

Volume 1 Annex V1-7 Type A Water Licence Applications

Package P3-3

NWB Supplemental Information Guidelines

Amendment No. 2 Type A Water Licence (Doris & Madrid)



2.0 Minimum Application Requirements

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 Date of Document</u> where information is provided	Insert <u>electronic file name of document</u> where information is provided	Insert <u>Section of document</u> where information is provided	NWB Concordance Assessment
Minimum Application Requirements	1	General Water Licence Application Form (see the NWB's <i>Guide 4: Completing and Submitting a Water Licence Application for a New Licence</i>) or Application for Water Licence Amendment Form, if appropriate (see NWB's <i>Guide 7: Licensee Requirements Following the Issuance of a Water Licence</i>).	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_3, P3-1	Volume_1, Annex V1-7, Package_3, P3-1 NWB Amendment Type A Water Licence Application Form (Doris & Madrid)	
	2	Information required to satisfy the requirements of the SIG including plans, reports and designs.	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume 1 through 8 and associated appendices	Volume 1 through 8 and associated appendices	
	3	Executive summary in English.	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_1, P1-1	Volume_1, Annex V1-7, Package_1, P1-1 Executive Summary Doris—Madrid (translated)	
	4	Translated executive summary in appropriate language and dialect.	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_1, P1-1	Volume_1, Annex V1-7, Package_1, P1-1 Executive Summary Doris—Madrid (translated)	
	5	Application fee.	Y	Y	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_3, P3-1	Volume_1, Annex V1-7, Package_3, P3-1 NWB Amendment Type A Water Licence Application Form (Doris & Madrid) Appendix A	
	6	Water use fee.	Y	Y	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_3, P3-1	Volume_1, Annex V1-7, Package_3, P3-1 NWB Amendment Type A Water Licence Application Form (Doris & Madrid)	
	7	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	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_3, P3-3	Volume_1, Annex V1-7, Package_3, P3-3 NWB Supplemental Information Guidelines Amendment Type A Water Licence (Doris & Madrid)	

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 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.
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	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_3, P3-1	Volume_1, Annex V1-7, Package_3, P3-1 NWB Amendment No. 2 Type A Water Licence Application Form (Doris & Madrid)	-		
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).	N/A	No third party.	-	Volume_1, Annex V1-7, Package_3, P3-1	Volume_1, Annex V1-7, Package_3, P3-1 NWB Amendment No. 2 Type A Water Licence Application Form (Doris & Madrid)	-		
	3	Provide a signed letter authorizing a party to be the applicant's representative in the licensing process.	N/A	No third party.	-	Volume_1, Annex V1-7, Package_3, P3-1	Volume_1, Annex V1-7, Package_3, P3-1 NWB Amendment No. 2 Type A Water Licence Application Form (Doris & Madrid)	-		
Name of Project	4	Provide the name of the project.	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_3, P3-1	Volume_1, Annex V1-7, Package_3, P3-1 NWB Amendment No. 2 Type A Water Licence Application Form (Doris & Madrid)	-		
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	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_3, P3-1	Volume_1, Annex V1-7, Package_3, P3-1 NWB Amendment No. 2 Type A Water Licence Application Form (Doris & Madrid)	-		
	a	Provide location by Latitude and Longitude.	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_3, P3-1	Volume_1, Annex V1-7, Package_3, P3-1 NWB Amendment No. 2 Type A Water Licence Application Form (Doris & Madrid)	-		
	b	Provide location by UTM coordinates, if available.	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_3, P3-1	Volume_1, Annex V1-7, Package_3, P3-1 NWB Amendment No. 2 Type A Water Licence Application Form (Doris & Madrid)	-		
	c	Provide the distances to the nearest communities.	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_2,	Volume_2, Section 1.4.1	-		
	6	Indicate whether the drainage basin, in which the project is located, is shared with any other jurisdiction. If applicable, indicate which jurisdiction.	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_5, Section 1.7	Volume_5, Section 1.7	-		
Map	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.	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_1, P1-3	Volume_1, Annex V1-7, Package_1, P1-3 Maps Doris-Madrid	-		
Nature of Interest in the Land	8	Provide the nature of the interest in the land associated with the proposed undertaking, including:	Y	-	See below	Volume_1, Annex V1-7, Package_2, P2-1	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid)	-		
	a	Sub-surface leases from Nunavut Tunngavik Incorporated (NTI) and/or Indian and Northern Affairs Canada (INAC) as well 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 numbers.	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-1, Package_3, P3-1	Volume_1, Annex V1-1, Package_3, P3-1 NWB Amendment No. 2 Type A Water Licence Application Form (Doris & Madrid)	-		

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	b	The date or expected date of issuance of any authorization and the date of expiry.	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_2,	Volume_2, Section 1.3	-		
	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	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_2,	Volume_2, Section 1.3	-		
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.	N/A	As set out on page 4 of the NIRB 12.10.2 Determination Report issued June 24, 2016, "On December 8, 2011 the NIRB received the Phase 2 Hope Bay Belt project proposal from then Proponent Hope Bay Mining Limited (HBML), and subsequently on January 12, 2012 the NIRB received a referral for screening from the Kitikmeot Inuit Association (KIA). The proposed Phase 2 Hope Bay Belt project proposal is located in the Kitikmeot Region, an area that does not currently have an approved land use plan in place; therefore, a conformity determination from the Nunavut Planning Commission was not required at that time for this file. The NIRB assigned the Phase 2 Hope Bay Belt project proposal file number 12MN001 and commenced screening pursuant to Article 12, Part 4 of the NLCA."	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_3, P3-1	Volume_1, Annex V1-7, Package_3, P3-1 NWB Amendment No. 2 Type A Water Licence Application Form (Doris & Madrid)	-		
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	-	Guidelines for Preparation of an Environmental Impact Statement for Hope Bay Mining Ltd.' Phase 2 Hope Bay belt Project (NIRB File no. 12MN001) December 2012	Volume_1, Annex V1-7, Package_3, P3-1	Volume_1, Annex V1-7, Package_3, P3-1 NWB Amendment No. 2 Type A Water Licence Application Form (Doris & Madrid)	-		
	a	Written confirmation from NIRB that the project proposal does not require screening;	N/A	See below.	-	Volume_1, Annex V1-7, Package_3, P3-1	Volume_1, Annex V1-7, Package_3, P3-1 NWB Amendment No. 2 Type A Water Licence Application Form (Doris & Madrid)	-		
	b	NIRB's screening determination;	Y	-	NIRB Screening Decision Report, February 2012, NIRB	Volume_1, Annex V1-7, Package_3, P3-1	Volume_1, Annex V1-7, Package_3, P3-1 NWB Amendment No. 2 Type A Water Licence Application Form (Doris & Madrid)	-		
	c	If a review is required, NIRB's recommendation to the Minister regarding the type of review;	Y	-	NIRB Screening Decision Report, February 2012, NIRB	Volume_1, Annex V1-7, Package_3, P3-1	Volume_1, Annex V1-7, Package_3, P3-1 NWB Amendment No. 2 Type A Water Licence Application Form (Doris & Madrid)	-		
	d	If a review is required, the Minister's written decision regarding the review of the development proposal;	Y	-	NIRB Screening Decision Report, February 2012, NIRB	Volume_1, Annex V1-7, Package_3, P3-1	Volume_1, Annex V1-7, Package_3, P3-1 NWB Amendment No. 2 Type A Water Licence Application Form (Doris & Madrid)	-		

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	e	If a review is required, NIRB's project certificate;	N/A		-	Volume_1, Annex V1-7, Package_3, P3-1	Volume_1, Annex V1-7, Package_3, P3-1 NWB Amendment No. 2 Type A Water Licence Application Form (Doris & Madrid)	-		
	12	List of activities requested for exception in accordance with NLCA s. 12.10.2;	N/A	No activities requested for exception at this time.	-	-	-	-		
	13	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.	N/A	No requirement at this time	-	-	-	-		
Description of Undertaking	14	See section 4 of this SIG for specific requirements.								
Other Applicable Supplemental Information Guidelines	15	Indicate whether any other Supplemental Information Guidelines apply to the undertaking including the following:								
	a	Hydrostatic testing	N/A	-	-	-	-	-		
	b	Tannery	N/A	-	-	-	-	-		
	c	Tourist / remote camp	N/A	-	-	-	-	-		
	d	Landfarm and on-site storage of hydrocarbon contaminated soil	N/A	-	-	-	-	-		
	e	Onshore oil and gas exploration drilling	N/A	-	-	-	-	-		
	f	Mineral exploration/ remote camp	N/A	-	-	-	-	-		
	g	Advanced exploration	N/A	-	-	-	-	-		
	h	Mine development	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_3, P3-1	Volume_1, Annex V1-7, Package_3, P3-1 NWB Amendment No. 2 Type A Water Licence Application Form (Doris & Madrid)			
	i	Municipal	N/A	-	-	-	-	-		
	j	General Water Works	N/A	-	-	-	-	-		
	l	Power	N/A	-	-	-	-	-		
Options (Alternatives)	16	Provide a brief explanation of the alternative methods or locations that were considered to carry out the project.	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume 3 and Volume 1 Annex V1-7 Package 5, P5-11, P5-16, P4-17, P5-18, P5-19, P5-22	Volume_3, Section 7 and Volume 1, Annex V1-7 Package_5, P5-11 Hope Bay Project: Madrid-Boston All-Weather Preliminary Road Design Section 3 P5-16 Doris Tailings Management System Phase 2 Design, Hope Bay Project P5-17 Hope Bay Project: Madrid North Surface Infrastructure Preliminary Design Section 3 P5-18 Hope Bay Project: Madrid South Surface Infrastructure Preliminary Design Section 3 P5-19 Hope Bay Project: Madrid Water Management Design Section 4.4.2 P5-22 Hope Bay Project: Madrid-North Tailings Impoundment Area All Weather Road Preliminary Design	-		
Water Use	17	See section 6 of this SIG for specific requirements	-	-	-			-	-	-
Water Use: Quality and Quantity	18	See section 6 of this SIG for specific requirements	-	-	-			-	-	-
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	-	-	-			-	-	-

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Other Authorizations	21	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	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_2	Volume_2, Section 1.3	This section provides a list of anticipated approvals and authorizations that may be required. The timelines for approvals will be determined by the authorizing agency post NIRB and NWB Licensing Phase.		
	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	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_2	Volume_2, Section 1.3	-		
	23	Provide formal applications to the Navigable Waters Protection Program (NWPP) for any works.	N/A	No Navigable Waters within Project Area.	-	-	-	-		
	24	Provide a timetable for filing the appropriate plans and procedures required by government parties.	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_4, P4	Volume_1, Annex V1-7, Package_4, P4 Table 1.1-1	-		
	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.	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_2	Volume_2, Section 1.3	-		
Predicted Environmental Effect and Proposed Mitigation Measures	26	Identify the potential effect of water use and waste disposal on the following components:	Y	-	See below	-	-	-		
	a	Groundwater and Surface Water including:			Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume 5, Volume 1, Annex V1-7, Package 5	Volume 5, Section 2, Volume 1, Annex V1-7, P5-4 Madrid Boston Project - Water and Load Balance	-		
		changes in flow (including seasonal rate of flow)	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume 5, Volume 1, Annex V1-7, Package 5	Volume 5, Section 1.5, 2.1.1.2, Volume 1, Annex V1-7, P5-4 Madrid Boston Project - Water and Load Balance	-		
		quantity	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume 5, Volume 1, Annex V1-7, Package 5	Volume 5, Section 1, 2 and Volume 1, Annex V1-7, P5-4 Madrid Boston Project - Water and Load Balance	-		
		quality	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume 5, Volume 1, Annex V1-7, Package 5	Volume 5, Section 4 and Volume 1, Annex V1-7, P5-4 Madrid Boston Project - Water and Load Balance	-		
	b	Land including:	Y	See below.	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	See below	See below	-		
		geologic structure change	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume 4	Volume 4, Section 4	-		
		soil contamination	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume 4	Volume 4, Section 7.4	-		

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		compaction, settling and erosion	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume 4	Volume 4, Section 7.4	-		
		alteration of the permafrost regime	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume 4	Volume 4, Section 6	-		
		riparian zone loss	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume 4	Volume 4 Section 8.5.2 and 8.5.3	-		
		c Vegetation including:	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume 4	Volume 4 Section 8	-		
		species composition and abundance	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume 4	Volume 4, Section 8.5	-		
		non-native species introduction	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume 4	Volume 4, Section 8.5	-		
		accumulation of toxins and heavy metals (in relation to remediation objectives for closure)	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume 4	Volume 4, Section 8.5	-		
		d Aquatic Ecosystems including:	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume 5	Volume 5	-		
		fish	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume 5	Volume 5 Sections 6.5	-		
		benthic invertebrates	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume 5	Volume 5 Sections 6.5, 6.6, 6.7 and 6.8	-		
		plankton	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume 5	Volume 5 Sections 6.5, 6.6, 6.7 and 6.8	-		
	27	Identify effects separately for each project phase.	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume 4, Volume 5,	Volume 4 Sections 1.6, 2.5, 7.4, 8.5, 9.5, Volume 5 Sections 1.5, 4.5, 5.5, 6.5	-		
	28	Provide a description of the methods used to predict effects.	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume 2, Volume 4, Volume 5	Volume 2 Section 4, Volume 4 Sections 1.6.1, 2.2.3, 3.2.2, 7.2.3, 8.2.3, 9.5, Volume 5 Section 1.2.3, 4.2.3, 5.2.3, 6.5.1	-		
	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	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume 5	Volume 5, Section 1.6 Section 4.6, Section 5.6, Section 6.6	-		

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	30	Identify effects arising from accidental events or malfunctions.	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume 1, Volume 7	Volume 1 Section 8 Volume 7 Section 1	-		
	31	Provide a description of all proposed mitigation, management and monitoring programs to mitigate adverse impacts.	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_4, P4	Volume_1, Annex V1-7, Package_4, P4 through P4-24	-		
	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	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume 6	Volume 6, Sections 2.5.4, 2.6.3	-		
	33	If applicable, provide a description of any potential transboundary effects.	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume 4, Volume 5	Volume 4, Section 1.8, 2.7, 3.7, 8.7, 9.9.6 Volume 5 Section 1.7, 4.7, 5.7, 6.7	-		
	34	See sections 5, 6, 7, and 8 of this SIG for additional information requirements								
Existing and Other User Water Rights	35	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 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 trap line holders, and holders of other rights of a similar nature.	N/A	There are none known to be affected.	-	-	-	-		
	36	Provide a description of any potential effects of the project on the persons or properties identified in item 35 of this section.	N/A	There are none known to be affected.	-	-	-	-		
	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.	N/A	There are none known to be affected.	-	-	-	-		

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	38	Indicate whether compensation has been paid and/or agreement(s) for compensation have been reached with any existing or other users.	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_3, P3-1	Volume_1, Annex V1-7, Package_3, P3-1 NWB Amendment No. 2 Type A Water Licence Application Form (Doris & Madrid)	TMAC has an existing Framework Agreement with the KIA. The Framework Agreement provides comprehensive land tenure governing the issuance of surface exploration licences, advanced exploration leases, commercial leases, and compensation associated with tenure. Framework Agreement includes a belt wide Land Use Licence, an Inuit Impact and Benefits Agreement (IIBA) and a Water and Wildlife Agreement. Framework Agreement was signed in March 2015 for belt wide land tenure.		
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	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume 5	Volume 5, Section 1, 2 and 4	-		
	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	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume 1, Annex V1-7, Package P5-19, P4-4, P4-5	Volume_1, Annex V1-7, Package_2, P2-2 Project Description Type A Water Licence Boston Section 5 Package_5, P5-19 Hope Bay Project: Madrid Water Management Design, Package_4, P4-4 Hope Bay Project Domestic Wastewater Treatment Management Plan, P4-5 Hope Bay Project: Boston Sewage Treatment Operations and Maintenance Management Plan	-		

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	41	Indicate whether 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 been unable to reach an agreement on compensation	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_3, P3-1	Volume_1, Annex V1-7, Package_3, P3-1 NWB Amendment No. 2 Type A Water Licence Application Form (Doris & Madrid)	TMAC have an existing Framework Agreement with the KIA. The Framework Agreement provides comprehensive land tenure governing the issuance of surface exploration licences, advanced exploration leases, commercial leases, and compensation associated with tenure. Framework Agreement includes a belt wide Land Use Licence, an Inuit Impact and Benefits Agreement (IIBA) and a Water and Wildlife Agreement. Framework Agreement was signed in March 2015 for belt wide land tenure.		
Consultation	42	Provide a summary of any consultation meetings including when the meetings were held, where and with whom.	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume 2	Volume 2 Section 3	-		
	43	Provide a summary of the results of consultation meetings including a list of concerns expressed and measures proposed to address concerns.	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume 2	Volume 2 Section 3	-		
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 Reclamation Policy for Nunavut</u> , Indian and Northern Affairs Canada, 2002. The financial security assessment must include:	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_4, P4-22	Volume_1, Annex V1-7, Package_4, P4-22 Hope Bay Project Doris-Madrid Closure and Reclamation Plan Detailed Cost Estimate	-		
	a	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;	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_4, P4-22	Volume_1, Annex V1-7, Package_4, P4-22 Hope Bay Project Doris-Madrid Closure and Reclamation Plan Detailed Cost Estimate	-		
	b	The cost of having the necessary reclamation work done by a third-party contractor if the operator defaults;	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_4, P4-22	Volume_1, Annex V1-7, Package_4, P4-22 Hope Bay Project Doris-Madrid Closure and Reclamation Plan Detailed Cost Estimate	-		
	c	Contingency factors appropriate to the particular work to be undertaken.	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_4, P4-21	Volume_1, Annex V1-7, Package_4, P4-21 Hope Bay Project Doris-Madrid Closure and Reclamation Plan	-		

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 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.
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.	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_4, P4-21	Volume_1, Annex V1-7, Package_4, P4-21 Hope Bay Project Doris-Madrid Closure and Reclamation 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	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_4, P4-21	Volume_1, Annex V1-7, Package_4, P4-21 Hope Bay Project Doris-Madrid Closure and Reclamation Plan	-		
	47	Provide a list and description of any existing abandoned or restored site facilities.	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_4, P4-21	Volume_1, Annex V1-7, Package_4, P4-21 Hope Bay Project Doris-Madrid Closure and Reclamation Plan	-		
	48	Provide details regarding the timing of the removal of any dewatering dikes (if applicable) and the implications of this action on water quality.	N/A	None onsite.	-	-	-	-		
	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.	N/A	None onsite.	-	-	-	-		
Financial Information	50	Provide a statement of financial responsibility.	N/A	TMAC does not produce Statements of Financial Responsibility	-	-	-	TMAC does not produce Statements of Financial Responsibility		
	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	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_6, P6-1	Volume_1, Annex V1-7, Package_6, P6-1 Financial Statements	-		
	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.	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_6, P6-3	Volume_1, Annex V1-7, Package_6, P6-3 Certificate of Incorporation	-		
Studies and Designs	53	Provide a list of studies, reports and plans relevant to the application that have been undertaken to date including:	Y	See below.	-	-	-	-		

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 <u>Title, Author and Date of Document</u> where information is provided	Insert <u>electronic file name of document</u> where information is provided	Insert <u>Section of 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.
	a	Design rational, design requirements, design criteria, design parameters, design standards/analysis/method;	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume 1, Annex V1-7 Package 5	Volume 1, Annex V1-7, Package 5, P5-3 Hope Bay Project: Contact Water Pond Berm Design P5-4 Madrid-Boston Project Water and Load Balance, Hope Bay Project P5-5 Geotechnical Design Parameters and Overburden Summary Report, Hope Bay Project P5-8 Hope Bay Project: Wind Energy Project Preliminary Design P5-12 Hope Bay Project: Crown Pillar Recovery Trench Preliminary Design P5-14 Hope Bay Project: Roberts Bay Cargo Dock Access Road Preliminary Design P5-15 Hope Bay Project: Roberts Bay 20 ML Fuel Storage Facility Preliminary Design P5-16 Doris Tailings Management System Phase 2 Design, Hope Bay Project P5-17 Hope Bay Project: Madrid North Surface Infrastructure Preliminary Design P5-18 Hope Bay Project: Madrid South Surface Infrastructure Preliminary Design P5-19 Hope Bay Project: Madrid Water Management Design P5-22 Hope Bay Project: Madrid North-Tailings Impoundment Area All-Weather Road Preliminary Design P5-23 Hope Bay Project: Windy Lake North Freshwater Intake Preliminary Design			
	b	Design assumptions and the limitations associated with such design assumptions;	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume 1, Annex V1-7 Package 5	Volume 1, Annex V1-7, Package 5, P5-3 Hope Bay Project: Contact Water Pond Berm Design P5-4 Madrid-Boston Project Water and Load Balance, Hope Bay Project P5-5 Geotechnical Design Parameters and Overburden Summary Report, Hope Bay Project P5-8 Hope Bay Project: Wind Energy Project Preliminary Design P5-12 Hope Bay Project: Crown Pillar Recovery Trench Preliminary Design P5-14 Hope Bay Project: Roberts Bay Cargo Dock Access Road Preliminary Design P5-15 Hope Bay Project: Roberts Bay 20 ML Fuel Storage Facility Preliminary Design P5-16 Doris Tailings Management System Phase 2 Design, Hope Bay Project P5-17 Hope Bay Project: Madrid North Surface Infrastructure Preliminary Design P5-18 Hope Bay Project: Madrid South Surface Infrastructure Preliminary Design P5-19 Hope Bay Project: Madrid Water Management Design P5-22 Hope Bay Project: Madrid North-Tailings Impoundment Area All-Weather Road Preliminary Design P5-23 Hope Bay Project: Windy Lake North Freshwater Intake Preliminary Design			

