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 (+ Inuinnagtun, if in the Kitikmeot).

SECTION 1: APPLICANT INFORMATION

- 1. Project Name Madrid Advanced Exploration Project
- 2. Applicant's full name and mailing address:

TMAC Resources Inc. 95 Wellington Street West Suite 1010, P.O. Box 44 Toronto, Ontario, M5J 2N7

3. Primary contact's full name and mailing address:

M. John Roberts Vice President, Environmental Affairs TMAC Resources Inc. 95 Wellington Street West Suite 1010, P.O. Box 44 Toronto, Ontario, M5J 2N7

Phone: 416-628-0126 Fax: 416-644-9337

e-mail: john.roberts@tmacresources.com

SECTION 2: AUTHORIZATION NEEDED

1. Indicate all authorizations associated with the project proposal:

		 _
X	Regional Inuit Association (RIA)	Canadian Launch Safety (CLS)
X	Nunavut Water Board (NWB)	Environment Canada (EC)
	Nunavut Planning Commission (NPC)	Government of Nunavut (GN)
X	Indian and Northern Affairs Canada (INAC)	Department of National Defense (DND)
	Department of Fisheries and Oceans (DFO)	Hamlet
	Community Government & Services (CG&S)	Parks Canada (PC)
	Nunavut Research Institute (NRI)	Canadian Wildlife Service (CWS)
	Department of Culture, Language, Elders, and Youth (CLEY)	Other (please specify):

2. List the <u>active</u> permits, licences, or other authorizations related to the project proposal, and their expiry date(s):

Hope Bay Belt Authorizations

Quarry Permits (KIA) KTP308Q010 - Quarries A, B, D (expires Jan 20, 2015) KTP307Q010 - Quarries 2, 3, 4 (expires Jan 20, 2015) IOL Surface tenure - Quarries G and H (application pending) Land Use Licences (KIA) KTL303C056 - Hope Bay Land Use (expires Jan 20, 2015) KTL306C003 - Boston Land Use Licence (expires Jan 20, 2015) KTL306F007 - Winter Road Land Use (expires Jan 20, 2015) IOL Surface tenure for advanced exploration - Madrid (application pending) Mineral Lease (NTI) IOL Exploration Agreement BB60-00-01:TOK 1 Renewal Anniversary Date Dec 31, 2014 IOL Exploration Agreement BB60-00-03:TOK 3 Renewal Anniversary Date Dec 31, 2014 Mining Lease (AANDC/INAC) #4648 Madrid 1 and #4649 Madrid 2 Expires Oct 12, 2022 Commercial Lease (KIA) KTCL313D001 - Commercial Lease (expires Sept 13, 2018)	Trope day belt Authorizations
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KTCL313D001 - Commercial Lease (expires Sept 13, 2018) Water Licences (NWB)	Commercial Lease (KIA)
Water Licences (NWB)	
	RTCL313D001 - Confiniercial Lease (expires 3ept 13, 2010)
	Water Licences (NWB)
ZDD-DOSTZ17 DOSTOH AUVANCEU EXDIOFATION FTOIECUTEXDIFES TUTV 51, ZU171	2BB-BOS1217 Boston Advanced Exploration Project (expires July 31, 2017)
2AM-DOH1323 Doris North Mining and Milling Undertaking (expires Aug 15, 2023)	
2BE-HOP1222 Hope Bay Regional Exploration Program (June 30, 2022)	
2BB-Madrid Advanced Exploration Program (application pending)	
0.11	(4.11-4.11-4.0)

3.	List the <u>pending</u> permits, licences, or other	er authorizations relate	ed to the project proposal:
	NWB water licence and IOL surface tenure		
4.	Has this project or <u>any components of the</u> NIRB?	is project been previo	usly screened or reviewed by
	YES		NO
	If YES, indicate the previous project name	and NIRB File No.	

Exploration and bulk sampling activities at Boston have been screened and determined to be exempt **(EX148)** and regional exploration activities across the Hope Bay Belt have also been screened and determined to be exempt. Advanced exploration and mine development at Doris North Project has been screened and undergone environmental assessment (screening **05MN047** and Project Certificate 003).

	SE	CTION 3: PROJ	ECT PR	OPOS	AL DESCRIPTION			
1. Ind (S	dicate the type ee Appendix A for Pro			propos	sal (check all	that	appl	y) ^(1,2) :
1	All-Weather Road/Acc	cess Trail		9	Site Cleanup/Remed	liation		
2	Winter Road/ Winter	Гrail		10	Oil and N Exploration/Activities	latural	Gas	
3	Mineral Exploration			11	Marine Based Activities			
4	Advanced Mineral Ex	ploration		12	Scientific/Internation Research*	al Polar	Year	
5	Mine Development /B	ulk Sampling		13	Harvesting Activities	*		
6	Pits and quarries			14	Tourism Activities*			
7	Offshore Infrastructur	e (port, break wate	er,	15	Other ⁽²⁾ :			
8	Seismic Survey							
D U O 3a. If I	ase Metals (zinc, copper, riamonds tranium other:				olete the table and q	uestions	below.	_
	*	Quantity			enegad Hoo		l anath	of Hoo
ıra	nsportation Type E.g. Helicopter	Quantity	Site		oposed Use pick ups and drop offs		Length 6 da	
3c. If a	escribe any docks, pier oposed project activities a temporary camp site	is to be establis	elated st the build	ructure ding of	s that are to be used new structures may re	equire a P	ction wi art 2 Fo	th the rm.
4. Pe Total persor	ersonnel No. of anel on Peak is 7	Total No.	of	applical	Tota	I No. of P		•

5. Timing Period of operation:	from	Jan 1		to	Dec 31 each year
Proposed term of authorization:	from	June 2015		to	May 2025
6a. Region (check all North Baffin South Baffin	that apply):	Kitikmeot		Transboundary:
the nearest communities are Um km to the southwest 6c. Discuss the histor The Hope Bay Belt mineralization that of years, the belt has previous operators. If from an underground including air strips, buildings, and underground development of the	nunities at the belt in the be	and any protected are solocated approximately (70 km to the source perty). site if it has been us the south trending gravided into three are ne considerable exists North Project is Phelocated near Doris I all storage, a port fall development at the and/or Boston are round and open per solocated approximately and open per solocated approximately ap	ed for any projectent of the Property of the P	ect ac with devel vide of Bay blants Bost infra	economically viable zones of gold and Boston. Over the past twenty lopment activities by TMAC and development, with gold production Belt has significant infrastructure and administration, geology, and lab con areas. Phase 2 includes the structure and waste management decessing. The proposed advanced
					etorical sites in the area.
be implemented					
7. Land Status (chec X Crown X Inuit Owned Surf 8a. Co-ordinates:		Commission	ners' I Sub-Surface La	ands	Municipal
	Lat/I	Long	U	TM	
NE 68° 06′ 34″ N		106° 32′ 22″ W	7555	864	435954
NW 68° 08′ 07″ N		106° 37′ 44″ W	7555		432309
SE 68° 00′ 13″ N		106° 29′ 00″ W	7544		438000
SW 68° 00′ 07″ N		106° 40′ 29″ W	7544	UU0	430000
NTS Map Sheet No: (Please ensure that map Resources Canada)		3 Hope Bay (1:50 000 project are attached (1:50		1:25	0, 000 Mandatory) available from Natural
Not applicable		udes a camp , pleas			nates of the camp location
Min Lat (degree/minute)	_		Min Long (d	legree	/minute)

Max Lat (degree/minute)	Max Long (degree/minute)	
If different from above for the camp: NTS Map Sheet No:		

Please ensure that maps of the project are attached (1:50,000 **if available**, 1:250, 000 **Mandatory**) available from Natural Resources Canada

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 "Madrid Advanced Exploration Program Type B Water Licence Application Supplemental Information Report" Section 2.0 for a non-technical description of the project proposal and appropriate translations.

SECTION 5: MATERIAL USE

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

Refer to Part 2 Project Specific Information Requirement (PSIR) Form.

2a. Detail fuel and hazardous material use:

Refer to Part 2 Project Specific Information Requirement (PSIR) Form

2b. Describe the proposed Spill Prevention Plan.

Spill Prevention and Response will be in accordance with the approved Hope Bay Spill Contingency Plan with updates as required to incorporate the Madrid Advanced Exploration Project.

