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## HAMMOND REEF GOLD PROJECT Appendix 1.III Concordance Tables

VERSION 2

**Submitted to:**

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## 1.0 CONCORDANCE WITH CANADIAN ENVIRONMENTAL ASSESSMENT AGENCY'S ENVIRONMENTAL IMPACT STATEMENT GUIDELINES

**Table 1: Concordance between Environmental Impact Statement Guidelines and the Hammond Reef Gold Project Environmental Impact Statement/Environmental Assessment Report**

Environmental Impact Statement Guidelines		Section in EIS/EA Report
Section	Requirement	
<b>Part 1 – Background</b>		
1.0	<b>Introduction</b>	
	The Proponent shall prepare and submit an EIS that: identifies the potential adverse environmental effects, including cumulative effects, of the project; identifies technically and economically feasible measures (and alternatives) to mitigate those effects; and evaluates whether the proposed project will result in any significant adverse environmental effects.	EIS/EA Report
	It is the responsibility of the Proponent to use the EIS Guidelines and provincial information requirements as a framework to develop a complete EIS.	Appendix 1.III (Concordance Tables)
	The Proponent also needs to provide sufficient data and analysis on any potential environmental effects to permit proper evaluation by the Agency, MOE-EAAB, technical and regulatory agencies, Aboriginal groups, the public and any other participants.	Chapter 6 (Effects Assessment)
2.0	<b>Guiding Principles</b>	
2.1	<b>Environmental Assessment as a Planning Tool</b>	
	The EA of this project shall, therefore, in a manner consistent with the purposes above, identify its possible environmental effects, propose measures to mitigate adverse effects; and predict whether there will be likely significant adverse environmental effects after technically and economically feasible mitigation measures are implemented.	Chapter 6 (Effects Assessment)
2.2	<b>Public Participation</b>	
	Meaningful involvement in the EA takes place when all parties involved have a clear understanding of the proposed project as early as possible in the review process. Achieving this objective requires that the Proponent is required to provide current information about the project to the public and especially to the communities likely to be most affected by the project.	Section 7.1 (Public Consultation)

**Table 1: Concordance between Canadian Environmental Assessment Agency’s Environmental Impact Statement Guidelines and the Hammond Reef Gold Project Environmental Impact Statement/Environmental Assessment Report (Continued)**

Environmental Impact Statement Guidelines		Section in EIS/EA Report
Section	Requirement	
2.3	<b>Aboriginal Consultation</b>	
	In preparing the EIS, the Proponent must ensure that Aboriginal peoples have access to the information that they require in respect of the project and how the project may impact them. The Proponent is required to provide up-to-date information describing the project to the relevant Aboriginal groups, and especially to the communities likely to be most affected by the project. The Proponent shall also involve Aboriginal groups in determining how best to deliver that information (e.g. the types of information required, formats, and the number of community meetings required) and explain the results of the EIS in a clear direct manner to make the issues comprehensible to as wide an audience as possible.	Section 7.3.3 (Aboriginal Engagement Activities)
	For the purposes of the federal Crown consultation, the Proponent is required to describe in the EIS how the concerns respecting Aboriginal groups shall be addressed. That description shall include a summary of discussions, the issues or concerns raised, and shall consider and describe any asserted or established Aboriginal and treaty rights.	Section 7.3.4 (Issues Identified through Aboriginal Engagement)  Section 7.3.5 (OHRG’s Commitments and Responses)
2.4	<b>Traditional and Local Knowledge</b>	
	The EA shall promote and facilitate the contribution of traditional and local knowledge to the review process. The Proponent shall incorporate into the EIS the traditional and local knowledge to which it has access or that it may reasonably be expected to acquire through appropriate due diligence, in keeping with appropriate ethical standards and without breaching obligations of confidentiality, as set out in Section 2.8 of this document. Agreement from Aboriginal groups regarding the use, management and protection of their existing traditional knowledge information during the EA and post-EA should be obtained.	Section 7.3.5.1 (Social and Cultural Commitments)
2.5	<b>Sustainable Development</b>	
	Projects should not unduly affect the carrying capacity of the ecosystems (and populations) with which they interact. Economic decisions need to be predicated on maintenance of ecological integrity, as healthy ecological systems provide for a healthy economy. The EIS should consider these concerns and should incorporate the comments received during public and Aboriginal participation.	Section 7.1.3 (Key Issues Identified by Public)  Section 7.3.4 (Issues Identified through Aboriginal Engagement)

**Table 1: Concordance between Canadian Environmental Assessment Agency’s Environmental Impact Statement Guidelines and the Hammond Reef Gold Project Environmental Impact Statement/Environmental Assessment Report (Continued)**

Environmental Impact Statement Guidelines		Section in EIS/EA Report
Section	Requirement	
2.6	<b>Precautionary Approach</b>	
	In applying the precautionary approach, the Proponent shall:	Section 2.6 (Assessment Methodology)
	<ul style="list-style-type: none"> <li>■ demonstrate that all aspects of the project have been examined and planned in a careful and precautionary manner in order to ensure that they would not cause serious or irreversible damage to the environment, especially with respect to environmental functions and integrity, considering system tolerance and resilience, and/or the human health of current or future generations;</li> </ul>	
	<ul style="list-style-type: none"> <li>■ outline and justify the assumptions made about the effects of all aspects of the project and the approaches to minimize these effects;</li> </ul>	
	<ul style="list-style-type: none"> <li>■ ensure that alternative means of carrying out the project are evaluated and compared in light of risk avoidance, adaptive management capacity and preparation for surprise;</li> </ul>	Section 4.2 (Alternative Means of Carrying Out the Project)
	<ul style="list-style-type: none"> <li>■ ensure that in designing and operating the project, priority has been and would be given to strategies that avoid the creation of adverse effects;</li> </ul>	Section 5.5 (In-Design Mitigation Measures)
	<ul style="list-style-type: none"> <li>■ identify any proposed follow-up and monitoring activities, particularly in areas where scientific uncertainty exists in the prediction of effects; and present public views on the acceptability of all of the above.</li> </ul>	Section 8.2 (Environmental Planning, Monitoring and Compliance)
2.7	<b>Use of Existing Information</b>	
	When relying on existing information to meet the requirements of various sections of the EIS Guidelines, the Proponent shall either include the information directly in the EIS or clearly direct (e.g. through cross-referencing) the reader to where it may obtain the information.	Chapter 13 (List of References)
2.8	<b>Use of Confidential Information</b>	
	<p>The EIS that is made publicly available for comment should not contain:</p> <ul style="list-style-type: none"> <li>■ information that is sensitive or confidential (i.e., financial, commercial, scientific, technical, personal, cultural or other nature), that is treated consistently as confidential, and the person affected has not consented to the disclosure; or</li> <li>■ information that is likely to endanger the life, liberty or security of a person through its disclosure.</li> </ul>	Section 1.7.8 (Traditional Land Use)

**Table 1: Concordance between Canadian Environmental Assessment Agency’s Environmental Impact Statement Guidelines and the Hammond Reef Gold Project Environmental Impact Statement/Environmental Assessment Report (Continued)**

Environmental Impact Statement Guidelines		Section in EIS/EA Report
Section	Requirement	
<b>3.0</b>	<b>Preparation and Presentation of the EIS</b>	
<b>3.1</b>	<b>Agency Guidance</b>	
<b>3.2</b>	<b>Study Strategy and Methodology</b>	
	It is possible that the EIS Guidelines may include matters that, in the judgment of the Proponent, are not relevant or important to the project. If such matters are omitted from the EIS, they shall be clearly indicated with appropriate justification so that the Agency, technical and regulatory agencies, Aboriginal groups, the public and any other interested party have an opportunity to comment on this judgment.	n/a
	In describing methods, the Proponent shall document how it used scientific, engineering, traditional and local knowledge to reach its conclusions. Assumptions shall be clearly identified and justified. All data, models and studies should be documented such that the analyses are transparent and reproducible. All data collection methods should be specified. The uncertainty, reliability and sensitivity of models used to reach conclusions should be indicated.	Section 2.6 (Assessment Methodology)
	All significant gaps in knowledge and understanding related to key conclusions presented in the EIS should be identified. The steps to be taken by the Proponent to address these gaps should also be identified. Where the conclusions drawn from scientific and technical knowledge are inconsistent with the conclusions drawn from traditional knowledge, the EIS shall contain a balanced presentation of the issues and a statement of the Proponent’s conclusions.	n/a
<b>3.3</b>	<b>Presentation and Organization of the EIS</b>	
	To facilitate the identification of the documents submitted and their placement in the Canadian Environmental Assessment Registry, the title page of the EIS and its related documents should contain the following information: <ul style="list-style-type: none"> <li>■ project name and location;</li> <li>■ title of the document, including the term “environmental impact statement”;</li> <li>■ subtitle of the document;</li> <li>■ name of the Proponent; and</li> <li>■ the date.</li> </ul>	Title page

**Table 1: Concordance between Canadian Environmental Assessment Agency’s Environmental Impact Statement Guidelines and the Hammond Reef Gold Project Environmental Impact Statement/Environmental Assessment Report (Continued)**

Environmental Impact Statement Guidelines		Section in EIS/EA Report
Section	Requirement	
3.3 (Continued)	Detailed studies (including all relevant and supporting data and methodologies) shall be provided in separate appendices and shall be referenced by appendix, section and page in the text of the main document of the EIS.	Technical Support Documents: <ul style="list-style-type: none"> <li>■ Atmospheric Environment TSD</li> <li>■ Geochemistry, Geology and Soil TSD</li> <li>■ Hydrogeology TSD</li> <li>■ Hydrology TSD</li> <li>■ Water and Sediment Quality TSD</li> <li>■ Site Water Quality TSD</li> <li>■ Lake Water Quality TSD</li> <li>■ Aquatic Environment TSD</li> <li>■ Terrestrial Ecology TSD</li> <li>■ Aboriginal Interests TSD</li> <li>■ Cultural Heritage Resources TSD</li> <li>■ Human Health and Ecological Risk Assessment TSD</li> <li>■ Socio-economic Environment TSD</li> <li>■ Alternatives Assessment Report</li> <li>■ Conceptual Closure and Rehabilitation Plan</li> </ul>
	The Proponent shall provide copies of the EIS for distribution, including an electronic version in an unlocked, searchable PDF format, as directed by the Agency.	Section 1.9 (Participants in the Environmental Assessment)
	The EIS shall specify the organization of the document. This should include a list of all tables, figures, and photographs referenced in the text of the EIS.	Table of Contents  Section 1.11 (Report Organization)
	A Table of Concordance, which cross references the information presented in the EIS with the information requirements identified in the EIS Guidelines, should be provided.	Appendix 1.III (Concordance Table)
A complete list of supporting literature and references should also be provided.	Chapter 13 (List of References)	

**Table 1: Concordance between Canadian Environmental Assessment Agency’s Environmental Impact Statement Guidelines and the Hammond Reef Gold Project Environmental Impact Statement/Environmental Assessment Report (Continued)**

Environmental Impact Statement Guidelines		Section in EIS/EA Report
Section	Requirement	
3.4	<p><b>Executive Summary</b></p> <p>The EIS shall contain an executive summary which shall include the following:</p> <ul style="list-style-type: none"> <li>■ a concise description of all key facets of the project;</li> <li>■ a succinct description of the consultation conducted with Aboriginal groups, the public, and government agencies, with a summary of the issues raised and solutions found and/or suggested during these consultations;</li> <li>■ a general overview of the key effects of the project and proposed technically and economically feasible mitigation measures; and</li> <li>■ the Proponent’s conclusions and significance determinations from the assessment.</li> </ul>	Executive Summary
<b>Part 2 – Structure and Content of the EIS</b>		
4.0	<b>Introduction and Project Background</b>	
4.1	<b>The Proponent</b>	
	<p>The Proponent shall:</p> <ul style="list-style-type: none"> <li>■ provide contact information (e.g. name, address, phone, fax, email);</li> </ul>	Section 1.2 (The Proponent)
	<ul style="list-style-type: none"> <li>■ identify itself and the name of the legal entity that would develop, manage and operate the project;</li> </ul>	Section 1.2.1 (Osisko Mining Corporation)
	<ul style="list-style-type: none"> <li>■ explain corporate and management structures, as well as insurance and liability management related to the project;</li> </ul>	Section 1.2.2 (Corporate Management Structure)
	<ul style="list-style-type: none"> <li>■ specify the mechanism used to ensure that corporate policies will be implemented and respected for the project;</li> </ul>	Section 1.2.3 (Insurance and Liability Management)
		Section 1.2.2 (Corporate Management Structure)
		Appendix 1.V (Canadian Malartic Project Health and Safety Management Plans – Osisko Mining Corporation)

**Table 1: Concordance between Canadian Environmental Assessment Agency’s Environmental Impact Statement Guidelines and the Hammond Reef Gold Project Environmental Impact Statement/Environmental Assessment Report (Continued)**

Environmental Impact Statement Guidelines		Section in EIS/EA Report
Section	Requirement	
4.1 (Continued)	<ul style="list-style-type: none"> <li>summarize key elements of its environment, health and safety management system and discuss how the system will be integrated into the project; and</li> </ul>	Section 1.2.4 (Environment, Health and Safety)
	<ul style="list-style-type: none"> <li>identify key personnel, contractors, and/or sub-contractors responsible for preparing the EIS.</li> </ul>	Section 1.2.2 (Corporate Management Structure)
4.2	<b>Project Overview</b>	
	The Proponent shall briefly summarize the project, by presenting the project components, associated and ancillary works, activities, scheduling details, the timing of each phase of the project and other key features.	Section 1.4 (Project Overview)  Section 1.5 (Project Schedule)  Section 1.6 (Overview of Project Phases)
4.3	<b>Project Location</b>	
	The EIS shall contain a concise description of the geographical setting in which the project is proposed to take place. The following information may be included:	Section 1.1 (Project Location)
	<ul style="list-style-type: none"> <li>any existing designated environmentally sensitive areas, such as national, provincial and regional parks, ecological reserves, wetlands, estuaries, and habitats of provincial or federally listed species at risk and other sensitive areas;</li> </ul>	Section 1.7 (Current Land Use)  Section 1.8 (Land Tenure)
	<ul style="list-style-type: none"> <li>the current land use in the area and the relationship of the project facilities and components with any existing land use including traditional, private and crown lands;</li> </ul>	Section 1.7 (Current Land Use)
	<ul style="list-style-type: none"> <li>local communities;</li> </ul>	Section 1.9 (Participants in the Environmental Assessment)
	<ul style="list-style-type: none"> <li>traditional Aboriginal territories, treaty lands, Indian reserve lands;</li> </ul>	Section 1.8 (Land Tenure)
	<ul style="list-style-type: none"> <li>the UTM coordinates of the main project site; and</li> </ul>	Section 1.1.1 (Project Coordinates)
<ul style="list-style-type: none"> <li>the environmental significance and value of the geographical setting in which the project will take place and the surrounding area.</li> </ul>	Section 1.7 (Current Land Use)	

**Table 1: Concordance between Canadian Environmental Assessment Agency’s Environmental Impact Statement Guidelines and the Hammond Reef Gold Project Environmental Impact Statement/Environmental Assessment Report (Continued)**

Environmental Impact Statement Guidelines		Section in EIS/EA Report
Section	Requirement	
4.3 (Continued)	The EIS shall provide an expanded description and mapping of the project location, including each of the project components.	Section 5.2 (Project Components)
4.4	<b>Participants in the Environmental Assessment</b> Clearly identify the main participants in the EA including jurisdictions other than the federal government, Aboriginal groups, community groups, environmental organizations etc.	Section 1.9 (Participants in the Environmental Assessment)
4.5	<b>Regulatory Framework and the Role of the Government</b> To understand the context of the EA, this section should identify, for each jurisdiction, the government bodies involved in the EA as well as the EA processes. More specifically:	Chapter 10 (Other Approvals)
	<ul style="list-style-type: none"> <li>■ identify the environmental and other specific regulatory approvals and legislation that are applicable to the project at the federal, provincial, regional and municipal levels;</li> </ul>	
	<ul style="list-style-type: none"> <li>■ identify government policies, resource management, planning or study initiatives pertinent to the project and/or EA and discuss their implications;</li> </ul>	Section 1.10 (Regulatory Framework and Role of Government)
	<ul style="list-style-type: none"> <li>■ identify policies and guidelines of the Aboriginal groups being consulted that are pertinent to the project and/or EA and discuss their implications;</li> </ul>	Section 1.10.8 (Aboriginal Policies and Guidelines)
	<ul style="list-style-type: none"> <li>■ identify any Aboriginal treaties that are pertinent to the project and/or EA;</li> </ul>	Section 1.8 (Land Tenure)
		Section 1.10.9 (Aboriginal Treaties)
	<ul style="list-style-type: none"> <li>■ identify any relevant Land Use Plans, Land Zoning, or Community Plans;</li> </ul>	Section 1.10.10 (Land Use Plans and Zoning)
	<ul style="list-style-type: none"> <li>■ identify and delineate major components of the project and identify those being applied for and constructed within the duration of approvals under provincial and federal legislation; and</li> </ul>	Chapter 10 (Other Approvals)
	<ul style="list-style-type: none"> <li>■ provide a summary of the regional, provincial and/or national objectives, standards or guidelines that have been used by the Proponent to assist in the evaluation of any predicted environmental effects.</li> </ul>	Section 1.10 (Regulatory Framework and Role of Government)

**Table 1: Concordance between Canadian Environmental Assessment Agency’s Environmental Impact Statement Guidelines and the Hammond Reef Gold Project Environmental Impact Statement/Environmental Assessment Report (Continued)**

Environmental Impact Statement Guidelines		Section in EIS/EA Report
Section	Requirement	
<b>5.0</b>	<b>Project Description</b>	
<b>5.1</b>	<b>Need for and Purpose of the Project</b>	
	The Proponent shall clearly describe the rationale or need for the Project. This description shall define the problem or opportunity the Project is intending to solve or satisfy. The EIS shall identify the main function of the Project. In this context, the EIS shall present the fundamental rationale for proceeding with the development at this time within the context of regional, provincial and national economies, as well as global implications of supply and demand on metal prices and markets.	Section 1.3 (Need for and Purpose of the Project)
	The Proponent is required to clearly describe the purpose of the Project by defining what is to be achieved by carrying out the Project. In addition, the purpose of each of the Project facilities and activities and their relevance to the overall project development plan shall also be discussed.	Section 1.3 (Need for and Purpose of the Project)  Section 5.2 (Project Components)
	The “rationale or need for” and “purpose of” the Project shall be established from the perspective of the Proponent and provide the context for the consideration of alternatives.	Section 4.1 (Alternatives to the Project)
<b>5.2</b>	<b>Project Setting</b>	
	Location: The EIS shall include a concise description of the geographic setting in which the Project is proposed to take place and shall include site, regional, watershed, and bathymetric maps. The following shall be considered for each map type:  ■ site map - shall be to an appropriate scale and show all relevant features of the mine site (e.g., tailings pond, waste rock storage area, etc.);	Section 1.1 (Project Location)  Section 1.4 (Project Overview)  Chapter 3, Figures 3-12 to 3-14 (Watershed Maps)  Chapter 3 Figures 3-26, 3-28, 3-20, 3-22 (Bathymetric Maps)
	■ regional map - two shall be provided, one to 1:100,000 scale and a second to a 1:50,000 scale;	Chapter 1 Figures 1-1B and 1-1C (Project Location)

**Table 1: Concordance between Canadian Environmental Assessment Agency’s Environmental Impact Statement Guidelines and the Hammond Reef Gold Project Environmental Impact Statement/Environmental Assessment Report (Continued)**