3.0 General Water Licence Application

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	c	The inclusion of clear, definable engineering qualifiers with all design drawings and reports;	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume 1, Annex V1-7 Package 5	Volume 1, Annex V1-7, Package 5, P5-3 Hope Bay Project: Contact Water Pond Berm Design P5-4 Madrid-Boston Project Water and Load Balance, Hope Bay Project P5-5 Geotechnical Design Parameters and Overburden Summary Report, Hope Bay Project P5-8 Hope Bay Project: Wind Energy Project Preliminary Design P5-12 Hope Bay Project: Crown Pillar Recovery Trench Preliminary Design P5-14 Hope Bay Project: Roberts Bay Cargo Dock Access Road Preliminary Design P5-15 Hope Bay Project: Roberts Bay 20 ML Fuel Storage Facility Preliminary Design P5-16 Doris Tailings Management System Phase 2 Design, Hope Bay Project P5-17 Hope Bay Project: Madrid North Surface Infrastructure Preliminary Design P5-18 Hope Bay Project: Madrid South Surface Infrastructure Preliminary Design P5-19 Hope Bay Project: Madrid Water Management Design P5-22 Hope Bay Project: Madrid North-Tailings Impoundment Area All-Weather Road Preliminary Design P5-23 Hope Bay Project: Windy Lake North Freshwater Intake Preliminary Design			
	d	Site specific data and analysis to support the design and management decisions made;	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume 1, Annex V1-7 Package 5	Volume 1, Annex V1-7 Package 5, P5-1 Climate Change Analysis Approach Report, Hope Bay Project P5-2 Climate and Hydrological Parameters Summary Report, Hope Bay Project P5-3 Hope Bay Project: Contact Water Pond Berm Design P5-4 Madrid-Boston Project Water and Load Balance, Hope Bay Project P5-5 Geotechnical Design Parameters and Overburden Summary Report, Hope Bay Project P5-8 Hope Bay Project: Wind Energy Project Preliminary Design P5-9 Source Term Predictions for the Proposed Madrid North, Madrid South and Boston Mines, Hope Bay Project P5-12 Hope Bay Project: Crown Pillar Recovery Trench Preliminary Design P5-13 Hydrogeological Characterization and Modeling of the Proposed Boston, Madrid South and Madrid North Mines, Hope Bay Project P5-14 Hope Bay Project: Roberts Bay Cargo Dock Access Road Preliminary Design P5-15 Hope Bay Project: Roberts Bay 20 ML Fuel Storage Facility Preliminary Design P5-16 Doris Tailings Management System Phase 2 Design, Hope Bay Project P5-17 Hope Bay Project: Madrid North Surface Infrastructure Preliminary Design P5-18 Hope Bay Project: Madrid South Surface Infrastructure Preliminary Design P5-19 Hope Bay Project: Madrid Water Management Design P5-20 Geochemical Characterization of Waste Rock and Ore from the Madrid North Deposit, Hope Bay Project P5-21 Geochemical Characterization of Waste Rock and Ore from the Madrid South Deposit, Hope Bay Project P5-22 Hope Bay Project: Madrid North-Tailings Impoundment Area All-Weather Road Preliminary Design P5-23 Hope Bay Project: Windy Lake North Freshwater Intake Preliminary Design			

3.0 General Water Licence Application

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	e	Materials that appropriately delineate the particulars of a design or plan.	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume 1, Annex V1-7 Package 5	Volume 1, Annex V1-7 Package 5, P5-1 Climate Change Analysis Approach Report, Hope Bay Project P5-2 Climate and Hydrological Parameters Summary Report, Hope Bay Project P5-3 Hope Bay Project: Contact Water Pond Berm Design P5-4 Madrid-Boston Project Water and Load Balance, Hope Bay Project P5-5 Geotechnical Design Parameters and Overburden Summary Report, Hope Bay Project P5-8 Hope Bay Project: Wind Energy Project Preliminary Design P5-9 Source Term Predictions for the Proposed Madrid North, Madrid South and Boston Mines, Hope Bay Project P5-12 Hope Bay Project: Crown Pillar Recovery Trench Preliminary Design P5-13 Hydrogeological Characterization and Modeling of the Proposed Boston, Madrid South and Madrid North Mines, Hope Bay Project P5-14 Hope Bay Project: Roberts Bay Cargo Dock Access Road Preliminary Design P5-15 Hope Bay Project: Roberts Bay 20 ML Fuel Storage Facility Preliminary Design P5-16 Doris Tailings Management System Phase 2 Design, Hope Bay Project P5-17 Hope Bay Project: Madrid North Surface Infrastructure Preliminary Design P5-18 Hope Bay Project: Madrid South Surface Infrastructure Preliminary Design P5-19 Hope Bay Project: Madrid Water Management Design P5-20 Geochemical Characterization of Waste Rock and Ore from the Madrid North Deposit, Hope Bay Project P5-21 Geochemical Characterization of Waste Rock and Ore from the Madrid South Deposit, Hope Bay Project P5-22 Hope Bay Project: Madrid North-Tailings Impoundment Area All-Weather Road Preliminary Design P5-23 Hope Bay Project: Windy Lake North Freshwater Intake Preliminary Design			
	54	Provide construction methods and procedures regarding how infrastructure will be put in place on-site.	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume 1, Annex V1-7 Package 5	Volume 1, Annex V1-7, Package 5, P5-3 Hope Bay Project: Contact Water Pond Berm Design Section 6 P5-8 Hope Bay Project: Wind Energy Project Preliminary Design Section 5 P5-14 Hope Bay Project: Roberts Bay Cargo Dock Access Road Preliminary Design P5-15 Hope Bay Project: Roberts Bay 20 ML Fuel Storage Facility Preliminary Design P5-16 Doris Tailings Management System Phase 2 Design, Hope Bay Project P5-17 Hope Bay Project: Madrid North Surface Infrastructure Preliminary Design P5-18 Hope Bay Project: Madrid South Surface Infrastructure Preliminary Design P5-19 Hope Bay Project: Madrid Water Management Design P5-20 Geochemical Characterization of Waste Rock and Ore from the Madrid North Deposit, Hope Bay Project P5-21 Geochemical Characterization of Waste Rock and Ore from the Madrid South Deposit, Hope Bay Project P5-22 Hope Bay Project: Madrid North-Tailings Impoundment Area All-Weather Road Preliminary Design P5-23 Hope Bay Project: Windy Lake North Freshwater Intake Preliminary Design			
	55	Provide a timetable for submission of preliminary and final-for-construction engineered designs (note: for construction designs are required for NWB approvals).	N/A	Preliminary and final for construction engineered designs to be provided 3 months prior to construction.	-	-	-	Preliminary and final for construction engineered designs to be provided 3 months prior to construction.		
	56	See sections 5, 6 and 7 of this SIG for additional information requirements								

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 <u>Title, Author and Date of Document</u> where information is provided	Insert <u>electronic file name of document</u> where information is provided	Insert <u>Section of 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.
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	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-2	Volume_1, Annex V1-7, Package_2, P2-2 Section 1.2	-		
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.	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_3, P3-1	Volume_1, Annex V1-7, Package_3, P3-1 NWB Amendment No. 2 Type A Water Licence Application Form (Doris & Madrid)	-		
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:	N/A	For items 59 a through e the following applies: Annual Reporting Requirements are to be determined during the Water Licencing Stage. Currently Annual reporting to the NWB, the NIRB and KIA for the existing and approved project Doris Project is up to date and ongoing, with annual reports summarizing studies undertaken over the preceding calendar year.	-	-	-	Annual Reporting Requirements are to be determined during the Water Licencing Stage. Currently Annual reporting to the NWB, the NIRB and KIA for the existing and approved Doris Project is up to date and ongoing, with annual reports summarizing studies undertaken over the preceding calendar year.		
	a	Water related monitoring results:	N/A	see above	-	-	-	-		
	b	Comparison of water quality and quantity monitoring data with the water quality and quantity predictions presented in the application;	N/A	see above	-	-	-	-		
	c	A description of how the conditions in the NIRB project certificate related to the NWB mandate have been implemented;	N/A	see above	-	-	-	-		
	d	Project changes under adaptive management;	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_4, P4	Volume_1, Annex V1-7, Package_4, P4 Environmental Management System	-		
	e	Any actions taken in response to direction provided by the Inspector.	N/A	see above	-	-	-	Annual Reporting Requirements are to be determined during the Water Licencing Stage. Currently Annual reporting to the NWB, the NIRB and KIA for the existing and approved Doris Project is up to date and ongoing, with annual reports summarizing studies undertaken over the preceding calendar year. All actions taken to direction provided by Inspectors is filled in these reports		

3.0 General Water Licence Application

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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	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017		Volume_1, Annex V1-7, Package_3, P3-1 NWB Amendment No. 2 Type A Water Licence Application Form (Doris & Madrid)	-		
	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 occurred including a description, location shown on a map, and the action taken to address the affected area.	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_3, P3-1	Volume_1, Annex V1-7, Package_3, P3-1 Appendix C	-		

4.0 Project Description

Section No. Modified	Information Requirement	Indicate whether Information Requirement is applicable by inserting ' Y ' or ' NA '	If 'NA' provide justification	Insert <u>Title, Author and Date of Document</u> where information is provided	Insert <u>electronic file name of document</u> where information is provided	Insert <u>Section of 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.
1	Provide a complete description of the undertaking with 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:	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid)	-		
a	Raw water intake;	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1 Package_5, P5-19, P5-23	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 5 Volume_1, Annex V1-7, Package_5, P5-19 Hope Bay Project: Madrid Water Management Design, P5-23 Hope Bay Project: Windy Lake North Freshwater Intake Preliminary Design. Doris will remain as per existing Type A Water Licence 2AM-DOH1323	-		
b	Water storage and treatment facilities including distribution systems;	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1 Package_5, P5-19	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 5 Volume_1, Annex V1-7, Package_5, P5-19 Hope Bay Project: Madrid Water Management Design	-		
c	Existing water bodies/courses and any changes to these water bodies/courses that may have or may occur as a result of water use or waste disposal facilities. Provide an outline of the drainage basin and drainage patterns within the RPA;	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume 1, Annex V1-7, Package 5 , P5-4	Volume 1, Annex V1-7, Package 5 , P5-4 Madrid Boston Project, Water and Load Balance Hope Bay Project	-		

4.0 Project Description

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d	Location of receiving water bodies and drainage pathways;	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1 Package_5, P5-4 Package_5, P5-19	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Volume_1, Annex V1-7, Package_5, P5-4 Madrid- Boston Project Water and Load Balance, Hope Bay Project Volume_1, Annex V1-7, Package_5, P5-19 Hope Bay Project: Madrid Water Management Design	-		
e	Transportation access routes and details of water course crossings;	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1 Package_5, P5-11 Package_5, P5-22 Package_5, P5-14 Package_5, P5-19	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Volume_1, Annex V1-7, Package_5, P5-11 Hope Bay Project: Madrid-Boston All-Weather Road Preliminary Design, P5-22 Hope Bay Project: Madrid North-Tailings Impoundment Area All- Weather Road Preliminary Design, P5-14 Hope Bay Project: Roberts Bay Cargo Dock Access Road Preliminary Design, P5-19 Hope Bay Project: Madrid Water Management Design	-		
f	Locations of environmental monitoring sites;	N/A	All locations of environmental monitoring sites related to Phase 2 Project are to be developed in consultation with the inspector during the Water Licencing Phase. Existing and approved environmental monitoring sites for the Doris Project are detailed in the Type A Water Licence 2AM- DOH1323.	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	-	-	-		
g	Traditional water use and land use areas that may be impacted by the project;	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume 6	Volume 6 Section 4.2, 4.3	-		
h	Sewage treatment facilities;	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1 Volume_1, Annex V1-7, Package_5, P5-19 Volume_1, Annex V1-7, Package_4, P4-4	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 5 Volume_1, Annex V1-7, Package_5, P5-19 Hope Bay Project: Madrid Water Management Design Volume_1, Annex V1-7, Package_4, P4-4 Hope Bay Project Domestic Wastewater Treatment Management Plan	-		

4.0 Project Description

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i	Wastewater treatment area and discharge outlet locations;	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1 , Package_5, P5-19 , Package_4, P4-4	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 5 Volume_1, Annex V1-7, Package_5, P5-19 Hope Bay Project: Madrid Water Management Design Volume_1, Annex V1-7, Package_4, P4-4 Hope Bay Project Domestic Wastewater Treatment Management Plan	-		
j	Solid waste disposal areas and drainage patterns;	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1 Package_5, P5-16 , P5-18 P4-16 P4-15 , P4-9 V P4- 11	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 4, 5 and 6 Volume_1, Annex V1-7, Package_5, P5-16 Doris Tailings Management System Phase 2 Design, Hope Bay Project Volume_1, Annex V1-7, Package_5, P5-17 Hope Bay Project: Madrid North Surface Infrastructure Preliminary Design Volume_1, Annex V1-7, Package_5, P5-18 Hope Bay Project: Madrid South Surface Infrastructure Preliminary Design Volume_1, Annex V1-7, Package_4, P4-16 Hope Bay Project Incinerator Management Plan Volume_1, Annex V1-7, Package_4, P4-15 Hope Bay Project Hazardous Waste Management Plan Volume_1, Annex V1-7, Package_4, P4-9 Hope Bay Project, Phase 2, Doris Tailings Impoundment Area - Operations, Maintenance, and Surveillance Manual Volume_1, Annex V1-7, Package_4, P4-11 Hope Bay Project Waste Rock, Ore and Mine Backfill Management Plan	-		
k	Incinerators	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1 Volume_1, Annex V1-7, Package_4, P4-16	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 6 Volume_1, Annex V1-7, Package_4, P4-16 Hope Bay Project Incinerator Management Plan	-		
l	Landfarm (see the NWB's SIG for Landfarm and on-site storage of hydrocarbon contaminated soil (13));	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1 Volume_1, Annex V1-7, Package_4, P4-14	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 6 Volume_1, Annex V1-7, Package_4, P4-14 Hope Bay Project Hydrocarbon Contaminated Material Management Plan	-		

4.0 Project Description

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m	Waste rock piles (PAG and non-PAG);	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1 Volume_1, Annex V1-7, Package_4, P4-11 Volume_1, Annex V1-7, Package_5, P5-17 Volume_1, Annex V1-7, Package_5, P5-18	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 4 Volume_1, Annex V1-7, Package_4, P4-11 Hope Bay Project Waste Rock, Ore and Mine Backfill Management Plan Volume_1, Annex V1-7, Package_5, P5-17 Hope Bay Project: Madrid North Surface Infrastructure Preliminary Design Volume_1, Annex V1-7, Package_5, P5-18 Hope Bay Project: Madrid South Surface Infrastructure Preliminary Design	-		
n	Stockpiles;	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1 Volume_1, Annex V1-7, Package_5, P5-17 Volume_1, Annex V1-7, Package_5, P5-18	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 4 Volume_1, Annex V1-7, Package_5, P5-17 Hope Bay Project: Madrid North Surface Infrastructure Preliminary Design Volume_1, Annex V1-7, Package_5, P5-18 Hope Bay Project: Madrid South Surface Infrastructure Preliminary Design	-		
o	Mill or processing plant;	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1 Volume_1, Annex V1-7, Package_5, P5-17	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Volume_1, Annex V1-7, Package_5, P5-17 Hope Bay Project: Madrid North Surface Infrastructure Preliminary Design	-		
p	Tailings containment areas;	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1 Volume_1, Annex V1-7, Package_5, P5-16 Volume_1, Annex V1-7, Package_4, P4-9	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 6 Volume_1, Annex V1-7, Package_5, P5-16 Doris Tailings Management System Phase 2 Design, Hope Bay Project Volume_1, Annex V1-7, Package_4, P4-9 Hope Bay Project, Phase 2, Doris Tailings Impoundment Area - Operations, Maintenance, and Surveillance Manual	-		

4.0 Project Description

Section No. Modified	Information Requirement	Indicate whether Information Requirement is applicable by inserting 'Y' or 'NA'	If 'NA' provide justification	Insert <u>Title, Author and Date of Document</u> where information is provided	Insert <u>electronic file name of document</u> where information is provided	Insert <u>Section of 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.
q	Laydown areas;	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1 Volume_1, Annex V1-7, Package_5, P5-17 Volume_1, Annex V1-7, Package_5, P5-18 Volume_1, Annex V1-7, Package_5, P5-14	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Volume_1, Annex V1-7, Package_5, P5-17 Hope Bay Project: Madrid North Surface Infrastructure Preliminary Design Volume_1, Annex V1-7, Package_5, P5-18 Hope Bay Project: Madrid South Surface Infrastructure Preliminary Design Volume_1, Annex V1-7, Package_5, P5-14 Hope Bay Project: Roberts Bay Cargo Dock Access Road Preliminary Design	-		
r	Quarries;	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1 Volume_1, Annex V1-7, Package_5, P5-6 Volume_1, Annex V1-7, Package_4, P4-17	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Volume_1, Annex V1-7, Package_5, P5-6 Geochemical Characterization of Madrid-Boston Project Quarries, Hope Bay Project Volume_1, Annex V1-7, Package_4, P4-17 Hope Bay Project Quarry Management and Monitoring Plan	-		
s	Hazardous waste disposal area;	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1 Volume_1, Annex V1-7, Package_4, P4-15	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 6 Volume_1, Annex V1-7, Package_4, P4-15 Hope Bay Project Hazardous Waste Management Plan	-		
t	Waste discharge distribution lines;	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1 Volume_1, Annex V1-7, Package_5, P5-22 Volume_1, Annex V1-7, Package_5, P5-19	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Volume_1, Annex V1-7, Package_5, P5-22 Hope Bay Project: Madrid North-Tailings Impoundment Area All-Weather Road Preliminary Design Volume_1, Annex V1-7, Package_5, P5-19 Hope Bay Project: Madrid Water Management Design	-		

4.0 Project Description

Section No. Modified	Information Requirement	Indicate whether Information Requirement is applicable by inserting 'Y' or 'NA'	If 'NA' provide justification	Insert <u>Title, Author and Date of Document</u> where information is provided	Insert <u>electronic file name of document</u> where information is provided	Insert <u>Section of 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.
u	Fuel and chemical storage;	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1 Volume_1, Annex V1-7, Package_5, P5-15 Volume_1, Annex V1-7, Package_5, P5-17 Volume_1, Annex V1-7, Package_5, P5-18	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Volume_1, Annex V1-7, Package_5, P5-15 Hope Bay Project: Roberts Bay 20 ML Fuel Storage Facility Preliminary Design Volume_1, Annex V1- 7, Package_5, P5-17 Hope Bay Project: Madrid North Surface Infrastructure Preliminary Design Volume_1, Annex V1-7, Package_5, P5-18 Hope Bay Project: Madrid South Surface Infrastructure Preliminary Design	-		
v	Explosives manufacturing and storage;	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1 , Pacakege_4, P4-23	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid), Package 4, P4-23 Hope Bay Project Explosives Management Plan	-		
w	Abandoned and/or restored facilities;	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, Volume_1, Annex V1-7, Package_4, P4-21	Volume_1, Annex V1-7, Package_2, Volume_1, Annex V1-7, Package_4, P4-21 Hope Bay Project Doris-Madrid Interim Closure and Reclamation Plan	-		
x	Existing on site infrastructure;	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid)	-		
y	Others:	N/A	-	-	-	-	-		
2	Provide a Mine Plan Overview including:			Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 2	-		
a	Description of the location, physical nature, geology and mineralogy of the ore deposit and host rock. (See section 5 Items 19-23)	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume 4	Volume 4 Section 4.2	-		
b	Mine development plan and methods	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1 Volume 3, Section 4	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 4 Volume 3, Section 4	-		
c	Exploration operations	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1 Volume_3,	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Volume_3, Section 4	-		

