;		ĺ	ĺ					
		Construction plan and construction schedule for waste			1		1			+
	У	management infrastructure;		ĺ	ĺ					
	-	Implementation schedule for construction of works,		-	4		1			+
	z			ĺ	ĺ					
		submission of studies and mitigation plans for operations and	1	1	1					
	1	closure;		1	1		l			

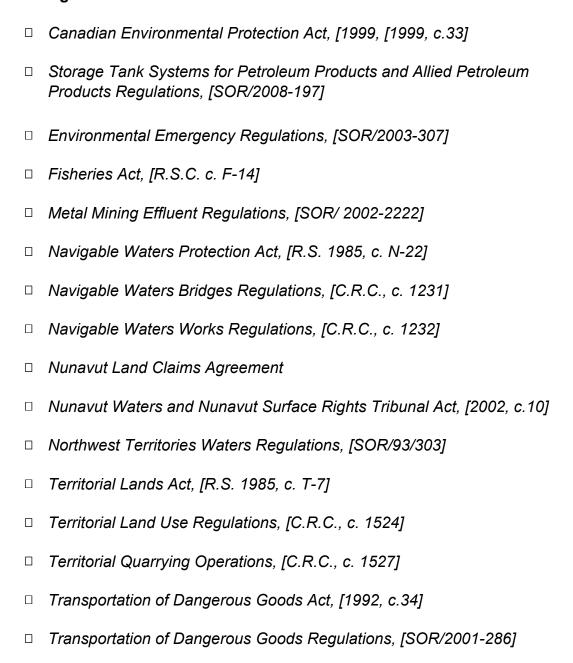
8.0 Monitoring

Section Title	Section No.	Information Requirement	Indicate whether Information Requirement is applicable by inserting ' Y ' or ' NA '	If 'NA' provide justification	Insert Title, Author and Date of Document where information is provided	Insert <u>electronic file</u> <u>name of document</u> where information is provided	Insert <u>Section of</u> <u>document</u> where information is provided	If information is not available at the time of application, indicate when the information will be made available	NWB Concordance Assessment	NIRB Guideline Section No.
Monitoring		Provide a Monitoring Plan including a description of the methods, procedures, standards, and schedules proposed. Monitoring may be required for water use; effluent, surface and/or groundwater water quality, quantity, or flow; ground temperature; ground settlement; etc. The Monitoring Plan mus consider the life of the project, temporary closure and permanent closure.	Υ		See Document Key		P5-1, P5-2, P5-3, as well as other Plans approved under 2AMDOH1323 already in place			
	2	Indicate who is responsible for sampling including that person's position, contact information and level of training.	Y		See Document Key		P5-1, P5-2, P5-3, as well as other Plans approved under 2AMDOH1323 already in place			
	3	Indicate the name and contact information of the certified laboratory performing the analysis of samples.	Υ		See Document Key		P5-1, P5-2, P5-3, as well as other Plans approved under 2AMDOH1323 already in place			
		Provide an Inspection Plan including a description of the methods, procedures, standards, and schedules proposed. Inspections may be required for engineered facilities related to the management of water and waste as well as spills. The Inspection Plan must consider the life of the project, temporary closure and permanent closure.	Y		See Document Key		P5-1, P5-2, P5-3, as well as other Plans approved under 2AMDOH1323 already in place			
		Provide a summary table of all monitoring commitments that details all monitoring locations. The table should include parameter(s), location, frequency, and mining phase, along with, cross-referencing to sub-documents where detailed information is provided. Where appropriate, a map detailing the location of monitoring sites is to be provided.	Y		See Document Key		P5-1, P5-2, P5-3, as well as other Plans approved under 2AMDOH1323 already in place			
		Provide a summary table of the expected quality and quantity of waters, over time in all sumps, monitoring stations, and discharge points, along with 1) if applicable, adaptive management criteria to benchmark if mitigation/contingency are to be implemented, ii) if applicable, water quality criteria, and iii) management action.	Y		See Document Key		P5-3, P6-10			
	7	Provide a monitoring plan for incinerator emissions (including, but not limited to, stack testing and annual reporting).	not applicable	Plan already in place under 2AM-DOH1323						
	8	Provide a Quality Assurance/ Quality Control (QA/QC) Plan that addresses both field sampling and laboratory analyses.	not applicable	Plan already in place under 2AM-DOH1323						