Environmental Impact Statement Guidelines		Section in EIS/EA Report
Section	Requirement	
5.2 (Continued)	<ul style="list-style-type: none"> <li>watershed map - shall be appropriately scaled and show discharge and sampling locations;</li> </ul>	<p>Chapter 3 Figures 3-12 to 3-14 (Watershed Maps)</p> <p>Figure 3-15 (Local Scale Flow and Water Level Monitoring Stations)</p> <p>Hydrology TSD, Section 2.1.2 to 2.1.4 (Regional Watersheds; Local Watersheds; Site Watersheds)</p>
	<ul style="list-style-type: none"> <li>bathymetric maps - shall be provided for potentially impacted and reference lakes; and</li> </ul>	<p>Chapter 3 Figures 3-26, 3-28, 3-20, 3-22 (Bathymetric Maps)</p>
	<ul style="list-style-type: none"> <li>land use maps – depicting municipal boundaries, mining tenure, claims and leases, Crown land tenure, private land tenure and land use designations.</li> </ul>	<p>Chapter 3 Figures 3-52 to 3-59 (Land Use Maps)</p>
	<ul style="list-style-type: none"> <li>In addition to the requested maps, in order to illustrate the regional setting and clearly locate the Project within that setting, the EIS shall include site plans at the appropriate scale and photographs (as necessary).</li> </ul>	<p>Chapter 1 Figure 1-1A and 1-1B (Project Location)</p> <p>Chapter 5 Figure 5-1 (Site Layout)</p>
5.3	<b>Project Description</b>	
	The EIS shall describe the Project as it is planned to proceed including a general layout of the components of the mine site, the location of the transmission line corridor, access road upgrades, and any other supporting facilities.	Section 5.2 (Project Components)
	The EIS shall contain sufficient detail to be able to identify major mine components or structures which are likely to have a high failure consequence during operation and closure and where monitoring efforts will be required for the purposes of risk analysis.	Section 8.2.4 (Emergency Preparedness and Response and Contingency Planning)
	The description shall include a timeline for all phases of the Project and a discussion of all Project components. This information shall be provided in sufficient detail to allow the Proponent to predict potential effects and address concerns of interested parties.	Section 1.5 (Project Schedule)

**Table 1: Concordance between Canadian Environmental Assessment Agency’s Environmental Impact Statement Guidelines and the Hammond Reef Gold Project Environmental Impact Statement/Environmental Assessment Report (Continued)**

Environmental Impact Statement Guidelines		Section in EIS/EA Report
Section	Requirement	
5.3 (Continued)	The EIS shall include an expanded description of the phases of the Project, including site preparation, construction, operation, modification, decommissioning, closure and post-closure, as described in the Hammond Reef Gold Mine Project – Project Description (April 2011) and any subsequent Project updates.	Section 5.1 (Project Schedule and Phasing)
6.0	<b>Project Scoping</b>	
6.1	<b>Scope of the Project</b>	
	The scope of project shall include all components of the Project as proposed by the Proponent.	Section 2.2 (Definition of the Project)
6.2	<b>Factors to Be Considered</b>	
	The environmental assessment includes a consideration of the following factors listed in paragraphs 16(1)(a) to (d) and subsection 16(2) of the Act.	Section 2.2.2 (Scope of the Factors)
	As well, three additional factors are required pursuant to paragraph 16(1)(e) of the Act:	Section 1.3 (Need for and Purpose of the Project)
	■ The need for the project;	
	■ Alternatives to the project; and,	Chapter 4 (Assessment of Alternatives)
	■ Benefits to Canadians.	Chapter 11 (Economic and Social Benefits of the Project)
6.3	<b>Scope of the Factors</b>	
	A description of the boundaries of the proposed project in a regional context showing existing and planned future land use, Aboriginal traditional territories/treaty lands/Indian Reserves, current infrastructure and proposed improvements to these infrastructure, including transportation (all modes), power distribution corridors and lines, and urban areas, shall be provided.	Section 1.1 (Project Location)  Section 1.7 (Current Land Use)

**Table 1: Concordance between Canadian Environmental Assessment Agency’s Environmental Impact Statement Guidelines and the Hammond Reef Gold Project Environmental Impact Statement/Environmental Assessment Report (Continued)**

Environmental Impact Statement Guidelines		Section in EIS/EA Report
Section	Requirement	
6.3.1	<p><b>Determination of Valued Ecosystem Components (VECs)</b></p> <p>The Proponent shall describe how the VECs were selected and what methods were used to predict and assess the adverse environmental effects of the project on these components.</p> <p>The VECs that will be assessed in the EIS will be selected from the following environmental components or features:</p> <ul style="list-style-type: none"> <li>■ geology and geochemistry;</li> <li>■ atmospheric environment;</li> <li>■ acoustic environment;</li> <li>■ water quality and quantity, including surface and groundwater;</li> <li>■ fish and fish habitat, and aquatic ecosystems including benthos and sediment quality;</li> <li>■ terrain and soils;</li> <li>■ vegetation, including country food (e.g. wild game, berries, plants);</li> <li>■ wildlife and wildlife habitat; including avifauna, federally and provincially listed species at risk;</li> <li>■ socio-economic environment;</li> <li>■ current use of lands and resources for traditional purposes by Aboriginal persons;</li> <li>■ navigable waters;</li> <li>■ human health; and</li> <li>■ physical and cultural heritage.</li> </ul>	Section 2.5 (Selection of Valued Ecosystem Components)
6.3.2	<p><b>Spatial Boundaries</b></p> <p>Study boundaries shall be defined taking into account (where applicable) the spatial extent of potential environmental effects, traditional and local knowledge, current and proposed land use by Aboriginal groups, ecological, technical and social and cultural considerations.</p> <p>The EIS shall identify the proposed spatial study boundaries for the VEC groups outlined in section 6.3.1 and any others proposed by the Proponent.</p>	Section 2.2.2.2 (Spatial Boundaries)

**Table 1: Concordance between Canadian Environmental Assessment Agency’s Environmental Impact Statement Guidelines and the Hammond Reef Gold Project Environmental Impact Statement/Environmental Assessment Report (Continued)**

Environmental Impact Statement Guidelines		Section in EIS/EA Report
Section	Requirement	
6.3.3	<p><b>Temporal Boundaries</b></p> <p>The temporal boundaries of the project should span all phases of the project: construction, operation, foreseeable modifications, and where relevant, closure, decommissioning and restoration of the sites affected by the project.</p>	Section 2.2.2.1 (Temporal Boundaries)
7.0	<b>Project Alternatives</b>	
7.1	<p><b>Assessment of Alternatives and Selection of the Proposed Project</b></p> <p>The EIS shall include an analysis of alternative means of carrying out the Project that are technically and economically feasible and the environment effects of any alternatives means. Further, the EIS shall include a consideration of the alternatives to the Project.</p>	Chapter 4 (Assessment of Alternatives)
7.2	<p><b>Alternatives to the Project</b></p> <p>The EIS must include an analysis of alternatives to the project; describing functionally different ways to meet the project’s need and achieve the project’s purpose from the perspective of the proponent. The proponent will:</p> <ul style="list-style-type: none"> <li>■ identify the alternatives to the project that were considered;</li> </ul>	Section 4.1 (Alternatives to the Project)
	<ul style="list-style-type: none"> <li>■ develop criteria to identify the major environmental, economic and technical costs and benefits of the alternatives; and</li> </ul>	Section 4.1.1 (Proceeding with the Project)
	<ul style="list-style-type: none"> <li>■ identify the preferred alternatives to the project based on the relative consideration of the environmental, economic and technical costs and benefits.</li> </ul>	Section 4.1.3 (Selection of Preferred Alternative)
7.3	<p><b>Alternative Means of Carrying Out the Project</b></p> <p>The EIS shall identify and describe alternative means of carrying out the project that are technically and economically feasible (paragraph 16(2) (b) of the Act) and assess the environmental effects of any such alternative means.</p> <p>Any potentially adverse environmental impacts of the technically and economically feasible alternatives on potential or established Aboriginal and Treaty rights should also be identified.</p>	Section 4.2 (Alternative Means of Carrying Out the Project)
7.4	<p><b>Assessment of Alternatives for Mine Waste Disposal</b></p> <p>As per Section 7.3, the EIS shall also include an assessment of the alternative means of carrying out the Project, which includes the disposal of mine waste.</p>	Section 4.3 (Mine Waste Disposal Alternatives)

**Table 1: Concordance between Canadian Environmental Assessment Agency’s Environmental Impact Statement Guidelines and the Hammond Reef Gold Project Environmental Impact Statement/Environmental Assessment Report (Continued)**

Environmental Impact Statement Guidelines		Section in EIS/EA Report
Section	Requirement	
<b>8.0</b>	<b>Consultation</b>	
<b>8.1</b>	<b>Public Consultation</b>	
	For any consultations undertaken with the general public, the Proponent shall describe the ongoing and proposed consultations and information sessions with respect to the Project at the local, regional and provincial levels, where applicable.	Section 7.1 (Public Consultation)
	It shall provide a summary of discussions; indicate the methods used and their relevance; locations; the persons and organizations consulted; the concerns raised; the extent to which this information was incorporated in the design of the Project as well as in the EIS; and the resultant changes.	Section 7.1.2 (Consultation Activities)
	Moreover, the Proponent shall describe any outstanding issues and describe ways to address these outstanding issues. The Proponent shall also provide a description of efforts made to distribute project information and provide a description of information and materials that were distributed during the consultation process.	Section 7.1.5 (Outstanding Concerns from the Public)
<b>8.2</b>	<b>Government Agency Consultation</b>	
	Provide all relevant information as outlined in Section 8.1 above.	Section 7.2 (Government Consultation)
<b>8.3</b>	<b>Aboriginal Consultation</b>	
	The EIS shall include a summary of the consultations undertaken with Aboriginal people and groups prior to the submission of the EIS. The Proponent shall also explain the results of the EIS in a clear and direct manner to make the issues understandable to as wide an audience as possible.	Section 7.3.3 (Aboriginal Engagement Activities)
	For the purposes of facilitating federal Crown Consultations, the Proponent is required to describe in the EIS how the concerns respecting Aboriginal groups will be addressed.	Section 7.3.5 (OHRG’s Commitments and Responses)
		Section 7.3.6 (Ongoing Aboriginal Engagement)
	That description shall include a summary of discussions, the issues or concerns raised, and shall consider and describe any asserted or established Aboriginal and treaty rights.	Section 7.3.4 (Issues Identified through Aboriginal Engagement)

**Table 1: Concordance between Canadian Environmental Assessment Agency’s Environmental Impact Statement Guidelines and the Hammond Reef Gold Project Environmental Impact Statement/Environmental Assessment Report (Continued)**

Environmental Impact Statement Guidelines		Section in EIS/EA Report
Section	Requirement	
8.3 (Continued)	The EIS shall document the potential environmental effects of the Project on asserted or established Aboriginal and treaty rights, and the measures to prevent or mitigate those potential effects.	Section 6.3.2 (Aboriginal Interests)  Section 6.3.6 (Summary of Mitigation for the Social Environment)
	The EIS shall: <ul style="list-style-type: none"> <li>describe consultations undertaken prior to the submission of the EIS, the methods used and their rationales, perspectives and opinions expressed about the Project, issues raised and the ways in which the Proponent has responded to these issues;</li> </ul>	Section 7.3.3 (Aboriginal Engagement Activities)  Section 7.3.4 (Issues Identified through Aboriginal Engagement)  Section 7.3.5 (OHRG’s Commitments and Responses)
	<ul style="list-style-type: none"> <li>and outline a proposal for a consultation process with Aboriginal groups which the Proponent, intends to carry out for the purposes of the review of the EIS.</li> </ul>	Section 7.3.6 (Ongoing Aboriginal Engagement)
	The Proponent shall consult with Aboriginal groups in accordance with the consultation process outlined in the EIS. A summary of the completed, ongoing and future consultation with Aboriginal people and groups shall be provided. This summary shall include information from each group respecting concerns related to the project and which asserted or established Aboriginal and treaty rights are potentially affected by the Project and how such rights may be affected. It shall also include a description of how the concerns of groups and/or potential impacts to asserted or established Aboriginal and treaty rights have been considered and/or addressed. There shall also be a summary of any outstanding issues that remain.	Section 7.3.3 (Aboriginal Engagement Activities)  Section 7.3.4 (Issues Identified through Aboriginal Engagement)  Section 7.3.5 (OHRG’s Commitments and Responses)  Section 7.3.6 (Ongoing Aboriginal Engagement)
	The EIS shall include a list and discussion of key issues identified throughout the engagement and consultation activities with Aboriginal groups. Information on each issue shall be included in a Table of Concordance which in turn shall clearly indicate which section of the EIS includes a discussion of the issue.	Chapter 7, Table 7-14 (Aboriginal Community Concern Concordance Table)

**Table 1: Concordance between Canadian Environmental Assessment Agency’s Environmental Impact Statement Guidelines and the Hammond Reef Gold Project Environmental Impact Statement/Environmental Assessment Report (Continued)**

Environmental Impact Statement Guidelines		Section in EIS/EA Report
Section	Requirement	
8.3.1	<b>Aboriginal Traditional Knowledge</b>	Section 7.3.5.1 (Social and Cultural Commitments)
	The EIS shall describe where and how Aboriginal traditional knowledge is incorporated into the assessment, including in effects prediction, and determining mitigation measures. Where Aboriginal traditional knowledge is not available or not provided in a timely manner the EIS shall describe efforts taken to obtain it.	
9.0	<b>Existing Environment</b>	Chapter 3 (Existing Conditions)
	The EIS shall provide a baseline description of the environment, including the components of the existing environment and environmental processes, their interrelations and interactions as well as the variability in these components, processes and interactions over time scales appropriate to this EIS.	
	The EIS shall compare baseline data, in areas on which the assessment will focus, with applicable federal, provincial, municipal or other legislative requirements, standards, guidelines or objectives.	
	The baseline description shall include those VECs, processes and interactions that are likely to be affected by the Project. The Proponent shall also describe the nature and sensitivity of the area within and surrounding the Project. The Proponent shall also indicate the specific geographical areas or ecosystems that are of particular concern, and their relation to the broader regional environment and economy. Relevant information about the VECs is to be presented graphically to document physical and biological (e.g., home range) characteristics.	
9.1	<b>Physical and Biological Environment</b>	
9.1.1	<b>Geology and Geochemistry</b>	Section 3.2.1 (Regional Geology)  Section 3.2.2 (Geology)
	The EIS shall provide the following:  <ul style="list-style-type: none"> <li>■ a discussion of the soils, surficial and bedrock geology of the deposit which includes geological maps and cross-sections. Where appropriate, the following geologic parameters shall be included:</li> </ul>	

**Table 1: Concordance between Canadian Environmental Assessment Agency’s Environmental Impact Statement Guidelines and the Hammond Reef Gold Project Environmental Impact Statement/Environmental Assessment Report (Continued)**

Environmental Impact Statement Guidelines		Section in EIS/EA Report
Section	Requirement	
9.1.1 (Continued)	<ul style="list-style-type: none"> <li>representative lithologic descriptions including age, colour, grain size, mineralogy, physical strength, hardness, weathering characteristics, depositional setting and correlations;</li> </ul>	<p>Section 3.2.2 (Geology)</p> <p>Section 2.0 of the Geochemistry, Geology and Soils TSD</p> <p>Appendix A of the Geochemistry, Geology and Soils TSD</p> <p>Appendix 2.IV of the Geochemistry, Geology and Soils TSD</p> <p>Appendix 1.IV of the EIS/EA report - IR EC 21</p>
	<ul style="list-style-type: none"> <li>spatial distribution and thickness of lithologic units, or links to vegetation and landforms;</li> </ul>	<p>Section 3.2.4.3 (Results –Terrain and Soil)</p> <p>Figure 3-6 (Terrain Map Units)</p> <p>Figure 3-7 (Soil Map Units )</p> <p>Section 3.2.7.3 (Results – Hydrogeology)</p>
	<ul style="list-style-type: none"> <li>alteration styles, mineralogy, occurrence and intensity;</li> </ul>	<p>Section 3.2.2 (Geology)</p> <p>Geochemistry, Geology and Soils TSD</p>
	<ul style="list-style-type: none"> <li>structural fabric (e.g. fractures, faults, foliation and lineations, etc.) and structural relationships;</li> </ul>	<p>Section 3.2.7.3 (Results – Hydrogeology)</p>

**Table 1: Concordance between Canadian Environmental Assessment Agency’s Environmental Impact Statement Guidelines and the Hammond Reef Gold Project Environmental Impact Statement/Environmental Assessment Report (Continued)**

Environmental Impact Statement Guidelines		Section in EIS/EA Report
Section	Requirement	
9.1.1 (Continued)	<ul style="list-style-type: none"> <li>■ history of seismic activity in the area;</li> </ul>	Section 3.2.2.3.2 (Seismic Activity)
	<ul style="list-style-type: none"> <li>■ ore mineralogy, including sulphide types, abundance, mode of occurrence, extent of previous oxidation and an estimate of relative sulphide reactivity;</li> </ul>	Section 3.2.3.3 (Results – Geochemistry)
		Geochemistry, Geology and Soils TSD
	<ul style="list-style-type: none"> <li>■ type and grade of metamorphism; and</li> </ul>	Section 3.2.2 (Geology)
		Geochemistry, Geology and Soils TSD
	<ul style="list-style-type: none"> <li>■ regional geologic framework including tectonic belt, terrain, regional metamorphism and structure.</li> </ul>	Section 3.2.1 (Regional Geology)
	<ul style="list-style-type: none"> <li>■ delineate the regional and local geological structures in the Project area that may affect the proposed infrastructure, and show their potential effect on the proposed infrastructure as well as links to ARD/ML mitigation geochemistry. This includes major structural features, as well as lesser local structures.</li> </ul>	Section 3.2.2 (Geology)
		Section 3.2.3.3 (Results –Geochemistry)
9.1.2	<b>Atmospheric Environment</b>	
	The EIS shall describe the climate and meteorological conditions at the site, local and regional study areas. Any off-site data used in the description shall be thoroughly discussed, including an analysis of how representative data is of conditions at the Project site.	Section 3.2.5.1 (Climate)
	The EIS shall also provide a description of seasonal variations in weather conditions within the above-noted study areas, to allow the assessment of effects on the Project.	Chapter 3 Tables 3-11 and 3-12 (Monthly and Seasonal Temperature Normals)
	The influence of regional topography or other features that could affect weather conditions in the study areas shall be described.	Section 3.2.5.1 (Climate)
9.1.3	<b>Acoustic Environment</b>	
	The EIS shall describe current ambient noise levels at the site and in the local study areas, and include information on its source(s), geographic extent and temporal variations.	Section 3.2.5.3 (Noise)

**Table 1: Concordance between Canadian Environmental Assessment Agency’s Environmental Impact Statement Guidelines and the Hammond Reef Gold Project Environmental Impact Statement/Environmental Assessment Report (Continued)**

Environmental Impact Statement Guidelines		Section in EIS/EA Report
Section	Requirement	
9.1.4	<p><b>Water Quality and Quantity</b></p> <p><b>Surface Water</b> The EIS shall describe surface water quality and hydrology at the site, local and regional study areas. Where appropriate, maps and figures shall be provided. The description shall include:</p> <ul style="list-style-type: none"> <li>■ delineation of drainage basins at the appropriate scales;</li> </ul>	<p>Chapter 3 (Study Areas)</p> <p>Hydrology TSD, Section 2.1.2 to 2.1.4 (Regional Watersheds; Local Watersheds; Site Watersheds)</p>
	<ul style="list-style-type: none"> <li>■ a description of hydrological data such as water levels and flow rates collected during baselines studies, supplemented by relevant data, as available and appropriate, from other sources;</li> </ul>	<p>Section 3.2.6.2 (Methods)</p> <p>Hydrology TSD, Section 3.1.1.1 (Secondary Data Review)</p> <p>Hydrology TSD, Section 4.2.1 (Methods)</p> <p>Hydrology TSD, Section 5.1.1 (Methods)</p> <p>Hydrology TSD, Section 6.1.1 (Methods)</p>