4.0 Project Description

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d	Description of earthworks for mine development	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume 1, Annex V1-7, Volume_3	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 4 Volume_3, Section 4	-		
e	Milling or processing plant operations including:	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 3 and 4	-		
e	A copy of the mill or processing plant flow sheet. Indicate the points of addition of the various reagents (chemicals) that will be used.	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Figure 4.4-1	-		
e	The capacity of the mill	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 2, 3 and 4	-		
e	If applicable, indicate whether the (proposed) milling circuit is in whole or in part based on autogenous grinding.	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 2, 3 and 4	-		
e	Predicted rate of production.	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 2, 3 and 4	-		
f	Expected life of the mine.	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 2	-		
g	Camp and mine site population projections for each phase of the project.	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume 1, Annex V1-7 Package 2, P2-1	Volume 1, Annex V1-7 Package 2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 1.2	-		

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 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.
Environmental Setting	1	Provide a description of the regional and local setting using maps and/or aerial photos with scales that allow the determination of distances between the objects depicted.	Y	-	Madrid-Boston Final Environmental Impact Statement, TMAC Resources Inc., December 2017	Volume 1, Volume 2, Project Description P2-1	Volume 1 Section 1.2, Volume 2 Section 1.4, Project Description P2-1 (Figure 3.1-1, Figure 3.2-1, Figure 3.3-1, and Figure 3.4-1); Volume 4 Sections 1.2, 1.4, 2.2, 2.4, 3.2, 3.4, 4.2, 6.2, 6.3, 7.2, 8.2, 8.4, 9.2, 9.4.; Volume 5 Sections 1.2, 1.4, 2.1, 3.2, 4.2, 4.4, 5.2, 5.4, 6.2, 6.4 Volume 6 Sections 2.2, 2.4			
	2	Provide a brief history of the property development which 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.	Y	-	Madrid-Boston Final Environmental Impact Statement, TMAC Resources Inc., December 2017	Volume 2	Volume 2 Section 1.2			
	3	Provide a description of the site conditions, including:								
	a	location	Y	-	Madrid-Boston Final Environmental Impact Statement, TMAC Resources Inc., December 2017	Volume 1	Volume 1, Section 1, Volume 2 Section 1			
	b	topography	Y	-	Madrid-Boston Final Environmental Impact Statement, TMAC Resources Inc., December 2017	Volume 5	Volume 5, Section 7.2			
	c	geologic conditions	Y	-	Madrid-Boston Final Environmental Impact Statement, TMAC Resources Inc., December 2017	Volume 4	Volume 4, Section 4.2			
	d	hydrologic characteristics	Y	-	Madrid-Boston Final Environmental Impact Statement, TMAC Resources Inc., December 2017	Volume 5	Volume 5, Section 1.2			
	e	climate conditions and predicted future climate	Y	-	Madrid-Boston Final Environmental Impact Statement, TMAC Resources Inc., December 2017	Volume 4	Volume 4, Section 1.2			
	f	seismicity	N/A	The Hope Bay Project is in area which is not subject to seismic activity.	-	-	-			
	g	permafrost conditions	Y	-	Madrid-Boston Final Environmental Impact Statement, TMAC Resources Inc., December 2017	Volume 4,	Volume 4 Section 6.3			
	4	Provide a description of the regional and local surface water regime and drainage area and outline the drainage basin on an attached map.	Y	-	Madrid-Boston Final Environmental Impact Statement, TMAC Resources Inc., December 2017	Volume 5, List of Appendices and Volume 1, Annex V1-7, Package 5	Volume 1, Annex V1-7, Package 5, P5-4 Madrid-Boston Project - Water and Load Balance Volume 5 Section 1.2.			
	5	Provide a description of the groundwater regime.	Y	-	Madrid-Boston Final Environmental Impact Statement, TMAC Resources Inc., December 2017	Volume 5	Volume 5 Section 2.1			

5.0 Baseline Information

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	6	Provide baseline data and an evaluation of baseline data describing surface and groundwater quality in the project area (physical, chemical, and biological characteristics).	Y	-	Madrid-Boston Final Environmental Impact Statement, TMAC Resources Inc., December 2017	Volume 5, List of Appendices	Volume 5 Section 1.2 and 2.1 Appendices V5-3J 2009 Freshwater Baseline Report, Hope Bay Belt Project V5-3K Hope Bay Belt Project: 2010 Freshwater Baseline Report	-		
	7	Provide a description of the usual break-up and freeze-up periods.	Y	-	Madrid-Boston Final Environmental Impact Statement, TMAC Resources Inc., December 2017	Volume 5	Volume 5 Sections 1.2.4 and 2.1.1.2	-		
	8	Provide a description of streambed material, streambank material, and streambank vegetation,	Y	-	Madrid-Boston Final Environmental Impact Statement, TMAC Resources Inc., December 2017	Volume 5	Volume 5, Sections 5.2 and 6.2	-		
	9	Indicate the slope of the banks of any water course affected by the application	N/A	No anticipated impacts as a result of the Project	-	-	-	-		
	10	Provide a description of the meander pattern for any channel affected by the application	N/A	No anticipated effects on meander channels - details on Baseline Conditions are provided in the following appendices.	Madrid-Boston Final Environmental Impact Statement, TMAC Resources Inc., December 2017	List of Appendices	Appendices V5-3B Boston Property N.W.T.: Environmental Data Report V5-3CBoston Property N.W.T.: Environmental Data Report V5-3E Boston Property N.W.T.: Environmental Data Report 1995 V5-3F Hope Bay Belt Project: Environmental Baseline Studies Report 1996 V5-3G Hope Bay Belt Project: 1997 Environmental Data Report V5-3H Hope Bay Belt Project: 1998 Environmental Data Report V5-3I 2000 Supplemental Environmental Baseline Data Report, Hope Bay Belt Project V5-3K Doris North Project: Aquatic Studies 2003 V5-3P Boston and Madrid Project Areas: 2006-2007 Aquatic Studies, V5-3R Hope Bay Project: Aquatic Studies 2008, V5-3D Doris Lake Project, Northwest Territories 1995 Environmental Study, V5-5A Doris North Project Aquatic Studies 2002, V5-3L Doris North Project Aquatic Studies 2004, V5-3M Doris North Project Aquatic Studies 2005, V5-3O Doris North Project Aquatic Studies 2006, V5-3Q Doris North Project Aquatic Studies 2007, V5-6D 2009 Freshwater Fish and Fish Habitat Baseline Report, Hope Bay Belt Project, V5-6E Hope Bay Belt Project: 2010 Freshwater Fish and Fish Habitat Baseline Report, V5-6P Imniagut Lake Fisheries Assessment, Doris North Project, 2014 , V5-6Q Proposed Access Road Fisheries Assessments, Doris North Project 2015, V5-6R Doris Lake, Doris Creek, and Little Roberts Outflow Fisheries Assessment	-		
	11	Provide the following streamflow data in cubic metres per second for each watercourse included in the application:	Y	-	Madrid-Boston Final Environmental Impact Statement, TMAC Resources Inc., December 2017	Volume 5	Volume 5, Section 1	-		
	a	mean annual flow;	Y	-	Madrid-Boston Final Environmental Impact Statement, TMAC Resources Inc., December 2017	Volume 5	Volume 5, Section 1.2	-		

5.0 Baseline Information

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	b	mean summer flow;	Y	-	Madrid-Boston Final Environmental Impact Statement, TMAC Resources Inc., December 2017	Volume 5, List of Appendices	Monthly flows are provided in Volume 5, Section 1.2 (and in baseline appendices detailed in Section 1.2.2). These monthly flows could be averaged over summer (if summer was clearly defined). Appendices V5-1A Hope Bay Belt Project: 1993-2002 Data Compilation Report for Meteorology and Hydrology; V5-1B Meteorology and Hydrology Baseline Report Doris North Project; V5-1C Doris Project Area 2008 Hydrology Baseline Update V5-1D Hope Bay Belt Project: 2009 Hydrology Baseline Report; V5-1E Hope Bay Project: 2010 Hydrology Baseline Report V5-1F Doris North Gold Mine Project: Hydrology Compliance Report, 2010 V5-1G Hope Bay Belt Project: 2011 Hydrology Baseline Report V5-1H Doris North Gold Mine Project: Hydrology Compliance Report 2011 V5-1I Doris North Gold Mine Project: Hydrology Compliance Report 2012 V5-1J Doris North Project: 2013 Hydrology Compliance Monitoring Report V5-1K Doris North Project: 2014 Hydrology Compliance Monitoring Program V5-1L Doris North Project: 2015 Hydrology Compliance Monitoring Program	-		
	c	minimum summer flow;	Y	-	Madrid-Boston Final Environmental Impact Statement, TMAC Resources Inc., December 2017	Volume 5, List of Appendices	Volume 5, Section 1.2 Appendices V5-1A Hope Bay Belt Project: 1993-2002 Data Compilation Report for Meteorology and Hydrology; V5-1B Meteorology and Hydrology Baseline Report Doris North Project; V5-1C Doris Project Area 2008 Hydrology Baseline Update V5-1D Hope Bay Belt Project: 2009 Hydrology Baseline Report; V5-1E Hope Bay Project: 2010 Hydrology Baseline Report V5-1F Doris North Gold Mine Project: Hydrology Compliance Report, 2010; V5-1G Hope Bay Belt Project: 2011 Hydrology Baseline Report; V5-1H Doris North Gold Mine Project: Hydrology Compliance Report 2011; V5-1I Doris North Gold Mine Project: Hydrology Compliance Report 2012; V5-1J Doris North Project: 2013 Hydrology Compliance Monitoring Report; V5-1K Doris North Project: 2014 Hydrology Compliance Monitoring Program; V5-1L Doris North Project: 2015 Hydrology Compliance Monitoring Program	-		
	d	minimum annual flow;	Y	-	Madrid-Boston Final Environmental Impact Statement, TMAC Resources Inc., December 2017	Volume 5	Volume 5, Section 1.2	-		
	e	mean annual flood;	Y	-	Madrid-Boston Final Environmental Impact Statement, TMAC Resources Inc., December 2017	List of Appendices	Appendices V5-1D Hope Bay Belt Project: 2009 Hydrology Baseline Report; V5-1E Hope Bay Project: 2010 Hydrology Baseline Report; V5-1F Doris North Gold Mine Project: Hydrology Compliance Report, 2010; V5-1G Hope Bay Belt Project: 2011 Hydrology Baseline Report; V5-1H Doris North Gold Mine Project: Hydrology Compliance Report 2011; V5-1I Doris North Gold Mine Project: Hydrology Compliance Report 2012	-		
	f	maximum summer flood;	Y	-	Madrid-Boston Final Environmental Impact Statement, TMAC Resources Inc., December 2017	List of Appendices	Appendices V5-1D Hope Bay Belt Project: 2009 Hydrology Baseline Report; V5-1E Hope Bay Project: 2010 Hydrology Baseline Report; V5-1F Doris North Gold Mine Project: Hydrology Compliance Report, 2010; V5-1G Hope Bay Belt Project: 2011 Hydrology Baseline Report; V5-1H Doris North Gold Mine Project: Hydrology Compliance Report 2011; V5-1I Doris North Gold Mine Project: Hydrology Compliance Report 2012	-		

5.0 Baseline Information

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		g mean summer flood;	Y	-	Madrid-Boston Final Environmental Impact Statement, TMAC Resources Inc., December 2017	List of Appendices	Appendices V5-1D Hope Bay Belt Project: 2009 Hydrology Baseline Report; V5-1E Hope Bay Project: 2010 Hydrology Baseline Report; V5-1F Doris North Gold Mine Project: Hydrology Compliance Report, 2010; V5-1G Hope Bay Belt Project: 2011 Hydrology Baseline Report; V5-1H Doris North Gold Mine Project: Hydrology Compliance Report 2011; V5-1I Doris North Gold Mine Project: Hydrology Compliance Report 2012	-		
	12	Provide bathymetric information for water bodies affected by the application.	Y	-	Madrid-Boston Final Environmental Impact Statement, TMAC Resources Inc., December 2017	Volume 5	Volume 5 Section 3.2	-		
	13	Provide a description of the ground condition for design and engineering of earthwork infrastructure, including (if applicable, provide test pit/ drill hole logs and laboratory test results):	Y	See below	Madrid-Boston Final Environmental Impact Statement, TMAC Resources Inc., December 2017	See below	See below	-		
	a	Interim and permanent waste rock facilities	Y	-	Madrid-Boston Final Environmental Impact Statement, TMAC Resources Inc., December 2017	Volume 1, Annex V1-7 Package P2-1, P5-5, P5-17, P5-18, Volume 4,	Volume 1 Annex V1-7, Package P2-1, Sections 1.2, 4, Packages P5-5 Geotechnical Design Parameters and Overburden Summary Report; P5-17 Hope Bay Project: Madrid North Surface Infrastructure Preliminary Design Section 2.4; P5-18 Hope Bay Project: Madrid South Surface Preliminary Infrastructure Design Section 2.4; Volume 4, Section 4.2, Section 7.2	-		
	b	Tailings containment area	Y	-	Madrid-Boston Final Environmental Impact Statement, TMAC Resources Inc., December 2017	Volume 1, Annex V1-7 Package P2-1, P5-5, P5-16, Volume 4,	Volume 1, Annex V1-7 Package P2-1 Sections 1.2, 4.3.5 Packages P5-5 Geotechnical Design Parameters and Overburden Summary Report; P5-16 Doris Tailings Management system Phase 2 Design, Hope Bay Project Volume 4, Section 4.2, Section 7.2	-		
	c	Landfills	Y	-	-	N/A	Location of the permitted Landfill at Doris is on the east side of the TIA in bedrock. This is permitted under the existing Type A Water Licence 2AM-DOH1323	-		
	d	Landfarms	Y	-	Madrid-Boston Final Environmental Impact Statement, TMAC Resources Inc., December 2019	Volume 1, Annex V1-7, Package P2-1, Volume 4	Volume 1, Annex V1-7,, P2-1 Section 1.2, 6.3 Volume 4, Section 4.2, Section 7.2	-		
	e	Fuel and chemical storage facilities	Y	-	Madrid-Boston Final Environmental Impact Statement, TMAC Resources Inc., December 2020	Volume 1, Annex V1-7 Package P2-1, , Volume 4, List of Packages	Volume 1, Annex V1-7 Package P2-1 Sections 1.2, 7 Volume 4, Section 4.2, Section 7.2, Volume 9 Packages P5-5 Geotechnical Design Parameters and Overburden Summary Report; P5-15 Hope Bay Project: Roberts Bay 10 ML Fuel Storage Facility Preliminary Design; P5-17 Hope Bay Project: Madrid North Surface Infrastructure Preliminary Design Section 2.4 and 4.5 P5-18 Hope Bay Project: Madrid South Surface Preliminary Infrastructure Design Section 2.4 and 4.5	-		
	f	Explosives management areas and facilities	Y	-	Madrid-Boston Final Environmental Impact Statement, TMAC Resources Inc., December 2017	Volume 1, Annex V1-7 Package P2-1, P5-5, Volume 4,	Volume 1, Annex V1-7 Package P2-1 Sections 1.2 Volume 4, Section 4.2, Section 7.2 Volume 1, Annex V1-7 Packages: P5-5 Geotechnical Design Parameters and Overburden Summary Report; An Explosives Manufacturing Facility already permitted under the existing Type A Water Licence	-		

5.0 Baseline Information

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	g	Roads	Y	-	Madrid-Boston Final Environmental Impact Statement, TMAC Resources Inc., December 2017	Volume 1, Annex V1-7 Package P2-1, P5-5, P5-11, P5-14 Volume 4	Volume 1, Annex V1-7 Package P2-1 Sections 1.2 Volume 1, Annex V1-7 Packages: P5-5 Geotechnical Design Parameters and Overburden Summary Report; P5-11 Hope Bay Project: Madrid-Boston All-Weather Road Preliminary Design; P5-14 Hope Bay Project: Roberts Bay Cargo Dock Access Road Preliminary Design Volume 4, Section 4.2, Section 7.2	-		
	h	Quarries or borrow pits	Y	-	Madrid-Boston Final Environmental Impact Statement, TMAC Resources Inc., December 2017	Volume 1, Annex V1-7 Package P2-1, P5-5, P5-6 Volume 4	Volume 1, Annex V1-7 Package P2-1 Section 1.2 Volume 4 Section 4.2, Section 7.2 Volume 1, Annex V1-7, Packages: P5-5 Geotechnical Design Parameters and Overburden Summary Report; P5-6 Geochemical Characterization of Madrid-Boston Project Quarries, Hope Bay Project	-		
	i	Hazardous waste facilities	Y	-	Madrid-Boston Final Environmental Impact Statement, TMAC Resources Inc., December 2017	Volume 1, Annex V1-7, P2-1, P5-5, P5-17, P5-18, Volume 4	Volume 1, Annex V1-7, P2-1 Sections 1.2, 6, P5-5 Geotechnical Design Parameters and Overburden Summary Report; P5-17 Hope Bay Project: Madrid North Surface Infrastructure Preliminary Design Section 2.4; P5-18 Hope Bay Project: Madrid South Surface Preliminary Infrastructure Design Section 2.4, Volume 4, Section 4.2, Section 7.2	-		
	j	Wastewater treatment facilities	Y	-	Madrid-Boston Final Environmental Impact Statement, TMAC Resources Inc., December 2017	Volume 1, Annex V1-7, P2-1, P5-5, P5-17, P5-18, Volume 4	Volume 1, Annex V1-7, P2-1 Section 1.2, P5-5 Geotechnical Design Parameters and Overburden Summary Report; P5-17 Hope Bay Project: Madrid North Surface Infrastructure Preliminary Design Section 2.4; P5-18 Hope Bay Project: Madrid South Surface Preliminary Infrastructure Design Section 2.4, Volume 4, Section 4.2, Section 7.2	-		
	k	Ore stockpiles	Y	-	Madrid-Boston Final Environmental Impact Statement, TMAC Resources Inc., December 2017	Volume 1, Annex V1-7, P2-1, P5-5, P5-17, P5-18, Volume 4	Volume 1, Annex V1-7, P2-1 Section 1.2, 4.2 P5-5 Geotechnical Design Parameters and Overburden Summary Report; P5-17 Hope Bay Project: Madrid North Surface Infrastructure Preliminary Design Section 2.4; P5-18 Hope Bay Project: Madrid South Surface Preliminary Infrastructure Design Section 2.4, Volume 4, Section 4.2, Section 7.2	-		
	l	Overburden piles	Y	-	Madrid-Boston Final Environmental Impact Statement, TMAC Resources Inc., December 2017	Volume 1, Annex V1-7, P2-1, P5-5, P5-17, P5-18, Volume 4	Volume 1, Annex V1-7, P2-1, Section 1.2 P5-5 Geotechnical Design Parameters and Overburden Summary Report; P5-17 Hope Bay Project: Madrid North Surface Infrastructure Preliminary Design Section 2.4; P5-18 Hope Bay Project: Madrid South Surface Preliminary Infrastructure Design Section 2.4, P5-28 Hope Bay Project: Boston Surface Infrastructure Preliminary Design Section 2.4 Volume 4, Section 4.2, Section 7.	-		
	m	Dewatering dikes	N/A	none onsite	-	-	-	-		
	14	Provide results of any assessment of the permeability of any faults and taliks beneath water bodies.	Y	-	Madrid-Boston Final Environmental Impact Statement, TMAC Resources Inc., December 2017	Volume 1, Annex V1-7, P5-4, P5-13, Volume 4	Volume 4 Section 6 Volume 1, Annex V1-7, P5-4 Madrid-Boston Project Water and Load Balance, Hope Bay Project; P5-13 Hydrogeological Characterization and Modeling of the Proposed Boston, Madrid South and Madrid North Mines, Hope Bay Project	-		
	15	Provide a description of the historical uses of the waters affected by the project.	N/A	-	Madrid-Boston Final Environmental Impact Statement, TMAC Resources Inc., December 2017	Volume 6	Volume 6 Section 2.2	-		