APPENDIX A: ADDITIONAL SOURCE DOCUMENTS TO ASSIST THE APPLICANT

This appendix provides a list of reference documents including legislation, guidelines and standards that may be of use to the applicant in preparing the supplemental information.

Federal Legislation



Territorial Legislation

- □ Environmental Protection Act (Nunavut), [R.S.N.W.T. 1988, c. E-7]
 □ Used Oil and Waste Fuel Management Regulations, [N.W.T. Reg. 064-
- □ Mine Health and Safety Act, [S.N.W.T 1994, c.25]
- □ Mine Health and Safety Regulations, [R-125-95]
- □ Mine Health and Safety Regulations, amendment, Nu. Reg. 016-2003
- □ Safety Act, [R.S.N.W.T. 1988, c. S-1]
- □ Work Site Hazardous Materials Information System Regulations, [R.R.N.W.T. 1990 c. S-2]
- □ Transportation of Dangerous Goods Act, [R.S.N.W.T. 1988, c. 81 (Supp.)]
- □ Transportation of Dangerous Goods Regulations, [1991, N.W.T. Reg. 095-91]
- □ Public Health Act, [R.S.N.W.T. (Nu.) 1988 c. P.12]

Guidelines and Policies

20031

- CCME Environmental Code of Practice for Aboveground and Underground Storage Tank Systems containing Petroleum and Allied Petroleum Products (2003);
- CCME Canadian Environmental Quality Guidelines Guidelines (CEQG) and Canadian Water Quality Guidelines for the Protection of Aquatic Life;
- □ CCME Canada-Wide Standards for Dioxins and Furans (2001);
- □ CCME Canada-Wide Standards for Mercury Emissions (2000);
- □ DFO Freshwater Intake End-of-Pipe Fish Screen Guideline (1995);
- □ DFO Guidelines for the Use of Explosives In or Near Canadian Fisheries Waters (1998);
- □ DFO Policy for the Management of Fish Habitat (2001);
- □ DFO Operational Statements;

 DFO – Other documents are available from the DFO's website at http://www.dfo-mpo.gc.ca/habitat/habitat-eng.htm; □ EC – Guidelines for the Preparation of Hazardous Material Spill Contingency Plans (1990); □ EC – Metal Mining Guidance Document for Aquatic Effects Monitoring (2002);□ EC – Guidelines for the Assessment of Alternatives for Tailings Storage for Metal Mining Projects Proposing to use Natural, Fish-bearing Water Bodies as Tailings Impoundment Areas (Draft July 4, 2008); □ GN – Spill Contingency Planning and Spill Reporting in Nunavut. A Guide to the New Regulations. □ GN – Environmental Guideline for Contaminated Site Remediation (2002); □ GN – Environmental Guideline for *General Management of Hazardous* Waste in Nunavut (2002); GN - Environmental Guideline for Ozone Depleting Substances (2002); □ GN - Environmental Guideline for Waste Antifreeze (2002); GN - Environmental Guideline for Waste Asbestos (2002); □ GN - Environmental Guideline for Waste Batteries (2002); □ GN - Environmental Guideline for Waste Paint (2002); □ GN - Environmental Guideline for Waste Solvent (2002); □ GN - Guideline for the Management of Waste Lead and Lead Paint (2001); GN - Municipal Solid Wastes Suitable for Open Burning; □ GN - Disposal Guidelines for Fluorescent Lamp Tubes; □ GN – Occupational Health &Safety Guidelines (2006);