**Table 1: Concordance between Canadian Environmental Assessment Agency’s Environmental Impact Statement Guidelines and the Hammond Reef Gold Project Environmental Impact Statement/Environmental Assessment Report (Continued)**

Environmental Impact Statement Guidelines		Section in EIS/EA Report
Section	Requirement	
9.1.4 (Continued)	<ul style="list-style-type: none"> <li>a description of hydrological regimes, including monthly, seasonal fluctuations and year-to-year variability of all surface waters and assess normal flow, flooding, and drought properties of lakes and streams;</li> </ul>	Chapter 3 Section 3.2.6.3 (Results)  Hydrology TSD, Section 4.2.1.2 (Secondary Data Review Results)  Hydrology TSD, Section 5.1.2 (Results)  Hydrology TSD, Section 6.1.2 (Results)
	<ul style="list-style-type: none"> <li>a description of the interactions between surface water and groundwater flow systems;</li> </ul>	Section 3.2.7.3 ([Hydrogeology] Results)
	<ul style="list-style-type: none"> <li>a description of all surface water sources used for drinking water in the area;</li> </ul>	Hydrology TSD Section 4.2.1.2.8 (Surface Water – Groundwater Interactions)
	<ul style="list-style-type: none"> <li>a description of water quality sampling protocols and analytical methods and the quality assurance/quality control program followed;</li> </ul>	Section 3.2.8.2 (Methods)  Water and Sediment Quality TSD Section 2.0 (Methods)
	<ul style="list-style-type: none"> <li>a summary of the collected surface water quality data compared to the relevant criteria; and</li> </ul>	Chapter 3 Table 3-27 and 3-28 (Baseline Water Quality Results)
	<ul style="list-style-type: none"> <li>a description of existing downstream water users and agreements in place under the International Joint Commission.</li> </ul>	Section 3.3.3.13 (Water Use and Access)

**Table 1: Concordance between Canadian Environmental Assessment Agency’s Environmental Impact Statement Guidelines and the Hammond Reef Gold Project Environmental Impact Statement/Environmental Assessment Report (Continued)**

Environmental Impact Statement Guidelines		Section in EIS/EA Report
Section	Requirement	
9.1.4 (Continued)	<b>Groundwater</b> This section of the EIS shall describe hydrogeology at the site, local and regional study areas.	Section 3.2.7 (Hydrogeology)
	The description shall characterize the physical and geochemical properties of hydrogeological units such as aquitards and aquifers, delineate regional and local groundwater flow patterns, identify recharge and discharge areas, and identify groundwater interaction with surface waters.	Chapter 3 Figures 3-20 to 3-22 (Groundwater Elevations and Flow Directions)  Section 3.2.7.3 (Results – Hydrogeology)
	The EIS should also provide a description of baseline ground water quality at the site and local study area and include: <ul style="list-style-type: none"> <li>an inventory and analysis of information on the groundwater resource in the area;</li> </ul>	Section 3.2.7.3 ([Hydrogeology] Results)
	<ul style="list-style-type: none"> <li>any published reports, geologic maps, well record data and quality assurance/quality control (QA/QC) procedures;</li> </ul>	Section 3.2.7.2 (Hydrogeology Methods)
	<ul style="list-style-type: none"> <li>a description of any local and regional potable groundwater supplies, including their current use and potential for future use;</li> </ul>	Section 3.2.7.3 ([Hydrogeology] Results)
	<ul style="list-style-type: none"> <li>maps showing groundwater divides and spring discharges, with Project facilities overlain;</li> </ul>	Chapter 3 Figure 3-22 (Groundwater Elevations and Inferred Flow Directions)  Figure 3-24 (Groundwater Seepage and Discharge)
	<ul style="list-style-type: none"> <li>a review of the physical geography and the geology of the area as it pertains to local and regional groundwater flow systems and aquifer/aquitard systems in the mine area;</li> </ul>	Section 3.2.7.3 ([Hydrogeology] Results)
<ul style="list-style-type: none"> <li>and hydrogeologic maps and cross-sections for the mine area to outline the extent of aquifers, including fracture zones of bedrock, locations of wells, springs, potentiometric contours, and flow direction.</li> </ul>	Chapter 3 Figures 3-18 and 3-19 (Monitoring Well Locations)  Hydrogeology TSD Section 2.0 (Groundwater Quantity)	

**Table 1: Concordance between Canadian Environmental Assessment Agency’s Environmental Impact Statement Guidelines and the Hammond Reef Gold Project Environmental Impact Statement/Environmental Assessment Report (Continued)**

Environmental Impact Statement Guidelines		Section in EIS/EA Report
Section	Requirement	
9.1.4 (Continued)	<p><b>Benthic Invertebrates</b> The description of the existing aquatic environment shall include information on benthic invertebrate communities, including sediment quality, characterization of the community diversity and abundance.</p>	<p>Section 3.2.6.12 (Sediment Quality)</p> <p>Section 3.2.7 (Aquatic Environment)</p>
9.1.5	<p><b>Fish and Fish Habitat</b> The EIS shall include: Scientifically defensible baseline data that characterizes fish habitat, fish habitat use and fish community, within each waterbody and their inter-connecting channel(s) in the context of the local and regional sub-watershed areas. This should include, as appropriate to the circumstances:</p>	<p>Section 3.2.9 (Aquatic Environment)</p>
	<ul style="list-style-type: none"> <li>■ the characterization of fish habitat use as spawning, rearing/nursery, feeding, migratory corridor and over wintering/summer refuge,</li> </ul>	<p>Section 3.2.9.3.1 (Aquatic Habitats)</p>
	<ul style="list-style-type: none"> <li>■ a quantification of habitat by watercourse reach and/or type within the local watershed, including measures such as direction of flow, length of stream, surface area and/or mean bank full width, depths, monthly/seasonal/annual discharge volumes/velocities and natural or anthropogenic barriers to fish passage,</li> </ul>	
	<ul style="list-style-type: none"> <li>■ for each potentially affected lake, measures of; total surface area, water elevation above mean sea level, shoal area, surface area of submerged and emergent aquatic vegetation, maximum and mean depths and water quality parameters (e.g., profiles of water temperature, turbidity, pH, dissolved oxygen),</li> </ul>	
	<ul style="list-style-type: none"> <li>■ distribution, abundance and characterization of fish by species and life stages;</li> </ul>	<p>Section 3.2.9.3.2 (Fish Species)</p>
	<ul style="list-style-type: none"> <li>■ characterization of existing metal levels in fish tissue in areas that may be impacted by effluent or seepage from the mine; and</li> </ul>	<p>Section 3.2.9.3.4 (Fish Tissue Analysis)</p>
	<ul style="list-style-type: none"> <li>■ the results of fish and fish habitat surveys along existing roads and the transmission line right of way.</li> </ul>	<p>Section 3.2.9.3.1 (Aquatic Habitats)</p> <p>Section 3.2.9.3.2 (Fish Species)</p>

**Table 1: Concordance between Canadian Environmental Assessment Agency’s Environmental Impact Statement Guidelines and the Hammond Reef Gold Project Environmental Impact Statement/Environmental Assessment Report (Continued)**

Environmental Impact Statement Guidelines		Section in EIS/EA Report
Section	Requirement	
9.1.6	<b>Terrain and Soil</b>	
	The EIS shall include: <ul style="list-style-type: none"> <li>■ baseline mapping and description of landforms and landform processes and soils within the local and regional Project area, including the transmission line corridor, to support the effects assessment for all terrestrial disciplines;</li> </ul>	Section 3.2.4.3 ([Terrain and Soil] Results)
	<ul style="list-style-type: none"> <li>■ map soil depth by horizon within the mine site area to support soil salvage and reclamation efforts;</li> </ul>	Chapter 3 Table 3-8 (Soil Map Units)  Chapter 3 Figure 3-7 (Soil Map Units)
	<ul style="list-style-type: none"> <li>■ details of soil sample analysis completed and the quality assurance/quality control program followed; and</li> </ul>	Section 3.2.4.2 (Methods -Terrain and Soil)
	<ul style="list-style-type: none"> <li>■ summarize baseline data on the concentration of trace elements in site soils prior to Project development.</li> </ul>	Table 3-10 (Soil Chemistry Results)
9.1.7	<b>Vegetation</b> The EIS shall characterize the baseline vegetative communities within the area potentially affected by the Project. In particular, the EIS shall include information on the following key communities, species groups or ecosystems that have intrinsic ecological or social value: <ul style="list-style-type: none"> <li>■ forests;</li> <li>■ wetland ecosystems;</li> <li>■ riparian ecosystems;</li> <li>■ and plant species and ecological communities of conservation concern.</li> </ul>	Section 3.2.10.3 (Results – Vegetation)

**Table 1: Concordance between Canadian Environmental Assessment Agency’s Environmental Impact Statement Guidelines and the Hammond Reef Gold Project Environmental Impact Statement/Environmental Assessment Report (Continued)**

Environmental Impact Statement Guidelines		Section in EIS/EA Report
Section	Requirement	
9.1.8	<b>Wildlife</b> The EIS shall describe and identify:	Section 3.2.10.4 (Results - Avifauna)
	<ul style="list-style-type: none"> <li>■ the terrestrial species and their habitat at the site and within the local and regional study areas;</li> </ul>	Section 3.2.10.5 (Results - Mammals)
		Section 3.2.10.6 (Results - Amphibians and Reptiles)
		Section 3.2.10.7 (Results - Invertebrates)
	<ul style="list-style-type: none"> <li>■ any wildlife corridors and physical barriers to movement that exist within the Project area;</li> </ul>	Section 3.2.10.8 (Results - Wildlife Corridors)
	<ul style="list-style-type: none"> <li>■ available data from Environment Canada and Ontario Ministry of Natural Resources.</li> </ul>	Section 3.2.10.2 (Methods)
	<ul style="list-style-type: none"> <li>■ all protected and conservation areas established by federal, provincial and municipal jurisdictions (e.g., wilderness areas, parks, sites of historical or ecological significance, nature reserves, federal migratory bird sanctuaries and wildlife management areas).</li> </ul>	Chapter 3 Figure 3-52 (Recreation in the Study Area)
	The EIS shall also provide the following information on:	Section 3.2.10.5 (Results – Mammals)
	<ul style="list-style-type: none"> <li>■ the level of use of the mine site area by large carnivores such as black bears and wolves;</li> </ul>	
	<ul style="list-style-type: none"> <li>■ furbearer and small mammal species known and potentially occurring in the proposed mine development area.</li> </ul>	
<ul style="list-style-type: none"> <li>■ raptors and raptor habitat in the proposed mine site area, and their abundance.</li> </ul>	Section 3.2.10.4 (Results - Avifauna)	
<ul style="list-style-type: none"> <li>■ the relative abundance, distribution and density of migratory birds, including:</li> </ul>		
<ul style="list-style-type: none"> <li>■ breeding, migration, staging and stopover as well as wintering populations; and</li> </ul>		
<ul style="list-style-type: none"> <li>■ available data from Environment Canada and Ontario Ministry of Natural Resources.</li> </ul>	Section 3.10.2 (Methods)	

**Table 1: Concordance between Canadian Environmental Assessment Agency’s Environmental Impact Statement Guidelines and the Hammond Reef Gold Project Environmental Impact Statement/Environmental Assessment Report (Continued)**

Environmental Impact Statement Guidelines		Section in EIS/EA Report
Section	Requirement	
9.1.8 (Continued)	The results of wildlife surveys conducted during the seasons and during times of day which facilitate detection of the target species or species groups will be summarized in the EIS (with further detail provided in accompanying appendices). The following shall be provided:	Section 3.2.10.4 (Results - Avifauna)
	<ul style="list-style-type: none"> <li>■ identification of species of conservation concern that may occur in potential habitats in the Project area during critical life stages (e.g., breeding, nesting, over-wintering and hibernating) will be identified;</li> </ul>	Chapter 3 Figure 3-42 (Species at Risk Observations)
	<ul style="list-style-type: none"> <li>■ the relative abundance, distribution and habitat use of wildlife species of conservation concern, including detailed description of the methodology (survey description, timing, etc.) for each species of conservation concern identified;</li> </ul>	
	<ul style="list-style-type: none"> <li>■ identification of ungulate species occurring in the proposed mine development area and along the transmission corridor; and</li> </ul>	Section 3.2.10.5 (Results - Mammals)
	<ul style="list-style-type: none"> <li>■ results of the results of reconnaissance amphibian and amphibian habitat inventory.</li> </ul>	Section 3.2.10.6 (Results - Amphibians and Reptiles)
<p><b>Species at Risk</b></p> <p>The EIS shall describe and identify any biological species of conservation status at a federal, provincial, regional or local level and their critical habitats, as outlined in the sections above. The results of wildlife surveys conducted during the seasons and during times of day which facilitate detection of the target species or species groups will be summarized in the EIS (with further detail provided in accompanying appendices).</p>	Section 3.2.10.4 (Results - Avifauna)	
		Chapter 3 Figure 3-42 (Species at Risk Observations)

**Table 1: Concordance between Canadian Environmental Assessment Agency’s Environmental Impact Statement Guidelines and the Hammond Reef Gold Project Environmental Impact Statement/Environmental Assessment Report (Continued)**

Environmental Impact Statement Guidelines		Section in EIS/EA Report
Section	Requirement	
9.2	<b>Socio-economic Environment</b>	
9.2.1	<b>Aboriginal Interest and Land and Resource Use</b>	
	<p>The EIS shall describe land use in the local and regional study areas. The Proponent shall identify past, current and any known planned land use(s) of the study areas or beyond, that may be impacted by the Project.</p> <p>Non-aboriginal activities should also be described and considered as outlined below if any exist within the study area.</p>	<p>Section 3.5.3 (Results – Aboriginal Setting)</p> <p>Section 3.5.4 (Results – Aboriginal Valued Ecosystem Components)</p>
	<b>Aboriginal Interest and Current Use of Lands and Resources by Aboriginal Persons</b> Traditional activities carried out by Aboriginal groups shall be described.	
	<p>The EIS shall include:</p> <ul style="list-style-type: none"> <li>■ An identification of the lands, waters and resources of specific social, economic, archaeological, cultural or spiritual value to Aboriginal people, in relation to asserted and established Aboriginal and treaty rights on which adverse environmental effects could occur.</li> </ul>	
	<ul style="list-style-type: none"> <li>■ Where available, information concerning traditional activities, including activities for food, social, ceremonial and other cultural purposes, in relation to such lands, waters and resources with a focus on the current use of lands, waters and resources for traditional purposes.</li> </ul>	Section 3.5.4 (Results – Aboriginal Valued Ecosystem Components)
	<ul style="list-style-type: none"> <li>■ Traditional land use may include areas where traditional activities such as camping, travel on traditional routes and gathering of country foods (hunting, fishing, trapping, planting and harvesting) are conducted. Spiritual sites should also be considered as a traditional use activity of importance to Aboriginal people.</li> </ul>	
	<b>Fishing</b> The EIS shall describe the commercial, recreational and subsistence, lake and stream fisheries that may be affected by the Project, including water body use and the importance of the water body in a regional and provincial context.	<p>Section 3.5.4.3 (Traditional Land Use)</p> <p>Section 3.3.3.12 (Land and Resource Use)</p>
	<b>Outdoor Recreation and Tourism</b> The EIS shall estimate the current access and demand for the recreational and tourism industry (e.g., fishing, hiking, parks, kayaking and cottages) within the study areas. Commercial recreation tenures and activities located in the Project area shall be identified.	

**Table 1: Concordance between Canadian Environmental Assessment Agency’s Environmental Impact Statement Guidelines and the Hammond Reef Gold Project Environmental Impact Statement/Environmental Assessment Report (Continued)**

Environmental Impact Statement Guidelines		Section in EIS/EA Report
Section	Requirement	
9.2.1 (Continued)	<p><b>Hunting, Trapping and Guiding</b></p> <p>Where data are publicly available or available through traditional knowledge studies, estimates of the current and projected value of the hunting, trapping and guiding industry for the study areas shall be provided. The number of trapping and guiding territories in the Project area shall be provided.</p>	
9.2.2	<p><b>Navigable Waters</b></p> <p>The EIS must identify all waterways and water bodies that will be directly and/or indirectly affected by components of the Project, including representative width, depth, gradient, and flow. Photographs taken upstream, downstream and across all potentially affected waterways shall be included in the EIS.</p>	<p>Section 3.2.6.3 (Results - Hydrology)</p> <p>Chapter 3 Table 3-24 (Navigable Watercourses and Water Bodies)</p>
	<p>Any known navigational use of the watercourse or water body shall be identified. The EIS shall provide information on current and/or historic usage of all waterways and water bodies that will be directly and/or indirectly affected by the Project development plan, including current Aboriginal uses, where available.</p>	<p>Hydrology TSD Section 7.0 (Navigability)</p> <p>Hydrology TSD Appendix 2.1.1 (Watercourse Survey Sheets)</p>
9.3	<p><b>Human Health</b></p> <p>The Proponent shall use a broad definition of human health in describing the aspects of human health. The Proponent is encouraged to include all baseline information relevant to human health in one section of the EIS.</p>	<p>Human Health and Ecological Risk Assessment TSD</p>
		<p>Section 3 (Existing Conditions)</p>
9.4	<p><b>Physical and Cultural Heritage Resources</b></p> <p>The EIS shall identify any terrestrial and aquatic areas containing features of historical, archaeological, paleontological, architectural or cultural importance. A description of the nature of the features located in those areas shall be provided.</p>	<p>Section 3.4.3 (Results - Physical and Cultural Heritage Resources)</p>

**Table 1: Concordance between Canadian Environmental Assessment Agency’s Environmental Impact Statement Guidelines and the Hammond Reef Gold Project Environmental Impact Statement/Environmental Assessment Report (Continued)**

Environmental Impact Statement Guidelines		Section in EIS/EA Report
Section	Requirement	
<b>10.0</b>	<b>Environmental Effects Assessment</b>	
<b>10.1</b>	<b>Assessment Methodology</b>	
	Potential effects from all components of the project shall be discussed. The Proponent shall indicate the Project’s effects during construction, operation, foreseeable modifications, decommissioning, closure and post-closure of sites and facilities associated with the Project, and describe these effects using appropriate criteria.	Chapter 6 (Effects Assessment)
<b>10.1.1</b>	<b>Risk Assessment Framework</b>	
	Where appropriate, the Proponent is expected to employ standard ecological risk assessment frameworks that categorize the levels of detail and quality of the data required for the assessment.	Section 2.6.2.3 (Risk Assessment Framework)
<b>10.1.2</b>	<b>Impact Matrix</b>	
	An impact matrix methodology in combination with identification of VECs should be used to evaluate various social and environmental effects of the proposed project, as well as the impact of environmental effects on asserted and established Aboriginal and treaty rights. The assessment should include the following general steps:	Chapter 2 Tables 2-4 to 2-10 (Assessment Measures, Assessment Criteria, and Magnitude Levels)
	■ identification of the activities and components of the project;	Chapter 6 Tables 6-55 to 6-58 (Environmental Impacts Assessment Matrices)
	■ predicting/evaluating the likely environmental effects on identified valued ecosystem components;	
	■ identification of technically and economically feasible mitigation measures for any significant adverse environmental effects;	
	■ determination of any residual environmental effects;	
	■ ranking of each residual adverse environmental effect	
	■ based on various criteria; and	
	■ determination of the potential significance of any residual environmental effect following the implementation of mitigation.	