3a. Detail the anticipated daily water consumption rates

Daily amount (m³)	Proposed water retrieval methods	Proposed water retrieval location
Up to 295	1 1	Patch Lake, Windy Lake and lakes local to diamond drill locations (>15,000m2)

3b. Have you applied for a water Licence with the Nunavut Water Board?

X YES NO

If yes, what class of	licence?		
□ C	lass A Water Licence X	Class B Water Licence	
SECT	ION 6: WASTE DISPOSAL	AND TREATMENT MET	HODS
1. List the types of	waste associated with the	e proposed project activi	ties:
Refer to Part 2 Project Spec	cific Information Requirem	ent (PSIR) Form.	
1. List the types of	waste associated with the	e proposed project activi	ties (continued):
Refer to Part 2 Project Spec	cific Information Requirem	ent (PSIR) Form.	
2. Describe the propose	ed Waste Management Pl	an.	
O .		e current Plans for the Don Requirement (PSIR) Form	
SECTIO	N 7: COMMUNITY INVOLV	VEMENT & REGIONAL BE	NEFITS
the meetings if a	vailable: ced Exploration Program		d provide the minutes of Application Supplemental
Community	Name	Organization	Date Contacted
	SECTION 8: GENE	RAL QUESTIONS	
Will you be disturbin	g any known archaeolog		
•	ES (see attached Points W		
	SECTION 9: APPLI	CANT SIGNATURE	
Please sign and date you	ır application:		

Vice President, Environmental Affairs

Title

Signature

December 8, 2014

Date

1. GENER	RAL PROJECT INFORMATION REQUIREMENTS	Location (section) within Madrid Advanced Exploration Type B Water license application Supplemental Report
Project Co	oordinates and Maps	license application Supplemental Report
roject et	The preferred method for submitting project coordinates information is	1 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1	through the use of a Geographic Information System (GIS) compatible digital file.	Application, Supplemental Information Report: Section 2.1.1 (Table 2.1-1)
2	Map of the project site within a regional context indicating the distance to the closest communities.	Supplemental Information Report: Section 3.5.1 (Figure 3.5-1)
3	Map of any camp site including locations of camp facilities.	Supplemental Information Report: Section 3.5.1 (Figure 3.5-2)
4	Map of the project site indicating existing and/or proposed infrastructure, proximity to water bodies and proximity to wildlife and wildlife habitat.	Supplemental Information Report: Figure 3.5-2, 4.2-1, 4.3-1
Project G	eneral Information	
5	Discuss the need and purpose of the proposed project.	Supplemental Information Report: Section 3.7
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).	Supplemental Information Report: Section 10.10.1 to 10.10.4, Appendix 4
7	Provide a schedule for all project activities.	Application, Supplemental Information Report: Section 3.4
8	List the acts, regulations and guidelines that apply to project activities.	Supplemental Information Report: Section 1 Application and Supplemental Information Report: Section 10.2 (Table
9	List the approvals, permits and licenses required to conduct the project.	10.2-1)
DFO Ope	erational Statement (OS) Conformity	10.2 1)
10	Indicate whether any Department of Fisheries and Oceans (DFO) Operational	Supplemental Information Report: Section 4
10	Statement (OS) activities apply to the project proposal	Supplemental Information Report. Section 4
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.	Supplemental Information Report: Section 4, Appendix 4, Section 6.5
Transport		
12	Describe how the project site will be accessed and how supplies will be brought to site. Provide a map showing access route(s).	Supplemental Information Report: Section 4.2.1, 4.3.1 (Figure 4.2-1, 4.3-1)
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.	not applicable
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.	not applicable
15	Describe expected flight altitudes, frequency of flights and anticipated flight	not applicable
	routes.	not applicable
Camp Site		C 1 1116 C D 16 C 1414
16	Describe all existing and proposed camp structures and infrastructure Describe the type of camp: a. Mobile	Supplemental Information Report: Section 4.1.4
17	b. Temporary c. Seasonal d. Permanent e. Other	Supplemental Information Report: Section 4.1.4
18	Describe the maximum number of personnel expected on site, including the timing for those personnel involved with the project.	Supplemental Information Report: Section 4.1.4
Equipme		
19	Provide a list of equipment required for the project and discuss the uses for the equipment.	Supplemental Information Report: Section 4.2.6 and 4.3.6 (Tables 4.2-1 and 4.2-2)
20	If possible, provide digital photos of equipment.	Not available
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.	Application, Supplemental Information Report: Section 4.2.6, 4.2.7, 4.3.6, 4.3.7, 6.1
22	Describe the estimated rate of water consumption (m³/day).	Application, Supplemental Information Report: Section 6.1 (Table 6.1-1)
23	Describe how waste water will be managed. If relevant, provide detail regarding location of sumps, including capacity of sumps and monitoring.	Application, Supplemental Information Report: Section 4.2.11.1, 4.3.11, 6.4, 7.1 to 7.5, 8.1 (Table 8.1-1) and 8.2
24	If applicable, discuss how surface water and underground water will be managed and monitored.	Supplemental Information Report: Section 6.3.1, 6.3.2, 10.4.3 and 10.4.5.1