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	16	Provide a description of any traditional uses of water in the project area.	N/A	-	Madrid-Boston Final Environmental Impact Statement, TMAC Resources Inc., December 2017	Volume 2, Volume 6	Volume 2, Section 2.5, Table 2-5.1 Volume 6, Section 4.2	-		
	17	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	-	Madrid-Boston Final Environmental Impact Statement, TMAC Resources Inc., December 2017	Volume 5, List of Appendices	Volume 5 Chapter 6.1 Appendix V6-3A	-		
	18	Provide a description of the results of any consultation with Elders regarding the collection of baseline data.	Y	-	Madrid-Boston Final Environmental Impact Statement, TMAC Resources Inc., December 2017	Volume 2	Volume 2 Section 2.5, Table 2-5.1, Section 3	-		
Geology and Mineralogy	19	Provide a description of the physical nature of the mineralization, including known dimensions and approximate shape	Y	-	Madrid-Boston Final Environmental Impact Statement, TMAC Resources Inc., December 2017	Volume 4	Volume 4, Section 4.2	-		
	20	Provide a description of the host rock in the general vicinity of the mineralization (from the surface to the mineralized zone)	Y	-	Madrid-Boston Final Environmental Impact Statement, TMAC Resources Inc., December 2017	Volume 4	Volume 4, Section 4.2	-		
	21	Provide a geological description of the mineralized zone. (If possible, include the percentage of metals)	Y	-	Madrid-Boston Final Environmental Impact Statement, TMAC Resources Inc., December 2017	Volume 4	Volume 4, Section 4.2	-		
	22	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 (i.e. static test, kinetic tests).	Y	-	Madrid-Boston Final Environmental Impact Statement, TMAC Resources Inc., December 2017	Volume 1, Annex V1-7, P5-6, P5-7, P5-20, P4-21, P5-25	Volume 1, Annex V1-7, P5-6 Geochemical Characterization of Madrid-Boston Project Quarries, Hope Bay Project; P5-7 Geochemical Characterization of Tailings from the Madrid North, Madrid South and Boston Deposits, Hope Bay Project; P5-20 Geochemical Characterization of Waste Rock and Ore, Madrid North Deposit, Hope Bay Project; P5-21 Geochemical Characterization of Waste Rock and Ore from the Madrid South Deposit, Hope Bay Project; P5-25 Geochemical Characterization of Waste Rock and Ore from the Boston Deposit, Hope Bay Project	-		
	23	Provide an estimate of the percentage of sulphide in the mineralization including:	Y	-	Madrid-Boston Final Environmental Impact Statement, TMAC Resources Inc., December 2017	Volume 1, Annex V1-7, Package P5-7, P5-20, P5-21	Volume 1, Annex V1-7, Package: P5-7 Geochemical Characterization of Tailings from the Madrid North, Madrid South and Boston Deposits, Hope Bay Project P5-20 Geochemical Characterization of Waste Rock and Ore from the Madrid North, Hope Bay Project, P5-21 Geochemical Characterization of Waste Rock and Ore from the Madrid South Hope Bay Project	-		
	a Pyrite		Y	-	Madrid-Boston Final Environmental Impact Statement, TMAC Resources Inc., December 2017	Volume 1, Annex V1-7, Package P5-7, P5-20, P5-21	Volume 1, Annex V1-7, Package: P5-7 Geochemical Characterization of Tailings from the Madrid North, Madrid South and Boston Deposits, Hope Bay Project P5-20 Geochemical Characterization of Waste Rock and Ore from the Madrid North, Hope Bay Project, P5-21 Geochemical Characterization of Waste Rock and Ore from the Madrid South Hope Bay Project	-		
	b Pyrrhotite		Y	-	Madrid-Boston Final Environmental Impact Statement, TMAC Resources Inc., December 2017	Volume 1, Annex V1-7, Package P5-7, P5-20, P5-21	Volume 1, Annex V1-7, Package: P5-7 Geochemical Characterization of Tailings from the Madrid North, Madrid South and Boston Deposits, Hope Bay Project P5-20 Geochemical Characterization of Waste Rock and Ore from the Madrid North, Hope Bay Project, P5-21 Geochemical Characterization of Waste Rock and Ore from the Madrid South Hope Bay Project	-		

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	c	Pyrite / Pyrrhotite mixture	Y	-	Madrid-Boston Final Environmental Impact Statement, TMAC Resources Inc., December 2017	Volume 1, Annex V1-7, Package P5-7, P5-20, P5-21	Volume 1, Annex V1-7, Package: P5-7 Geochemical Characterization of Tailings from the Madrid North, Madrid South and Boston Deposits, Hope Bay Project P5-20 Geochemical Characterization of Waste Rock and Ore from the Madrid North, Hope Bay Project, P5-21 Geochemical Characterization of Waste Rock and Ore from the Madrid South Hope Bay Project	-		
	d	Arsenopyrite	Y	-	Madrid-Boston Final Environmental Impact Statement, TMAC Resources Inc., December 2017	Volume 1, Annex V1-7, Package P5-7, P5-20, P5-21	Volume 1, Annex V1-7, Package: P5-7 Geochemical Characterization of Tailings from the Madrid North, Madrid South and Boston Deposits, Hope Bay Project P5-20 Geochemical Characterization of Waste Rock and Ore from the Madrid North, Hope Bay Project, P5-21 Geochemical Characterization of Waste Rock and Ore from the Madrid South Hope Bay Project	-		
	24	Provide a description of the geochemical tests which have been (or will be) performed on quarry 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 (i.e., static test, kinetic tests).	Y	-	Madrid-Boston Final Environmental Impact Statement, TMAC Resources Inc., December 2017	Volume 1, Annex V1-7, P5-6	Volume 1, Annex V1-7, P5-6 Geochemical Characterization of Madrid-Boston Project Quarries, Hope Bay Project	-		
Fisheries	25	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.	Y	TMAC has committed to consulting with DFO in future for designing water crossings and offsetting.	Madrid-Boston Final Environmental Impact Statement, TMAC Resources Inc., December 2017	Volume 5	Volume 5, Section 6.5.3	-		

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	26	If applicable, provide baseline data and an evaluation of baseline data describing fish and fish habitat in the project area.	Y	-	Madrid-Boston Final Environmental Impact Statement, TMAC Resources Inc., December 2017	Volume 5, List of Appendices	Volume 5, Section 3, 4 and 6.2.4 Appendices V5-6A Hope Bay Belt Project, Metal Concentrations in Fish Tissues from Five Lakes in the Hope Bay Belt, Nunavut; V5-6B Doris North Project "No Net Loss" Plan; V5-6C Aquatic Baseline Studies Boston Project Data Compilation Report 1992-2000; V5-6D 2009 Freshwater Fish and Fish Habitat Baseline Report, Hope Bay Belt Project; V5-6E Hope Bay Belt Project: 2010 Freshwater Fish and Fish Habitat Baseline Report; V5-6F Doris North Gold Mine Project: Doris Mine Site Fisheries Authorization Monitoring Report 2010; V5-6G Doris North Gold Mine Project: Doris Mine Site Fisheries Authorization Monitoring Report 2011; V5-6H Doris North Gold Mine Project: 2011 Tail Lake Fish-out Report; V5-6I Doris North Gold Mine Project: Windy Lake Shoal Monitoring, 2012; V5-6J Doris North Gold Mine Project: Roberts Outflow and E09 Fish Habitat Enhancement Report; V5-6K Doris North Gold Mine: 2012 Roberts Lake and Outflow Fish Monitoring Report; V5-6L Doris North Project: 2013 Windy Lake Shoal Compliance Monitoring Report; V5-6M Doris North Project: 2013 Roberts Lake and Outflow Fish Compliance Monitoring Program Report; V5-6N Doris North Project: 2014 Windy Lake Shoal Compliance Monitoring Report; V5-6O Doris North Project: 2014 Roberts Lake and Outflow Fish Compliance Monitoring Program Report; V5-6P Imniagut Lake Fisheries Assessment, Doris North Project, 2014; V5-6Q Proposed Access Road Fisheries Assessments, Doris North Project 2015; V5-6R Doris Lake, Doris Creek, and Little Roberts Outflow Fisheries Assessment - Hydraulic Modelling Results; V5-10D 2009 Marine Fish and Fish Habitat Baseline Report, Hope Bay Belt	-		
	27	If applicable, provide a fisheries assessment including:	Y	-	-	-	-	-		

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	a	Detailed area description (including photographic record);	Y	-	Madrid-Boston Final Environmental Impact Statement, TMAC Resources Inc., December 2017	Volume 5, List of Appendices	Volume 5 Sections 6.2, 10.2 Photos included in appended baseline reports found in Appendices V5-6A Hope Bay Belt Project, Metal Concentrations in Fish Tissues from Five Lakes in the Hope Bay Belt, Nunavut V5-6B Doris North Project "No Net Loss" Plan V5-6C Aquatic Baseline Studies Boston Project Data Compilation Report 1992-2000, V5-6D 2009 Freshwater Fish and Fish Habitat Baseline Report, Hope Bay Belt Project, V5-6E Hope Bay Belt Project: 2010 Freshwater Fish and Fish Habitat Baseline Report V5-6F Doris North Gold Mine Project: Doris Mine Site Fisheries Authorization Monitoring Report 2010, V5-6G Doris North Gold Mine Project: Doris Mine Site Fisheries Authorization Monitoring Report 2011, V5-6H Doris North Gold Mine Project: 2011 Tail Lake Fish-out Report, V5-6I Doris North Gold Mine Project: Windy Lake Shoal Monitoring, 2012, V5-6J Doris North Gold Mine Project: Roberts Outflow and E09 Fish Habitat Enhancement Report, V5-6K Doris North Gold Mine: 2012 Roberts Lake and Outflow Fish Monitoring Report V5-6L Doris North Project: 2013 Windy Lake Shoal Compliance Monitoring Report, V5-6M Doris North Project: 2013 Roberts Lake and Outflow Fish Compliance Monitoring Program Report, V5-6N Doris North Project: 2014 Windy Lake Shoal Compliance Monitoring Report, V5-6O Doris North Project: 2014 Roberts Lake and Outflow Fish Compliance Monitoring Program Report, V5-6P Imniagut Lake Fisheries Assessment, Doris North Project, 2014 V5-6Q Proposed Access Road Fisheries Assessments, Doris North Project 2015, V5-6R Doris Lake, Doris Creek, and Little Roberts Outflow Fisheries Assessment, V5-10D 2009 Marine Fish and Fish Habitat Baseline Report, Hope Bay Belt Project V5-10E Hope Bay Belt Project: 2010 Marine Fish and Fish Habitat Baseline	-		
	b	Description of fish habitat (including river or lake bottom substrates such as silt, sand, or cobble);	Y	-	Madrid-Boston Final Environmental Impact Statement, TMAC Resources Inc., December 2017	Volume 5, List of Appendices	Volume 5 Section 6.2.5.2, 6.2.6.2 Detailed description in appended baseline reports Appendices V5-3B Boston Property N.W.T.: Environmental Data Report V5-3CBoston Property N.W.T.: Environmental Data Report V5-4B Boston Property N.W.T.: Environmental Data Report 1995 V5-4C Hope Bay Belt Project: Environmental Baseline Studies Report 1996 V5-4D Hope Bay Belt Project: 1997 Environmental Data Report V5-4E Hope Bay Belt Project: 1998 Environmental Data Report V5-3D 2000 Supplemental Environmental Baseline Data Report, Hope Bay Belt Project , V5-3F Doris North Project: Aquatic Studies 2003 Appendices V5-3H Boston and Madrid Project Areas: 2006-2007 Aquatic Studies V5-3I Hope Bay Project: Aquatic Studies 2008 V5-4A Doris Lake Project, Northwest Territories 1995 Environmental Study V5-5A Doris North Project Aquatic Studies 2002, V5-4G Doris North Project Aquatic Studies 2004, V5-4H Doris North Project Aquatic Studies 2005, V5-4I Doris North Project Aquatic Studies 2006, V5-4J Doris North Project Aquatic Studies 2007, V5-6D 2009 Freshwater Fish and Fish Habitat Baseline Report, Hope Bay Belt Project, V5-6E Hope Bay Belt Project: 2010 Freshwater Fish and Fish, V5-6P Imniagut Lake Fisheries Assessment, Doris North Project, 2014 V5-6Q Proposed Access Road Fisheries Assessments, Doris North Project 2015 , V5-6R Doris Lake, Doris Creek, and Little Roberts Outflow Fisheries Assessment	-		

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	c	Presence of sensitive habitats (spawning, migration corridors etc.);	Y	-	Madrid-Boston Final Environmental Impact Statement, TMAC Resources Inc., December 2017	Volume 5, List of Appendices	Volume 5 Section 6.2.5.2, 6.2.6.2 Detailed description in appended baseline reports Appendices V5-6A Hope Bay Belt Project, Metal Concentrations in Fish Tissues from Five Lakes in the Hope Bay Belt, Nunavut V5-6B Doris North Project "No Net Loss" Plan V5-6C Aquatic Baseline Studies Boston Project Data Compilation Report 1992-2000, V5-6D 2009 Freshwater Fish and Fish Habitat Baseline Report, Hope Bay Belt Project, V5-6E Hope Bay Belt Project: 2010 Freshwater Fish and Fish Habitat Baseline Report V5-6F Doris North Gold Mine Project: Doris Mine Site Fisheries Authorization Monitoring Report 2010, V5-6G Doris North Gold Mine Project: Doris Mine Site Fisheries Authorization Monitoring Report 2011, V5-6H Doris North Gold Mine Project: 2011 Tail Lake Fish-out Report, V5-6I Doris North Gold Mine Project: Windy Lake Shoal Monitoring, 2012, V5-6J Doris North Gold Mine Project: Roberts Outflow and E09 Fish Habitat Enhancement Report, V5-6K Doris North Gold Mine: 2012 Roberts Lake and Outflow Fish Monitoring Report V5-6L Doris North Project: 2013 Windy Lake Shoal Compliance Monitoring Report, V5-6M Doris North Project: 2013 Roberts Lake and Outflow Fish Compliance Monitoring Program Report, V5-6N Doris North Project: 2014 Windy Lake Shoal Compliance Monitoring Report, V5-6O Doris North Project: 2014 Roberts Lake and Outflow Fish Compliance Monitoring Program Report, V5-6P Immiagut Lake Fisheries Assessment, Doris North Project, 2014 V5-6Q Proposed Access Road Fisheries Assessments, Doris North Project 2015, V5-6R Doris Lake, Doris Creek, and Little Roberts Outflow Fisheries Assessment	-		
	d	Description of aquatic and riparian vegetation;	Y	-	Madrid-Boston Final Environmental Impact Statement, TMAC Resources Inc., December 2017	Volume 5, List of Appendices	Volume 5 Section 6.2.5.2, 6.2.6.2 Detailed description in appended baseline reports Appendices V5-6A Hope Bay Belt Project, Metal Concentrations in Fish Tissues from Five Lakes in the Hope Bay Belt, Nunavut V5-6B Doris North Project "No Net Loss" Plan V5-6C Aquatic Baseline Studies Boston Project Data Compilation Report 1992-2000, V5-6D 2009 Freshwater Fish and Fish Habitat Baseline Report, Hope Bay Belt Project, V5-6E Hope Bay Belt Project: 2010 Freshwater Fish and Fish Habitat Baseline Report V5-6F Doris North Gold Mine Project: Doris Mine Site Fisheries Authorization Monitoring Report 2010, V5-6G Doris North Gold Mine Project: Doris Mine Site Fisheries Authorization Monitoring Report 2011, V5-6H Doris North Gold Mine Project: 2011 Tail Lake Fish-out Report, V5-6I Doris North Gold Mine Project: Windy Lake Shoal Monitoring, 2012, V5-6J Doris North Gold Mine Project: Roberts Outflow and E09 Fish Habitat Enhancement Report, V5-6K Doris North Gold Mine: 2012 Roberts Lake and Outflow Fish Monitoring Report V5-6L Doris North Project: 2013 Windy Lake Shoal Compliance Monitoring Report, V5-6M Doris North Project: 2013 Roberts Lake and Outflow Fish Compliance Monitoring Program Report, V5-6N Doris North Project: 2014 Windy Lake Shoal Compliance Monitoring Report, V5-6O Doris North Project: 2014 Roberts Lake and Outflow Fish Compliance Monitoring Program Report, V5-6P Immiagut Lake Fisheries Assessment, Doris North Project, 2014 V5-6Q Proposed Access Road Fisheries Assessments, Doris North Project 2015, V5-6R Doris Lake, Doris Creek, and Little Roberts Outflow Fisheries Assessment	-		

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	e	Fish community and life stage present;	Y	-	Madrid-Boston Final Environmental Impact Statement, TMAC Resources Inc., December 2017	Volume 5, List of Appendices	<p>Volume 5 Section 6.2.5.3, 6.2.6.3</p> <p>Detailed description in appended baseline reports</p> <p>Appendices</p> <p>V5-6A Hope Bay Belt Project, Metal Concentrations in Fish Tissues from Five Lakes in the Hope Bay Belt, Nunavut</p> <p>V5-6B Doris North Project "No Net Loss" Plan</p> <p>V5-6C Aquatic Baseline Studies Boston Project Data Compilation Report 1992-2000, V5-6D 2009 Freshwater Fish and Fish Habitat Baseline Report, Hope Bay Belt Project, V5-6E Hope Bay Belt Project: 2010 Freshwater Fish and Fish Habitat Baseline Report</p> <p>V5-6F Doris North Gold Mine Project: Doris Mine Site Fisheries Authorization Monitoring Report 2010, V5-6G Doris North Gold Mine Project: Doris Mine Site Fisheries Authorization Monitoring Report 2011, V5-6H Doris North Gold Mine Project: 2011 Tail Lake Fish-out Report, V5-6I Doris North Gold Mine Project: Windy Lake Shoal Monitoring, 2012, V5-6J Doris North Gold Mine Project: Roberts Outflow and E09 Fish Habitat</p> <p>Enhancement Report, V5-6K Doris North Gold Mine: 2012 Roberts Lake and Outflow Fish Monitoring Report</p> <p>V5-6L Doris North Project: 2013 Windy Lake Shoal Compliance Monitoring Report, V5-6M Doris North Project: 2013 Roberts Lake and Outflow Fish Compliance Monitoring Program Report, V5-6N Doris North Project: 2014 Windy Lake Shoal Compliance Monitoring Report, V5-6O Doris North Project: 2014 Roberts Lake and Outflow Fish Compliance Monitoring Program Report, V5-6P Imniagut Lake Fisheries Assessment, Doris North Project, 2014</p> <p>V5-6Q Proposed Access Road Fisheries Assessments, Doris North Project 2015, V5-6R Doris Lake, Doris Creek, and Little Roberts Outflow Fisheries Assessment</p>	-		
	f	Depth and width of watercourse;	Y	-	Madrid-Boston Final Environmental Impact Statement, TMAC Resources Inc., December 2017	Volume 5, List of Appendices	<p>Volume 5 Sections 3.2, 6.2.5.2, 6.2.6.2</p> <p>Detailed description in appended baseline reports</p> <p>Appendices</p> <p>V5-6A Hope Bay Belt Project, Metal Concentrations in Fish Tissues from Five Lakes in the Hope Bay Belt, Nunavut;</p> <p>V5-6B Doris North Project "No Net Loss" Plan;</p> <p>V5-6C Aquatic Baseline Studies Boston Project Data Compilation Report 1992-2000;</p> <p>V5-6D 2009 Freshwater Fish and Fish Habitat Baseline Report, Hope Bay Belt Project;</p> <p>V5-6E Hope Bay Belt Project: 2010 Freshwater Fish and Fish Habitat Baseline Report;</p> <p>V5-6F Doris North Gold Mine Project: Doris Mine Site Fisheries Authorization Monitoring Report 2010;</p> <p>V5-6G Doris North Gold Mine Project: Doris Mine Site Fisheries Authorization Monitoring Report 2011;</p> <p>V5-6H Doris North Gold Mine Project: 2011 Tail Lake Fish-out Report;</p> <p>V5-6I Doris North Gold Mine Project: Windy Lake Shoal Monitoring, 2012;</p> <p>V5-6J Doris North Gold Mine Project: Roberts Outflow and E09 Fish Habitat Enhancement Report;</p> <p>V5-6K Doris North Gold Mine: 2012 Roberts Lake and Outflow Fish Monitoring Report;</p> <p>V5-6L Doris North Project: 2013 Windy Lake Shoal Compliance Monitoring Report;</p> <p>V5-6M Doris North Project: 2013 Roberts Lake and Outflow Fish Compliance Monitoring Program Report;</p> <p>V5-6N Doris North Project: 2014 Windy Lake Shoal Compliance Monitoring Report;</p> <p>V5-6O Doris North Project: 2014 Roberts Lake and Outflow Fish Compliance Monitoring Program Report;</p> <p>V5-6P Imniagut Lake Fisheries Assessment, Doris North Project, 2014</p> <p>V5-6Q Proposed Access Road Fisheries Assessments, Doris North Project 2015;</p> <p>V5-6R Doris Lake, Doris Creek, and Little Roberts Outflow Fisheries Assessment - Hydraulic Modelling Results</p>	-		