GNWT - Guidelines for the Discharge of Treated Municipal Wastewater in the Northwest Territories, (1992)
GNWT – A Field Guide to Ice Construction Safety (2007);
Guidelines for the Preparation of an Operations and Maintenance Manual for Sewage and Solid Waste Disposal Facilities in the Northwest Territories, Duong and Kent, 1996
INAC - Mine Site Reclamation Policy for Nunavut (2002);
INAC – Guidelines for Spill Contingency Planning (2007);
INAC - Quality Assurance (QA), Quality Control (QC) Guidelines for Use by Class "B" Licensees in Collecting Representative Water Samples in the Field and for Submission of a QA/QC Plan (1996);
INAC - Quality Assurance (QA), Quality Control (QC) Guidelines for Use by Class "A" Licensees in meeting SNP requirements and for submission of a QA/QC Plan (1996);
INAC - Mine Site Reclamation Guidelines for the Northwest Territories (2007);
INAC – A Policy Respecting the Prohibition of Bulk Water Removal from Major River Basins in Nunavut (2003);
The Mining Association of Canada "A Guide to the Management of Tailings Facilities" (1998), (Referenced within the guidelines as GMTF);
Mining Association of Canada, "Developing an Operation, Maintenance and Surveillance Manual for Tailings and Water Management Facilities"
The proponent where applicable should consider the application of the Canadian Dam Association "Dam Safety Guidelines" (January 1999) in the design, construction, operation, monitoring, decommission and closure of dam infrastructure. (Referenced within the guidelines as CDA);
Workplace Hazardous Materials Information System (WHMIS):

The NWB maintains a folder on its FTP site containing electronic copies of reference documents. Federal legislation may be found on the Department of Justice Canada website at http://laws.justice.gc.ca/. Territorial Legislation may be found on the Canadian Legal Information Institute's website at http://www.canlii.org/. The applicant is encouraged to consult with government agencies on technical issues and to obtain the most up to date copy of reference documents.

It is the applicant's responsibility to ensure that all relevant standards and guidelines are considered in the water licence application and to incorporate proper footnotes and references.

APPENDIX B: COMMONLY USED ACRONYMS

AA Authorizing Agency
ABA Acid Base Accounting
AMD Acid Mine Drainage

AP Acid Potential

A&R Abandonment and Restoration

ARD Acid Rock Drainage

ANFO Ammonium Nitrate and Fuel Oil BOD Biological Oxygen Demand

BTEX Benzene, Toluene, Ethyl-benzene and Xylene
CBOD Carbonaceous Biological Oxygen Demand
CEA Cumulative Environmental Assessment

CCME Canadian Council Ministry of the Environment

CFU Colony Forming Units

COD Chemical Oxygen Demand

CWQS Canadian Water Quality Standards
DFO Department of Fisheries and Oceans

DIO Designated Inuit Organization

DO Dissolved Oxygen
DSG Dam Safety Guidelines
DSI Dam Safety Inspection
DSR Dam Safety Review
EC Environment Canada

EA Environmental Assessment
EIS Environmental Impact Statement
EPA Environmental Protection Agency
EPP Emergency Preparedness Plan

ERSCP Emergency Response Spill Contingency Plan
GN-DoE Government Nunavut – Department of Environment

GN-CGS Government Nunavut – Department of Community Government Service

GN-CLEY Government of Nunavut - Department of Culture, Language, Elders and Youth

HDPE High Density Polyethylene FTP File Transfer Protocol

IIBA Inuit Impact Benefit Agreement

INAC Indian and Northern Affairs Canada (also known as DIAND)

IOL Inuit Owned Lands
IQ Inuit Qaujimajatuqangit
IR Information Request
LPA Local Project Area

MSDS Material Safety Data Sheet

MAC Maximum Acceptable Concentration
MCE Maximum Credible Earthquake
MDE Maximum Design Earthquake
MMER Metal Mining Effluent Regulations
NLCA Nunavut Land Claims Agreement