TAT . TAT .	. (6	
waste Wat	ter (Grey water, Sewage, Other) Describe the quantities, treatment, storage, transportation, and disposal	
	methods for the following (where relevant):	
	- Sewage	
	- Camp grey wate - Combustible solid waste	Supplemental Information Report: Section 7.1 (Table 7.1-1) and Section
25		I == : : : : : : : : : : : : : : : : : :
	- Non-combustible solid waste, including bulky items/scrap metal	8.1 (Table 8.1-1)
	- Hazardous waste or oil	
	- Contaminated soils/snow	
	- Empty barrels/fuel drums - Any other waste produced	
26	If the project proposal includes a landfill or landfarm, indicate the locations	S 1 411 (1 P 4 S 1 40410 104 (T 11 04 4)
26	on a map, provide the conceptual design parameters, and discuss waste	Supplemental Information Report: Section 4.2.11.3 and 8.1 (Table 8.1-1)
	management and contact-water management procedures.	
Fuel		
	Describe the types of fuel, quantities (number of containers, type of	
27	containers and capacity of containers), method of storage and containment.	Supplemental Information Report: Section 4.1.5, 4.2.4 (Figure 4.2-1),
	Indicate the location on a map where fuel is to be stored, and method of	4.2.10.3, 4.3.4 (Figure 4.3-1), 4.3.10 and 4.4.1
	transportation of fuel to project site.	
	Describe any secondary containment measures to be employed, including the	
28	type of material or system used. If no secondary containment is to be	Supplemental Information Report: Section 4.2.4, 4.3.4 and 4.4.1
20	employed, please provide justification.	Cumplemental Information Deposits Coation 4 2 10 2 1 4 2 10
29	Describe the method of fuel transfer and the method of refuelling.	Supplemental Information Report: Section 4.2.10.3 and 4.3.10 Supplemental Information Report: Section 4.2.10.3, 4.3.10, 4.4.1 and 8.1
30	Describe spill control measures in place.	(Table 8.1-1)
Chemicals	ı and Hazardous Materials*	((1able 0.1*1)
тистиней от	and Hazardous Materials* 11 not tunned to ons, greases, arm man, antifreeze, carciam or soman emoriae san,	
load acid ha	Describe the types, quantities (number of containers, the type of container	C 1 (11 (" D (C " 10400 10440 1010
	and capacity of containers), method of storage and containment. Indicate the	Supplemental Information Report: Section 4.2.10.2, 4.2.11.3, 4.3.10,
31	location on a map where material is to be stored, and method of	4.3.11, Appendix 4
	transportation of materials to project site.	Figure 4.2-1 and 4.3-1
32	Describe any secondary containment measures to be employed, including the	Supplemental Information Report: Section 4.2.10.2, 4.3.10, Appendix 4
32	type of material or system used.	1
33	Describe the method of chemical transfer.	Supplemental Information Report: Section 4.2.10.2, 4.2.11.3, 4.3.10,
- 55		4.3.11, Appendix 4
34	Describe spill control measures in place.	Cumplemental Information Departs Castian 9.1 /Table 9.1.1) and 10.9
Workforce		Supplemental Information Report: Section 8.1 (Table 8.1-1) and 10.8
	and Human Keenurcee/Socio-Economic Impacte	
	e and Human Resources/Socio-Economic Impacts Discuss opportunities for training and employment of local Inuit	
35	Discuss opportunities for training and employment of local Inuit	Supplemental Information Report: Section 11.2
35	Discuss opportunities for training and employment of local Inuit beneficiaries.	
	Discuss opportunities for training and employment of local Inuit	Supplemental Information Report: Section 11.2 Supplemental Information Report: Section 11.2
35 36	Discuss opportunities for training and employment of local Inuit beneficiaries. Discuss workforce mobilization and schedule, including the duration of work and rotation length, and the transportation of workers to site.	Supplemental Information Report: Section 11.2
35 36 37	Discuss opportunities for training and employment of local Inuit beneficiaries. Discuss workforce mobilization and schedule, including the duration of work and rotation length, and the transportation of workers to site. Discuss, where relevant, any specific hiring policies for Inuit beneficiaries.	
35 36 37	Discuss opportunities for training and employment of local Inuit beneficiaries. Discuss workforce mobilization and schedule, including the duration of work and rotation length, and the transportation of workers to site. Discuss, where relevant, any specific hiring policies for Inuit beneficiaries. olvement/ Traditional Knowledge	Supplemental Information Report: Section 11.2
35 36 37	Discuss opportunities for training and employment of local Inuit beneficiaries. Discuss workforce mobilization and schedule, including the duration of work and rotation length, and the transportation of workers to site. Discuss, where relevant, any specific hiring policies for Inuit beneficiaries. olvement/ Traditional Knowledge Indicate which communities, groups, or organizations would be affected by	Supplemental Information Report: Section 11.2 Supplemental Information Report: Section 11.2
35 36 37 Public Inv 38	Discuss opportunities for training and employment of local Inuit beneficiaries. Discuss workforce mobilization and schedule, including the duration of work and rotation length, and the transportation of workers to site. Discuss, where relevant, any specific hiring policies for Inuit beneficiaries. olvement/ Traditional Knowledge Indicate which communities, groups, or organizations would be affected by this project proposal.	Supplemental Information Report: Section 11.2
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35 36 37 Public Inv 38 39	Discuss opportunities for training and employment of local Inuit beneficiaries. Discuss workforce mobilization and schedule, including the duration of work and rotation length, and the transportation of workers to site. Discuss, where relevant, any specific hiring policies for Inuit beneficiaries. olvement/ Traditional Knowledge Indicate which communities, groups, or organizations would be affected by this project proposal. Describe any consultation with interested Parties which has occurred	Supplemental Information Report: Section 11.2 Supplemental Information Report: Section 11.2 Supplemental Information Report: Section 5.5 and Section 11.2 Supplemental Information Report: Section 11.2
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35 36 37 Public Inv 38 39 40	Discuss opportunities for training and employment of local Inuit beneficiaries. Discuss workforce mobilization and schedule, including the duration of work and rotation length, and the transportation of workers to site. Discuss, where relevant, any specific hiring policies for Inuit beneficiaries. olvement/ Traditional Knowledge Indicate which communities, groups, or organizations would be affected by this project proposal. Describe any consultation with interested Parties which has occurred regarding the development of the project proposal. Provide a summary of public involvement measures, a summary of concerns expressed, and strategies employed to address any concerns. Describe how traditional knowledge was obtained, and how it has been integrated into the project.	Supplemental Information Report: Section 11.2 Supplemental Information Report: Section 11.2 Supplemental Information Report: Section 5.5 and Section 11.2 Supplemental Information Report: Section 11.2 Supplemental Information Report: Section 11.2 Supplemental Information Report: Section 11.2
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35 36 37 Public Inv 38 39 40 41 42 2. PROJEC SECTION A-1. Projec	Discuss opportunities for training and employment of local Inuit beneficiaries. Discuss workforce mobilization and schedule, including the duration of work and rotation length, and the transportation of workers to site. Discuss, where relevant, any specific hiring policies for Inuit beneficiaries. olvement/ Traditional Knowledge Indicate which communities, groups, or organizations would be affected by this project proposal. Describe any consultation with interested Parties which has occurred regarding the development of the project proposal. Provide a summary of public involvement measures, a summary of concerns expressed, and strategies employed to address any concerns. Describe how traditional knowledge was obtained, and how it has been integrated into the project. Discuss future consultation plans. T SPECIFIC INFORMATION A: Roads/Trails et Information	Supplemental Information Report: Section 11.2 Supplemental Information Report: Section 11.2 Supplemental Information Report: Section 5.5 and Section 11.2 Supplemental Information Report: Section 11.2 Supplemental Information Report: Section 11.2 Supplemental Information Report: Section 5.5 and Section 11.2 Supplemental Information Report: Section 5.5 and Section 11.2 Supplemental Information Report: Section 11.2
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A-2. All-W	Veather Road/Access Trail	
7	Discuss road design considerations for permafrost.	Supplemental Information Report: Section 4.2, 4.3, Appendix 4C
	Describe the construction materials (type and sources for materials), and the	
8	acid rock drainage (ARD) and metal leaching characteristics of the construction materials.	Supplemental Information Report: Section 4.2, 4.3, Appendix 4C
9	Discuss construction techniques, including timing for construction activities.	Application, Supplemental Information Report: Section 4.2, 4.3, 4.4, Appendix 4C
10	Indicate on a map the locations of designated refuelling areas, water	Supplemental Information Report: Section 4.2, 4.3, Appendix 4C
	crossings, culverts, and quarries/borrow sources.	There are no public roads associated with the project. Otherwise 20 to
11	Identify the proposed traffic speed and measures employed to ensure public safety.	25km/hour in congested areas, up to 40km/hour for light vehicles in non-congested areas.
12	Describe dust management procedures.	Supplemental Information Report: Section 4.2, 4.3, Appendix 4, Section 6.1 and 10.5.1
ECTION	B: Mineral Exploration/Advanced Exploration/Development	
-1. Proje	ct Information	
		Application, Supplemental Information Report: Section 5.2, Appendix
1	Describe the type of mineral resource under exploration.	5
-2. Explo	oration Activity	
	Indicate the type of exploration activity:	
	- Bulk Sampling (underground or other)	
	- Stripping	
	- Trenching	
_	- Pitting	
2	- Delineation drilling	Application, Supplemental Information Report: Section 3.5, 3.6 and 4.4
	e e e e e e e e e e e e e e e e e e e	
	- Prelimnary delineation drilling	
	- Exploration Drilling	
	- Geophysical Work (ground and/or air)	
	- Other	
	Describe the exploration activities associated with this project:	
	- Satellite remote sensing	
	- Aircraft remote sensing	
	Ü	
	- Soil sampling	
	- Sediment sampling	
	- On land drilling (indicate drill type)	
	- On ice drilling (indicate drill type)	
	1 2 7	
	- Water based drilling (indicate drill type)	
	- Overburden removal	Application, Supplemental Information Report: Section 3.5, 3.6 and 4.2
3	- Explosives transportation and storage	to 4.4
	- work within navigable waters	10 4.4
	- On site sample processing	
	- Off site sample processing	
	- Waste rock storage	
	- Ore storage	
	- Tailings disposal	
	- Portal and underground ramp construction	
	- Landfilling	
	o a constant of the constant o	
2.6	- Landfarming	
3-3. Geos		
	Indicate the geophysical operation type:	
	a. Seismic	
4	b. Magnetic	Constance to Linds and Co. C. A.A.A. 11. 4
4	c. Gravimetric	Supplemental Information Report: Section 4.4, Appendix 4
	d. Electromagnetic	
	g .	
	e. Other Indicate the geological operation type:	
	a. Geological Mapping	
	0 11 0	
5	b. Aerial Photography	Supplemental Information Report: Section 4.4, Appendix 4
-	c. Geotechnical Survey	Tr Samuel
	d. Ground Penetrating Survey	
	9	
	e. Other	
		0 1 117 (11 12 12 13 13 13 13 13 13 13 13 13 13 13 13 13
6	Indicate on a map the boundary subject to air and/or ground geophysical	Supplemental Information Report: Section 3.5.1 (Figure 3.5-2)
6		Supplemental Information Report: Section 3.5.1 (Figure 3.5-2) TBD