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	g	Max/min water flows, currents, tides;	Y	-	Madrid-Boston Final Environmental Impact Statement, TMAC Resources Inc., December 2017	Volume 5	Volume 5 Sections 1.2.4, 7.2	-		
	h	Turbidity and sediment loads (total suspended solids);	Y	-	Madrid-Boston Final Environmental Impact Statement, TMAC Resources Inc., December 2017	Volume 5, List of Appendices	Volume 5 Section 4.2.4 Appendices V5-3B Boston Property N.W.T. Environmental Data Report (1993); V5-3C Boston Property N.W.T. Environmental Data Report(1994); V5-3E Boston Property N.W.T. Environmental Data Report 1995; V5-3F Hope Bay Belt Project: Environmental Baseline Studies Report 1996; V5-3G Hope Bay Belt Project: 1997 Environmental Data Report; V5-3H Hope Bay Belt Project: 1998 Environmental Data Report ; V5-3I Hope Bay Project: 2000 Supplemental Environmental Baseline Data Report; V5-3K Doris North Project: Aquatic Studies 2003; V5-3P Boston and Madrid Project Areas: 2006-2007 Aquatic Studies; V5-3R Hope Bay Project: Aquatic Studies 2008; V5-3D Doris Lake Project Northwest Territories 1995 Environmental Study; V5-5A Doris North Project Aquatic Studies 2002; V5-3L Doris North Project Aquatic Studies 2004; V5-3K Doris North Project Aquatic Studies 2005; V5-3O Doris North Project Aquatic Studies 2006; V5-3Q Doris North Project Aquatic Studies 2007; V5-6D 2009 Freshwater Fish and Fish Habitat Baseline Report, Hope Bay Belt Project; V5-6E Hope Bay Belt Project: 2010 Freshwater Fish and Fish Habitat Baseline Report	-		
	i	Sport, commercial, subsistence fishery present.	Y	-	Madrid-Boston Final Environmental Impact Statement, TMAC Resources Inc., December 2017	Volume 5, Volume 6	Volume 5 Section 6.1, 6.2, 6.3.2, 10.1, 10.2, 10.3 Volume 6 Section 4.1.1, 4.2.4.4	-		
Studies	28	Provide a list of baseline studies, reports and plans relevant to the application that have been undertaken to date including:	Y	-	Madrid-Boston Final Environmental Impact Statement, TMAC Resources Inc., December 2017	See below	See below	-		
	a	Geotechnical studies;	Y	-	Madrid-Boston Final Environmental Impact Statement, TMAC Resources Inc., December 2017	Volume 1, Annex V1-7 P5-5	Package P5-5 Geotechnical Design Parameters and Overburden Summary Report, Hope Bay Project	-		
	b	Geochemical studies;	Y	-	Madrid-Boston Final Environmental Impact Statement, TMAC Resources Inc., December 2017	Volume 1, Annex V1-7, P5-6, P5-7, P5-20, P4-21, P5-25	Volume 1, Annex V1-7, P5-6 Geochemical Characterization of Madrid-Boston Project Quarries, Hope Bay Project; P5-7 Geochemical Characterization of Tailings from the Madrid North, Madrid South and Boston Deposits, Hope Bay Project; P5-20 Geochemical Characterization of Waste Rock and Ore, Madrid North Deposit, Hope Bay Project; P5-21 Geochemical Characterization of Waste Rock and Ore from the Madrid South Deposit, Hope Bay Project; P5-25 Geochemical Characterization of Waste Rock and Ore from the Boston Deposit, Hope Bay Project	-		

5.0 Baseline Information

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	c	Water quality studies;	Y	-	Madrid-Boston Final Environmental Impact Statement, TMAC Resources Inc., December 2017	Volume 1, Annex V1-7, P5-4, Volume 5, (List of appendices)	Volume 5, Section 4, Section 4.2 Volume 1, Annex V1-7, Package P5-4 Madrid-Boston Project Water and Load Balance, Hope Bay Project Appendices V5-3B Boston Property N.W.T. Environmental Data Report (1993); V5-3C Boston Property N.W.T. Environment Data Report (1994); V5-3D Doris Lake Project Northwest Territories 1995 Environmental Study; V5-3E Boston Property N.W.T. Environmental Data Report 1995; V5-3F Hope Bay Belt Project: Environmental Baseline Studies Report 1996; V5-3G Hope Bay Belt Project: 1997 Environmental Data Report; V5-3H Hope Bay Belt Project: 1998 Environmental Data Report; V5-3I Hope Bay Belt Project: 2000 Supplemental Environmental Baseline Data Report; V5-3J Aquatic Baseline Studies: Doris Hinge Project Data Compilation Report, 1995-2000; V5-3K Doris North Project Aquatic Studies 2003; V5-3L Doris North Project Aquatic Studies 2004; V5-3M Doris North Project Aquatic Studies 2005; V5-3N Bathymetric Surveys: Hope Bay Project, Hope Bay, Nunavut; V5-3O Doris North Project Aquatic Studies 2006; V5-3P Boston and Madrid Project Areas 2006 - 2007 Aquatic Studies; V5-3Q Doris North Project Aquatic Studies 2007 V5-3R Hope Bay Project Aquatic Studies 2008 V5-3S 2009 Freshwater Baseline Report, Hope Bay Belt Project V5-4A Hope Bay Belt Site Assessment 1999;	-		
	d	Hydrological and hydrogeological studies;	Y	-	Madrid-Boston Final Environmental Impact Statement, TMAC Resources Inc., December 2017	Volume 5, List of Appendices, List of Packages	Volume 5 Section 1.2, 2.1 Appendices V5-1A Hope Bay Belt Project: 1993-2002 Data Compilation Report for Meteorology and Hydrology; V5-1B Meteorology and Hydrology Baseline Report Doris North Project; V5-1C Doris Project Area 2008 Hydrology Baseline Update; V5-1D Hope Bay Belt Project: 2009 Hydrology Baseline Report; V5-1E Hope Bay Project: 2010 Hydrology Baseline Report; V5-1F Doris North Gold Mine Project: Hydrology Compliance Report, 2010; V5-1G Hope Bay Belt Project: 2011 Hydrology Baseline Report; V5-1H Doris North Gold Mine Project: Hydrology Compliance Report 2011; V5-1I Doris North Gold Mine Project: Hydrology Compliance Report 2012; V5-1J Doris North Project: 2013 Hydrology Compliance Monitoring Report; V5-1K Doris North Project: 2014 Hydrology Compliance Monitoring Program; V5-1L Doris North Project: 2015 Hydrology Compliance Monitoring Program Package P5-13 Hydrogeological Characterization and Modelling of the Proposed Boston, Madrid South and Madrid North Mines, Hope Bay Project	-		
	e	Traditional use studies;	Y	-	Madrid-Boston Final Environmental Impact Statement, TMAC Resources Inc., December 2017	Volume 2, Volume 6, List of Appendices	Volume 2 Section 2, Volume 6 Section 4 Appendix V6-3A 2011 Socio-economic and Land Use Baseline Report	-		

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 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.
	f	Aquatic studies;	Y	-	Madrid-Boston Final Environmental Impact Statement, TMAC Resources Inc., December 2017	Volume 5, List of Appendices	Volume 5, Sections 6.2.6, 8.2 Appendices V5-3D Doris Lake Project Northwest Territories 1995 Environmental Study; V5-3E Boston Property N.W.T. Environmental Data Report 1995; V5-3F Hope Bay Belt Project: Environmental Baseline Studies Report 1996; V5-3G Hope Bay Belt Project: 1997 Environmental Data Report; V5-3H Hope Bay Belt Project: 1998 Environmental Data Report; V5-3J Aquatic Baseline Studies: Doris Hinge Project Data Compilation Report, 1995-2000; V5-3K Doris North Project Aquatic Studies 2003; V5-3L Doris North Project Aquatic Studies 2004; V5-3M Doris North Project Aquatic Studies 2005; V5-3O Doris North Project Aquatic Studies 2006; V5-3P Boston and Madrid Project Areas 2006 - 2007 Aquatic Studies; V5-3Q Doris North Project Aquatic Studies 2007; V5-3R Hope Bay Project Aquatic Studies 2008; V5-3S 2009 Freshwater Baseline Report, Hope Bay Belt Project; V5-5A Doris North Project Aquatic Studies 2002; V5-6C Aquatic Baseline Studies Boston Project Data Compilation Report 1992-2000	-		
	g	Meteorological studies;	Y	-	Madrid-Boston Final Environmental Impact Statement, TMAC Resources Inc., December 2017	Volume 4, List of Appendices	Volume 4, Section 1.2 Appendices V5-1A Hope Bay Belt Project: 1993-2002 Data Compilation Report for Meteorology and Hydrology; V5-1B Meteorology and Hydrology Baseline Report Doris North Project; V4-1A 2009 Meteorology Baseline Report, Hope Bay Belt Project; V4-1B Doris North Gold Mine Project: 2010 Meteorology Compliance Report; V4-1C Doris North Gold Mine Project: 2011 Meteorology Compliance Report; V4-1D Hope Bay Belt Project: 2011 Meteorology Baseline Report; V4-1E Doris North Gold Mine Project: 2012 Meteorology Compliance Report; V4-1F Doris North Project: 2013 Compliance Monitoring Program - Meteorology; V4-1G Doris North Project: 2014 Meteorology Compliance Monitoring Program	-		

6.0 Water Use

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.
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.	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1 Volume_1, Annex V1-7, Package_5, P5-4 Volume_1, Annex V1-7, Package_5, P5-19 Volume_1, Annex V1-7, Package_4, P4-7	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 5 Volume_1, Annex V1-7, Package_5, P5-4 Madrid-Boston Project Water and Load Balance, Hope Bay Project Section 3.5 Volume_1, Annex V1-7, Package_5, P5-19 Hope Bay Project: Madrid Water Management Design Section 3 Volume_1, Annex V1-7, Package_4, P4-7 Hope Bay Project Doris-Madrid Water Management Plan Section 2	-		
	a	Obtain water for domestic purposes	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1 Volume_1, Annex V1-7, Package_5, P5-4 Volume_1, Annex V1-7, Package_5, P5-19 Volume_1, Annex V1-7, Package_4, P4-7 Volume_1, Annex V1-7, Package_5, P5-23	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 5.2.2 Volume_1, Annex V1-7, Package_5, P5-4 Madrid-Boston Project Water and Load Balance, Hope Bay Project Section 3.5 Volume_1, Annex V1-7, Package_5, P5-19 Hope Bay Project: Madrid Water Management Design Section 3 Volume_1, Annex V1-7, Package_4, P4-7 Hope Bay Project Doris-Madrid Water Management Plan Section 2.3.4 Volume_1, Annex V1-7, Package_5, P5-23 Hope Bay Project: Windy Lake North Freshwater Intake Preliminary Design	-		
	b	Obtain water for industrial purposes	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1 Volume_1, Annex V1-7, Package_5, P5-4 Volume_1, Annex V1-7, Package_5, P5-19	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 5.2.3 Volume_1, Annex V1-7, Package_5, P5-4 Madrid-Boston Project Water and Load Balance, Hope Bay Project Section 3.5.2 Volume_1, Annex V1-7, Package_5, P5-19 Hope Bay Project: Madrid Water Management Design Section 3	-		
	b1	drilling	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1 Volume_1, Annex V1-7, Package_5, P5-4 Volume_1, Annex V1-7, Package_5, P5-19	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 5.2.3 Volume_1, Annex V1-7, Package_5, P5-4 Madrid-Boston Project Water and Load Balance, Hope Bay Project Section 3.5.2 Volume_1, Annex V1-7, Package_5, P5-19 Hope Bay Project: Madrid Water Management Design Section 3	-		
	b2	mill or processing plant	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1 Volume_1, Annex V1-7, Package_5, P5-4 Volume_1, Annex V1-7, Package_4, P4-7 Volume_1, Annex V1-7, Package_5, P5-19	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 5.2.3 Volume_1, Annex V1-7, Package_5, P5-4 Madrid-Boston Project Water and Load Balance, Hope Bay Project Section 3.5.2 Volume_1, Annex V1-7, Package_4, P4-7 Hope Bay Project Doris-Madrid Water Management Plan Section 2 Volume_1, Annex V1-7, Package_5, P5-19 Hope Bay Project: Madrid Water Management Design Section 3	-		
	b3	concrete production	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1 Volume_1, Annex V1-7, Package_5, P5-4	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 5.2.3 Volume_1, Annex V1-7, Package_5, P5-4 Madrid-Boston Project Water and Load Balance, Hope Bay Project Section 3.5.2	-		
	b4	explosives manufacture	Y	-	-	Volume_1, Annex V1-7, Package_2, P2-1 Volume_1, Annex V1-7, Package_5, P5-4	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 5.2.3 Volume_1, Annex V1-7, Package_5, P5-4 Madrid-Boston Project Water and Load Balance, Hope Bay Project Section 3.5.2	-		

6.0 Water Use

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.
	b5	Ice road construction	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1 Volume_1, Annex V1-7, Package_5, P5-11 Volume_1, Annex V1-7, Package_5, P5-22 Volume_1, Annex V1-7, Package_5, P5-14	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 3 Volume_1, Annex V1-7, Package_5, P5-11 Hope Bay Project: Madrid-Boston All-Weather Road Preliminary Design Volume_1, Annex V1-7, Package_5, P5-22 Hope Bay Project: Madrid North-Tailings Impoundment Area All-Weather Road Preliminary Design Volume_1, Annex V1-7, Package_5, P5-14 Hope Bay Project: Roberts Bay Cargo Dock Access Road Preliminary Design	-		
	b6	other: (describe)	-	-	-			-		
	c	To cross a water course	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1 Volume_1, Annex V1-7, Package_5, P5-11 Volume_1, Annex V1-7, Package_5, P5-22 Volume_1, Annex V1-7, Package_5, P5-14 Volume_1, Annex V1-7, Package_5, P5-19	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 3, 5 Volume_1, Annex V1-7, Package_5, P5-11 Hope Bay Project: Madrid-Boston All-Weather Road Preliminary Design Volume_1, Annex V1-7, Package_5, P5-22 Hope Bay Project: Madrid North-Tailings Impoundment Area All-Weather Road Preliminary Design Volume_1, Annex V1-7, Package_5, P5-14 Hope Bay Project: Roberts Bay Cargo Dock Access Road Preliminary Design Volume_1, Annex V1-7, Package_5, P5-19 Hope Bay Project: Madrid Water Management Design Appendix A	-		
	d	To alter the flow of water, or store water	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1 Volume_1, Annex V1-7, Package_5, P5-4 Volume_1, Annex V1-7, Package_5, P5-19 Volume_1, Annex V1-7, Package_5, P5-17 Volume_1, Annex V1-7, Package_5, P5-18 Volume_1, Annex V1-7, Package_5, P5-11 Volume_1, Annex V1-7, Package_5, P5-3 Volume_1, Annex V1-7, Package_5, P5-16	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 5 Volume_1, Annex V1-7, Package_5, P5-4 Madrid-Boston Project Water and Load Balance, Hope Bay Project Section 3.3 Volume_1, Annex V1-7, Package_5, P5-19 Hope Bay Project: Madrid Water Management Design Section 4 Volume_1, Annex V1-7, Package_5, P5-17 Hope Bay Project: Madrid North Surface Infrastructure Preliminary Design Volume_1, Annex V1-7, Package_5, P5-18 Hope Bay Project: Madrid South Surface Infrastructure Preliminary Design Volume_1, Annex V1-7, Package_5, P5-11 Hope Bay Project: Madrid-Boston All-Weather Road Preliminary Design Volume_1, Annex V1-7, Package_5, P5-3 Hope Bay Project: Contact Water Pond Berm Design Volume_1, Annex V1-7, Package_5, P5-16 Doris Tailings Management System Phase 2 Design, Hope Bay Project	-		
	e	Flood control	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_5, P5-3	Volume_1, Annex V1-7, Package_5, P5-3 Hope Bay Project: Contact Water Pond Berm Design	-		
	f	To divert a watercourse	N/A	Activity not anticipated	-			-		
	g	To modify the bed or bank of a watercourse	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1 Volume_1, Annex V1-7, Package_5, P5-11 Volume_1, Annex V1-7, Package_5, P5-17 Volume_1, Annex V1-7, Package_5, P5-18 Volume_1, Annex V1-7, Package_5, P5-19 Volume_1, Annex V1-7, Package_5, P5-16 Volume_1, Annex V1-7, Package_5, P5-23	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Volume_1, Annex V1-7, Package_5, P5-11 Hope Bay Project: Madrid-Boston All-Weather Road Preliminary Design Volume_1, Annex V1-7, Package_5, P5-17 Hope Bay Project: Madrid North Surface Infrastructure Preliminary Design Volume_1, Annex V1-7, Package_5, P5-18 Hope Bay Project: Madrid South Surface Infrastructure Preliminary Design Volume_1, Annex V1-7, Package_5, P5-19 Hope Bay Project: Madrid Water Management Design Volume_1, Annex V1-7, Package_5, P5-16 Doris Tailings Management System Phase 2 Design, Hope Bay Project Volume_1, Annex V1-7, Package_5, P5-23 Hope Bay Project: Windy Lake North Freshwater Intake Preliminary Design	-		

6.0 Water Use

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.
		Others:	N/A	-	-			-		
<p><i>Water Use: Quality and Quantity Water Intake</i></p> <p><i>**Identify uses as either domestic or industrial**</i></p>	2	Provide the name of the primary water source(s) as well as the name of any alternative water source(s).	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1 Volume_1, Annex V1-7, Package_5, P5-4 Volume_1, Annex V1-7, Package_5, P5-19 Volume_1, Annex V1-7, Package_5, P5-23	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 5 Volume_1, Annex V1-7, Package_5, P5-4 Madrid-Boston Project Water and Load Balance, Hope Bay Project Section 3.5 Volume_1, Annex V1-7, Package_5, P5-19 Hope Bay Project: Madrid Water Management Design Section 3 Volume_1, Annex V1-7, Package_5, P5-23 Hope Bay Project: Windy Lake North Freshwater Intake Preliminary Design	-		
	3	Provide a description of the source(s) of water and the location of the water source(s) as shown on a map.	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1 Volume_1, Annex V1-7, Package_5, P5-4 Volume_1, Annex V1-7, Package_5, P5-19 Volume_1, Annex V1-7, Package_4, P4-7 Volume_1, Annex V1-7, Package_5, P5-23	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 5, Volume 5, Section 4 Volume_1, Annex V1-7, Package_5, P5-4 Madrid-Boston Project Water and Load Balance, Hope Bay Project Section 3.5 Volume_1, Annex V1-7, Package_5, P5-19 Hope Bay Project: Madrid Water Management Design Section 3 Volume_1, Annex V1-7, Package_4, P4-7 Hope Bay Project Doris-Madrid Water Management Plan Section 2 Volume_1, Annex V1-7, Package_5, P5-23 Hope Bay Project: Windy Lake North Freshwater Intake Preliminary Design	-		
	4	Indicate the type of water source(s) as lake, river, well, or other type.	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1 Volume_1, Annex V1-7, Package_5, P5-4 Volume_1, Annex V1-7, Package_5, P5-19 Volume_1, Annex V1-7, Package_4, P4-7	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 5 Volume 5, Section 4 Volume_1, Annex V1-7, Package_5, P5-4 Madrid-Boston Project Water and Load Balance, Hope Bay Project Section 3.5 Volume_1, Annex V1-7, Package_5, P5-19 Hope Bay Project: Madrid Water Management Design Section 3 Volume_1, Annex V1-7, Package_4, P4-7 Hope Bay Project Doris-Madrid Water Management Plan Section 2	-		
	5	Provide a description of the quality of the water from the source(s) for each season (summer, fall, winter, spring).	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_5, P5-4	Volume_1, Annex V1-7, Package_5, P5-4 Madrid-Boston Project Water and Load Balance, Hope Bay Project Section 3.7.10 Volume 5, Section 4.2	-		
	6	Provide the capacity of the water source(s).	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_5, P5-4	Volume_1, Annex V1-7, Package_5, P5-4 Madrid-Boston Project Water and Load Balance, Hope Bay Project Section 3.4 Volume 5, Section 3.3.4.3	-		
	7	Provide the acquisition rate in cubic metres per day and cubic metres per year from each water source.	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1 Volume_1, Annex V1-7, Package_5, P5-4 Volume_1, Annex V1-7, Package_5, P5-23	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 5 Volume_1, Annex V1-7, Package_5, P5-4 Madrid-Boston Project Water and Load Balance, Hope Bay Project Section 3.5 Volume_1, Annex V1-7, Package_5, P5-23 Hope Bay Project: Windy Lake North Freshwater Intake Preliminary Design	-		
	8	Provide a description of the water intake method(s) including 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.	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_5, P5-19	Volume_1, Annex V1-7, Package_5, P5-19 Hope Bay Project: Madrid Water Management Design Section 4.5.1 Volume 5 Section 6.5.5.1	-		