NP Neutralization Potential
NNP Net Neutralization Potential
NPR Neutralization Potential Ratio
NIRB Nunavut Impact Review Board
NLCA Nunavut Land Claims Agreement
NPC Nunavut Planning Commission
NSA Nunavut Settlement Area

NTI Nunavut Tunngavik Incorporated NTU Nephelometric Turbidity Unit

NTWR Northwest Territories Waters Regulations

NWB Nunavut Water Board

NWNSRTA Nunavut Waters Nunavut Surface Rights Tribunal Act

NWPP Navigable Waters Protection Program

O&M Operations and Maintenance
PAH Polycyclic Aromatic Hydrocarbons

PC Project Certificate

PCB Poly-Chlorinated Biphenyl
PMF Probable Maximum Probable
PMB Probable Maximum Probable
PMB Probable Maximum Probable

PMP Probable Maximum Precipitation
POP Persistent Organic Pollutant

PSIR Project Specific Information Requirement

PVC Polyvinyl Chloride
QA Quality Assurance
QC Quality Control

RBC Rotating Biological Contactor

RPA Regional Project Area

SIG Supplemental Information Guidelines

SS Suspended Solids
TDS Total Dissolved Solids
TKN Total Kjeldahl Nitrogen
TOC Total Organic Carbon
TOD Total Oxygen Demand

TS Total Solids

TSP Total Suspended Particulates
TSS Total Suspended Solids
TK Traditional Knowledge

UTM Universal Transverse Mercator

UV Ultraviolet Light

VOC Volatile Organic Compound VEC Valued Ecosystem Component

WHMIS Workplace Hazardous Material Information System

Package 3 NIRB and NWB Application Documents

P3-3 NPC Conformity Determination



From: Sharleen Hamm

Sent: June 4, 2015 10:58 AM

To: Brian Aglukark (aglukark@nunavut.ca)

Subject: RE: Doris North Project, Kitikmeot Region (2AM-DOH1323, Project Certificate 003, NIRB File #

05MN047)

Hi Brian,

I'm following up on the email and our subsequent phone conversation on May 14. Based on that conversation, I understand that you have provided a response to the NIRB, on which TMAC should have been cc'd. When we chatted, you advised that you would confirm and follow-up with me by the end of the day on May 14, yet have not received a response.

Are you able to forward a copy of your communication to the NIRB? We'd like to have that for our records and inclusion in our impending submission to the NIRB and the NWB.

Feel free to call to discuss further, as needed.

Kind regards,

Sharleen

Sharleen Hamm 604.996.1110

From: John Roberts

Sent: May 8, 2015 11:20 AM

To: Brian Aglukark (aglukark@nunavut.ca)

Cc: Sharleen Hamm

Subject: Doris North Project, Kitikmeot Region (2AM-DOH1323, Project Certificate 003, NIRB File #

05MN047)

Mr. Aglukark,

TMAC Resources Inc. is planning to submit an updated application the NWB and the NIRB to amend the water licence (2AM-DOH1323) and project certificate (#003, NIRB File # 05MN047) for the Doris North Project in the Kitikmeot Region. The project is located in the following general geographic area:

Project Extents

Latitude	Longitude
68° 11′ 05″ N	106° 38′ 58″ W
68° 10′ 43″ N	106° 36′ 31″ W
68° 06′ 34″ N	106° 32′ 22″ W
68° 08′ 07″ N	106° 37′ 44″ W

Camp

Latitude Longitude

68° 08′ 07″ N 106° 36′ 52.6″ W

It is our understanding that a conformity decision is not required for this project. Please review and confirm this understanding.

Thank you for your help. John

M. John Roberts
Vice President, Environmental Affairs
TMAC Resources Inc.
95 Wellington Street West, Suite 1010
Toronto, Ontario M5J 2N7
Ph. 416.628.0216
M. 416.522.5718

"Building Canada's Next Gold Mining District"

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