D 4 D		
B-4. Drilli		
8	Provide the number of drill holes and depths (provide estimates and	Supplemental Information Report: Section 3.6, Section 4
	maximums where possible).	
9	Discuss any drill additives to be used.	Supplemental Information Report: Section 4.4.1
10	Describe method for dealing with drill cuttings.	Supplemental Information Report: Section 4.4.1
11	Describe method for dealing with drill water.	Supplemental Information Report: Section 4.4.2
12	Describe how drill equipment will be mobilized.	Supplemental Information Report: Section 4.4.1
13	Describe how drill holes will be abandoned.	Supplemental Information Report: Section 4.4.3
	If project proposal involves uranium exploration drilling, discuss the	
14	potential for radiation exposure and radiation protection measures. Please	not applicable
	refer to the Canadian Guidelines for Naturally Occurring Radioactive Materials for	
	more information.	
B-5. Stripp	ping/ Trenching/ Pit Excavation	
15	Discuss methods employed. (i.e. mechanical, manual, hydraulic, blasting,	not applicable
	other)	**
16	Describe expected dimensions of excavation(s) including depth(s).	not applicable
17	Indicate the locations on a map.	not applicable
18	Discuss the expected volume material to be removed.	not applicable
19	Discuss methods used to determine acid rock drainage (ARD) and metal	not applicable
	leaching potential and results.	
	rground Activities	
20	Describe underground access.	Supplemental Information Report: Section 4, Appendix 4
21	Describe underground workings and provide a conceptual plan.	Supplemental Information Report: Section 4, Appendix 4
22	Show location of underground workings on a map.	Supplemental Information Report: Section 4, Appendix 4
23	Describe ventilation system.	Supplemental Information Report: Section 4, Appendix 4
24	Describe the method for dealing with ground ice, groundwater and mine	Supplemental Information Report: Section 4, Appendix 4, Section
	water when encountered.	10.4.3
25	Provide a Mine Rescue Plan.	TBD
B-7. Waste	e Rock Storage and Tailings Disposal	
26	Indicate on a map the location and conceptual design of waste rock storage	Supplemental Information Report: Section 4, Appendix 4
	piles and tailings disposal facility.	
27	Discuss the anticipated volumes of waste rock and tailings.	Supplemental Information Report: Section 4.2.3, 4.3.3, Appendix 4
28	Discuss methods used to determine acid rock drainage (ARD) and metal	Supplemental Information Report: Section 4, Appendix 4
	leaching (ML) potential and results.	Supplemental Information Report. Section 4, Appendix 4
B-8. Stock	piles	
29	Indicate on a map the location and conceptual design of all stockpiles.	Supplemental Information Report: Section 4, Appendix 4
30	Describe the types of material to be stockpiled. (i.e. ore, overburden)	Supplemental Information Report: Section 4.2.2, 4.3.2, Appendix 4
31		0 1 1177 11 12 12 14 14 14 14 14 14
	Describe the anticipated volumes of each type of material to be stockpiled.	Supplemental Information Report: Section 4.2.2, 4.3.2, Appendix 4
	Describe the anticipated volumes of each type of material to be stockpiled. Describe any containment measures for stockpiled materials as well as	Supplemental Information Report: Section 4.2.2, 4.3.2, Appendix 4 Supplemental Information Report: Section 4.2.2, 4.2.7, 4.2.8, 4.3.2, 4.3.7,
32	Describe any containment measures for stockpiled materials as well as treatment measures for runoff from the stockpile.	
32	Describe any containment measures for stockpiled materials as well as	Supplemental Information Report: Section 4.2.2, 4.2.7, 4.2.8, 4.3.2, 4.3.7, 4.3.8, Appendix 4
32	Describe any containment measures for stockpiled materials as well as treatment measures for runoff from the stockpile. Discuss methods used to determine acid rock drainage (ARD) and metal leaching (ML) potential and results.	Supplemental Information Report: Section 4.2.2, 4.2.7, 4.2.8, 4.3.2, 4.3.7,
32	Describe any containment measures for stockpiled materials as well as treatment measures for runoff from the stockpile. Discuss methods used to determine acid rock drainage (ARD) and metal	Supplemental Information Report: Section 4.2.2, 4.2.7, 4.2.8, 4.3.2, 4.3.7, 4.3.8, Appendix 4
32	Describe any containment measures for stockpiled materials as well as treatment measures for runoff from the stockpile. Discuss methods used to determine acid rock drainage (ARD) and metal leaching (ML) potential and results.	Supplemental Information Report: Section 4.2.2, 4.2.7, 4.2.8, 4.3.2, 4.3.7, 4.3.8, Appendix 4
32	Describe any containment measures for stockpiled materials as well as treatment measures for runoff from the stockpile. Discuss methods used to determine acid rock drainage (ARD) and metal leaching (ML) potential and results. Development Activities Indicate the type(s) of mine development activity(s):	Supplemental Information Report: Section 4.2.2, 4.2.7, 4.2.8, 4.3.2, 4.3.7, 4.3.8, Appendix 4
32	Describe any containment measures for stockpiled materials as well as treatment measures for runoff from the stockpile. Discuss methods used to determine acid rock drainage (ARD) and metal leaching (ML) potential and results. Development Activities Indicate the type(s) of mine development activity(s): - Underground BULK SAMPLE	Supplemental Information Report: Section 4.2.2, 4.2.7, 4.2.8, 4.3.2, 4.3.7, 4.3.8, Appendix 4 Supplemental Information Report: Section 8.3, Appendix 8B
32 33 B-9. Mine	Describe any containment measures for stockpiled materials as well as treatment measures for runoff from the stockpile. Discuss methods used to determine acid rock drainage (ARD) and metal leaching (ML) potential and results. Development Activities Indicate the type(s) of mine development activity(s): - Underground BULK SAMPLE - Open Pit	Supplemental Information Report: Section 4.2.2, 4.2.7, 4.2.8, 4.3.2, 4.3.7, 4.3.8, Appendix 4
32 33 B-9. Mine	Describe any containment measures for stockpiled materials as well as treatment measures for runoff from the stockpile. Discuss methods used to determine acid rock drainage (ARD) and metal leaching (ML) potential and results. Development Activities Indicate the type(s) of mine development activity(s): - Underground BULK SAMPLE - Open Pit - Strip Mining	Supplemental Information Report: Section 4.2.2, 4.2.7, 4.2.8, 4.3.2, 4.3.7, 4.3.8, Appendix 4 Supplemental Information Report: Section 8.3, Appendix 8B
32 33 B-9. Mine	Describe any containment measures for stockpiled materials as well as treatment measures for runoff from the stockpile. Discuss methods used to determine acid rock drainage (ARD) and metal leaching (ML) potential and results. Development Activities Indicate the type(s) of mine development activity(s): - Underground BULK SAMPLE - Open Pit	Supplemental Information Report: Section 4.2.2, 4.2.7, 4.2.8, 4.3.2, 4.3.7, 4.3.8, Appendix 4 Supplemental Information Report: Section 8.3, Appendix 8B Supplemental Information Report: Section 4
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32 33 B-9. Mine 34	Describe any containment measures for stockpiled materials as well as treatment measures for runoff from the stockpile. Discuss methods used to determine acid rock drainage (ARD) and metal leaching (ML) potential and results. Development Activities Indicate the type(s) of mine development activity(s): - Underground BULK SAMPLE - Open Pit - Strip Mining - Other Describe mine activities. - Mining development plan and methods	Supplemental Information Report: Section 4.2.2, 4.2.7, 4.2.8, 4.3.2, 4.3.7, 4.3.8, Appendix 4 Supplemental Information Report: Section 8.3, Appendix 8B Supplemental Information Report: Section 4
32 33 B-9. Mine 34	Describe any containment measures for stockpiled materials as well as treatment measures for runoff from the stockpile. Discuss methods used to determine acid rock drainage (ARD) and metal leaching (ML) potential and results. Development Activities Indicate the type(s) of mine development activity(s): - Underground BULK SAMPLE - Open Pit - Strip Mining - Other Describe mine activities. - Mining development plan and methods - Mine development plan	Supplemental Information Report: Section 4.2.2, 4.2.7, 4.2.8, 4.3.2, 4.3.7, 4.3.8, Appendix 4 Supplemental Information Report: Section 8.3, Appendix 8B Supplemental Information Report: Section 4
32 33 B-9. Mine 34	Describe any containment measures for stockpiled materials as well as treatment measures for runoff from the stockpile. Discuss methods used to determine acid rock drainage (ARD) and metal leaching (ML) potential and results. Development Activities Indicate the type(s) of mine development activity(s): - Underground BULK SAMPLE - Open Pit - Strip Mining - Other Describe mine activities. - Mining development plan and methods - Mine development plan - Site access	Supplemental Information Report: Section 4.2.2, 4.2.7, 4.2.8, 4.3.2, 4.3.7, 4.3.8, Appendix 4 Supplemental Information Report: Section 8.3, Appendix 8B Supplemental Information Report: Section 4
32 33 B-9. Mine 34	Describe any containment measures for stockpiled materials as well as treatment measures for runoff from the stockpile. Discuss methods used to determine acid rock drainage (ARD) and metal leaching (ML) potential and results. Development Activities Indicate the type(s) of mine development activity(s): - Underground BULK SAMPLE - Open Pit - Strip Mining - Other Describe mine activities. - Mining development plan and methods - Mine development plan - Site access - Site infrastructure	Supplemental Information Report: Section 4.2.2, 4.2.7, 4.2.8, 4.3.2, 4.3.7, 4.3.8, Appendix 4 Supplemental Information Report: Section 8.3, Appendix 8B Supplemental Information Report: Section 4
32 33 B-9. Mine 34	Describe any containment measures for stockpiled materials as well as treatment measures for runoff from the stockpile. Discuss methods used to determine acid rock drainage (ARD) and metal leaching (ML) potential and results. Development Activities Indicate the type(s) of mine development activity(s): - Underground BULK SAMPLE - Open Pit - Strip Mining - Other Describe mine activities. - Mining development plan and methods - Mine development plan - Site access - Site infrastructure - Milling process	Supplemental Information Report: Section 4.2.2, 4.2.7, 4.2.8, 4.3.2, 4.3.7, 4.3.8, Appendix 4 Supplemental Information Report: Section 8.3, Appendix 8B Supplemental Information Report: Section 4
32 33 B-9. Mine 34	Describe any containment measures for stockpiled materials as well as treatment measures for runoff from the stockpile. Discuss methods used to determine acid rock drainage (ARD) and metal leaching (ML) potential and results. Development Activities Indicate the type(s) of mine development activity(s): - Underground BULK SAMPLE - Open Pit - Strip Mining - Other Describe mine activities. - Mining development plan and methods - Mine development plan - Site access - Site infrastructure - Milling process - Water source(s) for domestic and industrial uses, required volumes,	Supplemental Information Report: Section 4.2.2, 4.2.7, 4.2.8, 4.3.2, 4.3.7, 4.3.8, Appendix 4 Supplemental Information Report: Section 8.3, Appendix 8B Supplemental Information Report: Section 4
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B-10. Geol	logy and Mineralogy	
37	Describe the physical nature of the ore body, including known dimensions	Supplemental Information Report: Section 5.2, Appendix 5
	and approximate shape.	* **
38	Describe the geology/ mineralogy of the ore deposit	Supplemental Information Report: Section 5.2, Appendix 5
39	Describe the host rock in the general vicinity of the ore body.	Supplemental Information Report: Section 5.2, Appendix 5
40	Discuss the predicted rate of production. Describe mine rock geochemical test programs which have been or will be	Supplemental Information Report: Section 4
41	performed on the ore, host rock, waste rock and tailings to determine acid	Supplemental Information Report: Section 4, Appendix 4, 5 and 8
	generation and contaminant leaching potential. Outline methods and	
B-11. Mine	provide results if possible.	
42	Discuss the expected life of the mine.	Supplemental Information Report: Section 3.4
		Supplemental Information Report: Section 4.2.6 and 4.3.6 (Tables 4.2-1
43	Describe mine equipment to be used.	and 4.2-2)
	Does the project proposal involve lake and/or pit dewatering? If so, describe	,
44	the activity as well as the construction of water retention facilities if	not applicable
	necessary.	
45	Discuss the possibility of operational changes occurring during the mine life	not applicable
	with consideration for timing. (e.g. open pit to underground)	
	If project proposal involves uranium mining, consider the potential for	
46	radiation exposure and radiation protection measures. Particular attention	not applicable
10	should be paid to <i>The Nuclear Safety and Control Act</i> .	not appreciate
B-12. Mill		
	If a mill will be operating on the property in conjunction with mining,	
47	indicate whether mine-water may be directed to the mill for reuse.	not applicable
48	Describe the proposed capacity of the mill.	not applicable