6.0 Water Use

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.
	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.	N/A	Existing facilities are approved under the Type A Water 2AM-DOH1323	-	-		-		
	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).	Y	-	-	Volume_1, Annex V1-7, Package_2, P2-1 Volume_1, Annex V1-7, Package_5, P5-4 Volume_1, Annex V1-7, Package_5, P5-19 Volume_1, Annex V1-7, Package_4, P4-7	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 5 Volume_1, Annex V1-7, Package_5, P5-4 Madrid-Boston Project Water and Load Balance, Hope Bay Project Section 3.5 Volume_1, Annex V1-7, Package_5, P5-19 Hope Bay Project: Madrid Water Management Design Section 3 Volume_1, Annex V1-7, Package_4, P4-7 Hope Bay Project Doris-Madrid Water Management Plan Section 2	-		
	11	Indicate the amount of water to be returned to the source.	N/A	No water to be returned to source.	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1 Volume_1, Annex V1-7, Package_5, P5-4 Volume_1, Annex V1-7, Package_5, P5-19 Volume_1, Annex V1-7, Package_4, P4-7	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 5 Volume_1, Annex V1-7, Package_5, P5-4 Madrid-Boston Project Water and Load Balance, Hope Bay Project Section 3.5 Volume_1, Annex V1-7, Package_5, P5-19 Hope Bay Project: Madrid Water Management Design Section 3 Volume_1, Annex V1-7, Package_4, P4-7 Hope Bay Project Doris-Madrid Water Management Plan Section 2	-		
	12	Provide a description of the methods to ensure water returned to any source is of an acceptable quality.	N/A	No water to be returned to source.	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_4, P4-7	Volume_1, Annex V1-7, Package_4, P4-7 Hope Bay Project Doris-Madrid Water Management Plan Section 3	-		
	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.	N/A	Hydrostatic testing programs will be provided prior to commissioning of pipelines if required	-	-	-	-		
	14	Indicate the quantities of water required for ice road construction and provide a description of the methods of ice road construction.	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1 Volume_1, Annex V1-7, Package_5, P5-4 Volume_1, Annex V1-7, Package_5, P5-11	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 3 Volume_1, Annex V1-7, Package_5, P5-4 Madrid-Boston Project Water and Load Balance, Hope Bay Project Section 3.5 Volume_1, Annex V1-7, Package_5, P5-11 Hope Bay Project: Madrid-Boston All-Weather Road Preliminary Design Section 6	-		
	15	Provide a description of any measures to reduce water consumption.	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1 Volume_1, Annex V1-7, Package_5, P5-4 Volume_1, Annex V1-7, Package_5, P5-19 Volume_1, Annex V1-7, Package_4, P4-7	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 5 Volume_1, Annex V1-7, Package_5, P5-4 Madrid-Boston Project Water and Load Balance, Hope Bay Project Section 3.7 Volume_1, Annex V1-7, Package_5, P5-19 Hope Bay Project: Madrid Water Management Design Section 4.5.2 Volume_1, Annex V1-7, Package_4, P4-7 Hope Bay Project Doris-Madrid Water Management Plan Section 3	-		

6.0 Water Use

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.
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.	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1 Volume_1, Annex V1-7, Package_5, P5-17 Volume_1, Annex V1-7, Package_5, P5-18 Volume_1, Annex V1-7, Package_5, P5-19 Volume_1, Annex V1-7, Package_4, P4-7 Volume_1, Annex V1-7, Package_5, P5-4 Volume_1, Annex V1-7, Package_5, P5-16	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 5 Volume_1, Annex V1-7, Package_5, P5-17 Hope Bay Project: Madrid North Surface Infrastructure Preliminary Design Volume_1, Annex V1-7, Package_5, P5-18 Hope Bay Project: Madrid South Surface Infrastructure Preliminary Design Volume_1, Annex V1-7, Package_5, P5-19 Hope Bay Project: Madrid Water Management Design Section 4 Volume_1, Annex V1-7, Package_4, P4-7 Hope Bay Project Doris-Madrid Water Management Plan Section 3 Volume_1, Annex V1-7, Package_5, P5-4 Madrid-Boston Project Water and Load Balance, Hope Bay Project Section 3.4 Volume_1, Annex V1-7, Package_5, P5-16 Doris Tailings Management System Phase 2 Design, Hope Bay Project	-		
	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.	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_5, P5-19 Volume_1, Annex V1-7, Package_5, P5-3 Volume_1, Annex V1-7, Package_5, P5-16	Volume_1, Annex V1-7, Package_5, P5-19 Hope Bay Project: Madrid Water Management Design Section 4 Volume_1, Annex V1-7, Package_5, P5-3 Hope Bay Project: Contact Water Pond Berm Design Volume_1, Annex V1-7, Package_5, P5-16 Doris Tailings Management System Phase 2 Design, Hope Bay Project	-		
	18	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.	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_5, P5-19 Volume_1, Annex V1-7, Package_5, P5-16	Volume_1, Annex V1-7, Package_5, P5-19 Hope Bay Project: Madrid Water Management Design 4, Appendix A Volume_1, Annex V1-7, Package_5, P5-16 Doris Tailings Management System Phase 2 Design, Hope Bay Project Appendix A	-		
	19	Provide a plan showing representative cross sections of the reservoir.	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_5, P5-19 Volume_1, Annex V1-7, Package_5, P5-3 Volume_1, Annex V1-7, Package_5, P5-16	Volume_1, Annex V1-7, Package_5, P5-19 Hope Bay Project: Madrid Water Management Design Appendix A Volume_1, Annex V1-7, Package_5, P5-3 Hope Bay Project: Contact Water Pond Berm Design Appendix A Volume_1, Annex V1-7, Package_5, P5-16 Doris Tailings Management System Phase 2 Design, Hope Bay Project Appendix A	-		
	20	Provide a description of the general condition of any existing water storage facility and provide an explanation if it is unsatisfactory.	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1 Volume_1, Annex V1-7, Package_5, P5-17 Volume_1, Annex V1-7, Package_5, P5-18	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 3 Volume_1, Annex V1-7, Package_5, P5-17 Hope Bay Project: Madrid North Surface Infrastructure Preliminary Design Volume_1, Annex V1-7, Package_5, P5-18 Hope Bay Project: Madrid South Surface Infrastructure Preliminary Design	-		
Water Distribution	21	Provide a description of water distribution systems (i.e., piped water, trucked).	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1 Volume_1, Annex V1-7, Package_5, P5-4 Volume_1, Annex V1-7, Package_5, P5-19 Volume_1, Annex V1-7, Package_4, P4-7 Volume_1, Annex V1-7, Package_5, P5-23	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 5 Volume_1, Annex V1-7, Package_5, P5-4 Madrid-Boston Project Water and Load Balance, Hope Bay Project Section 3 Volume_1, Annex V1-7, Package_5, P5-19 Hope Bay Project: Madrid Water Management Design Section 4 Volume_1, Annex V1-7, Package_4, P4-7 Hope Bay Project Doris-Madrid Water Management Plan Section 3 Volume_1, Annex V1-7, Package_5, P5-23 Hope Bay Project: Windy Lake North Freshwater Intake Preliminary Design	-		

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	22	Provide a description of the general condition of any existing water distribution system and provide an explanation if it is unsatisfactory.	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017		NA	-		
Watercourse Crossings	23	Provide a description of any watercourse crossings including pipelines, bridges, culverts or roads and its purpose.	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_5, P5-11	Volume_1, Annex V1-7, Package_5, P5-11 Hope Bay Project: Madrid-Boston All-Weather Road Preliminary Design Volume_1, Annex V1-7, Package_5, P5-19 Hope Bay Project: Madrid Water Management Design Appendix A	-		
	24	Provide a plan of any watercourse crossing showing cross section and elevations	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_5, P5-11	Volume_1, Annex V1-7, Package_5, P5-11 Hope Bay Project: Madrid-Boston All-Weather Road Preliminary Design Volume_1, Annex V1-7, Package_5, P5-19 Hope Bay Project: Madrid Water Management Design Appendix A	-		
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.	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_5, P5-11	Volume_1, Annex V1-7, Package_5, P5-11 Hope Bay Project: Madrid-Boston All-Weather Road Preliminary Design	-		
Flood Control	26	Provide a description of any flood control structures and its purpose.	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_5, P5-3	Volume_1, Annex V1-7, Package_5, P5-3 Hope Bay Project: Contact Water Pond Berm Design	-		
Diversions	27	Provide a description of any diversions including ditches and dikes and its purpose.	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_5, P5-17 Volume_1, Annex V1-7, Package_5, P5-18	Volume_1, Annex V1-7, Package_5, P5-17 Hope Bay Project: Madrid North Surface Infrastructure Preliminary Design Volume_1, Annex V1-7, Package_5, P5-18 Hope Bay Project: Madrid South Surface Infrastructure Preliminary Design	-		
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	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1 Volume_1, Annex V1-7, Package_5, P5-4 Volume_1, Annex V1-7, Package_5, P5-19 Volume_1, Annex V1-7, Package_4, P4-7 Volume_1, Annex V1-7, Package_5, P5-3 Volume_1, Annex V1-7, Package_5, P5-16	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 5 Volume_1, Annex V1-7, Package_5, P5-4 Madrid-Boston Project Water and Load Balance, Hope Bay Project Section 6 Volume_1, Annex V1-7, Package_5, P5-19 Hope Bay Project: Madrid Water Management Design Section 4 Volume_1, Annex V1-7, Package_4, P4-7 Hope Bay Project Doris-Madrid Water Management Plan Section 2 Volume_1, Annex V1-7, Package_5, P5-3 Hope Bay Project: Contact Water Pond Berm Design Volume_1, Annex V1-7, Package_5, P5-16 Doris Tailings Management System Phase 2 Design, Hope Bay Project	-		
	29	Indicate whether the natural storage capacity or water level of any lake or pond will be altered.	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_5, P5-4	Volume_1, Annex V1-7, Package_5, P5-4 Madrid-Boston Project Water and Load Balance, Hope Bay Project Section 6	-		
	30	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.	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_5, P5-3	Volume_1, Annex V1-7, Package_5, P5-3 Hope Bay Project: Contact Water Pond Berm Design	-		
Dewatering	31	Provide a description of dewatering programs, if planned, including estimated quantities, qualities, dewatering flow rates, methods and schedule of withdrawal, end use or discharge location.	Y	Dewatering of Underground Mine	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1 Volume_1, Annex V1-7, Package_5, P5-4 Volume_1, Annex V1-7, Package_5, P5-19 Volume_1, Annex V1-7, Package_4, P4-7	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 5 Volume_1, Annex V1-7, Package_5, P5-4 Madrid-Boston Project Water and Load Balance, Hope Bay Project Section 3.5 Volume_1, Annex V1-7, Package_5, P5-19 Hope Bay Project: Madrid Water Management Design Section 3.3 Volume_1, Annex V1-7, Package_4, P4-7 Hope Bay Project Doris-Madrid Water Management Plan Section 2	-		

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	32	Provide an estimate of the quality and flow of groundwater that will flow into any open pits.	N/A	Dewatering of Underground Mine , but not open pits	-	-	-	-		
Identification	33	Indicate whether there are any signs identifying past or present water intake, storage, distribution systems and/or waterworks structures presently in the project area.	N/A	As per existing Water Licences SNP monitoring locations are labelled at site, including those associated with water intake, storage, distribution systems and/or waterworks structures presently in the project area.	-	-	-	-		
Modifications	34	Indicate whether any changes are planned for the water intake, storage, distribution systems and/or waterworks structures. If applicable, see item 35 of this section.	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1 Volume_1, Annex V1-7, Package_5, P5-17 Volume_1, Annex V1-7, Package_5, P5-18	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Volume_1, Annex V1-7, Package_5, P5-17 Hope Bay Project: Madrid North Surface Infrastructure Preliminary Design Volume_1, Annex V1-7, Package_5, P5-18 Hope Bay Project: Madrid South Surface Infrastructure Preliminary Design	-		
Proposed Water Works	35	For each water work component provide the design plans stamped for construction. Design plans shall consider the following:	N/A	For the items a to Y, incl., below, drawings and specifications to be issued for construction will be submitted to the NWB 3 months prior to Construction. Conceptual layouts are presented in Package 5 which provide sufficient detail for EIS requirements				3 months prior to Construction.		
	a	Name of the water body(s) affected.	N/A		-					
	b	Site photos, site map, or air photos of the location.	N/A		-					
	c	Description of the existing condition of the site (see Section 5)	N/A		-					
	d	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.	N/A		-					
	e	The design flood flow in cubic metres per second and its return period for the type of structure proposed.	N/A		-					
	f	An explanation of the rationale for the selected design flow flood and its return period.	N/A		-					
	g	Design drawings in plan and profile, drawn to scale, including all relevant dimensions.	N/A		-					
	h	Details of design parameters including seismic design criteria if applicable.	N/A		-					
	i	In water work timing restriction for fisheries.	N/A		-					
	j	Start and completion dates for construction.	N/A		-					

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	k	Construction schedule and sequence taking into account any timing restrictions.	N/A		-					
	l	Construction methods.	N/A		-					
	m	Equipment to be used.	N/A		-					
	n	A description of the source, type, and composition of material used in construction.	N/A		-					
	o	The quantity of material to be either placed into or removed from the watercourse.	N/A		-					
	p	Sedimentation and erosion control measures.	N/A		-					
	q	Construction monitoring plans.	N/A		-					
	r	Construction quality assurance and quality control measures.	N/A		-					
	s	Assessment of impacts to fish and fish habitat (see Item 44 of this Section).	N/A		-					
	t	Bank stabilization measures (including the size range of material if applicable).	N/A		-					
	u	Operation and maintenance plans including instrumentation, monitoring and inspection requirements.	N/A		-					
	v	Contingency plans.	N/A		-					
	w	Re-vegetation plans	N/A		-					
	x	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)	N/A		-					
	y	Abandonment and restoration plans (see Items 45-49 of Section 3).	N/A		-					
	36	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).	N/A	-	-					
	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.	N/A	-	-					

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	38	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.	N/A	-	-	-				
Predicted Environmental Effects and Proposed mitigation measures	39	Provide a description of the effects of water usage on the source from which water will be drawn including the potential for drawdown.	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1 Volume_1, Annex V1-7, Package_5, P5-4	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 5 Volume 5 Section 1.5.2 Volume_1, Annex V1-7, Package_5, P5-4 Madrid-Boston Project Water and Load Balance, Hope Bay Project Section 6	-		
	40	Provide a description of any expected changes in surface water flow or storage including changes downstream of the project.	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1 Volume_1, Annex V1-7, Package_5, P5-4	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 5 Volume 5 Section 1.5.2 Volume_1, Annex V1-7, Package_5, P5-4 Madrid-Boston Project Water and Load Balance, Hope Bay Project Section 6	-		
	41	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	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_5, P5-19	Volume_1, Annex V1-7, Package_5, P5-19 Hope Bay Project: Madrid Water Management Design Appendix A	-		
	42	If the course of any channel is changed, provide a description of measures to maintain stream bed and bank stability.	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume 5	Volume 5, Section 5.5.3	-		
	43	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	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1 Volume_1, Annex V1-7, Package_5, P5-19 Volume_1, Annex V1-7, Package_4, P4-7	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 5 Volume 5, Section 1.5.3 Volume_1, Annex V1-7, Package_5, P5-19 Hope Bay Project: Madrid Water Management Design Section 3 Volume_1, Annex V1-7, Package_4, P4-7 Hope Bay Project Doris-Madrid Water Management Plan Section 2	-		
	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).	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1 Volume_1, Annex V1-7, Package_5, P5-19 Volume_1, Annex V1-7, Package_4, P4-7 Volume_1, Annex V1-7, Package_5, P5-13 Volume_1, Annex V1-7, Package_4, P4-6	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 5 Volume 5, Section 1.5.3 Volume_1, Annex V1-7, Package_5, P5-19 Hope Bay Project: Madrid Water Management Design Section 3.3 Volume_1, Annex V1-7, Package_4, P4-7 Hope Bay Project Doris-Madrid Water Management Plan Section 2.3.3 Volume_1, Annex V1-7, Package_5, P5-13 Hydrogeological Characterization and Modeling of the Proposed Boston, Madrid South and Madrid North Mines, Hope Bay Project Volume_1, Annex V1-7, Package_4, P4-6 Hope Bay Project Groundwater Management Plan	-		

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Fisheries	45	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	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume 5	Volume 5 Section 6.5.2, 6.5.4, 6.5.5	-		
	a	Potential effects on fish or fish habitat;	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume 5	Volume 5 Section 6.5.4, 6.5.5	-		
	b	The area in square metres to be impacted;	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_5, P5-19	Volume_1, Annex V1-7, Package_5, P5-19 Hope Bay Project: Madrid Water Management Design Section 4.5.1	-		
	c	Measures to avoid sensitive periods and habitat areas (i.e., spawning beds, migration corridors);	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_4, P4-18	Volume_1, Annex V1-7, Package_4, P4-18 Hope Bay Project Aquatic Effects Monitoring Plan Volume 5	-		
	d	Measures to avoid physical impacts on habitat;	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_4, P4-18	Volume_1, Annex V1-7, Package_4, P4-18 Hope Bay Project Aquatic Effects Monitoring Plan	-		
	e	Measures to maintain flows and fish passage;	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_4, P4-18	Volume_1, Annex V1-7, Package_4, P4-18 Hope Bay Project Aquatic Effects Monitoring Plan Volume 5 Section 6.5.3, 6.5.4, 6.5.5	-		
	f	Measures to avoid sedimentation;	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1 Volume_1, Annex V1-7, Package_5, P5-19 Volume_1, Annex V1-7, Package_4, P4-18	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Volume 5, Section 6.5.3, 6.5.4 Volume_1, Annex V1-7, Package_5, P5-19 Hope Bay Project: Madrid Water Management Design Volume_1, Annex V1-7, Package_4, P4-18 Hope Bay Project Aquatic Effects Monitoring Plan	-		
	g	Measures to avoid spills;	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1 Volume_1, Annex V1-7, Package_4, P4-3 Volume_1, Annex V1-7, Package_4, P4-18	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 9 Volume 5, Section 6.5.3, 6.5.4, 6.5.5 Volume_1, Annex V1-7, Package_4, P4-3 Hope Bay Project Spill Contingency Plan Volume_1, Annex V1-7, Package_4, P4-18 Hope Bay Project Aquatic Effects Monitoring Plan	-		
	h	Detailed habitat no-net-loss plan and site restoration plan;	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume 5	Volume 5, Section 6.5.3, 6.5.4	-		
Studies	46	Provide a list of studies, reports and plans relevant to the application that have been undertaken to date, including:				Volume_1, Annex V1-7, Package_5,	Volume_1, Annex V1-7, Package_5,	-		

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	a	Options analysis;	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1 Volume_1, Annex V1-7, Package_5, P5-10 Volume_1, Annex V1-7, Package_5, P5-17 Volume_1, Annex V1-7, Package_5, P5-18 Volume_1, Annex V1-7, Package_5, P5-16 Volume_1, Annex V1-7, Package_5, P5-19 Volume_1, Annex V1-7, Package_5, P5-8	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Volume_1, Annex V1-7, Package_5, P5-10 Hope Bay Project: Roberts Bay Cargo Dock Preliminary Design Volume_1, Annex V1-7, Package_5, P5-17 Hope Bay Project: Madrid North Surface Infrastructure Preliminary Design Volume_1, Annex V1-7, Package_5, P5-18 Hope Bay Project: Madrid South Surface Infrastructure Preliminary Design Volume_1, Annex V1-7, Package_5, P5-16 Doris Tailings Management System Phase 2 Design, Hope Bay Project Volume_1, Annex V1-7, Package_5, P5-19 Hope Bay Project: Madrid Water Management Design Volume_1, Annex V1-7, Package_5, P5-8 Hope Bay Project: Wind Energy Project Preliminary Design	-		
	b	Water management plan including water balance;	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_4, P4-7 Volume_1, Annex V1-7, Package_5, P5-4	Volume_1, Annex V1-7, Package_4, P4-7 Hope Bay Project Doris-Madrid Water Management Plan Volume_1, Annex V1-7, Package_5, P5-4 Madrid-Boston Project Water and Load Balance, Hope Bay Project	-		
	c	Fisheries assessment;	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017		Volume 5 Chapter 6	-		
	d	Construction plan and construction schedule for water works;	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1 Volume_1, Annex V1-7, Package_5, P5-3 Volume_1, Annex V1-7, Package_5, P5-16	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 3 Volume_1, Annex V1-7, Package_5, P5-3 Hope Bay Project: Contact Water Pond Berm Design Section 6 Volume_1, Annex V1-7, Package_5, P5-16 Doris Tailings Management System Phase 2 Design, Hope Bay Project Section 5	-		
	e	Implementation schedule for construction of works.	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 3	-		
	f	Construction quality assurance and quality control plans;	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_4, P4-24	Volume_1, Annex V1-7, Package_4, P4-24 Quality Assurance and Quality Control Plan	-		
	g	Operation and maintenance plan;	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_4, P4-7	Volume_1, Annex V1-7, Package_4, P4-7 Hope Bay Project Doris-Madrid Water Management Plan	-		
	h	Preliminary abandonment and reclamation plans for existing and proposed facilities;	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_4, P4-21	Volume_1, Annex V1-7, Package_4, P4-21 Hope Bay Project Doris-Madrid Interim Closure and Reclamation Plan	-		
	i	Final abandonment and reclamation plans for facilities to be closed;	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_4, P4-21	Volume_1, Annex V1-7, Package_4, P4-21 Hope Bay Project Doris-Madrid Interim Closure and Reclamation Plan	-		
	j	Monitoring plans (See Section 8).	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_4, P4-7	Volume_1, Annex V1-7, Package_4, P4-7 Hope Bay Project Doris-Madrid Water Management Plan	-		