**Table 1: Concordance between Canadian Environmental Assessment Agency’s Environmental Impact Statement Guidelines and the Hammond Reef Gold Project Environmental Impact Statement/Environmental Assessment Report (Continued)**

Environmental Impact Statement Guidelines		Section in EIS/EA Report
Section	Requirement	
10.1.3	<b>Mitigation Measures</b>	
	The Proponent shall describe the standard mitigation practices, policies and commitments that constitute technically and economically feasible mitigation measures and that will be applied as part of standard practice regardless of location.	Section 5.5 (In-design Mitigation Measures)  Section 6.1.5 (Mitigation Measures for the Physical Environment)  Section 6.2.4 (Summary of Mitigation for the Biological Environment)
	As well, the Proponent shall describe its commitments, policies and arrangements directed at promoting beneficial or mitigating adverse socioeconomic effects. The Proponent shall discuss the mechanisms it would use to require its contractors and sub-contractors to comply with these commitments and policies and with auditing and enforcement programs.	Chapter 9 (Commitments Registry)  Chapter 8 Section 8.1.2.4 (Osisko Hammond Reef Gold Ltd.)
	The EIS shall specify the actions, works, minimal disturbance footprint techniques, best available technology, corrective measures or additions planned during the project’s various phases (construction, operation, modification, decommissioning, post-closure or other undertaking related to the project) to eliminate or reduce the significance of adverse effects. The impact statement shall also present an assessment of the effectiveness of the proposed technically and economically feasible mitigation measures. The reasons for determining if the mitigation measure reduces the significance of an adverse effect shall be made explicit.	Section 5.5 (In-design Mitigation Measures)  Chapter 8 Table 8-2 (Environmental Management Planning – Physical Environment)  Chapter 8 Table 8-8 (Environmental Management Planning – Biological Environment)

**Table 1: Concordance between Canadian Environmental Assessment Agency’s Environmental Impact Statement Guidelines and the Hammond Reef Gold Project Environmental Impact Statement/Environmental Assessment Report (Continued)**

Environmental Impact Statement Guidelines		Section in EIS/EA Report
Section	Requirement	
10.1.3 (Continued)	The Proponent shall indicate what other technically and economically feasible mitigation measures were considered, including the various components of mitigation, and explain why they were rejected. Trade-offs between cost savings and effectiveness of the various forms of mitigation shall be justified. The Proponent shall identify who is responsible for the implementation of these measures and the system of accountability.	Chapter 4 (Assessment of Alternatives)  Chapter 8 (Environmental and Social Management Planning)  Section 8.1.2 (Roles and Responsibilities)  Chapter 9 (Commitments)
	With respect to the fish population, fish habitat, the productive capacity of lakes and the fishery they support, the EIS shall include a conceptual fish and fish habitat compensation plan. It is expected that this proposed plan will undergo Aboriginal, public and regulatory agency scrutiny and review before being finalized and implemented.	Section 6.2.4 (Summary of Mitigation for the Biological Environment)  Section 8.2.3.2.1 (Final No Net Loss Plan)  Aquatic Environment TSD Section 3.8 (Additional Project Mitigation and Compensation Measures and Conceptual No Net Loss Plan)  Aquatic Environment TSD (Version 2) - Part B (Fish Habitat No Net Loss / Habitat Offset Plan)  Chapter 9 (Commitments – No. 29)
	For species at risk defined by the federal Species at Risk Act, pursuant to subsection 79(1) of that Act, RAs under the Canadian Environmental Assessment Act shall notify the appropriate federal Minister if any listed wildlife species, its critical habitat or the residences of individuals of that species may be adversely impacted by the Project. Pursuant to subsection 79(2) of the Species at Risk Act, if the Project is carried out, RAs shall also ensure that measures are taken to avoid or lessen those effects and to monitor them; these measures shall be taken in a way that is consistent with any applicable recovery strategy and action plans.	Chapter 8 Table 8-9 (Monitoring program – Terrestrial Ecology)  Table 8-8 (Environmental Management Planning – Biological Environment)

**Table 1: Concordance between Canadian Environmental Assessment Agency’s Environmental Impact Statement Guidelines and the Hammond Reef Gold Project Environmental Impact Statement/Environmental Assessment Report (Continued)**

Environmental Impact Statement Guidelines		Section in EIS/EA Report
Section	Requirement	
10.1.3 (Continued)	In addition, the Proponent shall identify the extent to which technology innovations will help mitigate environmental effects. Where possible, it shall provide detailed information on the nature of these measures, their implementation, and their management and on whether follow-up will be required.	Chapter 8 Table 8-2 (Environmental Management Planning – Physical Environment)  Table 8-8 (Environmental Management Planning – Biological Environment)
10.1.4	<b>Residual Effects</b> The EIS shall include a summary (see Section 10.9) of the project’s residual effects so that the reader clearly understands the real consequences of the project, the degree to which effects can be mitigated and which effects cannot be mitigated or compensated.	Section 6.4 (Residual Effects Assessment)
10.1.5	<b>Determination of the Significance of Residual Effects</b> The EIS shall identify the criteria used to assign significance ratings to any predicted adverse effects. The EIS shall contain a detailed analysis of the significance of the potential residual adverse environmental effects it predicts.	Chapter 2 Table 2-9 (Assessment Criteria and Levels for Determining Significance)  Chapter 6 Section 6.4 (Residual Effects Assessment)
	The Proponent shall provide a summary of the regional, provincial, Aboriginal or national objectives, standards or guidelines that have been used to assist in the evaluation of the significance of environmental effect.	Chapter 1 Section 1.10.17 (Relevant Government Policies and Guidelines)  Section 1.10.8 (Aboriginal Policies and Guidelines)
	If significant adverse effects are identified, the Proponent shall determine the probability (likelihood) that they will occur. The Proponent shall also address the degree of scientific uncertainty related to the data and methods used within the framework of its environmental analysis.	Section 6.4 (Residual Effects Assessment)

**Table 1: Concordance between Canadian Environmental Assessment Agency’s Environmental Impact Statement Guidelines and the Hammond Reef Gold Project Environmental Impact Statement/Environmental Assessment Report (Continued)**

Environmental Impact Statement Guidelines		Section in EIS/EA Report
Section	Requirement	
10.1.5 (Continued)	The EIS shall clearly explain the method and definitions used to describe the level of the adverse effect (e.g. low, moderate, high) for each of the above categories and how these levels were combined to produce an overall conclusion on the significance of adverse effects for each VEC. This method shall be transparent and reproducible.	Chapter 2 Tables 2-5 to 2-8 (Magnitude Levels)
10.1.6	<b>Summary of Effects Assessment</b>	
	For all key valued ecosystem components that were assessed, the Proponent shall provide in a table format, a summary of the following key information: <ul style="list-style-type: none"> <li>■ a concise summary of the Project’s effects;</li> </ul>	Chapter 6 Tables 6-55 to 6-58 (Environmental Impacts Assessment Matrices)  Table 6-64 (Summary of Predicted Environmental Effects)
	<ul style="list-style-type: none"> <li>■ a summary of mitigation and compensation measures;</li> </ul>	Section 5.5 (In-design Mitigation Measures)  Section 6.1.5 (Mitigation Measures for the Physical Environment)  Section 6.2.4 (Mitigation Measures for the Biological Environment)  Section 6.3.6 (Mitigation Measures for the Social Environment)
	<ul style="list-style-type: none"> <li>■ a brief description of any potential residual effects;</li> </ul>	Section 6.4 (Residual Effects Assessment)  Section 6.4 Tables 6-55 to 6-60
<ul style="list-style-type: none"> <li>■ a brief description of cumulative effects; and</li> </ul>	Chapter 6 Section 6.8 (Cumulative Effects)  Table 6-65 (Cumulative Effects)	

**Table 1: Concordance between Canadian Environmental Assessment Agency’s Environmental Impact Statement Guidelines and the Hammond Reef Gold Project Environmental Impact Statement/Environmental Assessment Report (Continued)**

Environmental Impact Statement Guidelines		Section in EIS/EA Report
Section	Requirement	
10.1.6 (Continued)	<ul style="list-style-type: none"> <li>■ a determination of the significance of residual effects.</li> </ul>	Chapter 6 Tables 6-55 to 6-57 (Environmental Impacts Assessment Matrices)
10.2	<b>Physical and Biological Environment</b>	
10.2.1	<b>Atmospheric Environment</b>	
	<p><b>Criteria Air Contaminants</b> The EIS shall identify potential effects on air quality associated with all Project phases, including point and mobile sources. The analysis shall include the following:</p> <ul style="list-style-type: none"> <li>■ an assessment of emissions and short-term air quality impacts from site preparation and construction-related activities;</li> </ul>	Section 6.1.2.1 (Air Quality)  Chapter 6 Table 6-9 (Comparison of Mobile Emissions Sources in Construction and Operations Phases)
	<ul style="list-style-type: none"> <li>■ a prioritized list of significant sources of fugitive dust emissions from the transportation of ore, mine rock and overburden; and</li> </ul>	Chapter 6 Table 6-7 (Activities and Compounds Released for the Mine Site)  Atmospheric TSD Appendix 3.1 Emissions
	<ul style="list-style-type: none"> <li>■ a source emissions inventory table for the mine site describing the source, operating period, pollution control equipment if any, stack dimensions (if available), contaminants and predicted concentrations.</li> </ul>	Chapter 6 Table 6-10 (Daily Emission Rates for the Mine Site)  Atmospheric TSD Appendix 3.1 Emissions

**Table 1: Concordance between Canadian Environmental Assessment Agency’s Environmental Impact Statement Guidelines and the Hammond Reef Gold Project Environmental Impact Statement/Environmental Assessment Report (Continued)**

Environmental Impact Statement Guidelines		Section in EIS/EA Report
Section	Requirement	
10.2.1 (Continued)	<ul style="list-style-type: none"> <li>atmospheric dispersion of emissions with emphasis on PM<sub>2.5</sub> and PM<sub>10</sub> on a local and regional scale;</li> </ul>	<p>Chapter 6 Section 6.1.2.1.1 ([Atmospheric Environment] Modelling)</p> <p>Atmospheric TSD Appendix 3.IV (Modelling Predictions of Environmental Effects Assessment)</p> <p>Atmospheric TSD (Version 2) Part B: Supplemental Information Package Technical Memorandum</p>
	<ul style="list-style-type: none"> <li>all air emissions including Sulphur Oxides (SO<sub>x</sub>), Nitrogen Oxides (NO<sub>x</sub>), Particulate Matter (PM) including total PM, PM<sub>10</sub>, and PM<sub>2.5</sub>, Volatile Organic Compounds (VOCs), Carbon Monoxide (CO), Ammonia (NH<sub>3</sub>), ground-level ozone (O<sub>3</sub>), and secondary particulate matter (secondary PM); air pollutants on the List of Toxic Substances in Schedule 1 of the Canadian Environmental Protection Act, 1999 (CEPA Registry, 1999); diesel PM; and other contaminants as appropriate;</li> </ul>	<p>Chapter 6 Table 6-10 (Daily Emission Rates for the Mine Site)</p> <p>Atmospheric TSD Appendix 3.I Emissions</p>
	<ul style="list-style-type: none"> <li>the worst-case dispersion modeling results (including mapping) and noting the location of key and sensitive receptors;</li> </ul>	<p>Chapter 6 Section 6.1.2.1.2</p> <p>Atmospheric TSD Appendix 3.IV (Modelling Predictions of Environmental Effects Assessment)</p> <p>Atmospheric TSD (Version 2) – Part B Figure 3-5 (Human Health Risk Assessment Receptors)</p>

**Table 1: Concordance between Canadian Environmental Assessment Agency’s Environmental Impact Statement Guidelines and the Hammond Reef Gold Project Environmental Impact Statement/Environmental Assessment Report (Continued)**

Environmental Impact Statement Guidelines		Section in EIS/EA Report
Section	Requirement	
10.2.1 (Continued)	<ul style="list-style-type: none"> <li>combined predicted cumulative AQ concentrations during the various project phases with suitably conservative estimates of background concentrations to arrive at the worst-case cumulative AQ concentrations;</li> </ul>	Section 3.2.5.2 ([Atmospheric Environment] Air Quality)  Atmospheric TSD Appendix 3.IV (Modelling Predictions of Environmental Effects Assessment)  Atmospheric TSD (Version 2) Part B: Supplemental Information Package Technical Memorandum
	<ul style="list-style-type: none"> <li>predicted cumulative AQ concentrations compared with the NAAQO and CWS for AQ and any applicable provincial ambient AQ criteria; and</li> </ul>	Atmospheric TSD (Version 2) Part B: Supplemental Information Package Technical Memorandum
	<ul style="list-style-type: none"> <li>impact on biological receptors such as vegetation, fish, wildlife and human health</li> </ul>	Section 6.2.1.5 (Dust Deposition and Emissions)  Section 6.3.4 (Human Health Effects Assessment)
	<b>Dustfall</b> The EIS documentation relating to dustfall shall consider: <ul style="list-style-type: none"> <li>data for mass of dustfall per area per unit time and expected metals concentration in the dustfall; and</li> </ul>	Atmospheric TSD Appendix 3.IV (Modelling Predictions of Environmental Effects Assessment)
	<ul style="list-style-type: none"> <li>measures to mitigate dustfall by exposed tailings beaches, and other sources, during closure and post-closure phases, including the likelihood of establishing and maintaining native plant cover on tailings and other surfaces.</li> </ul>	Section 6.1.5.2 ([Mitigation Measures Summary] Atmospheric Environment)  Chapter 8 Table 8-2 (Environmental Management Planning, Monitoring and Compliance – Physical Environment)

**Table 1: Concordance between Canadian Environmental Assessment Agency’s Environmental Impact Statement Guidelines and the Hammond Reef Gold Project Environmental Impact Statement/Environmental Assessment Report (Continued)**

Environmental Impact Statement Guidelines		Section in EIS/EA Report
Section	Requirement	
10.2.1 (Continued)	<p><b>Greenhouse Gases</b> With respect to Greenhouse Gases (GHGs), the EIS shall:</p> <ul style="list-style-type: none"> <li>■ discuss the analytical techniques and relevant policies considered in the EA;</li> </ul>	Atmospheric TSD Appendix 6.III (Greenhouse Gas Emissions)
	<ul style="list-style-type: none"> <li>■ list and estimate the emissions of GHGs predicted for all relevant Project sources and compare to other similar mining projects;</li> </ul>	Atmospheric TSD Section 6.5 (Effects of the Project on Climate Change)
	<ul style="list-style-type: none"> <li>■ discuss possible changes in the climate;</li> </ul>	Atmospheric TSD Appendix 6.III (Greenhouse Gas Emissions)
	<ul style="list-style-type: none"> <li>■ identify mitigation measures considered to control Project GHG emissions; and</li> </ul>	Section 6.5.4 ([Effects of the Environment on the Project] Climate Change)
	<ul style="list-style-type: none"> <li>■ discuss the sensitivity of the Project to changes in specific climate and related environmental parameters, including total annual rainfall, total annual snowfall, frequency and/or severity of precipitation extremes, lake levels and stream flow.</li> </ul>	Chapter 8 Table 8-2 (Environmental Management Planning, Monitoring and Compliance – Physical Environment)
	<p><b>Light Pollution</b> The EIS shall identify potential effects on the environment resulting from artificial light pollution at the mine site, and shall provide a description of management measures to mitigate any such effects.</p>	Section 6.5 (Effects of the Environment on the Project)
		Section 6.1.2.4 ([Physical Effects Assessment] Light)

**Table 1: Concordance between Canadian Environmental Assessment Agency’s Environmental Impact Statement Guidelines and the Hammond Reef Gold Project Environmental Impact Statement/Environmental Assessment Report (Continued)**

Environmental Impact Statement Guidelines		Section in EIS/EA Report
Section	Requirement	
10.2.2	<b>Acoustic Environment</b>	
	The EIS shall assess the potential for noise effects resulting from the Project. The EIS shall: <ul style="list-style-type: none"> <li>■ identify and quantify potential noise sources including reference to construction and operational phases as well as to noise associated with increased road traffic;</li> </ul>	Section 6.1.2.2 (Noise)
	<ul style="list-style-type: none"> <li>■ identify potential receptors and describe the proximity of identified receptors to Project operations including identification and description of whether particular receptors may have a heightened sensitivity to noise exposure or expectation of peace and quiet;</li> </ul>	Chapter 6 Section 6.1.2.2 (Noise)  Atmospheric Environment TSD Section 4.1.5.1 (Noise Receptor Locations)
	<ul style="list-style-type: none"> <li>■ include a map illustrating estimated noise levels from the project at receptors in the study area; and</li> </ul>	Atmospheric Environment TSD Figure 4-2 (Noise Results during Operations)  Figure 4-2 (Noise Results for Ecological Risk Assessment)
	<ul style="list-style-type: none"> <li>■ describe mitigation and noise management measures including the conditions for mitigation and evaluate Project compliance with appropriate noise guidelines.</li> </ul>	Section 6.1.5 (Summary of Mitigation for the Physical Environment)
10.2.3	<b>Water Quality and Quantity</b>	
10.2.3.1	<b>Hydrology and Hydrogeology</b>	
	<b>Surface Water</b> The EIS shall: <ul style="list-style-type: none"> <li>■ provide an assessment of changes to the hydrologic regime resulting from site construction (deforestation, removal of overburden, dewatering, increased drainage, etc.), operation, modification, decommissioning and post-closure, with a focus on lakes and streams that relate to existing fish, fish habitat and proposed fish compensation plans;</li> </ul>	Chapter 6 Table 6-48 (Aquatic Habitats Directly Affected by Site Development)

**Table 1: Concordance between Canadian Environmental Assessment Agency’s Environmental Impact Statement Guidelines and the Hammond Reef Gold Project Environmental Impact Statement/Environmental Assessment Report (Continued)**

Environmental Impact Statement Guidelines		Section in EIS/EA Report
Section	Requirement	
<b>10.2.3.1 (Continued)</b>	<ul style="list-style-type: none"> <li>include details about changes in lake levels and the magnitude of stream flow, timing and duration for normal, dry and wet hydrologic conditions;</li> </ul>	Section 6.1.3.1.2 (Changes in Streamflows)  Section 6.1.2.1.3 (Changes in Water Levels)  Hydrology TSD Section 5.2 (Prediction of Potential Changes)  Hydrology TSD Section 6.2 (Prediction of Potential Changes)
	<ul style="list-style-type: none"> <li>include details about changes in overall water chemistry to impacted waterbodies from all sources of run-off and effluent discharges from the site;</li> </ul>	Section 6.1.3.3.2 (Water Quality Predictions)  Lake Water Quality TSD
	<ul style="list-style-type: none"> <li>include maps that show future basins delineation, drainage direction, proposed diversions channels and runoff management features; and</li> </ul>	Chapter 5 Figure 5-10 (Surface Water Drainage Plan)  Chapter 6 Figure 6-6 (Expected Long Term Post-Closure Site Conditions)
	<ul style="list-style-type: none"> <li>include consideration of the effects of climate change and variability on the future flow regime and water balance assessment, hydrology, such as peak flow rates and the location of ice jams that could affect the environment or Project infrastructure.</li> </ul>	Section 6.5.4 (Climate Change)

**Table 1: Concordance between Canadian Environmental Assessment Agency’s Environmental Impact Statement Guidelines and the Hammond Reef Gold Project Environmental Impact Statement/Environmental Assessment Report (Continued)**