	Describe the physical and chemical characteristics of mill waste as best as	
49	possible.	not applicable
	Will or does the mill handle custom lots of ore from other properties or mine	t1:1:-
50	sites?	not applicable
SECTION		
	Describe all activities included in this project:	
	- Pitting	
	- Quarrying	
	- Overburden removal	
	- Road use and/or construction	
1	- Explosives transportation and storage	Supplemental Information Report: Section 4, Appendix 8C
	- Work within navigable waters	7
	- Blasting	
	- Stockpiling	
	- Crushing	
	- Washing	
	Describe any field investigations and the results of field investigations used in	
2	determining new extraction sites.	Supplemental Information Report: Section 5, Section 8, Appendix 8C
3	Identify any carving stone deposits.	not applicable
4	Provide a conceptual design including footprint.	Supplemental Information Report: Section 4, Appendix 4 and 8C
5	Describe the type and volume of material to be extracted.	Supplemental Information Report: Section 4, Appendix 4
6	Describe the depth of overburden.	Supplemental Information Report: Section 4, Appendix 4
	Describe the depth of overburden.	Supplemental information Report. Section 4, Appendix 4
7	Describe any existing and potential for thermokarst development and any	
7	Describe any existing and potential for thermokarst development and any thermokarst prevention measures.	
	Describe any existing and potential for thermokarst development and any	Supplemental Information Report: Section 5.2, Appendix 5, Section 7.3 and 10.4.3
8	Describe any existing and potential for thermokarst development and any thermokarst prevention measures. Describe any existing or potential for flooding and any flood control measures.	Supplemental Information Report: Section 5.2, Appendix 5, Section 7.3 and 10.4.3 Supplemental Information Report: Section 4.2.7, 4.2.8, 4.3.7, 4.3.8
8	Describe any existing and potential for thermokarst development and any thermokarst prevention measures. Describe any existing or potential for flooding and any flood control	Supplemental Information Report: Section 5.2, Appendix 5, Section 7.3 and 10.4.3 Supplemental Information Report: Section 4.2.7, 4.2.8, 4.3.7, 4.3.8 Supplemental Information Report: Section 6.4, 7.2, 10.4.2 and Table
	Describe any existing and potential for thermokarst development and any thermokarst prevention measures. Describe any existing or potential for flooding and any flood control measures. Describe any existing or potential for erosion and any erosion control measures.	Supplemental Information Report: Section 5.2, Appendix 5, Section 7.3 and 10.4.3 Supplemental Information Report: Section 4.2.7, 4.2.8, 4.3.7, 4.3.8 Supplemental Information Report: Section 6.4, 7.2, 10.4.2 and Table 10.3-1
8	Describe any existing and potential for thermokarst development and any thermokarst prevention measures. Describe any existing or potential for flooding and any flood control measures. Describe any existing or potential for erosion and any erosion control measures. Describe any existing or potential for sedimentation and any sedimentation	Supplemental Information Report: Section 5.2, Appendix 5, Section 7.3 and 10.4.3 Supplemental Information Report: Section 4.2.7, 4.2.8, 4.3.7, 4.3.8 Supplemental Information Report: Section 6.4, 7.2, 10.4.2 and Table 10.3-1 Supplemental Information Report: Section 10.4.2, 10.4.5.1 and Table
8	Describe any existing and potential for thermokarst development and any thermokarst prevention measures. Describe any existing or potential for flooding and any flood control measures. Describe any existing or potential for erosion and any erosion control measures. Describe any existing or potential for sedimentation and any sedimentation control measures.	Supplemental Information Report: Section 5.2, Appendix 5, Section 7.3 and 10.4.3 Supplemental Information Report: Section 4.2.7, 4.2.8, 4.3.7, 4.3.8 Supplemental Information Report: Section 6.4, 7.2, 10.4.2 and Table 10.3-1
8	Describe any existing and potential for thermokarst development and any thermokarst prevention measures. Describe any existing or potential for flooding and any flood control measures. Describe any existing or potential for erosion and any erosion control measures. Describe any existing or potential for sedimentation and any sedimentation control measures. Describe any existing or potential for slumping and any slump control	Supplemental Information Report: Section 5.2, Appendix 5, Section 7.3 and 10.4.3 Supplemental Information Report: Section 4.2.7, 4.2.8, 4.3.7, 4.3.8 Supplemental Information Report: Section 6.4, 7.2, 10.4.2 and Table 10.3-1 Supplemental Information Report: Section 10.4.2, 10.4.5.1 and Table
8 9 10	Describe any existing and potential for thermokarst development and any thermokarst prevention measures. Describe any existing or potential for flooding and any flood control measures. Describe any existing or potential for erosion and any erosion control measures. Describe any existing or potential for sedimentation and any sedimentation control measures.	Supplemental Information Report: Section 5.2, Appendix 5, Section 7.3 and 10.4.3 Supplemental Information Report: Section 4.2.7, 4.2.8, 4.3.7, 4.3.8 Supplemental Information Report: Section 6.4, 7.2, 10.4.2 and Table 10.3-1 Supplemental Information Report: Section 10.4.2, 10.4.5.1 and Table 10.3-1 not applicable
8 9 10	Describe any existing and potential for thermokarst development and any thermokarst prevention measures. Describe any existing or potential for flooding and any flood control measures. Describe any existing or potential for erosion and any erosion control measures. Describe any existing or potential for sedimentation and any sedimentation control measures. Describe any existing or potential for slumping and any slump control	Supplemental Information Report: Section 5.2, Appendix 5, Section 7.3 and 10.4.3 Supplemental Information Report: Section 4.2.7, 4.2.8, 4.3.7, 4.3.8 Supplemental Information Report: Section 6.4, 7.2, 10.4.2 and Table 10.3-1 Supplemental Information Report: Section 10.4.2, 10.4.5.1 and Table 10.3-1 not applicable Supplemental Information Report: Section 5.2, Appendix 5, Section 8,
8 9 10 11 12	Describe any existing and potential for thermokarst development and any thermokarst prevention measures. Describe any existing or potential for flooding and any flood control measures. Describe any existing or potential for erosion and any erosion control measures. Describe any existing or potential for sedimentation and any sedimentation control measures. Describe any existing or potential for slumping and any slump control measures. Describe any existing or potential for slumping and any slump control measures. Describe the moisture content of the ground.	Supplemental Information Report: Section 5.2, Appendix 5, Section 7.3 and 10.4.3 Supplemental Information Report: Section 4.2.7, 4.2.8, 4.3.7, 4.3.8 Supplemental Information Report: Section 6.4, 7.2, 10.4.2 and Table 10.3-1 Supplemental Information Report: Section 10.4.2, 10.4.5.1 and Table 10.3-1 not applicable Supplemental Information Report: Section 5.2, Appendix 5, Section 8, Appendix 8C
8 9 10 11	Describe any existing and potential for thermokarst development and any thermokarst prevention measures. Describe any existing or potential for flooding and any flood control measures. Describe any existing or potential for erosion and any erosion control measures. Describe any existing or potential for sedimentation and any sedimentation control measures. Describe any existing or potential for slumping and any slump control measures.	Supplemental Information Report: Section 5.2, Appendix 5, Section 7.3 and 10.4.3 Supplemental Information Report: Section 4.2.7, 4.2.8, 4.3.7, 4.3.8 Supplemental Information Report: Section 6.4, 7.2, 10.4.2 and Table 10.3-1 Supplemental Information Report: Section 10.4.2, 10.4.5.1 and Table 10.3-1 not applicable Supplemental Information Report: Section 5.2, Appendix 5, Section 8, Appendix 8C not applicable
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8 9 10 11 12 13	Describe any existing and potential for thermokarst development and any thermokarst prevention measures. Describe any existing or potential for flooding and any flood control measures. Describe any existing or potential for erosion and any erosion control measures. Describe any existing or potential for sedimentation and any sedimentation control measures. Describe any existing or potential for slumping and any slump control measures. Describe any existing or potential for slumping and any slump control measures. Describe the moisture content of the ground. Describe any evidence of ice lenses. If blasting, describe methods employed.	Supplemental Information Report: Section 5.2, Appendix 5, Section 7.3 and 10.4.3 Supplemental Information Report: Section 4.2.7, 4.2.8, 4.3.7, 4.3.8 Supplemental Information Report: Section 6.4, 7.2, 10.4.2 and Table 10.3-1 Supplemental Information Report: Section 10.4.2, 10.4.5.1 and Table 10.3-1 not applicable Supplemental Information Report: Section 5.2, Appendix 5, Section 8, Appendix 8C not applicable
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8 9 10 11 12 13 14 15	Describe any existing and potential for thermokarst development and any thermokarst prevention measures. Describe any existing or potential for flooding and any flood control measures. Describe any existing or potential for erosion and any erosion control measures. Describe any existing or potential for sedimentation and any sedimentation control measures. Describe any existing or potential for slumping and any slump control measures. Describe any existing or potential for slumping and any slump control measures. Describe any evidence of ice lenses. If blasting, describe methods employed. Describe the explosive type(s), hazard class, volumes, uses, location of storage (show on map), and method of storage.	Supplemental Information Report: Section 5.2, Appendix 5, Section 7.3 and 10.4.3 Supplemental Information Report: Section 4.2.7, 4.2.8, 4.3.7, 4.3.8 Supplemental Information Report: Section 6.4, 7.2, 10.4.2 and Table 10.3-1 Supplemental Information Report: Section 10.4.2, 10.4.5.1 and Table 10.3-1 not applicable Supplemental Information Report: Section 5.2, Appendix 5, Section 8, Appendix 8C not applicable Supplemental Information Report: Section 4.2.10.2, 4.3.10, Appendix 4, 6.2 Supplemental Information Report: Section 4.2.10.2, 4.3.10
8 9 10 11 12 13 14	Describe any existing and potential for thermokarst development and any thermokarst prevention measures. Describe any existing or potential for flooding and any flood control measures. Describe any existing or potential for erosion and any erosion control measures. Describe any existing or potential for sedimentation and any sedimentation control measures. Describe any existing or potential for slumping and any slump control measures. Describe any existing or potential for slumping and any slump control measures. Describe the moisture content of the ground. Describe any evidence of ice lenses. If blasting, describe methods employed. Describe the explosive type(s), hazard class, volumes, uses, location of storage (show on map), and method of storage. Discuss methods used to determine acid rock drainage (ARD) and metal	Supplemental Information Report: Section 5.2, Appendix 5, Section 7.3 and 10.4.3 Supplemental Information Report: Section 4.2.7, 4.2.8, 4.3.7, 4.3.8 Supplemental Information Report: Section 6.4, 7.2, 10.4.2 and Table 10.3-1 Supplemental Information Report: Section 10.4.2, 10.4.5.1 and Table 10.3-1 not applicable Supplemental Information Report: Section 5.2, Appendix 5, Section 8, Appendix 8C not applicable Supplemental Information Report: Section 4.2.10.2, 4.3.10, Appendix 4, 6.2
8 9 10 11 12 13 14 15	Describe any existing and potential for thermokarst development and any thermokarst prevention measures. Describe any existing or potential for flooding and any flood control measures. Describe any existing or potential for erosion and any erosion control measures. Describe any existing or potential for sedimentation and any sedimentation control measures. Describe any existing or potential for slumping and any slump control measures. Describe any existing or potential for slumping and any slump control measures. Describe any evidence of ice lenses. If blasting, describe methods employed. Describe the explosive type(s), hazard class, volumes, uses, location of storage (show on map), and method of storage.	Supplemental Information Report: Section 5.2, Appendix 5, Section 7.3 and 10.4.3 Supplemental Information Report: Section 4.2.7, 4.2.8, 4.3.7, 4.3.8 Supplemental Information Report: Section 6.4, 7.2, 10.4.2 and Table 10.3-1 Supplemental Information Report: Section 10.4.2, 10.4.5.1 and Table 10.3-1 not applicable Supplemental Information Report: Section 5.2, Appendix 5, Section 8, Appendix 8C not applicable Supplemental Information Report: Section 4.2.10.2, 4.3.10, Appendix 4, 6.2 Supplemental Information Report: Section 4.2.10.2, 4.3.10