7.0 Waste Disposal

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.
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 <i>Guide 2: Terminology and Definitions</i>)	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 5 ,6			
	a	Sewage	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1 Volume_1, Annex V1-7, Package_5, P5-4 Volume_1, Annex V1-7, Package_5, P5-19 Volume_1, Annex V1-7, Package_4, P4-4 Volume_1, Annex V1-7, Package_4, P4-7	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 5.6 Volume_1, Annex V1-7, Package_5, P5-4 Madrid-Boston Project Water and Load Balance, Hope Bay Project Section 7 Volume_1, Annex V1-7, Package_5, P5-19 Hope Bay Project: Madrid Water Management Design Section 3.1 Volume_1, Annex V1-7, Package_4, P4-4 Hope Bay Project Domestic Wastewater Treatment Management Plan Volume_1, Annex V1-7, Package_4, P4-7 Hope Bay Project Doris-Madrid Water Management Plan Section 2.3.5			
	b	Grey water	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1 Volume_1, Annex V1-7, Package_5, P5-4 Volume_1, Annex V1-7, Package_5, P5-19 Volume_1, Annex V1-7, Package_4, P4-4 Volume_1, Annex V1-7, Package_4, P4-7	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 5.6 Volume_1, Annex V1-7, Package_5, P5-4 Madrid-Boston Project Water and Load Balance, Hope Bay Project Section 7 Volume_1, Annex V1-7, Package_5, P5-19 Hope Bay Project: Madrid Water Management Design Section 3.1 Volume_1, Annex V1-7, Package_4, P4-4 Hope Bay Project Domestic Wastewater Treatment Management Plan Volume_1, Annex V1-7, Package_4, P4-7 Hope Bay Project Doris-Madrid Water Management Plan Section 2.3.5			
	c	Solid waste	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1 Volume_1, Annex V1-7, Package_4, P4-13 Volume_1, Annex V1-7, Package_4, P4-15	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 6 Volume_1, Annex V1-7, Package_4, P4-13 Hope Bay Project Non-hazardous Waste Management Plan Volume_1, Annex V1-7, Package_4, P4-15 Hope Bay Project Hazardous Waste Management Plan			
	d	Sludge	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1 Volume_1, Annex V1-7, Package_5, P5-4 Volume_1, Annex V1-7, Package_5, P5-19 Volume_1, Annex V1-7, Package_4, P4-4 Volume_1, Annex V1-7, Package_4, P4-16	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 5.6 Volume_1, Annex V1-7, Package_5, P5-4 Madrid-Boston Project Water and Load Balance, Hope Bay Project Section 7 Volume_1, Annex V1-7, Package_5, P5-19 Hope Bay Project: Madrid Water Management Design Section 3.1 Volume_1, Annex V1-7, Package_4, P4-4 Hope Bay Project Domestic Wastewater Treatment Management Plan Volume_1, Annex V1-7, Package_4, P4-16 Hope Bay Project Incinerator Management Plan			
	e	Hazardous waste including waste oil	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_4, P2-1 Volume_1, Annex V1-7, Package_4, P4-14 Volume_1, Annex V1-7, Package_4, P4-15	Volume_1, Annex V1-7, Package_4, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 6 Volume_1, Annex V1-7, Package_4, P4-14 Hope Bay Project Hydrocarbon Contaminated Material Management Plan Volume_1, Annex V1-7, Package_4, P4-15 Hope Bay Project Hazardous Waste Management Plan			

7.0 Waste Disposal

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.
	f	Contaminated soil, snow, ice and/or water	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_4, P2-1 Volume_1, Annex V1-7, Package_4, P4-14 Volume_1, Annex V1-7, Package_5, P5-19 Volume_1, Annex V1-7, Package_4, P4-7	Volume_1, Annex V1-7, Package_4, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 6 Volume_1, Annex V1-7, Package_4, P4-14 Hope Bay Project Hydrocarbon Contaminated Material Management Plan Volume_1, Annex V1-7, Package_5, P5-19 Hope Bay Project: Madrid Water Management Design Volume_1, Annex V1-7, Package_4, P4-7 Hope Bay Project Doris-Madrid Water Management Plan	-		
	g	Bulky Items/ scrap metal	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_4, P2-1 Volume_1, Annex V1-7, Package_4, P4-13	Volume_1, Annex V1-7, Package_4, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 6.1 Volume_1, Annex V1-7, Package_4, P4-13 Hope Bay Project Non-hazardous Waste Management Plan	-		
	h	Mill or processing plant waste	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_4, P2-1 Volume_1, Annex V1-7, Package_5, P5-16	Volume_1, Annex V1-7, Package_4, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 4.4 Volume_1, Annex V1-7, Package_5, P5-16 Doris Tailings Management System Phase 2 Design, Hope Bay Project	-		
	i	Mine water	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_4, P2-1 Volume_1, Annex V1-7, Package_4, P4-6 Volume_1, Annex V1-7, Package_5, P5-19 Volume_1, Annex V1-7, Package_5, P5-13	Volume_1, Annex V1-7, Package_4, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 5.1 Volume_1, Annex V1-7, Package_4, P4-6 Hope Bay Project Groundwater Management Plan Volume_1, Annex V1-7, Package_5, P5-19 Hope Bay Project: Madrid Water Management Design Section 3.3 Volume_1, Annex V1-7, Package_5, P5-13 Hydrogeological Characterization and Modeling of the Proposed Boston, Madrid South and Madrid North Mines, Hope Bay Project	-		
	j	Dredged material	N/A	Activity not planned.	-	-	-	-		
	k	Discharge from dewatered areas	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_4, P2-1 Volume_1, Annex V1-7, Package_4, P4-6 Volume_1, Annex V1-7, Package_5, P5-19 Volume_1, Annex V1-7, Package_5, P5-13	Volume_1, Annex V1-7, Package_4, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 5.1 Volume_1, Annex V1-7, Package_4, P4-6 Hope Bay Project Groundwater Management Plan Volume_1, Annex V1-7, Package_5, P5-19 Hope Bay Project: Madrid Water Management Design Section 3.3 Volume_1, Annex V1-7, Package_5, P5-13 Hydrogeological Characterization and Modeling of the Proposed Boston, Madrid South and Madrid North Mines, Hope Bay Project	-		
	l	Other: (describe)	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 6	-		
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	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1 Volume_1, Annex V1-7, Package_5, P5-16 Volume_1, Annex V1-7, Package_5, P5-20 Volume_1, Annex V1-7, Package_5, P5-21 Volume_1, Annex V1-7, Package_5, P5-7 Volume_1, Annex V1-7, Package_5, P5-4	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 6 Volume_1, Annex V1-7, Package_5, P5-16 Doris Tailings Management System Phase 2 Design, Hope Bay Project Volume_1, Annex V1-7, Package_5, P5-20 Geochemical Characterization of Waste Rock and Ore from the Madrid North Deposit, Hope Bay Project Volume_1, Annex V1-7, Package_5, P5-21 Geochemical Characterization of Waste Rock and Ore from the Madrid South Deposit, Hope Bay Project Volume_1, Annex V1-7, Package_5, P5-7 Geochemical Characterization of Tailings from the Madrid North, Madrid South and Boston Deposits, Hope Bay Project Volume_1, Annex V1-7, Package_5, P5-4 Madrid-Boston Project Water and Load Balance, Hope Bay Project Section 3.2	-		

7.0 Waste Disposal

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.
	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	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1 Volume_1, Annex V1-7, Package_4, P4-13 Volume_1, Annex V1-7, Package_4, P4-15 Volume_1, Annex V1-7, Package_4, P4-4 Volume_1, Annex V1-7, Package_4, P4-16 Volume_1, Annex V1-7, Package_5, P5-16 Volume_1, Annex V1-7, Package_5, P5-19 Volume_1, Annex V1-7, Package_4, P4-14 Volume_1, Annex V1-7, Package_4, P4-11	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 6 Volume_1, Annex V1-7, Package_4, P4-13 Hope Bay Project Non-hazardous Waste Management Plan Volume_1, Annex V1-7, Package_4, P4-15 Hope Bay Project Hazardous Waste Management Plan Volume_1, Annex V1-7, Package_4, P4-4 Hope Bay Project Domestic Wastewater Treatment Management Plan Volume_1, Annex V1-7, Package_4, P4-16 Hope Bay Project Incinerator Management Plan Volume_1, Annex V1-7, Package_5, P5-16 Doris Tailings Management System Phase 2 Design, Hope Bay Project Volume_1, Annex V1-7, Package_5, P5-19 Hope Bay Project: Madrid Water Management Design Volume_1, Annex V1-7, Package_4, P4-14 Hope Bay Project Hydrocarbon Contaminated Material Management Plan Volume_1, Annex V1-7, Package_4, P4-11 Hope Bay Project Waste Rock, Ore and Mine Backfill Management Plan	-		
	4	Provide a description of any measures to minimize the production of wastes.	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1 Volume_1, Annex V1-7, Package_5, P5-16 Volume_1, Annex V1-7, Package_5, P5-19 Volume_1, Annex V1-7, Package_4, P4-11	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 6 Volume_1, Annex V1-7, Package_5, P5-16 Doris Tailings Management System Phase 2 Design, Hope Bay Project Volume_1, Annex V1-7, Package_5, P5-19 Hope Bay Project: Madrid Water Management Design Section 3 Volume_1, Annex V1-7, Package_4, P4-11 Hope Bay Project Waste Rock, Ore and Mine Backfill Management Plan Section 2	-		
Identification	5	Indicate whether there are signs identifying any past or present wastewater disposal sites, solid waste disposal sites, or any other waste disposal sites presently in the project area.	N/A	Currently as per existing project water Licences the monitoring locations are labelled, including those associated with wastewater disposal sites, solid waste disposal sites, or any other waste disposal sites.	-	-	-	-		
	a	Site photos, site map, or air photos of the site.	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid)	-		
	b	Description of the existing condition of the site (see Section 5).	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1 Volume_1, Annex V1-7, Package_4, P4-21	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Volume_1, Annex V1-7, Package_4, P4-21 Hope Bay Project Doris-Madrid Interim Closure and Reclamation Plan	-		

7.0 Waste Disposal

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	c	A description of the types of waste entering the facility (if applicable, provide a description of the source, type, and quantity of the waste);	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1 Volume_1, Annex V1-7, Package_4, P4-13 Volume_1, Annex V1-7, Package_4, P4-11 Volume_1, Annex V1-7, Package_5, P5-16	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 6 Volume_1, Annex V1-7, Package_4, P4-13 Hope Bay Project Non-hazardous Waste Management Plan Volume_1, Annex V1-7, Package_4, P4-11 Hope Bay Project Waste Rock, Ore and Mine Backfill Management Plan Volume_1, Annex V1-7, Package_5, P5-16 Doris Tailings Management System Phase 2 Design, Hope Bay Project	-		
	d	The concentration of waste entering the facility;	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1 Volume_1, Annex V1-7, Package_5, P5-4 Volume_1, Annex V1-7, Package_5, P5-16	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 6 Volume_1, Annex V1-7, Package_5, P5-4 Madrid-Boston Project Water and Load Balance, Hope Bay Project Section 7 Volume_1, Annex V1-7, Package_5, P5-16 Doris Tailings Management System Phase 2 Design, Hope Bay Project	-		
	e	The geochemical characterization of waste entering the facility, where applicable (i.e., tailings solids);	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1 Volume_1, Annex V1-7, Package_5, P5-20 Volume_1, Annex V1-7, Package_5, P5-21 Volume_1, Annex V1-7, Package_5, P5-7	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Volume_1, Annex V1-7, Package_5, P5-20 Geochemical Characterization of Waste Rock and Ore from the Madrid North Deposit, Hope Bay Project Volume_1, Annex V1-7, Package_5, P5-21 Geochemical Characterization of Waste Rock and Ore from the Madrid South Deposit, Hope Bay Project Volume_1, Annex V1-7, Package_5, P5-7 Geochemical Characterization of Tailings from the Madrid North, Madrid South and Boston Deposits, Hope Bay Project	-		
	f	Distance of the facility from watercourses and fish bearing waters.	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1 Volume_1, Annex V1-7, Package_5, P5-19 Volume_1, Annex V1-7, Package_5, P5-17 Volume_1, Annex V1-7, Package_5, P5-18	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Volume_1, Annex V1-7, Package_5, P5-19 Hope Bay Project: Madrid Water Management Design Volume_1, Annex V1-7, Package_5, P5-17 Hope Bay Project: Madrid North Surface Infrastructure Preliminary Design Volume_1, Annex V1-7, Package_5, P5-18 Hope Bay Project: Madrid South Surface Infrastructure Preliminary Design	-		
	g	All sources of seepage encountered near watercourse and fish bearing waters as well as the volumes (m3/day) and direction of any seepage;	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_4, P4-11	Volume_1, Annex V1-7, Package_4, P4-11 Hope Bay Project Waste Rock, Ore and Mine Backfill Management Plan	-		
	h	Existing and proposed drainage modifications.	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1 Volume_1, Annex V1-7, Package_5, P5-3 Volume_1, Annex V1-7, Package_5, P5-4 Volume_1, Annex V1-7, Package_5, P5-16	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 5 Volume_1, Annex V1-7, Package_5, P5-3 Hope Bay Project: Contact Water Pond Berm Design Volume_1, Annex V1-7, Package_5, P5-4 Madrid-Boston Project Water and Load Balance, Hope Bay Project Section 3.3 Volume_1, Annex V1-7, Package_5, P5-16 Doris Tailings Management System Phase 2 Design, Hope Bay Project	-		

7.0 Waste Disposal

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	i	Details of retaining structures.	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1 Volume_1, Annex V1-7, Package_5, P5-16 Volume_1, Annex V1-7, Package_5, P5-17 Volume_1, Annex V1-7, Package_5, P5-18 Volume_1, Annex V1-7, Package_5, P5-3	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 4 Volume_1, Annex V1-7, Package_5, P5-16 Doris Tailings Management System Phase 2 Design, Hope Bay Project Volume_1, Annex V1-7, Package_5, P5-17 Hope Bay Project: Madrid North Surface Infrastructure Preliminary Design Volume_1, Annex V1-7, Package_5, P5-18 Hope Bay Project: Madrid South Surface Infrastructure Preliminary Design Volume_1, Annex V1-7, Package_5, P5-3 Hope Bay Project: Contact Water Pond Berm Design	-		
	j	Level of treatment (primary, secondary or tertiary).	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1 Volume_1, Annex V1-7, Package_5, P5-4	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 5 Volume_1, Annex V1-7, Package_5, P5-4 Madrid-Boston Project Water and Load Balance, Hope Bay Project Section 3.7	-		
	k	By products of treatment which may require further treatment, characterization, handling and disposal.	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1 Volume_1, Annex V1-7, Package_5, P5-4	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 5, 6 Volume_1, Annex V1-7, Package_5, P5-4 Madrid-Boston Project Water and Load Balance, Hope Bay Project Section 3.7	-		
	l	Capacity and retention time of the facility;	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1 Volume_1, Annex V1-7, Package_5, P5-16 Volume_1, Annex V1-7, Package_5, P5-3 Volume_1, Annex V1-7, Package_5, P5-19	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 4.4, 5, 6 Volume_1, Annex V1-7, Package_5, P5-16 Doris Tailings Management System Phase 2 Design, Hope Bay Project Volume_1, Annex V1-7, Package_5, P5-3 Hope Bay Project: Contact Water Pond Berm Design Volume_1, Annex V1-7, Package_5, P5-19 Hope Bay Project: Madrid Water Management Design	-		
	m	Identification of final discharge point (last point of control).	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1 Volume_1, Annex V1-7, Package_5, P5-19	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 5 Volume_1, Annex V1-7, Package_5, P5-19 Hope Bay Project: Madrid Water Management Design Section 4.5.2	-		
	n	Method and type of discharge (seasonal, annual, continuous) including details of all decant, siphon mechanisms etc.	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1 Volume_1, Annex V1-7, Package_5, P5-19	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 5 Volume_1, Annex V1-7, Package_5, P5-19 Hope Bay Project: Madrid Water Management Design Section 4.5.2	-		
	o	Estimated rates for discharge.	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1 Volume_1, Annex V1-7, Package_5, P5-4 Volume_1, Annex V1-7, Package_5, P5-19	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 5 Volume_1, Annex V1-7, Package_5, P5-4 Madrid-Boston Project Water and Load Balance, Hope Bay Project Section 6.4.2 Volume_1, Annex V1-7, Package_5, P5-19 Hope Bay Project: Madrid Water Management Design Section 4.5.2	-		
	p	Restrictions on discharge.	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1 Volume_1, Annex V1-7, Package_5, P5-4	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 5.5 Volume_1, Annex V1-7, Package_5, P5-4 Madrid-Boston Project Water and Load Balance, Hope Bay Project Section 7.1.3	-		

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	q	Discharge effluent criteria proposed;	Y	TMAC suggests discharge effluent criteria's authorized under exiting Water Licences be adopted for the Phase 2 Project.	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1 Volume_1, Annex V1-7, Package_5, P5-4	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 5.5 Volume_1, Annex V1-7, Package_5, P5-4 Madrid-Boston Project Water and Load Balance, Hope Bay Project Section 7.1.3	-		
	r	Receiving water quality objectives.	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1 Volume_1, Annex V1-7, Package_5, P5-4	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 5 Volume_1, Annex V1-7, Package_5, P5-4 Madrid-Boston Project Water and Load Balance, Hope Bay Project Section 7	-		
	s	Capacity of the receiving environment;	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_5, P5-4	Volume_1, Annex V1-7, Package_5, P5-4 Madrid-Boston Project Water and Load Balance, Hope Bay Project Section 6.4.2	-		
	t	Details regarding direction and path of wastewater flow from the area or infrastructure.	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1 Volume_1, Annex V1-7, Package_5, P5-19	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 5 Volume_1, Annex V1-7, Package_5, P5-19 Hope Bay Project: Madrid Water Management Design Figure 1	-		
	u	Design drawings in plan and profile, drawn to scale, including all relevant dimensions.	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_5, P5-19 Volume_1, Annex V1-7, Package_5, P5-16	Volume_1, Annex V1-7, Package_5, P5-19 Hope Bay Project: Madrid Water Management Design Appendix A Volume_1, Annex V1-7, Package_5, P5-16 Doris Tailings Management System Phase 2 Design, Hope Bay Project Appendix A	-		
	v	Details of design parameters including seismic design if applicable.	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_5, P5-5 Volume_1, Annex V1-7, Package_5, P5-3 Volume_1, Annex V1-7, Package_5, P5-16	Volume_1, Annex V1-7, Package_5, P5-5 Geotechnical Design Parameters and Overburden Summary Report, Hope Bay Project Volume_1, Annex V1-7, Package_5, P5-3 Hope Bay Project: Contact Water Pond Berm Design Volume_1, Annex V1-7, Package_5, P5-16 Doris Tailings Management System Phase 2 Design, Hope Bay Project Appendix C	-		
	w	Start and completion dates for construction.	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 3	-		
	x	Construction schedule and sequence taking into account any timing restrictions.	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 3	-		
	y	Construction methods.	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1 Volume_1, Annex V1-7, Package_5, P5-17 Volume_1, Annex V1-7, Package_5, P5-18 Volume_1, Annex V1-7, Package_5, P5-16	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 3 Volume_1, Annex V1-7, Package_5, P5-17 Hope Bay Project: Madrid North Surface Infrastructure Preliminary Design Section 6 Volume_1, Annex V1-7, Package_5, P5-18 Hope Bay Project: Madrid South Surface Infrastructure Preliminary Design Section 6 Volume_1, Annex V1-7, Package_5, P5-16 Doris Tailings Management System Phase 2 Design, Hope Bay Project Section 6	-		

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	z	Equipment to be used.	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1 Volume_1, Annex V1-7, Package_5, P5-17 Volume_1, Annex V1-7, Package_5, P5-18 Volume_1, Annex V1-7, Package_5, P5-16 Volume_1, Annex V1-7, Package_5, P5-3	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 3 Volume_1, Annex V1-7, Package_5, P5-17 Hope Bay Project: Madrid North Surface Infrastructure Preliminary Design Section 6 Volume_1, Annex V1-7, Package_5, P5-18 Hope Bay Project: Madrid South Surface Infrastructure Preliminary Design Section 6 Volume_1, Annex V1-7, Package_5, P5-16 Doris Tailings Management System Phase 2 Design, Hope Bay Project Section 5 Volume_1, Annex V1-7, Package_5, P5-3 Hope Bay Project: Contact Water Pond Berm Design Section 6	-		
	aa	A description of the source, type, and composition of the material to be used in construction.	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1 Volume_1, Annex V1-7, Package_5, P5-17 Volume_1, Annex V1-7, Package_5, P5-18 Volume_1, Annex V1-7, Package_5, P5-16 Volume_1, Annex V1-7, Package_5, P5-3 Volume_1, Annex V1-7, Package_5, P5-6	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 3 Volume_1, Annex V1-7, Package_5, P5-17 Hope Bay Project: Madrid North Surface Infrastructure Preliminary Design Section 6 Volume_1, Annex V1-7, Package_5, P5-18 Hope Bay Project: Madrid South Surface Infrastructure Preliminary Design Section 6 Volume_1, Annex V1-7, Package_5, P5-16 Doris Tailings Management System Phase 2 Design, Hope Bay Project Section 5 Volume_1, Annex V1-7, Package_5, P5-3 Hope Bay Project: Contact Water Pond Berm Design Section 6 Volume_1, Annex V1-7, Package_5, P5-6 Geochemical Characterization of Madrid-Boston Project Quarries, Hope Bay Project	-		
	bb	Construction monitoring plans.	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_4, P4-24 Volume_1, Annex V1-7, Package_2, P2-1	Volume_1, Annex V1-7, Package_4, P4-24 Quality Assurance and Quality Control Plan Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 3	Prior to the commencement of the Construction Phase (as per NIRB Guideline 9.2), the content of the Environmental Protection Plan will be developed to ensure that appropriate and adequate environmental protection are in place for construction activities at all construction sites.		