Environmental Impact Statement Guidelines		Section in EIS/EA Report
Section	Requirement	
<b>10.2.3.1 (Continued)</b>	With respect to the water balance for the Project, the EIS shall include: <ul style="list-style-type: none"> <li>a detailed water balance for the mill, open pits, TIAs and any other associated infrastructure, during operation, closure and post-closure phases of the Project, for a range of hydrological conditions;</li> </ul>	Site Water Quality TSD Appendix 3.II Site Wide Water Balance
	<ul style="list-style-type: none"> <li>the water balance model shall evaluate the average precipitation scenario as well as a full range of possible wet and dry scenarios. The possible effects of each different precipitation sequence on mine water management activities shall be tracked, and the results presented in terms of probabilities of occurrence;</li> </ul>	Site Water Quality TSD Appendix 3.II Site Wide Water Balance
	<ul style="list-style-type: none"> <li>the predicted water balance for each year of the mine life and all inflows and outflows shall be provided in tabular format. Appropriate return periods shall be defined and methodologies for the evaluation of wet, dry and expected scenarios shall be discussed.</li> </ul>	Chapter 6 Table 6-33 (Estimated Monthly Mine Intake Flows)  Table 6-34 (Estimated Monthly Mine Discharge Flows)  Site Water Quality TSD Appendix 3.II Site Wide Water Balance
	With respect to water management, the EIS shall: <ul style="list-style-type: none"> <li>predict the surface run-off coefficient and rate of run-off for the different areas of the mine site, and describe contingency plans for extreme run-off events and drought conditions;</li> </ul>	Hydrology TSD Section 4.2.1.2.6 (Annual Runoff Coefficients)  Chapter 5 Section 5.2.7 (Water Management System)

**Table 1: Concordance between Canadian Environmental Assessment Agency’s Environmental Impact Statement Guidelines and the Hammond Reef Gold Project Environmental Impact Statement/Environmental Assessment Report (Continued)**

Environmental Impact Statement Guidelines		Section in EIS/EA Report
Section	Requirement	
10.2.3.1 (Continued)	<ul style="list-style-type: none"> <li>recommend measures for dealing with water inflows to the open pits during operation;</li> </ul>	<p>Chapter 6 Section 6.1.3.2.1.1 (Pit Inflow)</p> <p>Chapter 8 Section 8.2.2.3 (Hydrogeology)</p>
	<ul style="list-style-type: none"> <li>profile the open pits and show levels to which flooding can be achieved after closure based on hydrology and the pit design and contours and provide predictions with respect to flooding rates and ultimate water levels for the open pits after closure;</li> </ul>	<p>Conceptual Closure and Rehabilitation Plan TSD Supplemental Information Package Revised Pit Flooding Memo</p>
	<ul style="list-style-type: none"> <li>provide the conceptual design features of all collector and diversion ditches, culverts, bridges, and water storage facilities (including sediment ponds and seepage collection ponds). Cross-sections of the ditches and water storage facilities shall be provided and include the run-off flow return period to which the works can convey all flows, and to which the works can withstand flows without significant damage;</li> </ul>	<p>Hydrogeology TSD Supplemental Information Package Design Basis for Seepage and Runoff Collection Systems</p>
	<ul style="list-style-type: none"> <li>include an assessment and prediction for all site water diversions including volumes, discharge structures and locations, and potential effects on the receiving environment hydrology; and</li> </ul>	<p>Chapter 6 Section 6.1.3.1 (Hydrology)</p> <p>Section 6.1.3.3 (Water and Sediment Quality)</p> <p>Hydrology TSD</p>
	<ul style="list-style-type: none"> <li>identify, map and characterize any faults located in the open pits and the extent of the faults beyond the confines of the open pits. Include an assessment of the hydraulic connection between the open pits and the adjacent water courses.</li> </ul>	<p>Hydrogeology TSD Figure 2-8 (Structural Geology Cross-section through the Pit showing Shear Zones)</p> <p>Figure 2-14 (Areas of Observed Groundwater Seepage and Inferred Groundwater Discharge)</p>

**Table 1: Concordance between Canadian Environmental Assessment Agency’s Environmental Impact Statement Guidelines and the Hammond Reef Gold Project Environmental Impact Statement/Environmental Assessment Report (Continued)**

Environmental Impact Statement Guidelines		Section in EIS/EA Report
Section	Requirement	
10.2.3.1 (Continued)	<p><b>Groundwater</b> The EIS shall:</p> <ul style="list-style-type: none"> <li>provide a qualitative and quantitative groundwater assessment to determine how the Project and related facilities and activities will impact: the local hydrogeological and groundwater units, groundwater flows, quality and quantity during: site preparation, construction, open pit development, TIA and process water pond development, operations, decommissioning (closure), and post closure care. The assessment shall describe the duration, frequency, magnitude and spatial extent of any effects and residual effects, outline the need for mitigation and/or monitoring measures, and assist with ARD/ML prediction work;</li> </ul>	<p>Chapter 6 Section 6.1.3.2 (Hydrogeology)</p> <p>Hydrogeology TSD</p>
	<ul style="list-style-type: none"> <li>provide results of the hydrogeological assessment that determines: groundwater seepage location, rates, seepage quality, and direction into or from: the open pits, mine rock stockpiles and other stockpiles, TIA facilities, primary sedimentation pond and process water pond; and from the pits during future overflow;</li> </ul>	<p>Hydrogeology TSD Section 2.0 (Groundwater Quantity)</p>
	<ul style="list-style-type: none"> <li>provide detailed drawings and/or figures showing groundwater contours (piezometric surfaces) to determine/illustrate projected seepage conditions for the applicable project features (e.g. open pits, mine rock stockpiles, TIA, dams, primary sedimentation pond, process water pond);</li> </ul>	<p>Hydrogeology TSD Figures 2-9 to 2-11 (Groundwater Elevations and Inferred Flow Directions - Mine Area; West Pit Area; Tailings Management Facility)</p> <p>Hydrogeology TSD Supplemental Information Package Figure 2-10A (Groundwater Elevations and Inferred Flow Directions - Mine Area)</p>
	<ul style="list-style-type: none"> <li>provide an assessment of the effects/impacts of groundwater seepage within the project area on surface stream flows, surface water quality, fish and fish habitat;</li> </ul>	<p>Chapter 6 Section 6.1.3.2.1.2 (Effects Assessment - Hydrogeology)</p> <p>Hydrogeology TSD Supplemental Information Package Appendix 1.IV IR MNDM 16 and IR MOE-NR-GW-09</p>

**Table 1: Concordance between Canadian Environmental Assessment Agency’s Environmental Impact Statement Guidelines and the Hammond Reef Gold Project Environmental Impact Statement/Environmental Assessment Report (Continued)**

Environmental Impact Statement Guidelines		Section in EIS/EA Report
Section	Requirement	
10.2.3.1 (Continued)	<ul style="list-style-type: none"> <li>provide a discussion of the potential for off-site migration of impacted groundwater, and an analysis of contaminant <b>attenuation capacities within the hydrogeological units</b> within the project area;</li> </ul>	Hydrogeology TSD Supplemental Information Package
	<ul style="list-style-type: none"> <li>provide a description of any proposed mitigation strategies for groundwater seepage within the project area;</li> </ul>	Chapter 6 Section 6.1.5 (Mitigation Measures for the Physical Environment)  Chapter 8 Table 8-2 (Environmental Management Planning)
	<ul style="list-style-type: none"> <li>include a determination of the expected location and rates of seepage from the TIAs and mine rock stockpiles, characterize the seepage quality, and define any proposed mitigation strategies. Potential seepage to other waterbodies shall be emphasized and assessed for potential impacts to fish and fish habitat. Detailed drawings and/or figures showing equipotential contours to determine/illustrate projected seepage conditions for the dams, ore storage, and mine rock stockpiles, as applicable, shall be provided;</li> </ul>	Hydrogeology TSD Table 2-3: Summary of Hydraulic Conductivity Estimates for Overburden and Bedrock in Mine Area  Table 2-4: Summary of Hydraulic Conductivity Estimates for Overburden and Shallow Bedrock in Tailings Management Facility Area  Appendix 1.IV IR MNDM 16 and IR MOE-NR-GW-09  Section 6.2.2 (Aquatic Ecology)
	<ul style="list-style-type: none"> <li>provide the results of a groundwater flow model of the local catchment for the <b>post-closure</b> period incorporating all major permanent mine components, including the open pits, TIAs, and mine rock stockpiles;</li> </ul>	Hydrogeology TSD Appendix 2.IX 3D Groundwater Model Conceptual Closure and Rehabilitation Plan TSD
	<ul style="list-style-type: none"> <li>include the lithology for all wells from which data was collected to be used in the EIS;</li> </ul>	Hydrogeology TSD Appendix 2.IV Geophysical Borehole Logging

**Table 1: Concordance between Canadian Environmental Assessment Agency’s Environmental Impact Statement Guidelines and the Hammond Reef Gold Project Environmental Impact Statement/Environmental Assessment Report (Continued)**

Environmental Impact Statement Guidelines		Section in EIS/EA Report
Section	Requirement	
<b>10.2.3.1 (Continued)</b>	<ul style="list-style-type: none"> <li>make available all relevant base map files and calibration data sets that have been used in the hydrogeological assessment;</li> </ul>	Hydrogeology TSD  Appendix 2.IX 3D Groundwater Model
	<ul style="list-style-type: none"> <li>include recommendations regarding appropriate monitoring well locations to detect seepage from the various Project facilities, appropriate requirements for well purging prior to sampling, and appropriate frequency of sampling of monitoring wells;</li> </ul>	Chapter 8 Table 8-5 (Proposed Monitoring Program – Hydrogeology)
	<ul style="list-style-type: none"> <li>include an analysis of the potential for sulphide oxidation within surficial and bedrock units as a result of groundwater drawdown within the project area;</li> </ul>	Section 6.1.1 (Geology, Geochemistry and Soils)  Geochemistry, Geology and Soils TSD
	<ul style="list-style-type: none"> <li>demonstrate how, and if the withdrawal of groundwater during project development (i.e. construction, operations, modifications, decommissioning and post-closure), or the creation of physical changes to the aquifers within the project area, shall affect the availability of groundwater for applicable users (e.g. mine site facility operations, on-site drinking water systems) or baseflows in surface water (surface watercourses), thereby causing surface water impacts;</li> </ul>	Section 6.3.1.2.13 (Water Use and Access)
	<ul style="list-style-type: none"> <li>include a Water Management Plan for all dams, including flows and levels during construction, operation, closure and post-closure. The assessment shall include diversions and impacts to aquatic systems from increased and decreased surface flows; and include effects of surface infiltration on groundwater flows that may affect discharges into streams and lakes.</li> </ul>	Section 5.2.7 (Water Management System)  Chapter 6 Section 6.1.3.1 (Hydrology)  Section 6.1.3.3 (Water and Sediment Quality)  Conceptual Closure and Rehabilitation Plan TSD

**Table 1: Concordance between Canadian Environmental Assessment Agency’s Environmental Impact Statement Guidelines and the Hammond Reef Gold Project Environmental Impact Statement/Environmental Assessment Report (Continued)**

Environmental Impact Statement Guidelines		Section in EIS/EA Report
Section	Requirement	
10.2.3.2	<b>Water Quality and Aquatic Ecology</b>	
	In conducting the effects assessment for water quality and aquatic ecology, the EIS shall include the following:	Hydrology TSD
	<ul style="list-style-type: none"> <li>■ graphical presentation of key variables and stream flows over time for key sites to illustrate patterns and variability;</li> </ul>	Figures 5-8 to 5-14 (Frequency Curves and Seasonal Distribution of Flows)
	<ul style="list-style-type: none"> <li>■ power and confidence calculations for key variables at key sites once the effects have been predicted to guide future monitoring. Key variables are those that the impact assessment indicate may contribute to degraded water quality, and key sites are those sites where the discharge of key variables might take place;</li> </ul>	Hydrology TSD Appendix 5.II Hydrologic Modelling
	<ul style="list-style-type: none"> <li>■ the entire range of data in addition to mean values, because extreme events that have serious environmental consequences can be lost when using only mean values.; and</li> </ul>	Hydrology TSD Appendix 5.II Hydrologic Modelling
	<ul style="list-style-type: none"> <li>■ all of the data in an appendix, including summaries of the maximum, minimum, mean or median, standard deviation and coefficient of variation for each site.</li> </ul>	Hydrology TSD  Appendix 2.1 Characterization of Site Scale Watercourses
	The EIS shall also provide an assessment of direct effects of elevated concentrations of sulphate on downstream water quality and biota and a qualitative discussion of indirect effects of elevated sulphate concentrations on mercury methylation and partitioning.	Section 6.1.3.3.2 (Water Quality Predictions)
The EIS shall include the following:	Section 6.1.3.3.2 (Water Quality Predictions)	
<ul style="list-style-type: none"> <li>■ information describing how current baseline and ongoing surface and groundwater quality and flow rates are anticipated to be altered by individual mine components. Information shall focus particularly on the open pits, ore stock piles, waste rock piles, TIA/waste rock impoundments;</li> </ul>	Hydrogeology TSD Supplemental Information Package	

**Table 1: Concordance between Canadian Environmental Assessment Agency’s Environmental Impact Statement Guidelines and the Hammond Reef Gold Project Environmental Impact Statement/Environmental Assessment Report (Continued)**

Environmental Impact Statement Guidelines		Section in EIS/EA Report
Section	Requirement	
<b>10.2.3.2 (Continued)</b>	<ul style="list-style-type: none"> <li>an assessment and prediction of water quality for major mine components (waste rock stockpiles, open pits, low grade ore stockpiles, etc.) and all site water discharges, including groundwater discharge points in lakes and streams, for the different phases of the Project (i.e. construction, operation, modification, decommissioning, post-closure). This assessment shall include volumes, water quality, discharge structures and location, potential effects on the receiving environment from all cumulative site water discharges and the description of any mitigation strategies and/or treatment processes;</li> </ul>	Section 6.1.3.3.2 (Water Quality Predictions)  Hydrogeology TSD  Site Water Quality TSD  Conceptual Closure and Rehabilitation Plan TSD
	<ul style="list-style-type: none"> <li>a description of contingency plans if there are significant uncertainties or risks associated with the predicted water quality, and for dealing with excessive run-off events and drought conditions if necessary;</li> </ul>	Chapter 8 Table 8-2 (Environmental Management Planning – Physical Environment)
	<ul style="list-style-type: none"> <li>strategies for management of surface run-off from the various mine components, including mitigation strategies to separate contact water from non-contact water and how to prevent erosion and sediment discharge during the construction, operational and closure and post-closure phases;</li> </ul>	Section 5.2.7 (Water Management System)  Site Water Quality TSD  Conceptual Closure and Rehabilitation Plan TSD
	<ul style="list-style-type: none"> <li>details on additional water requirements (if applicable) necessary to maintain full saturation of the PAG material. If exposure is expected, the results of kinetic test work shall be provided to assist in the determination of an acceptable exposure period; and</li> </ul>	Not applicable
	<ul style="list-style-type: none"> <li>As well, it has been noted that in the project scope description that the excess water in the tailings impoundment will be treated at the water treatment facility (WTF). The EIS should include details on the WTF (i.e. type of treatment) and request preparation of a sludge management plan in the eventuality that neutralization sludge is produced.</li> </ul>	Chapter 5 Section 5.2.7 (Water Management System)

**Table 1: Concordance between Canadian Environmental Assessment Agency’s Environmental Impact Statement Guidelines and the Hammond Reef Gold Project Environmental Impact Statement/Environmental Assessment Report (Continued)**

Environmental Impact Statement Guidelines		Section in EIS/EA Report
Section	Requirement	
<b>10.2.3.2 (Continued)</b>	<p>Additional information shall be provided on the following:</p> <ul style="list-style-type: none"> <li>the type and method used for the ARD/ML prediction and possible mitigation measures; waste rock, tailings and low grade ore characterization, volumes, segregation/disposal method mitigation/management plans, contingency plans, operational and post-closure monitoring and maintenance plans;</li> </ul>	<p>Chapter 3 Section 3.2.2 (Geology, Geochemistry and Terrain and Soil)</p> <p>Chapter 6 Section 6.1.1 (Geology and Geochemistry)</p> <p>Chapter 5 (Project Description)</p> <p>Chapter 8 Table 8-2 (Environmental Management Monitoring and Compliance – Physical Environment)</p> <p>Geochemistry, Geology, and Soils TSD</p> <p>Conceptual Closure and Rehabilitation Plan TSD</p>
	<ul style="list-style-type: none"> <li>assessment of the feasibility to successfully segregate potentially-acid generating (PAG) and non-potentially acid generating (NPAG) waste materials during operations, proposed geochemical segregation criteria and identification of operational methods that will be required to achieve geochemical characterization during operations (i.e. geochemical surrogates, on site lab, procedures needed, etc);</li> </ul>	<p>Not applicable – materials to be generated are NPAG and do not require segregation</p> <p>Geochemistry, Geology and Soils TSD Section 3.0 (Geochemistry)</p>
	<ul style="list-style-type: none"> <li>sensitivity analysis to assess the effects of imperfect segregation of waste rock;</li> </ul>	<p>Not applicable – materials to be generated are NPAG and do not require segregation</p> <p>Geochemistry, Geology and Soils TSD Section 3.0 (Geochemistry)</p>

**Table 1: Concordance between Canadian Environmental Assessment Agency’s Environmental Impact Statement Guidelines and the Hammond Reef Gold Project Environmental Impact Statement/Environmental Assessment Report (Continued)**

Environmental Impact Statement Guidelines		Section in EIS/EA Report
Section	Requirement	
10.2.3.2 (Continued)	<ul style="list-style-type: none"> <li>estimates of the potential for mined materials (including waste rock, tailings and low grade ore) to be sources of ARD or ML; estimates of potential time to the onset of ARD or ML; and the ability to prevent or control ARD and ML during operation and post-closure</li> </ul>	<p>Geochemistry, Geology and Soils TSD</p> <p>Section 3.3.2 (Geochemical Testing Program)</p> <p>Geochemistry Geology and Soil TSD</p>
	<ul style="list-style-type: none"> <li>pit water chemistry during operation and post-closure, and pit closure management measures (e.g. flooding). This shall include geochemical modeling of pit water quality in the post-closure period;</li> </ul>	<p>Chapter 6</p> <p>Section 6.1.3.3.1 (Pit Water Quality)</p>
	<ul style="list-style-type: none"> <li>surface and seepage water quality from the waste rock dumps, tailings/waste rock impoundment facility, stockpiles and other infrastructure during operation and post-closure; and</li> </ul>	<p>Chapter 6</p> <p>Section 6.1.3.3.2 (Water Quality Predictions)</p> <p>Appendix 1.IV IR MNDM 16 and IR MOE-NR-GW-09</p> <p>Conceptual Closure and Rehabilitation Plan TSD Table 6-38 (Average TMF Seepage Water Quality Predictions for Lizard Lake during Operations)</p> <p>Table 6-39 (Upper Bound TMF Seepage Water Quality Predictions for Lizard Lake during Operations)</p>
	<ul style="list-style-type: none"> <li>ARD/ML prevention/management strategies under a temporary or early closure scenario, including low grade ore.</li> </ul>	<p>Not applicable – materials to be generated are NPAG</p> <p>Section 6.1.1 (Geology and Geochemistry)</p>
	<p>The EIS shall also assess the environmental effects on surface water quality from increased sedimentation resulting from erosion associated with timber harvesting along the proposed transmission line corridor.</p>	<p>Section 6.1.1 (Geology and Geochemistry)</p>

**Table 1: Concordance between Canadian Environmental Assessment Agency’s Environmental Impact Statement Guidelines and the Hammond Reef Gold Project Environmental Impact Statement/Environmental Assessment Report (Continued)**