3. DESCRI	IPTION OF THE EXISTING ENVIRONMENT								
Physical E	nvironment								
,	§ Proximity to protected areas, including:								
	§ Eskers and other unique landscapes (e.g. sand hills, marshes, wetlands,								
	floodplains).								
	§ Evidence of ground, slope or rock instability, seismicity.								
	§ Evidence of thermokarsts.								
	§ Evidence of ice lenses.								
	§ Surface and bedrock geology.								
	§ Topography. § Permafrost (e.g. stability, depth, thickness, continuity, taliks).								
	S Sediment and soil quality.								
	g Seament and son quanty.	Supplemental Information Deposits Costing F.2 and American							
	§ Hydrology/ limnology (e.g. watershed boundaries, lakes, streams, sediment geochemistry, surface water flow, groundwater flow, flood zones).	Supplemental Information Report: Section 5.2 and Appendix 5							
	§ Tidal processes and bathymetry in the project area (if applicable).								
	§ Water quality and quantity.								
	§ Air quality.								
	§ Climate conditions and predicted future climate trends.								
	§ Noise levels.								
	§ Other physical Valued Ecosystem Components (VEC) as determined through community consultation and/or literature review.								
Biological	Environment								
	§ Vegetation (terrestrial as well as freshwater and marine where applicable).								
	§ Wildlife, including habitat and migration patterns.								
	§ Birds, including habitat and migration patterns.								
	§ Species of concern as identified by federal or territorial agencies, including	Supplemental Information Report: Section 5.3 and Appendix 5							
	any wildlife species listed under the Species at Risk Act (SARA), its critical								
	habitat or the residences of individuals of the species.								
	§ Aquatic (freshwater and marine) species, including habitat and								
	migration/spawning patterns.								
	§ Other biological Valued Ecosystem Components (VEC) as determined								
	through community consultation and/or literature review.								
Socioecono	omic Environment								
	§ Proximity to communities.								
	§ Archaeological and culturally significant sites (e.g. pingos, soap stone								
	quarries) in the project (Local Study Area) and adjacent area (Regional Study								
	Area).								
	§ Palaeontological component of surface and bedrock geology.								
	§ Land and resource use in the area, including subsistence harvesting,	Supplemental Information Report: Section 3.5.1, 3.6							
	tourism, trapping and guiding operations.	Triff to the state of the state							
	§ Local and regional traffic patterns.								
	§ Human Health, broadly defined as a complete state of wellbeing (including								
	physical, social, psychological, and spiritual aspects). § Other Valued Socioeconomic Components (VSEC) as determined through								
	1 \ /								
	community consultation and/or literature review.								
4. IDENTI	FICATION OF IMPACTS AND PROPOSED MITIGATION MEASURES								
-,									
	Please complete the attached Table 1 – Identification of Environmental								
4	Impacts, taking into consideration the components/activities and project	Constant of Information P. C. C. 400 1711 4001							
1	phase(s) identified in Section 4 of this document. Identify impacts in Table 1	Supplemental Information Report: Section 10.3 and Table 10.3-1							
	as either positive (P), negative and mitigable (M), negative and non-mitigable								
	(N), or unknown (U).								
2	Discuss the impacts identified in the above table.	Supplemental Information Report: Section 10.3 and Table 10.3-1							
3	Discuss potential socioeconomic impacts, including human health.	Supplemental Information Report: Section 5.5, 10.6 and Appendix 5							
4	Discuss potential for transboundary effects related to the project.	Supplemental Information Report: Section 10.9							
	Identify any potentially adverse effects of the project proposal on species								
5	listed under the Species at Risk Act (SARA) and their critical habitats or	Supplemental Information Report: Section 10.5.2							
	residences, what measures will be taken to avoid or lessen those effects and	•							
	how the effects will be monitored.	C 1 (11 () D () 10 () 10 (
6 E CUMUU	Discuss proposed measures to mitigate all identified negative impacts.	Supplemental Information Report: Section 10.4 and 10.5							
5. CUMUL	ATIVE EFFECTS								
1	1								
l	Discuss how the effects of this project interact with the effects of relevant	L							
	Discuss how the effects of this project interact with the effects of relevant past, present and reasonably foreseeable projects in a regional context.	Supplemental Information Report: Section 10.7							
	Discuss how the effects of this project interact with the effects of relevant past, present and reasonably foreseeable projects in a regional context.	Supplemental Information Report: Section 10.7							