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	cc	Construction quality assurance and quality control measures.	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_4, P4-24 Volume_1, Annex V1-7, Package_2, P2-1	Volume_1, Annex V1-7, Package_4, P4-24 Quality Assurance and Quality Control Plan Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 3	Prior to the commencement of the Construction Phase (as per NIRB Guideline 9.2), the content of the Environmental Protection Plan will be developed to ensure that appropriate and adequate environmental protection are in place for construction activities at all construction sites.		
	dd	Operation and maintenance plans.	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_4, P4-9 Volume_1, Annex V1-7, Package_4, P4-11 Volume_1, Annex V1-7, Package_4, P4-4 Volume_1, Annex V1-7, Package_4, P4-17 Volume_1, Annex V1-7, Package_4, P4-16 Volume_1, Annex V1-7, Package_4, P4-6 Volume_1, Annex V1-7, Package_4, P4-7 Volume_1, Annex V1-7, Package_4, P4-13 Volume_1, Annex V1-7, Package_4, P4-14 Volume_1, Annex V1-7, Package_4, P4-15	Volume_1, Annex V1-7, Package_4, P4-9 Hope Bay Project, Phase 2, Doris Tailings Impoundment Area - Operations, Maintenance, and Surveillance Manual Volume_1, Annex V1-7, Package_4, P4-11 Hope Bay Project Waste Rock, Ore and Mine Backfill Management Plan Volume_1, Annex V1-7, Package_4, P4-4 Hope Bay Project Domestic Wastewater Treatment Management Plan Volume_1, Annex V1-7, Package_4, P4-17 Hope Bay Project Quarry Management and Monitoring Plan Volume_1, Annex V1-7, Package_4, P4-16 Hope Bay Project Incinerator Management Plan Volume_1, Annex V1-7, Package_4, P4-6 Hope Bay Project Groundwater Management Plan Volume_1, Annex V1-7, Package_4, P4-7 Hope Bay Project Doris-Madrid Water Management Plan Volume_1, Annex V1-7, Package_4, P4-13 Hope Bay Project Non-hazardous Waste Management Plan Volume_1, Annex V1-7, Package_4, P4-14 Hope Bay Project Hydrocarbon Contaminated Material Management Plan Volume_1, Annex V1-7, Package_4, P4-15 Hope Bay Project Hazardous Waste Management Plan	-		
	ee	Contingency plans.	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1 Volume_1, Annex V1-7, Package_4, P4-3 Volume_1, Annex V1-7, Package_4, P4-6 Volume_1, Annex V1-7, Package_4, P4-7	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 9 Volume_1, Annex V1-7, Package_4, P4-3 Hope Bay Project Spill Contingency Plan Volume_1, Annex V1-7, Package_4, P4-6 Hope Bay Project Groundwater Management Plan Volume_1, Annex V1-7, Package_4, P4-7 Hope Bay Project Doris-Madrid Water Management Plan	-		
	ff	Abandonment and restoration plans (see Items 45-49 of Section 3).	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1 Volume_1, Annex V1-7, Package_4, P4-21	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 8 Volume_1, Annex V1-7, Package_4, P4-21 Hope Bay Project Doris-Madrid Interim Closure and Reclamation Plan	-		

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	8	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 <i>Guide 4: Completing and Submitting a Water Licence Application</i> for more information regarding design drawings).	N/A	Drawings and specifications to be issued for construction will be submitted to the NWB 3 months prior to Construction. Conceptual layouts are presented in Package 5 which provide sufficient detail for EIS requirements	-	-	-	-		
	9	Provide an assessment of alternatives for any proposed tailings containment facility.	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_5, P5-16	Volume_1, Annex V1-7, Package_5, P5-16 Doris Tailings Management System Phase 2 Design, Hope Bay Project	-		
	10	Provide a description of the general condition of any existing waste facilities and provide an explanation if it is unsatisfactory.	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid)	-		
Predicted Environmental Effects and Proposed mitigation measures	11	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 pH adjustment methods.	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1 Volume_1, Annex V1-7, Package_5, P5-19 Volume_1, Annex V1-7, Package_5, P5-4 Volume_1, Annex V1-7, Package_4, P4-7	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 5 Volume_1, Annex V1-7, Package_5, P5-19 Hope Bay Project: Madrid Water Management Design Volume_1, Annex V1-7, Package_5, P5-4 Madrid-Boston Project Water and Load Balance, Hope Bay Project Section 3.7 Volume_1, Annex V1-7, Package_4, P4-7 Hope Bay Project Doris-Madrid Water Management Plan	-		
	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 receiving environment.	Y	TMAC suggests discharge effluent criteria's authorized under exiting Water Licences be adopted for the Phase 2 Project.	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1 Volume_1, Annex V1-7, Package_5, P5-4	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 5 Volume_1, Annex V1-7, Package_5, P5-4 Madrid-Boston Project Water and Load Balance, Hope Bay Project Section 3.7, 7	-		
	13	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.	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_5, P5-16 Volume_1, Annex V1-7, Package_5, P5-5 Volume_1, Annex V1-7, Package_5, P5-3	Volume_1, Annex V1-7, Package_5, P5-16 Doris Tailings Management System Phase 2 Design, Hope Bay Project Volume_1, Annex V1-7, Package_5, P5-5 Geotechnical Design Parameters and Overburden Summary Report, Hope Bay Project Volume_1, Annex V1-7, Package_5, P5-3 Hope Bay Project: Contact Water Pond Berm Design	-		
	14	Provide a discussion of the consequences of long-term stratification in any pit lakes and associated contingency plans.	N/A	No open pit's associated with the proposed project.	-		NA	-		
	15	Provide detailed contingency plans for the treatment of turbid water during dewatering activities and/or increased suspended solids during any rewatering activities.	N/A	Activity is not planned.	-		NA	-		

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Operations and Maintenance	16	Provide operation and maintenance plans for any tailings containment areas.	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_4, P4-9	Volume_1, Annex V1-7, Package_4, P4-9 Hope Bay Project, Phase 2, Doris Tailings Impoundment Area - Operations, Maintenance, and Surveillance Manual	-		
	17	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".	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_4, P4-4	Volume_1, Annex V1-7, Package_4, P4-4 Hope Bay Project Domestic Wastewater Treatment Management Plan	-		
Hazardous Materials	18	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).	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1 Volume_1, Annex V1-7, Package_4, P4-15	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 6 Volume_1, Annex V1-7, Package_4, P4-15 Hope Bay Project Hazardous Waste Management Plan	-		
	19	Provide details regarding the handling and storage of hazardous or potentially hazardous materials.	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1 Volume_1, Annex V1-7, Package_4, P4-15	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 6 Volume_1, Annex V1-7, Package_4, P4-15 Hope Bay Project Hazardous Waste Management Plan	-		
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.	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_5, P5-17 Volume_1, Annex V1-7, Package_5, P5-18	Volume_1, Annex V1-7, Package_5, P5-17 Hope Bay Project: Madrid North Surface Infrastructure Preliminary Design Section 4.7 Volume_1, Annex V1-7, Package_5, P5-18 Hope Bay Project: Madrid South Surface Infrastructure Preliminary Design	-		
	21	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.	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_4, P4-3	Volume_1, Annex V1-7, Package_4, P4-3 Hope Bay Project Spill Contingency Plan	-		
	22	Plan(s) shall address phases of the project including construction, operation, and care & maintenance.	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_4, P4-9 Volume_1, Annex V1-7, Package_4, P4-7	Volume_1, Annex V1-7, Package_4, P4-9 Hope Bay Project, Phase 2, Doris Tailings Impoundment Area - Operations, Maintenance, and Surveillance Manual Volume_1, Annex V1-7, Package_4, P4-7 Hope Bay Project Doris-Madrid Water Management Plan	-		
	23	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.	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_4, P4-24	Volume_1, Annex V1-7, Package_4, P4-24 Quality Assurance and Quality Control Plan	-		
Studies	24	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:	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_5,	Volume_1, Annex V1-7, Package_5,	-		
	a	Options analysis.	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_5, P5-16	Volume_1, Annex V1-7, Package_5, P5-16 Doris Tailings Management System Phase 2 Design, Hope Bay Project	-		

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	b	Geotechnical and geothermal assessment;	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_5, P5-5	Volume_1, Annex V1-7, Package_5, P5-5 Geotechnical Design Parameters and Overburden Summary Report, Hope Bay Project	-		
	c	Water quality modeling;	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1 Volume_1, Annex V1-7, Package_5, P5-4	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Volume_1, Annex V1-7, Package_5, P5-4 Madrid-Boston Project Water and Load Balance, Hope Bay Project	-		
	d	Snow drift assessments;	N/A	Snow drift assessments not required.	-	-	-	-		
	e	Permafrost protection;	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_5, P5-5	Volume_1, Annex V1-7, Package_5, P5-5 Geotechnical Design Parameters and Overburden Summary Report, Hope Bay Project	-		
	f	Mine waste and water management;	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1 Volume_1, Annex V1-7, Package_5, P5-16 Volume_1, Annex V1-7, Package_5, P5-19	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 5, 6 Volume_1, Annex V1-7, Package_5, P5-16 Doris Tailings Management System Phase 2 Design, Hope Bay Project Volume_1, Annex V1-7, Package_5, P5-19 Hope Bay Project: Madrid Water Management Design	-		
	g	Landfill management;	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1 Volume_1, Annex V1-7, Package_5, P5-17 Volume_1, Annex V1-7, Package_5, P5-18 Volume_1, Annex V1-7, Package_4, P4-13	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 6 Volume_1, Annex V1-7, Package_5, P5-17 Hope Bay Project: Madrid North Surface Infrastructure Preliminary Design Volume_1, Annex V1-7, Package_5, P5-18 Hope Bay Project: Madrid South Surface Infrastructure Preliminary Design Volume_1, Annex V1-7, Package_4, P4-13 Hope Bay Project Non-hazardous Waste Management Plan	-		
	h	Landfarm management;	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1 Volume_1, Annex V1-7, Package_4, P4-14	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 6 Volume_1, Annex V1-7, Package_4, P4-14 Hope Bay Project Hydrocarbon Contaminated Material Management Plan	-		
	i	Quarry Management;	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1 Volume_1, Annex V1-7, Package_4, P4-17 Volume_1, Annex V1-7, Package_5, P5-6	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 3 Volume_1, Annex V1-7, Package_4, P4-17 Hope Bay Project Quarry Management and Monitoring Plan Volume_1, Annex V1-7, Package_5, P5-6 Geochemical Characterization of Madrid-Boston Project Quarries, Hope Bay Project	-		
	j	Incineration management;	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_4, P4-16	Volume_1, Annex V1-7, Package_4, P4-16 Hope Bay Project Incinerator Management Plan	-		
	k	Hazardous waste management;	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1 Volume_1, Annex V1-7, Package_4, P4-15	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 6.2 Volume_1, Annex V1-7, Package_4, P4-15 Hope Bay Project Hazardous Waste Management Plan	-		
	l	Operation and maintenance plan;	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_4, P4-9	Volume_1, Annex V1-7, Package_4, P4-9 Hope Bay Project, Phase 2, Doris Tailings Impoundment Area - Operations, Maintenance, and Surveillance Manual	-		

7.0 Waste Disposal

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.
	m	Inspection plan (see Section 8);	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_4, P4-9	Volume_1, Annex V1-7, Package_4, P4-9 Hope Bay Project, Phase 2, Doris Tailings Impoundment Area - Operations, Maintenance, and Surveillance Manual	-		
	n	Tailings monitoring (see Section 8);	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_4, P4-9	Volume_1, Annex V1-7, Package_4, P4-9 Hope Bay Project, Phase 2, Doris Tailings Impoundment Area - Operations, Maintenance, and Surveillance Manual	-		
	o	Mine site water quality monitoring (see Section 8);	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1 Volume_1, Annex V1-7, Package_4, P4-7 Volume_1, Annex V1-7, Package_4, P4-6 Volume_1, Annex V1-7, Package_4, P4-17	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Volume_1, Annex V1-7, Package_4, P4-7 Hope Bay Project Doris-Madrid Water Management Plan Section 3, 4 Volume_1, Annex V1-7, Package_4, P4-6 Hope Bay Project Groundwater Management Plan Volume_1, Annex V1-7, Package_4, P4-17 Hope Bay Project Quarry Management and Monitoring Plan	-		
	p	Receiving water quality monitoring (see Section 8);	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1 Volume_1, Annex V1-7, Package_4, P4-7	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Volume_1, Annex V1-7, Package_4, P4-7 Hope Bay Project Doris-Madrid Water Management Plan	-		
	q	Aquatic effects monitoring (see Section 8);	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_4, P4-18	Volume_1, Annex V1-7, Package_4, P4-18 Hope Bay Project Aquatic Effects Monitoring Plan	-		
	r	Geotechnical and structural monitoring (see Section 8);	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1 Volume_1, Annex V1-7, Package_4, P4-9	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 4.2.3 Volume_1, Annex V1-7, Package_4, P4-9 Hope Bay Project, Phase 2, Doris Tailings Impoundment Area - Operations, Maintenance, and Surveillance Manual	-		
	s	Quality assurance and quality control plan (see Section 8);	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_4, P4-24	Volume_1, Annex V1-7, Package_4, P4-24 Quality Assurance and Quality Control Plan	-		
	t	Spill contingency and emergency response plans;	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1 Volume_1, Annex V1-7, Package_4, P4-3	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 9 Volume_1, Annex V1-7, Package_4, P4-3 Hope Bay Project Spill Contingency Plan	-		
	u	Preliminary abandonment and reclamation plans for existing and proposed facilities;	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1 Volume_1, Annex V1-7, Package_4, P4-21	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 8 Volume_1, Annex V1-7, Package_4, P4-21 Hope Bay Project Doris-Madrid Interim Closure and Reclamation Plan	-		
	v	Final abandonment and reclamation plans for facilities to be closed;	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1 Volume_1, Annex V1-7, Package_4, P4-21	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 8 Volume_1, Annex V1-7, Package_4, P4-21 Hope Bay Project Doris-Madrid Interim Closure and Reclamation Plan	-		
	w	Remediation plans for waste disposal infrastructure;	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1 Volume_1, Annex V1-7, Package_4, P4-21 Volume_1, Annex V1-7, Package_5, P5-16	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 8 Volume_1, Annex V1-7, Package_4, P4-21 Hope Bay Project Doris-Madrid Interim Closure and Reclamation Plan Volume_1, Annex V1-7, Package_5, P5-16 Doris Tailings Management System Phase 2 Design, Hope Bay Project Section 7	-		

7.0 Waste Disposal

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.
	x	Human health and ecological risk assessment for establishment of remediation objectives for closure;	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume 6, Section 5	Volume 6, Section 5	-		
	y	Construction plan and construction schedule for waste management infrastructure;	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1 Volume_1, Annex V1-7, Package_5, P5-16	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 3 Volume_1, Annex V1-7, Package_5, P5-16 Doris Tailings Management System Phase 2 Design, Hope Bay Project Section 5	Prior to the commencement of the Construction Phase (NIRB Guideline 9.2), an Environmental Protection Plan will be developed to ensure that appropriate and adequate environmental protection are in place for construction activities at all construction sites.		
	z	Implementation schedule for construction of works, submission of studies and mitigation plans for operations and closure;	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_2, P2-1	Volume_1, Annex V1-7, Package_2, P2-1 Project Description Amendment No. 2 Type A Water Licence 2AM-DOH1323 (Doris & Madrid) Section 2	-		

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 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.
Monitoring	1	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 must consider the life of the project, temporary closure and permanent closure.	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_4, P4	Volume_1, Annex V1-7, Package_4, P4 Environmental Management System P4-1, P4-2, P4-3, P4-5, P4-4, P4-6, P4-8, P4-10 through P4-18, P4-21, P4-22, P4-23 and P4-24			
	2	Indicate who is responsible for sampling including that person's position, contact information and level of training.	N/A	Details to be provided prior to the commencement of construction	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	-	-	Details to be provided prior to the commencement of construction		
	3	Indicate the name and contact information of the certified laboratory performing the analysis of samples.	N/A	Details to be provided prior to the commencement of construction	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	-	-	Details to be provided prior to the commencement of construction		
	4	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	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume_1, Annex V1-7, Package_4, P4	Volume 1, Annex V1-7, Package 4, P4 Environmental Management System This Volume provides details on TMAC's Environmental Management System and associated Management Plans for the Project. This volume details methods, procedures, standards and schedules for environmental management of the Project site including but not limited the management of water, waste, spills as well as addressing closure and reclamation for the Project. In addition, TMAC's existing Project Water Licences: NWB Type A Water Licence 2AM-DOH1323; NWB Type B Water Licence 2BE HOP1222; Type B 2BB-MAE1727 and NWB Type B Water Licence 2BB-BOS1727 provide details on required methods, procedures, standards and schedules for the management of waste and water at the Project site. If required, updates to plans provided in Volume 8 Section 5 (Annex 1 through 28) will be addressed during the Water Licencing Phase.			
	5	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.	N/A	To be provided during and post Water Licencing Phase.	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	-	-	To be provided during and post Water Licencing Phase.		
	6	Provide a summary table of the expected quality and quantity of waters, over time in all sumps, monitoring stations, and discharge points, along with i) 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	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume 1, Annex V1-7, Package 5	Volume 1, Annex V1-7, Package 5, P5-4 Hope Bay Project - Water and Load Balance			

8.0 Monitoring

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	7	Provide a monitoring plan for incinerator emissions (including, but not limited to, stack testing and annual reporting).	Y	-	Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume 1, Annex V1-7, Package 4	Volume 1, Annex V1-7, Package 4, P4-16 Hope Bay Project Incinerator Management Plan			
	8	Provide a Quality Assurance/ Quality Control (QA/QC) Plan that addresses both field sampling and laboratory analyses.	Y		Madrid-Boston Final Environmental Impact Statement TMAC Resources Inc, Dec 2017	Volume 1, Annex V1-7, Package 4	Volume 1, Annex V1-7, Package 4, P4-24 Quality Assurance Quality Control Plan			