Environmental Impact Statement Guidelines		Section in EIS/EA Report
Section	Requirement	
10.2.3.3	<b>Sediment Quality and Benthos</b>	
	In assessing the effects of the Project on sediment quality, the EIS shall: <ul style="list-style-type: none"> <li>discuss how potential changes related to construction, operation, closure and post closure may affect toxicity and physical habitat requirements (e.g., particle size) for benthos and fish eggs, utilizing sediment quality baseline data;</li> </ul>	Section 6.1.3.3 (Water and Sediment Quality)
	<ul style="list-style-type: none"> <li>identify sediment parameters that may be present at elevated levels, in comparison to applicable federal and provincial sediment quality guidelines, and, if necessary, use this information to propose site-specific sediment quality objectives; and</li> </ul>	Section 6.2.2 (Aquatic Ecology)
	<ul style="list-style-type: none"> <li>identify the potential effect it may have on invertebrate species.</li> </ul>	Section 6.1.3.3 (Water and Sediment Quality)
10.2.4	<b>Fish and Fish Habitat</b>	
	The EIS shall identify potential effects on fish and fish habitat during all phases of the Project. Mitigation strategies for avoiding the harmful alteration, disruption and destruction (HADD) of fish and fish habitat and a compensation plan for unavoidable losses, based on Fisheries and Oceans Canada’s policy for the Management of Fish Habitat and the related principle of no net loss of the productive capacity of fish habitat shall be included.	Section 6.2.2 (Aquatic Ecology)
	The EIS shall outline separate Fish and Fish Habitat Mitigation and Compensation Plans for sub-section 35(2) authorization(s) under the Fisheries Act for the Harmful Alteration, Disruption or Destruction of fish habitat, and under the MMER Schedule 2 requirements for the deposit of deleterious mine waste in natural water bodies frequented by fish. Sufficient detail shall be provided in each compensation plan to demonstrate that no net loss of productive capacity of fish habitat can be achieved and that plan measures are technically, economically and biologically feasible.	Section 6.2.2.1 (Habitat Loss or Alteration)
	<b>Metal Levels in Fish</b>	
	The EIS shall provide details of existing and predicted metal levels in fish. Using the baseline data on metal levels in fish tissue in areas that may be impacted by effluent or seepage from the mine, the EIS shall evaluate the predicted changes in metal levels due to the Project.	Aquatic Environment TSD (Version 2) Supplemental Information Package (Fish Habitat No Net Loss / Habitat Offset Plan)
		Section 6.2.2 (Aquatic Ecology)
		Aquatic Environment TSD (Version 2) Supplemental Information Package

**Table 1: Concordance between Canadian Environmental Assessment Agency’s Environmental Impact Statement Guidelines and the Hammond Reef Gold Project Environmental Impact Statement/Environmental Assessment Report (Continued)**

Environmental Impact Statement Guidelines		Section in EIS/EA Report
Section	Requirement	
10.2.5	<b>Terrain and Soil</b>	
	The EIS shall identify potential effects on terrain and soil during all phases of the Project.	Section 6.1.1 (Terrain and Soils)  Geochemistry, Geology and Soils TSD  Terrestrial Ecology TSD  Conceptual Closure and Rehabilitation Plan TSD
	The EIS shall provide a terrain and soils survey that shall: <ul style="list-style-type: none"> <li>■ outline a conceptual baseline and monitoring program to assess trace element uptake in soils at mine closure, and where possible, during the mine life;</li> </ul>	Chapter 8 Table 8-2 (Environmental Management Planning)
	<ul style="list-style-type: none"> <li>■ outline a conceptual soil erosion and sedimentation plan for the mine site and access road upgrades; and</li> </ul>	Chapter 8 Table 8-2 (Environmental Management Planning)  Geochemistry, Geology and Soils TSD Section 4.5.1.2.2 Erosion
	<ul style="list-style-type: none"> <li>■ include details of soil sample analysis completed and the QA/QC program followed.</li> </ul>	Geochemistry, Geology and Soils TSD Section 4.3 Methods  Terrestrial Ecology TSD Section 2.1 Methods
	Based on the results of the terrain and soils survey, the EIS shall include an assessment of terrain stability. The information collected from the terrain and soil survey and mapping shall be used in the soil salvage and soil erosion control assessments and preparation of the closure plan.	Geochemistry, Geology and Soils TSD Section 4.4 Existing Conditions  Geochemistry, Geology and Soils TSD Section 4.5.1.2 Mitigation
	In order to facilitate determination of soil salvage requirements, the rooting depth, soil horizon and depth to growth impediments shall be compiled in a tabular form for each profile in each soil management unit. Typical or representative soil profile descriptions shall be appended to the soil survey report.	Geochemistry, Geology and Soils TSD Section 4.4.4.1 Soil Erosion Risk

**Table 1: Concordance between Canadian Environmental Assessment Agency’s Environmental Impact Statement Guidelines and the Hammond Reef Gold Project Environmental Impact Statement/Environmental Assessment Report (Continued)**

Environmental Impact Statement Guidelines		Section in EIS/EA Report
Section	Requirement	
10.2.6	<b>Vegetation</b>	
	The EIS shall identify potential effects on vegetation during all phases and on all the components of the Project.	Chapter 6 Section 6.2.1.1 (Vegetation)  Chapter 6 Section 6.4 Tables 6-55 to 6-57
	The EIS shall include a detailed assessment of key indicator communities, species groups or ecosystems representative of overall ecosystem condition and are sensitive to Project activities.	Section 6.2.1.1.1 (Wetlands)  Section 6.2.1.1.2 (Forest Cover)
	The EIS shall: <ul style="list-style-type: none"> <li>■ assess the potential effects of the Project on vegetation, including species known to be important to Aboriginal people and groups;</li> </ul>	Section 6.2.1.1.2 (Forest Cover)  Section 6.2.1.1.5 (Lake Water Levels)
	<ul style="list-style-type: none"> <li>■ document ambient concentrations of trace elements in wetland and upland vegetation to determine the potential for contamination of vegetation that may be consumed by wildlife or people; and</li> </ul>	Human Health and Ecological Risk Assessment TSD  Section 4.7 (Multi-Media Risk Assessment)
<ul style="list-style-type: none"> <li>■ develop mitigation measures to minimize or eliminate Project effects on vegetation, ecosystem function and wildlife habitat.</li> </ul>	Chapter 6 Section 6.2.4 (Mitigation for the Biological Environment)  Chapter 8 Table 8-8 (Environmental Management Planning)	

**Table 1: Concordance between Canadian Environmental Assessment Agency’s Environmental Impact Statement Guidelines and the Hammond Reef Gold Project Environmental Impact Statement/Environmental Assessment Report (Continued)**

Environmental Impact Statement Guidelines		Section in EIS/EA Report
Section	Requirement	
10.2.6 (Continued)	<p>With respect to the proposed transmission line, the EIS shall include a discussion of the following issues:</p> <ul style="list-style-type: none"> <li>■ the potential effects of invasive vegetation within the corridor and proposed methods of controlling invasive or undesired vegetation; and</li> <li>■ whether the proposed corridor will be seeded.</li> </ul>	Section 6.2.1.1.1 (Wetlands)
10.2.7	<b>Wildlife</b>	
	The EIS shall identify potential effects on wildlife during all phases and on all the components of the Project.	Section 6.2.1.2 (Wildlife)  Chapter 6 Section 6.4 Tables 6-55 to 6-57
	<p>The EIS shall include:</p> <ul style="list-style-type: none"> <li>■ the identification and assessment of the potential effects of the Project on ungulates, large carnivores, furbearers, small mammals, raptors, waterfowl and other birds, reptiles, and amphibians that may be affected by the Project with particular attention to riparian, wetland, cliff and forest ecotone habitats, where applicable;</li> </ul>	Section 6.2.1.2.1 (Moose)  Section 6.2.1.2.2 (Furbearers)  Section 6.2.1.3 (Upland Breeding Birds)  Section 6.2.1.4 (Species at Risk)
	<ul style="list-style-type: none"> <li>■ a summary of the amount and type of wildlife habitat potentially impacted by the Project. These summaries will include wildlife habitat suitability interpretations for ungulates, black bear and species of conservation concern that are known or likely to occur in the Project area;</li> </ul>	Terrestrial Ecology TSD Tables 3-9 to 3-21 (Projected Changes in Habitat Type Area )

**Table 1: Concordance between Canadian Environmental Assessment Agency’s Environmental Impact Statement Guidelines and the Hammond Reef Gold Project Environmental Impact Statement/Environmental Assessment Report (Continued)**

Environmental Impact Statement Guidelines		Section in EIS/EA Report
Section	Requirement	
10.2.7 (Continued)	<ul style="list-style-type: none"> <li>■ identification of mitigation measures to minimize or eliminate any adverse effects on wildlife, including wildlife habitat, and to reduce potential bird loss resulting from collisions with the transmission line, particularly in the vicinity of wetland, lake and riparian habitats and on migratory corridors; and</li> </ul>	<p>Chapter 6 Section 6.2.4 (Mitigation for the Biological Environment)</p> <p>Chapter 8 Table 8-8 (Environmental Management Planning)</p>
	<ul style="list-style-type: none"> <li>■ an evaluation of what the effect of the project on wildlife mortality risk and movement patterns.</li> </ul>	<p>Chapter 6 Section 6.2.1.2 (Wildlife)</p>
	<p><b>Species at Risk</b> The EIS shall address issues related to species at risk for the areas potentially affected by the Project, including the transmission line corridor. This shall include the identification and assessment of the potential effects of the Project on wildlife species of conservation concern (i.e., COSEWIC-listed species, species listed under the Species at Risk Act and/or Endangered Species Act and their habitats).</p>	<p>Section 6.2.1.4 (Species at Risk)</p>
10.3	<b>Socio-economic Environment</b>	
10.3.1	<b>Aboriginal Interest and Land and Resource Use</b>	
	<p><b>Aboriginal Interest and Current Use of Land and Resources by Aboriginal Persons</b> The EIS shall provide information regarding the effects of the Project on Aboriginal groups’ interests and on asserted or established Aboriginal and treaty rights.</p>	<p>Section 3.5 (Aboriginal Interests)</p> <p>Section 6.3.2 (Aboriginal Interests)</p>
	<p><b>Outdoor Recreation and Tourism</b> The EIS shall assess the potential environmental effects of the Project, including both onsite and offsite components, on other regional economic activities identified, such as recreation and tourism. With respect to outdoor recreation and tourism, the EIS shall:</p> <ul style="list-style-type: none"> <li>■ identify commercial recreation tenures and activities affected by the Project;</li> <li>■ identify areas that have high wilderness recreational value affected by the Project; and</li> <li>■ assess the importance of the areas affected, relative to regional use by residents and visitors.</li> </ul>	<p>Section 3.3.3.12 (Land and Resource Use)</p> <p>Section 6.3.1.2.7 (Outdoor Tourism and Recreation)</p> <p>Section 6.3.1.3.7 (Outdoor Tourism and Recreation)</p>

**Table 1: Concordance between Canadian Environmental Assessment Agency’s Environmental Impact Statement Guidelines and the Hammond Reef Gold Project Environmental Impact Statement/Environmental Assessment Report (Continued)**

Environmental Impact Statement Guidelines		Section in EIS/EA Report
Section	Requirement	
10.3.1 (Continued)	<p><b>Fishing</b></p> <p>With respect to fishing, the EIS shall provide an assessment of the effects of Project development on the commercial and/or recreational lake and stream fisheries affected by the Project, and present mitigation and/or compensation plans.</p>	<p>Section 6.3.1.2.10 (Fishing)</p> <p>Section 6.3.1.3.10 (Fishing)</p>
	<p><b>Hunting, Trapping and Guiding</b></p> <p>With respect to hunting, trapping and guiding, the EIS shall:</p> <ul style="list-style-type: none"> <li>■ identify the number of trapping and guiding territories affected by the Project and describe the nature of the effect in terms of the specific trapline and guiding area affected;</li> <li>■ assess the importance of the areas affected relative to overall area traplines and guiding territories and, to the extent possible, quantify the effect on guide outfitters and trappers;</li> <li>■ propose mitigation measures for diminished wildlife and wilderness values of the guide outfitter territories and registered traplines affected, where appropriate; and</li> <li>■ identify potential effects on recreational hunting opportunities in the immediate and adjacent areas.</li> </ul>	<p>Section 6.3.1.2.8 (Hunting)</p> <p>Section 6.3.1.2.9 (Trapping)</p> <p>Section 6.3.1.3.8 (Hunting)</p> <p>Section 6.3.1.3.9 (Trapping)</p>
10.3.2	<p><b>Navigable Waters.</b></p> <p>(...) the EIS shall:</p> <p>identify any Project components that will affect waterways and water bodies, including a description of any activities (e.g., dredging, alteration of water bed and/or water banks) that may affect waterways and water bodies;</p> <ul style="list-style-type: none"> <li>■ identify if there are existing works that were not previously authorized under the Navigable Waters Protection Act to be modified on a watercourse or water body.</li> <li>■ describe any ancillary and temporary works (e.g., cofferdams, detours, fencing, or temporary bridges) including approximate dimensions;</li> <li>■ describe the anticipated direct and/or indirect effects on the waterways and water bodies, including, but not limited to, changes in water level and flow; and</li> <li>■ describe how the use of waterways may be affected either directly or indirectly by the Project development plan, including current Aboriginal uses; and</li> <li>■ propose mitigation measures to avoid affecting navigation, if applicable.</li> </ul>	<p>Section 6.1.3.1.4 (Navigability)</p> <p>Section 6.3.2.12 (Water Use and Access)</p> <p>Hydrology TSD Section 5.2 (Prediction of Potential Changes)</p> <p>Hydrology TSD Section 6.2 (Prediction of Potential Changes)</p> <p>Hydrology TSD Section 7.0 (Navigability)</p>

**Table 1: Concordance between Canadian Environmental Assessment Agency’s Environmental Impact Statement Guidelines and the Hammond Reef Gold Project Environmental Impact Statement/Environmental Assessment Report (Continued)**

Environmental Impact Statement Guidelines		Section in EIS/EA Report
Section	Requirement	
10.4	<b>Human Health</b>	
	The EIS shall include consideration of the potential effects of all Project phases (i.e., construction, operation, modification, decommissioning) when assessing impacts to human health. The EIS shall examine the potential effects of the Project on human health, specifically related to potential chemical releases to the environment.	Section 6.4 (Human Health Effects Assessment)  Human Health and Ecological Risk Assessment TSD
10.5	<b>Physical and Cultural Heritage Resources</b>	
	The EIS shall assess the potential effects of onsite and offsite components of the Project on archaeological and heritage resources.	Section 6.3.3 (Physical and Cultural Heritage Resources)
	The EIS shall include:	Physical and Cultural Heritage Resources TSD Section 5 (Summary of Findings)
	■ an archaeological impact assessment of the Project site, including the transmission line corridor; and	
	■ proposed measures to mitigate effects, including, but not limited to the following:	Section 6.3.6 (Mitigation for the Social Environment)
	■ a reference to those archaeological sites which can be avoided by Project design modifications;	Physical and Cultural Heritage Resources TSD Section 2.2.3 (Field Studies)
	■ a discussion of the process used to select an impact management action from among various possible alternative actions for any specific site;	Physical and Cultural Heritage Resources TSD Section 3.1 (Effects Assessment Methods)
	■ justification for not recommending site-specific action;	Physical and Cultural Heritage Resources TSD Section 5 (Summary of Findings)
■ archaeological compensation recommendations; and	Physical and Cultural Heritage Resources TSD Section 5 (Summary of Findings)	
■ recommendations or a tentative schedule for conducting surveillance and/or monitoring during Project implementation.	Physical and Cultural Heritage Resources TSD Section 4 (Monitoring Program)	

**Table 1: Concordance between Canadian Environmental Assessment Agency’s Environmental Impact Statement Guidelines and the Hammond Reef Gold Project Environmental Impact Statement/Environmental Assessment Report (Continued)**

Environmental Impact Statement Guidelines		Section in EIS/EA Report
Section	Requirement	
10.6	<b>Effects of the Environment on the Project</b>	
	(...) the EIS shall take into account how local conditions and natural hazards, such as severe and/or extreme weather conditions and external events (e.g. flooding, ice jams, rock slides, landslides, fire, drought, low snowfall during winter, outflow conditions and seismic events) could adversely affect the project. These events should be considered in different probability patterns (i.e., 5 year flood vs. 100 year flood).	Section 6.5 (Effects of the Environment on the Project)
	The EIS shall include other considerations in relation to the assessment of the effects of the environment including any downstream water users that have water use agreements already in place and water quantity/availability for long term tailings management. Longer-term effects of climate change shall also be discussed up to and during the projected post-closure phase of the project.	Section 6.5.1 (Forest Fires)  Section 6.5.3 (Climate Change)
	The sensitivity of the project to long-term climate variability and effects shall be identified and discussed.	Section 6.5.3 (Climate Change)
	The EIS shall provide details of a number of planning, design and construction strategies intended to minimize the potential environmental effects of the environment on the project.	Chapter 8 Section 8.2.4 Emergency and Contingency Planning
10.7	<b>Effects of Potential Accidents or Malfunctions</b>	
	The Proponent shall identify the probability of potential accidents and malfunctions related to the project, including an explanation of how those events were identified, potential consequences (including the environmental effects), the worst case scenarios and the effects of these scenarios.	Chapter 6 Section 6.6 (Potential Effects of Malfunctions and Accidents)
The geographical and temporal boundaries for the assessment of malfunctions and accidents may be different than those in the scope of factors for each VEC. This shall include an identification of the magnitude of an accident and/or malfunction, including the quantity mechanism, rate, form and characteristics of the contaminants and other materials likely to be released into the environment during the accident and malfunction events.		

**Table 1: Concordance between Canadian Environmental Assessment Agency’s Environmental Impact Statement Guidelines and the Hammond Reef Gold Project Environmental Impact Statement/Environmental Assessment Report (Continued)**

Environmental Impact Statement Guidelines		Section in EIS/EA Report
Section	Requirement	
10.7 (Continued)	The EIS shall also describe the safeguards that have been established to protect against such occurrences and the contingency/emergency response procedures in place if an accident and/or malfunction does occur.	Chapter 8 Section 8.2.4 (Emergency Preparedness and Response and Contingency Planning)
	Detailed contingency and response plans should be presented.	Chapter 8 Table 8-11 (Environmental Management Planning, Monitoring and Compliance – Emergency Response and Contingency)
10.8	<b>Capacity of Renewable Resources</b>	
	The EIS shall include an assessment of the capacity of renewable resources that are likely to be significantly affected by the Project to meet the needs of the present and those of the future. The EIS shall identify those resources likely to be significantly affected by the Project, and describe how the Project could affect their sustainable use. The EIS shall also identify and describe any criteria used in considering sustainable use.	Section 6.7 (Capacity of Renewable Resources)
10.9	<b>Cumulative Environmental Effects</b>	
	The EIS shall describe the analysis of the total cumulative effect on a VEC over the life of the project, including the incremental contribution of all current and proposed projects and activities, in addition to that of the project. The EIS shall include different forms of effects (e.g., synergistic, additive, induced, spatial or temporal) and identify impact pathways and trends.	Section 6.8 (Cumulative Environmental Effects)
10.9.1	<b>Scoping</b>	
	The EIS shall identify other developments and activities that will be considered in the assessment of cumulative environmental effects, as well as document the sources of information used to arrive at this identification.	Section 6.8.2 (Scope of Assessment)
	The EIS shall identify and justify the environmental components that will constitute the focus of the cumulative effects assessment.	Section 6.8.1 (Method for Identifying, Predicting and Assessing Cumulative Effects)
	The EIS shall identify and justify the spatial and temporal boundaries for the cumulative effect assessment for each VEC selected.	Chapter 6 Figure 6-13 (Existing and Proposed Project or Activities in the Vicinity of the Project Site)

**Table 1: Concordance between Canadian Environmental Assessment Agency’s Environmental Impact Statement Guidelines and the Hammond Reef Gold Project Environmental Impact Statement/Environmental Assessment Report (Continued)**

Environmental Impact Statement Guidelines		Section in EIS/EA Report
Section	Requirement	
10.9.2	<b>Methodology for Identifying, Predicting and Assessing Cumulative Environmental Effects</b>	
	The EIS should describe the detailed methodology used to determine the environmental effects of these other developments and activities.	Section 6.8.2 (Methodology for Identifying, Predicting and Assessing Cumulative Effects)
10.9.3	<b>Potential Cumulative Effects</b>	
	The EIS shall identify the sources of potential cumulative effects. Specify other projects or activities that have been or will be carried out that could cause effects on each selected VEC within the boundaries defined, and whose effects would act in combination with the residual effects of the project.	Section 6.8.3 (Environmental Effects)
10.9.4	<b>Mitigation Measures</b>	
	The EIS shall identify technically and economically feasible measures that will mitigate any significant adverse cumulative environmental effects. The Proponent shall assess the effectiveness of the mitigation measures. In cases where measures exist that are beyond the scope of the Proponent’s responsibility that could be effectively applied to mitigate the effects, the Proponent shall identify these effects and the parties that have the authority to act. In such cases, the Proponent shall summarize the discussions that took place with the other parties in order to implement the necessary measures over the long term.	N/A
10.9.5	<b>Determination of Significance</b>	
	The Proponent shall determine the significance of the residual cumulative environmental effects that remain after mitigation has been implemented for each cumulative effect (refer to Section 10.1.1.5).	Section 6.8.3 (Environmental Effects)

**Table 1: Concordance between Canadian Environmental Assessment Agency’s Environmental Impact Statement Guidelines and the Hammond Reef Gold Project Environmental Impact Statement/Environmental Assessment Report (Continued)**

Environmental Impact Statement Guidelines		Section in EIS/EA Report
Section	Requirement	
10.10	<b>Summary</b>	Chapter 6 Table 6-64 (Summary of Predicted Cumulative Environmental Effects)
	For all key VECs that were assessed, the EIS should contain a table summarizing the following key information: <ul style="list-style-type: none"> <li>■ concise summary of potential adverse environmental effects;</li> <li>■ summary of proposed mitigation and compensation measures;</li> <li>■ a brief description of potential residual effects;</li> <li>■ a brief description of potential cumulative effects;</li> <li>■ any applicable standards or guidelines;</li> <li>■ comments from the public and responses;</li> <li>■ comments from Aboriginal groups and individuals and responses;</li> <li>■ relationship of the VEC to an Aboriginal group’s potential or established Aboriginal and Treaty right; and</li> <li>■ a table of proposed commitments, summarizing the timing and responsibility of each of the actions for which a commitment (including special management practices or design features) has been made by the Proponent.</li> </ul>	
11.0	<b>Economic and Social Benefits of the Project</b>	Chapter 11 (Economic and Social Benefits of the Project)
	Information on the predicted economic and social benefits of the project should be presented.	
12.0	<b>Benefits to Canadians</b>	Chapter 11 (Economic and Social Benefits of the Project)  Chapter 11 Table 11-6 (Summary of Benefits of Hammond Reef Gold Project to Canadians)
	The Proponent shall describe how the EA process for the proposed project provided a benefit to Canadians.	