6. SUPPORTING DOCUMENTS								
Where relevant, provide the following supporting documents:								
Abandonment and Decommissioning Plan	Supplemental Information Report: Section 8, Appendix 8C							
Existing site photos with descriptions	Not available							
Emergency Response Plan	Supplemental Information Report: Section 8.1 (Table 8.1-1)							
Comprehensive Spill Prevention/Plan (must consider hazardous waste and								
fuel handling, storage, disposal, spill prevention measures, staff training and emergency contacts)	Supplemental Information Report: Section 8.1 (Table 8.1-1)							
	Supplemental Information Report: Section 4.2.11, 4.3.11, 7.1 (Table 7.1-1) and 8.1 (Table 8.1-1)							
Monitoring and Management Plans (e.g. water quality, air pollution, noise control and wildlife protection etc.)	Supplemental Information Report: Section 8.1 (Table 8.1-1)							
Monitoring Plan	not applicable							
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.	not applicable							
§ Human Health Risk Assessment of the contaminants at the site.	not applicable							

M.L.B	I	ENVIRONMENTAL 40 COMPONENTS 3		designated areas environmental areas (se. Parke, Wildlife Propertied areas)		permafrost	tydologyl Imnology	Water quality	dimate conditions	eakers and other unique or fragile landscapes	surface and bedrock geology	sedment and soll quality	tidal processes and bathymetry	Appropriate description of the state of the	riose levels	other VEC:	other VEC:	other VEC:	BIOLOGICAL	vegetation	widfle, including habbat and migration patterns	birds, including habit at and migration patterns	aquatic species, ind. habbat and migration/spewring	widife protected areas	other VEC:	other VEC:	other VEC:	SOCIO-ECONOMIC	archaeological and outural historic sites	employment	community welness	community	human health	other VSEC
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Table 1 - TMAC Madrid Type B Application - Environ	nmental Aff		t Phase		T
Potential Effect	Construction	Operations	Temporary Closure/ Closure	Post-Closure	Summary of Mitigation Measures
Air Quality Degradation of air quality due to exhaust emissions from vehicles, aircraft and other combustion	М	M	М		Use of well-maintained, fuel efficient equipment and promotion of fuel conservation measures.
equipment Degradation of air quality due to fugitive dust emissions from blasting and quarrying	М	М			Dust generated will be short term and localized in nature and may settle on nearby overburden/soils, vegetation and surface water. As needed, water will be applied during periods of dry weather and/or application of approved dust suppression chemicals.
Degradation of air quality due to fugitive dust emissions from increased use of the existing airstrip and road traffic	М	М	М		Dust generated will be localized in nature and may settle on nearby overburden/soils, vegetation and surface water. As needed, water will be applied during the summer periods of dry weather and/or application of approved dust suppression chemicals.
Greenhouse gas emissions contributing to climate change	М	М	М		Use of well-maintained, fuel efficient equipment and promotion of fuel conservation measures. The equivalent emissions of GHG from the Madrid Advanced Exploration Program during the peak year is approximately 0.002% of Canada's annual emissions.
Noise					the peak year is approximately 0.002 % of Canada's annual emissions.
Changes to background noise conditions due to movement of vehicles, aircraft and other equipment	М	М	М		Equipment fitted with appropriate mufflers and silencers. Use enclosures, berms, acoustic screening and shrouding where stationary sources requiring control are identified. Keeping equipment in a well maintained condition.
Increased noise and vibration due to blasting and exploration drilling	М	М			Use enclosures, berms, acoustic screening and shrouding where stationary sources requiring control are identified. Keeping equipment in a well maintained condition.
Ground Stability and Permafrost					Reeping equipment in a well maintained condition.
Alteration of the active layer	M/N	M/N	M/N	M/N	Effects to permafrost will be mitigated as far as practical by reducing the extent of cut and fill areas; cut and fill will be allowed in designated rock quarries Appropriate thermal insulation will be placed to prevent onset of thermal erosion. Where fill is required, it will be of sufficient thickness and quality such that the active layer is not reduced.
Acceleration of permafrost-related processes such as mass wasting and erosion	M	М	M	M	Minimizing areas of disturbance. Where disturbance occurs, erosion and sediment control measures including compaction, sediment fences, and erosion control blankets will be implemented.
Groundwater					
Changes in groundwater quality due to the interaction between talik groundwater and underground mine water	M	M			Minimize operations within talik zone. Underground water will be collected into sumps and re-used for underground drilling. If excess water accumulates, the collected water will be transported to the Pollution Control
Changes in groundwater quality due to the interaction between deep groundwater and					Pond on surface. Mine operations do not extend below the base of the permanently frozen zone.
underground mine water Degradation of active layer water due to contact	M	M			Surface water management strategies including diversion/collection systems have been incorporated to reduce the risk of degradation of very shallow groundwater in the active-
with poor quality (contact) water Surface Water Quantity					layer.
Surface water Quantity Surface water drawdown of area lakes as a result of					Recycling of intercepted contact water for drilling purposes will reduce the demand for fresh
use	M	M			water and lake drawdown. Compliance with DFO Guidelines for under ice water taking.
Alteration in surface runoff patterns due to	M	M	M		Minimizing footprint and diversion of surface runoff, minimizes the alteration to runoff
diversions Surface Water Quantity and Sediment Quality					patterns. Diverted surface runoff is kept within the existing watershed.
Changes in surface water quality from disposal of					Contact water meeting discharge criteria will be released from the bulk sample pad to the tundra at least 31m away from the local waterways.
contact water at bulk sample sites		М	M	M	If the discharge water does not meet the water quality criteria, it will be transported to the Doris North Project for disposal in TIA. Transport of treated or untreated contact water for discharge to the TIA at the Doris North Project may also be implemented.
Changes in water quality from fugitive dust emissions	М	М			Appropriate drainage and sediment control structures will be used to prevent sediment laden water from entering surrounding waters. Dust generation will be minimized by road watering or by using other non-toxic, non-wildlife attractant substances to suppress dust.
Changes in surface water quality from runoff from quarry sites	М	М			Contact water within the quarry boundaries will be collected in a sump. If this contact water meets discharge criteria it will be discharged to the environment. If it does not meet discharge criteria it will be trucked to the Pollution Control Pond for reuse, or trucked to Doris North Project for disposal in TIA. Management plans will outline the storage, handling and use of explosives to minimize
Changes in surface water quality from runoff water					excessive residue and nitrogen loading. Runoff from the pads will be directed to the Pollution Control Pond and runoff from the roads may be monitored for two years to confirm geochemical stability of the material.
from roads, pads, and other infrastructure	М	М	М	M	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.
Presence of hydrocarbons owing to fuel spills	М	M	M		Available spill and emergency response equipment. The possibility of accidental spills or releases will be eliminated or reduced by implementation of management plans and standard operating procedures.
Changes in surface water quality from disposal of treated sewage effluent and/or sludge					The existing camp facilities at Doris North Project will be used and portable, latrine style toilet facilities at Madrid South and Madrid North. Toilet wastes will be returned to the Doris North Project for disposal at existing sewage treatment facilities.
Changes in surface water quality from disposal of underground mine water	M	M	М		Underground contact water will be collected in underground sumps and reused for drilling. Excess water will be pumped to the surface and discharged to the Pollution Control Ponds.