**Table 1: Concordance between Canadian Environmental Assessment Agency’s Environmental Impact Statement Guidelines and the Hammond Reef Gold Project Environmental Impact Statement/Environmental Assessment Report (Continued)**

Environmental Impact Statement Guidelines		Section in EIS/EA Report
Section	Requirement	
<b>13.0</b>	<b>Environmental Management</b>	
<b>13.1</b>	<b>Planning</b>	
	The EIS shall describe the proposed EMPs for all stages of the project and include a commitment by the Proponent to implement the EMPs should the project proceed. The finalization of detailed EMPs will occur through consultation with federal and provincial government agencies, Aboriginal groups, the public and other stakeholders. This may occur after the environmental assessment but shall be consistent with the information presented in the EIS.	Chapter 8 (Environmental and Social Management Plan)
<b>13.1.1</b>	<b>Decommissioning and Reclamation Plan</b>	
	The EIS shall provide the preliminary outline of a progressive decommissioning and reclamation plan with goals and objectives for any components associated with the project. This shall include ownership, transfer and control of the different project components as well as the responsibility for monitoring and maintaining the integrity of some of the structures.	Conceptual Closure and Rehabilitation Plan TSD
<b>13.1.2</b>	<b>Follow-Up and Monitoring Program</b>	
	The follow-up program shall be designed to incorporate baseline data, compliance data (such as established benchmarks, regulatory documents, standards or guidelines) and real time data (such as observed data gathered in the field). The Proponent shall describe the compliance reporting methods to be used, including reporting frequency, methods and format.	Chapter 8 Environmental and Social Management Planning
	The follow-up program shall include a schedule indicating the frequency and duration of effects monitoring.	Chapter 8 Environmental and Social Management Planning (Introduction)  Chapter 8 Tables 8-3 to 8-7 and 8-9 to 8-10
	The description of the follow-up program shall include any contingency procedures/plans or other adaptive management provisions as a means of addressing unforeseen effects or for correcting exceedances as required to comply or to conform to benchmarks, regulatory standards or guidelines.	Chapter 8 Table 8-2 (Environmental Management Planning - Physical)  Table 8-8 (Environmental Management Planning – Biological)

**Table 1: Concordance between Canadian Environmental Assessment Agency’s Environmental Impact Statement Guidelines and the Hammond Reef Gold Project Environmental Impact Statement/Environmental Assessment Report (Continued)**

Environmental Impact Statement Guidelines		Section in EIS/EA Report
Section	Requirement	
13.1.2 (Continued)	<p>The EIS shall provide the following:</p> <ul style="list-style-type: none"> <li>■ a discussion of the proposed follow-up program and its objectives;</li> <li>■ a description of the main components of the program and each monitoring activity under that component;</li> <li>■ a discussion of the objectives the monitoring activity is fulfilling (i.e. confirmation of mitigation, confirmation of assumptions; verification of predicted effects);</li> <li>■ the structure of the program;</li> <li>■ a schedule for the finalization and implementation of the follow-up program;</li> </ul>	<p>Chapter 8 (Environmental and Social Management Planning)</p> <p>Tables 8-3 to 8-7 (Proposed Monitoring Program – Social)</p> <p>Tables 8-9 and 8-10 (Proposed Monitoring Program – Biological)</p>
	<ul style="list-style-type: none"> <li>■ a description of the roles and responsibilities for the program and its review process, by both peers, Aboriginal groups, and the public;</li> <li>■ possible involvement of independent researchers;</li> <li>■ the sources of funding for the program; and</li> <li>■ information management and reporting.</li> </ul>	<p>Chapter 8 Section 8.1.2 (Roles and Responsibilities)</p> <p>Section 8.1.3 (Reporting and Information Sharing)</p>
14.0	<b>Table of Commitments</b>	
	<p>The EIS shall summarize the Proponent’s key commitments in implementing mitigations, contingency plans, monitoring, taking corrective actions, reclaiming the site and providing offsets for unavoidable Project effects. The summary of commitments shall include:</p> <ul style="list-style-type: none"> <li>■ a summary of all significant management commitments;</li> </ul>	<p>Chapter 9 (Commitments Registry)</p>
	<ul style="list-style-type: none"> <li>■ any applicable standards, legislation and/or policies; a discussion of any special management practices or design feature commitments; and</li> </ul>	<p>Chapter 10 (Other Approvals)</p>
	<ul style="list-style-type: none"> <li>■ a table summarizing the timing and responsibility for each of the actions for which a commitment has been made.</li> </ul>	<p>Chapter 9 (Commitments Registry)</p>



**Table 1: Concordance between Canadian Environmental Assessment Agency’s Environmental Impact Statement Guidelines and the Hammond Reef Gold Project Environmental Impact Statement/Environmental Assessment Report (Continued)**

Environmental Impact Statement Guidelines		Section in EIS/EA Report
Section	Requirement	
15.0	<b>Assessment Summary and Conclusion</b>	Executive Summary  Chapter 12 (Summary and Conclusions)
	This section of the report shall summarize the overall findings with emphasis on the main environmental issues identified.	

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## 2.0 CONCORDANCE WITH TERMS OF REFERENCE APPROVED BY THE ONTARIO MINISTER OF THE ENVIRONMENT

**Table 2: Concordance between Terms of Reference and the Hammond Reef Gold Project Environmental Impact Statement/Environmental Assessment**

Terms of Reference		Section in EIS/EA Report
Section	Requirement	
1.0	<b>Identification of the Proponent</b>	Section 1.2 (The Proponent)
2.0	<b>Identification of How the EA is to be Prepared</b>	
	The EA Study will be prepared in accordance with the requirements of the Ontario EAA, R.S.O. 1990, Chapter E. 18, under subsection 6.1(2).  The scope of the EA Study includes:	Chapter 5 (Project Description)
	■ Development of a detailed Project Description, that identifies all components of the Project, through all Project phases, including projected timelines;	
	■ Identification of potential Project-environment interactions to identify potential sources of impacts, including alternatives and alternative methods;	Chapter 4 (Assessment of Alternatives)
	■ Completion of baseline studies to define existing socio-economic/cultural and environmental conditions;	Chapter 3 (Existing Conditions)
■ Development of criteria selection to allow for assessment of potential Project effects, including alternatives and alternative methods;	Chapter 2 (Environmental Assessment Methods)  Chapter 4 (Assessment of Alternatives)	
■ Assessment of potential impacts of different alternatives to the Project and alternative methods of carrying out the Project;	Chapter 4 (Assessment of Alternatives)	

**Table 2: Concordance between Terms of Reference and the Hammond Reef Gold Project Environmental Impact Statement/Environmental Assessment (Continued)**

Terms of Reference		Section in EIS/EA Report
Section	Requirement	
2.0 (Continued)	<ul style="list-style-type: none"> <li>Assessment of potential effects of the Project, including alternatives and alternative methods, and development of mitigation measures, as required;</li> </ul>	<p>Chapter 4 (Assessment of Alternatives)</p> <p>Chapter 6 (Effects Assessment)</p> <p>Section 6.1.5 (Mitigation Measures for the Physical Environment)</p> <p>Section 6.2.4 (Mitigation Measures for the Biological Environment)</p> <p>Section 6.3.6 (Mitigation Measures for the Social Environment)</p>
	<ul style="list-style-type: none"> <li>Development of decision-making tools to identify the Project alternatives with the most acceptable level of environmental and socio-economic effects;</li> </ul>	<p>Chapter 4 (Assessment of Alternatives)</p> <p>Alternatives Assessment TSD Section 2.0 (Alternatives Assessment Method)</p>

**Table 2: Concordance between Terms of Reference and the Hammond Reef Gold Project Environmental Impact Statement/Environmental Assessment (Continued)**

Terms of Reference		Section in EIS/EA Report
Section	Requirement	
2.0 (Continued)	<ul style="list-style-type: none"> <li>■ Completion of a Consultation Report and development of a Consultation Plan for ongoing consultation throughout the life of the Project;</li> </ul>	<p>Chapter 7 (Public Consultation and Aboriginal Engagement)</p> <p>Section 7.1.5 (Outstanding Concerns from the Public)</p> <p>Section 7.2.4 (Ongoing Communication and Review)</p> <p>Section 7.3.6 (Ongoing Aboriginal Engagement)</p>
	<ul style="list-style-type: none"> <li>■ Development of monitoring plans and follow-up programs</li> </ul>	<p>Chapter 8 (Environmental and Social Management Plan)</p>

**Table 2: Concordance between Terms of Reference and the Hammond Reef Gold Project Environmental Impact Statement/Environmental Assessment (Continued)**

Terms of Reference		Section in EIS/EA Report
Section	Requirement	
2.2.4	<b>Environmental Studies and Preparation of the EA Report</b>	
	OHRG will prepare one set of TSDs to meet the needs of both the federal EIS Guidelines and provincial ToR.	<p>Section 1.10.5 (Environmental Studies and Preparation of the Environmental Assessment Report)</p> <p>Technical Support Documents:</p> <ul style="list-style-type: none"> <li>■ Atmospheric Environment TSD</li> <li>■ Geochemistry, Geology and Soil TSD</li> <li>■ Hydrogeology TSD</li> <li>■ Hydrology TSD</li> <li>■ Water and Sediment Quality TSD</li> <li>■ Site Water Quality TSD</li> <li>■ Lake Water Quality TSD</li> <li>■ Aquatic Environment TSD</li> <li>■ Terrestrial Ecology TSD</li> <li>■ Aboriginal Interests TSD</li> <li>■ Cultural Heritage Resources TSD</li> <li>■ Human Health and Ecological Risk Assessment TSD</li> <li>■ Socio-economic Environment TSD</li> <li>■ Alternatives Assessment Report</li> <li>■ Conceptual Closure and Rehabilitation Plan</li> </ul>
	(...) OHRG will complete the baseline characterization studies to predict and assess potential environmental effects of the Project alternatives.	Chapter 3 (Existing Conditions)
	The assessment will consider direct, indirect and cumulative effects of the alternatives to and alternative methods for the Project, allowing OHRG to choose the most suitable option.	Chapter 6 (Effects Assessment)

**Table 2: Concordance between Terms of Reference and the Hammond Reef Gold Project Environmental Impact Statement/Environmental Assessment (Continued)**

Terms of Reference		Section in EIS/EA Report
Section	Requirement	
2.4	<b>EA Report</b>	
	The EA Report will provide details regarding the rationale for the selected Project alternative and alternative method and will be written to meet all provincial and federal requirements.	Chapter 4 (Assessment of Alternatives)  Section 4.1.3 (Selection of the Preferred Alternative)  Section 4.2.11 (Summary of Preferred Means of Carrying out the Project)  Section 4.3.6 (Summary of Preferred Mine Waste Disposal Alternative)
	The first volume of the EA Report will be the EIS and will provide a concise summary of environmental and socio-economic impacts and mitigation measures related to the Project.	Chapters 6 (Effects Assessment)
	Physiography and geology;	Section 6.1.1 (Geology, Geochemistry and Soils)
	Atmospheric environment, including air quality, noise, climate and meteorology;	Section 6.1.2 (Atmospheric Environment)
	Hydrology;	Section 6.1.3 (Water Quantity and Quality)
	Hydrogeology;	
	Water quality and geochemistry;	
	Terrestrial biology;	Section 6.2.1 (Terrestrial Ecology)
Aquatic biology;	Section 6.2.2 (Aquatic Ecology)	

**Table 2: Concordance between Terms of Reference and the Hammond Reef Gold Project Environmental Impact Statement/Environmental Assessment (Continued)**

Terms of Reference		Section in EIS/EA Report
Section	Requirement	
2.4 (Continued)	Fish and Fish Habitat Mitigation and Compensation Plan;	Aquatic Environment TSD Appendix 2.III Draft No Net Loss Plan
	Socio-economic and cultural heritage resources; and	Section 6.3 (Social Effects Assessment)
	Alternatives assessment for mine waste disposal.	Chapter 4 (Alternatives Assessment)  Alternatives Assessment TSD Appendix 3.1 (Mine Waste Alternatives Assessment)
3.0	<b>Purpose of the Undertaking</b>	
	The purpose and details of the undertaking will be described in greater detail in the EA Report.	Chapter 1 Section 1.3 (Need for and Purpose of the Project)  Chapter 5 (Project Description)
4.0	<b>Description and Rationale for the Project</b>	
4.3.1	<b>Construction Phase</b>	
	Additional details regarding the management of Mitta Lake will be included in the EA Report	Section 5.1.1 (Construction Phase)
4.3.2	<b>Operations Phase</b>	
	Additional information on runoff and seepage systems will be provided in the EA Report.	Section 5.2.7 (Water Management System)  Hydrogeology TSD Supplemental Information Package (Design Basis for Runoff and Seepage Collection)

**Table 2: Concordance between Terms of Reference and the Hammond Reef Gold Project Environmental Impact Statement/Environmental Assessment (Continued)**

Terms of Reference		Section in EIS/EA Report
Section	Requirement	
4.3.2 (Continued)	A complete assessment, including a “dry land” option will be completed for the EA as per regulatory requirements.	Chapter 4 Section 4.3.3 (Tailings Management Facility Siting)  Alternatives Assessment TSD Appendix 3.1 (Mine Waste Alternatives Assessment)
4.3.3	<b>Closure and Post-Closure Phase</b>	
	The EA will assess alternative methods for the decommissioning and closure phase which will include a list of activities that are designed to ensure that the Project site is closed in a manner that reduces the potential impacts on the social and natural environment.	Chapter 5 Section 5.1.3 (Closure and Post-closure Phases)  Conceptual Closure and Rehabilitation Plan TSD Supplemental Information Package (Closure Alternatives)
	The decommissioning and closure assessment in the EA will include the responsibility for monitoring and maintaining the integrity of the environment and any retained infrastructure. The decommissioning assessment in the EA will include:	Conceptual Closure and Rehabilitation Plan TSD
	<ul style="list-style-type: none"> <li>■ Short and long-term plans for any remaining dams in regard to tailings impoundment, water flows and levels;</li> </ul>	Conceptual Closure and Rehabilitation Plan TSD
	<ul style="list-style-type: none"> <li>■ Expected environmental conditions after the closure measures are implemented;</li> </ul>	Conceptual Closure and Rehabilitation Plan TSD
	<ul style="list-style-type: none"> <li>■ Monitoring of biotic resources affected by the Project;</li> </ul>	Conceptual Closure and Rehabilitation Plan TSD Section 5.3 (Biological Monitoring)
<ul style="list-style-type: none"> <li>■ Vegetated areas that will be rehabilitated by active measures or by natural revegetation;</li> </ul>	Conceptual Closure and Rehabilitation Plan TSD Section 5.3 (Biological Monitoring)	
<ul style="list-style-type: none"> <li>■ A vegetative plan that addresses communities and species to be renewed;</li> </ul>	Conceptual Closure and Rehabilitation Plan TSD Section 4.0 (Rehabilitation Measures at Closure)	

**Table 2: Concordance between Terms of Reference and the Hammond Reef Gold Project Environmental Impact Statement/Environmental Assessment (Continued)**

Terms of Reference		Section in EIS/EA Report
Section	Requirement	
4.3.3 (Continued)	<ul style="list-style-type: none"> <li>■ Groundwater and surface water monitoring for all areas impacted by the Project;</li> </ul>	Conceptual Closure and Rehabilitation Plan TSD Section 5.3.1 (Aquatic Monitoring Program)
	<ul style="list-style-type: none"> <li>■ Maintenance and/or management of open pits, mine rock stockpiles, permanent Tailings Impoundment Areas; and,</li> </ul>	Conceptual Closure and Rehabilitation Plan TSD Section 4.0 (Rehabilitation Measures at Closure)
	<ul style="list-style-type: none"> <li>■ Anticipated pit overflow etc.</li> </ul>	Conceptual Closure and Rehabilitation Plan TSD Supplemental Information Package (Revised Pit Flooding Memo)
	The EA will also include a decommissioning assessment that will include alternative methods for decommissioning and planning of future use of the land.	Conceptual Closure and Rehabilitation Plan TSD Supplemental Information Package (Closure Alternatives)
	The EA will clearly define ongoing environmental commitments.	Chapter 9 (Commitments Registry)
5.0	<p><b>Description and Rationale for Alternatives</b></p> <p>Detailed methods, including a description of and rationale for criteria and indicators used in the assessment of alternatives will be provided in the EA.</p>	<p>Chapter 4 (Assessment of Alternatives)</p> <p>Alternatives Assessment TSD Section 2.0 (Alternatives Assessment Method)</p>
5.1	<b>Alternatives to the Project</b>	
5.1.1	<b>Do Nothing Alternative</b>	
	The EA will evaluate whether the anticipated benefits of the Project outweigh the predicted impacts of proceeding. A comparison of the proposed project against the “do nothing” alternative” will evaluate the potential natural environmental impacts of the proposal against the potential socio-economic benefits.	Chapter 4 Section 4.1.2 (“Do Nothing” Alternative)
5.2	<b>Alternative Methods for the Project</b>	
	The EA Report will identify and describe alternative methods of carrying out the Project that are technically and economically feasible.	Section 4.2 (Alternative Means of Carrying out the Project)