		Projec	t Phase		
Potential Effect	Construction	Operations	Temporary Closure/ Closure	Post-Closure	Summary of Mitigation Measures
Mobilization of particulate material dust-generating activities	M	M			Dust generation will be minimized by road watering or by using other non-toxic, non- wildlife attractant substances to suppress dust.
Changes in surface water quality from runoff from quarry sites	М	М	М	М	Disposal of the drilling wastes in either a local sump or pumped to a system allowing the solids to settle out and clarified water to be released to tundra away from any surface water body. The remaining solids (sludge) can then be left in place at the local sump and reclaimed, or can be deposited in a dedicated containment location.
Disturbance and suspension of sediments from in- water construction activities	M				Appropriate drainage and sediment control structures will be used to prevent sediment laden water from entering surrounding waters.
Changes in sediment quality from disposal of treated contact water at bulk sample sites	М	M	М	М	Contact water meeting discharge criteria will be released from the bulk sample pad to the tundra at least 31 m away from the local waterways. If the discharge water does not meet the water quality criteria, a treatment plant may be installed to treat to the required concentration and release to the tundra 31 m away from local waterways. Transport of treated or untreated contact water for discharge to the TIA at the Doris North Project may also be implemented.
Presence of hydrocarbons in sediment quality owing to fuel spills	M	M			The possibility of accidental spills or releases will be eliminated or reduced by implementation of management plans and standard operating procedures.
Changes in sediment quality from disposal of treated sewage effluent and/or sludge					The existing camp facilities at Doris North Project will be used and portable, latrine style toilet facilities at Madrid South and Madrid North. Toilet wastes will be returned to the Doris North Project for disposal at existing sewage treatment facilities.
Vegetation					Loss of ecosystems and vegetation will be minimized by minimizing Project footprint and
Loss of ecosystems and vegetation to infrastructure development	N	N			Loss of ecosystems and vegetation will be minimized by minimizing project rooprint and utilization of existing infrastructure and access corridors associated with the Doris North Project. The total area that will be converted to roads, pads, and laydown areas amounts to approximately 25 ha across the Madrid area.
Degradation of eco-systems and vegetation through increased dust deposition, chemical spills, alteration of local hydrology, or the introduction of invasive species	М	M	M	М	Implementation of dust mitigation measures and available spill and emergency response measures Where practical, road construction and maintenance will prevent the ponding of water to maintain local hydrological patterns. The introduction of invasive plant species to newly disturbed areas will be minimized by
Degradation of ecosystems and vegetation through discharge to the tundra		M			washing machinery and vehicles thoroughly prior to their use on site. Erosion will be mitigated through the use of silt curtains and Pollution Control Ponds, as required.
Terrestrial Fauna					Minimizing overall Project footprint and avoiding significant habitat.
Habitat loss due to infrastructure development	M	M	M	M	Avoiding clearing during wildlife sensitive periods or using qualified personnel to conduct pre-clearing surveys if clearing occurs within sensitive wildlife periods.
Changes in movement and behaviour due to sensory disturbance from blasting, human presence, vehicle and aircraft traffic	M	M	М		Equipment fitted with appropriate mufflers and silencers. Use enclosures, berms, acoustic screening and shrouding where stationary sources requiring control are identified. Keeping equipment in a well maintained condition.
Mortality due to vehicle and aircraft traffic	M	M	М		Vehicle speed limits will be implemented and enforced and vehicles restricted to site roads and quarry footprints.
Mortality or reduced vigor from ingestion of contaminants deposited in food and water sources due to construction activities, vehicle traffic, and drilling activities	М	М	М	М	A waste and wildlife attractant management protocol implemented such that wildlife do not have access to camp wastes, contaminated areas, and attractants.
Aquatic Fauna					Recycling of intercepted contact water for drilling purposes will reduce the demand for fresh
Reduction in habitat or de-oxygenation of water through water withdrawals for operations and dust suppression activities	М	М			water and lake drawdown. Compliance with DFO Guidelines for under ice water taking. Minimizing footprint and diversion of surface runoff, minimizes the alteration to runoff
Reduction in habitat quality through reduced water or sediment quality associated with the introduction of nutrients or contaminants, including elevated TSS levels through dust-generating and in-water construction activities	М	М			patterns. Diverted surface runoff is kept within the existing watershed. The mitigation measures already described for water and sediment quality will help minimize the potential effects to aquatic organisms, fish, and fish habitat by minimizing changes to water and sediment. Elevated levels of TSS will be mitigated through the use of silt curtains and Pollution Control Ponds, as required.
Removal or alteration of aquatic habitat for infrastructure, including the construction of bridges or culverts	М	M			Minimized accepted techniques for sediment control, riparian care, site isolation, and timing windows. Location of infrastructure to minimize the loss of aquatic systems, with a particular focus on avoiding important fish habitat. 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.
Historical and Traditional Uses		I	1		
Disturbance or loss of recorded and unrecorded archaeological sites or significant heritage resources	М	M			The footprint has been surveyed and the recorded archaeological sites are mitigable with recovery in accordance with Territorial legislation and implementation of a "chance find" procedure. The footprint has been surveyed and the recorded archaeological sites are mitigable with
Damage or removal of archaeological material	M	M			recovery in accordance with Territorial legislation and implementation of a "chance find" procedure.
Decrease in access to land for land users	N	N	М	М	Communication will be a major component of mitigation to changes to access to the area. This would inform other land users of activities associated with Project construction and operations, including restricted areas, blasting activities, and wildlife management. Communication will enable land users to adjust their activities accordingly, and stay informed regarding Project development.
Changes to the aesthetic quality of the area	M	M	М	М	TMAC will also consider suggestions made by land users and residents of local communities in the development of mitigation and enhancements, in the interest of ensuring that these measures are meaningful and effective in the local context.
Note:	P = Positive				

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