**Table 2: Concordance between Terms of Reference and the Hammond Reef Gold Project Environmental Impact Statement/Environmental Assessment (Continued)**

Terms of Reference		Section in EIS/EA Report
Section	Requirement	
5.2.1	<b>Mine Development Alternatives</b>	Section 4.2.1 (Preliminary Screening)
5.2.2	<b>Ore Processing Alternatives</b>	Section 4.2.3 (Ore Processing Method)
5.2.3	<b>Ore Stockpile Alternatives</b> The final location and footprint, as well as a description of the alternatives evaluation, will be described in the EA Report.	Section 4.2.1 (Preliminary Screening)
5.2.4	<b>Explosives Store Alternatives</b>	Section 4.2.1 (Preliminary Screening)
5.2.5	<b>Power Supply Alternatives</b>	Supply 4.2.8 (Power Supply)
5.2.6	<b>Chemicals and Fuel Storage Alternatives</b>	Section 4.2.1 (Preliminary Screening)
5.2.7	<b>Water Management Alternatives</b>  A detailed water balance will be developed and included in the EA Report based on an assessment of alternative methods for the following components of the water supply plan:	
	<ul style="list-style-type: none"> <li>■ Source from Turtle Bay</li> <li>■ Source from Hogarth Pit</li> <li>■ Source from Marmion Basin</li> <li>■ No recycle of water</li> <li>■ Recycle as much water as possible</li> <li>■ Avoid Lynxhead Bay for water discharge</li> <li>■ Discharge to Lynxhead Bay</li> </ul>	Section 4.2.1 (Preliminary Screening)  Section 4.2.6 (Water Discharge)  Section 6.1.3 (Water Quantity and Quality)  Site Water Quality TSD Appendix 3.II Site Wide Water Balance

**Table 2: Concordance between Terms of Reference and the Hammond Reef Gold Project Environmental Impact Statement/Environmental Assessment (Continued)**

Terms of Reference		Section in EIS/EA Report
Section	Requirement	
5.2.8	<b>Waste Management Alternatives</b>	
	OHRG plans to undertake the assessment of alternatives for mine waste disposal (including waste rock, tailings, organic and solid waste, hazardous waste, sewage and treatment sludge) as a component of the EA to streamline the overall regulatory review process and minimize the time required to proceed with the regulatory process.	Section 4.3 (Mine Waste Disposal Alternatives)  Alternatives Assessment TSD Appendix 3.1 (Mine Waste Alternatives Assessment)
5.2.8.1	<b>Waste Rock Storage Alternatives</b>	
	The final location and footprint, as well as a description of the alternatives evaluation, will be described in the EA Report.	Section 4.3.4 (Waste Rock Management Facility Siting)
5.2.8.2	<b>Tailings Management Alternatives</b>	
	The Base Case has been designed to take advantage of a natural ridge that would form the northern containment for the Tailings Management Facility, and limits the construction of the tailings berms to the east, south and west sides. Alternative 1 is co-located with the Base Case tailings, and Alternative 2 is located to the southeast. These locations will be described further in the EA Report.	Section 4.3.5 (Tailings Management Facility Siting)
5.2.8.3	<b>Tailings Pipeline Alternatives</b>	Chapter 4 Section 4.2.1 (Preliminary Screening)
5.2.8.4	<b>Organic and Solid Waste Alternatives</b>	Chapter 4 Section 4.2.1 (Preliminary Screening)
		Chapter 8 (Environmental and Social Management Plan)  Table 8-8 (Environmental Management Planning)
5.2.8.5	<b>Hazardous Waste Alternatives</b>	Section 4.2.1 (Preliminary Screening)

**Table 2: Concordance between Terms of Reference and the Hammond Reef Gold Project Environmental Impact Statement/Environmental Assessment (Continued)**

Terms of Reference		Section in EIS/EA Report
Section	Requirement	
5.2.8.6	<b>Sewage Treatment Alternatives</b>	
	Alternative sewage treatment methods will be considered as part of the Environmental Assessment.	Section 4.2.4 (Sewage Treatment Technology)  Section 4.2.5 (Sewage Treatment Facility Location)
5.2.9	<b>Access Roads Alternatives</b>	
	Alternative routes will be described in the EA Report, and evaluated to select the preferred alternative.	Section 4.2.7 (Access Road)
5.2.10	<b>Office and Support Facilities Alternatives</b>	Section 4.2.1 (Preliminary Screening)
5.3	<b>Preliminary Screening of Alternative Methods</b>	
	The EA will include a comparative analysis of acceptable alternatives, including an assessment of the advantages and disadvantages of each alternative and the determination of the best alternative to address the opportunity.	Chapter 4 (Assessment of Alternatives)
	A detailed list of alternatives and the detailed methods used for the assessment will be provided in the EA Report.	Chapter 4 (Assessment of Alternatives)
6.0	<b>Description of the Environment and Potential Effects</b>	
	A more detailed description of the existing environment will be provided in the EA, once the baseline studies have been completed. The existing environment will be further described based on field studies conducted using standard protocols and scientifically defensible methods for each discipline. Methods will be further described in the EA, and will include collection of information such as:	Chapter 3 (Existing Conditions)
	<ul style="list-style-type: none"> <li>■ Site water quality and quantity;</li> </ul>	Section 3.2.6 (Hydrology)  Section 3.2.8 (Water and Sediment Quality)

**Table 2: Concordance between Terms of Reference and the Hammond Reef Gold Project Environmental Impact Statement/Environmental Assessment (Continued)**

Terms of Reference		Section in EIS/EA Report
Section	Requirement	
6.0 (Continued)	■ Groundwater quantity, quality, movement and flow patterns;	Section 3.2.7 (Hydrogeology)
	■ Soils and sediment type and quality;	Section 3.2.4 (Terrain and Soil)
		Section 3.2.8 (Water and Sediment Quality)
	■ Vegetation and wetland communities;	Section 3.2.10.3 (Results - Vegetation)
	■ Wildlife communities;	Section 3.2.10.4 (Results - Avifauna)
Section 3.2.10.5 (Results - Mammals)		
Section 3.2.10.6 (Results – Amphibians and Reptiles)		
■ Aquatic communities;	Section 3.2.10.7 (Results - Invertebrates)	
	Section 3.2.9.3.2 (Fish Species)	
	Section 3.2.9.3.3 (Benthic Communities)	

**Table 2: Concordance between Terms of Reference and the Hammond Reef Gold Project Environmental Impact Statement/Environmental Assessment (Continued)**

Terms of Reference		Section in EIS/EA Report
Section	Requirement	
6.0 (Continued)	<ul style="list-style-type: none"> <li>■ Physiography, geology and geochemistry;</li> </ul>	Section 3.2.1 (Regional Geology)  Section 3.2.2 (Geology)  Section 3.2.3 (Geochemistry)
	<ul style="list-style-type: none"> <li>■ Atmospheric environment, including air quality, noise, climate and meteorology;</li> </ul>	Section 3.2.5 (Atmospheric Environment)
	<ul style="list-style-type: none"> <li>■ Socio-economic conditions; and</li> </ul>	Section 3.3 (Socio-economic Environment)
	<ul style="list-style-type: none"> <li>■ Cultural heritage resources including archaeology, built heritage and cultural heritage landscapes.</li> </ul>	Section 3.4 (Physical and Cultural Heritage Resources)
6.1	<b>General Site Information</b>	Section 1.1 (Project Location)
6.2	<b>Physiography, Geology and Geochemistry</b>	Section 3.2.1 (Regional Geology)  Section 3.2.2 (Geology)  Section 3.2.3 (Geochemistry)
6.3	<b>Atmospheric Environment</b>	
	Existing noise levels will be established using published literature and accepted background noise levels for remote areas in Ontario.	Section 3.2.5.3 (Noise)

**Table 2: Concordance between Terms of Reference and the Hammond Reef Gold Project Environmental Impact Statement/Environmental Assessment (Continued)**

Terms of Reference		Section in EIS/EA Report
Section	Requirement	
6.4	<b>Hydrology</b>	
	The EA will give consideration to the potential effects of the Project on Seine River water management, in particular at Raft Lake dam and water power facilities downstream.	Chapter 6 Section 6.1.3.1.2 (Changes in Stream Flows)  Section 6.1.3.1.3 (Changes in Lake Water Levels)
6.5	<b>Hydrogeology</b>	
	The study will obtain sufficient hydrogeological information, including baseline groundwater quality, flow directions and hydraulic conductivity to allow for the identification of impacts that may occur as a result of the undertaking.	Section 3.2.7 (Hydrogeology)  Hydrogeology TSD Section 2.3 (Existing Conditions - Quantity)  Section 3.3 (Existing Conditions – Quality)
	The assessment will include an analysis of contaminant attenuation capacities and incorporation of appropriate mitigation measures.	Hydrogeology TSD Supplemental Information Package
6.6	<b>Water Quality</b>	
	A full assessment of existing water and sediment quality will be provided in the EA.	Section 3.2.8 (Water and Sediment Quality)  Water and Sediment Quality TSD

**Table 2: Concordance between Terms of Reference and the Hammond Reef Gold Project Environmental Impact Statement/Environmental Assessment (Continued)**

Terms of Reference		Section in EIS/EA Report
Section	Requirement	
6.6 (Continued)	Where project related impacts cannot be mitigated, habitat will be quantified so that appropriate habitat compensation can be determined, incorporating habitat requirements of the fish species present.	Section 6.2.2.1 (Construction Phase)  Table 6-48 (Aquatic Habitats Directly Affected by Site Development)  Aquatic Environment TSD Appendix 2.III (Draft No Net Loss Plan)
6.7	<b>Biology</b>	
6.7.1	<b>Terrestrial Environment</b>	Section 3.2.8 (Terrestrial Environment)
6.7.2	<b>Aquatic Environment</b>	
	An assessment of water bodies that will be potentially affected by the Project, including mine waste disposal, has been initiated and will be included in the EA Report.	Section 6.1.3.1.2 (Changes in Stream Flows)  Section 6.1.3.1.3 (Changes in Lake Water Levels)  Section 6.2.2.1 (Construction Phase)
7.0	<b>Assessment and Evaluation</b>	
	The assessment of alternatives will employ a formal evaluation. Methodology will be described in greater detail in the EA Report.	Chapter 4 (Assessment of Alternatives)  Alternatives Assessment TSD Section 2.0 (Alternatives Assessment Method)

**Table 2: Concordance between Terms of Reference and the Hammond Reef Gold Project Environmental Impact Statement/Environmental Assessment (Continued)**

Terms of Reference		Section in EIS/EA Report
Section	Requirement	
7.1	<p><b>Define Study Areas</b></p> <p>Because the magnitude of an impact depends in part on the geographic extent of the impact, the impact assessment will be considered with respect to specific areas.</p>	<p>Chapter 2 Section 2.2.2.2 (Spatial Boundaries)</p> <p>Figure 2-1: Mine Study Area and Linear Infrastructure Study Area Figure 2-2A: Aboriginal Interests Local Study Area Figure 2-2B: Aquatic Environment Local Study Area Figure 2-2C: Air Quality and Human Health Local Study Area Figure 2-2D: Cultural Heritage Resources Local Study Area Figure 2-2E: Geochemistry Local Study Area Figure 2-2F: Terrain and Soil Local Study Area Figure 2-2G: Hydrogeology Local Study Area Figure 2-2H: Hydrology Local Study Area Figure 2-2I: Socio-economic Local Study Area Figure 2-2J: Terrestrial Ecology Local Study Area Figure 2-2K: Water Quality Local Study Area Figure 2-3A: Aboriginal Regional Study Area Figure 2-3B: Aquatic Environment Regional Study Area Figure 2-3C: Air Quality and Human Health Regional Study Area Figure 2-3D: Geology Regional Study Area Figure 2-3E: Socio-economic Regional Study Area Figure 2-3F: Terrestrial Ecology Regional Study Area Figure 2-3G: Water Quality Regional Study Area</p>

**Table 2: Concordance between Terms of Reference and the Hammond Reef Gold Project Environmental Impact Statement/Environmental Assessment (Continued)**

Terms of Reference		Section in EIS/EA Report
Section	Requirement	
7.2	<b>Data Collection</b>	
	The EA will provide detailed information on the methods and approach of each baseline study.	Chapter 3 (Existing Conditions)
7.2.1	<b>Criteria and Indicators</b>	
	The EA will evaluate criteria for the physical, biological and socio-economic environments to determine the potential effects of the alternative methods for the entire life-cycle of the Project, including construction, operations, closure and post-closure.	Section 2.5.2 (Physical Environment Valued Ecosystem Component Selection Criteria)  Section 2.5.3 (Biological Environment Valued Ecosystem Component Selection Criteria)  Section 2.5.4 (Socio-economic Environment Valued Ecosystem Component Selection Criteria)
	In addition to predictions of changes to physical environmental components, the EA will include a determination of significance based on the biological and human receptors that are subject to those changes.	Section 2.6.5.1 (Method for Determining Significance)
	The socio-economic impact assessment will take into consideration potential environmental effects during the construction, operations and closure stages of the Project.	Section 6.3 (Social Effects Assessment)
	This impact analysis will be used to determine the preferred alternative for the Project.	Section 4.4 (Preferred Project Alternatives)
7.2.2	<b>Baseline Characterization Tools</b>	
	Baseline studies will be conducted in detail, focusing on quantitative assessments of existing conditions. Baseline studies will include: <ul style="list-style-type: none"> <li>■ Sampling and analysis of relevant environmental media (e.g., meteorological conditions, water, sediment, soil, vegetation, fish tissues, etc.);</li> </ul>	Chapter 3 (Existing Conditions)

**Table 2: Concordance between Terms of Reference and the Hammond Reef Gold Project Environmental Impact Statement/Environmental Assessment (Continued)**

Terms of Reference		Section in EIS/EA Report
Section	Requirement	
7.2.2 (Continued)	<ul style="list-style-type: none"> <li>■ Assessment of ecological features (e.g., aquatic and terrestrial habitats, wetlands) following standard protocols;</li> <li>■ Assessment of species present, including any rare, threatened or endangered species, and their usage of existing habitats; and</li> </ul>	<p>Section 3.2.10.3 (Results - Vegetation)</p> <p>Section 3.2.10.4 (Results - Avifauna)</p> <p>Section 3.2.10.5 (Results - Mammals)</p> <p>Section 3.2.10.6 (Results – Amphibians and Reptiles)</p> <p>Section 3.2.10.7 (Results - Invertebrates)</p>
	<ul style="list-style-type: none"> <li>■ Assessment of socio-economic conditions through collection, and analysis of secondary data sources, key informant interviews and the consideration of information obtained through engagement and consultation with Aboriginal communities and stakeholders.</li> </ul>	<p>Section 3.3 (Socio-economic Environment)</p>
7.2.3	<b>Indicators</b>	
	The EA Report will explain and justify methods used to predict the effects of the Project on the environment, including physical, biological, socio-economic.	<p>Chapter 2 (Environmental Assessment Methods)</p>

**Table 2: Concordance between Terms of Reference and the Hammond Reef Gold Project Environmental Impact Statement/Environmental Assessment (Continued)**

Terms of Reference		Section in EIS/EA Report
Section	Requirement	
7.3	<p><b>Evaluate Alternative Methods</b></p> <p>Each of the “alternatives methods” will be evaluated in a qualitative comparative process to determine the preferred alternative. The comparative evaluation will take into consideration the finalized criteria and indicators.</p> <p>For each of the finalized criteria, the corresponding technical discipline will undertake a quantitative assessment (to the extent contemplated by the indicator) of each alternative. The methodology for the environmental impact analysis will include the following steps:</p> <ul style="list-style-type: none"> <li>■ Identification of project and environmental interactions that could result in measurable impacts;</li> <li>■ Identification of the suitable physical, biological, and socio-economic components that could be affected by project activities;</li> <li>■ Prediction of environmental and socio-economic impacts;</li> <li>■ Evaluation of potential effects of alternatives to and alternative methods of carrying out the Project;</li> <li>■ Evaluation and selection of the preferred project alternative and alternative method;</li> <li>■ Evaluation of advantages and disadvantages of alternatives to and alternative methods of carrying out the Project;</li> <li>■ Identification of mitigation measures to minimize identified impacts; and</li> <li>■ Assessment of the significance of the potential impacts.</li> <li>■ Methodology will be described in greater detail in the EA Report.</li> </ul> <p>The identification of potential environmental impacts will be undertaken on the basis of the identified Project activities and the likely interactions of these with the natural environment, including issues identified in consultation with Aboriginal communities, regulators and other stakeholders.</p> <p>A systematic and consistent approach will be employed in the assessment of Project alternatives and potential impacts, including an assessment of advantages and disadvantages. Proposed mitigation measures will be considered in order to determine residual impacts and their net significance.</p>	<p>Chapter 4 (Alternatives Assessment)</p> <p>Alternatives Assessment TSD</p>

**Table 2: Concordance between Terms of Reference and the Hammond Reef Gold Project Environmental Impact Statement/Environmental Assessment (Continued)**

Terms of Reference		Section in EIS/EA Report
Section	Requirement	
7.3.1	<p><b>Numerical Modelling</b></p> <p>Modelling methods used by the various disciplines will be described in detail in the Technical Support Documents and summarized in the EA Report.</p>	<p>Technical Support Documents:</p> <ul style="list-style-type: none"> <li>■ Atmospheric Environment TSD</li> <li>■ Hydrogeology TSD</li> <li>■ Hydrology TSD</li> <li>■ Site Water Quality TSD</li> <li>■ Lake Water Quality TSD</li> <li>■ Human Health and Ecological Risk Assessment TSD</li> </ul>
7.3.2	<p><b>Impact Management</b></p>	
7.3.3	<p><b>Net Effects</b></p> <p>A complete list of policies and guidelines, will be provided in the EA Report</p>	<p>Chapter 1 Section 1.10.7 (Relevant Government Policies and Guidelines)</p> <p>Section 1.10.8 (Aboriginal Policies and Guidelines)</p>

**Table 2: Concordance between Terms of Reference and the Hammond Reef Gold Project Environmental Impact Statement/Environmental Assessment (Continued)**

Terms of Reference		Section in EIS/EA Report
Section	Requirement	
7.3.3 (Continued)	A complete list of criteria and standards will be provided in the EA Report	Chapter 2 (EA Methods)  Section 2.5 (Selection of Valued Ecosystem Components)  Chapter 8 (Environmental and Social Management Planning)  Table 8-2 and Table 8-8 (Environmental Management Planning, Monitoring and Compliance)
	A complete list of methods will be provided in the EA Report.	Chapter 2 (EA Methods)
	The net effects for the physical components will be described in detail in the EA Report.	Chapter 6 Section 6.4 (Residual Effects Assessment)
	The rationale for selection of specific biological indicators will be provided in the EA Report.	Chapter 2 Section 2.5 (Selection of Valued Ecosystem Components)
	The net effects for the biological components will be described in detail in the EA Report.	Chapter 6 Section 6.4 (Residual Effects Assessment)

**Table 2: Concordance between Terms of Reference and the Hammond Reef Gold Project Environmental Impact Statement/Environmental Assessment (Continued)**

Terms of Reference		Section in EIS/EA Report
Section	Requirement	
7.4	<b>Identify the Preferred Methods</b>	
	The net effects of the predicted changes in the environment will be assessed relative to measurement criteria. The assessment of net effects will be conducted in consideration of different assessment categories that are used to predict the magnitude and likelihood of an effect.	Chapter 6 Section 6.4 (Residual Effects Assessment)
	The assessment will be conducted with the use of tables that organize and summarize the process described above into comparable and intuitive presentations for each of the construction, operations, and closure and post-closure phases.	Table 6-55 (Environmental Impact Assessment Matrix – Construction)  Table 6-56 (Environmental Impact Assessment Matrix – Operations)  Table 6-57 (Environmental Impact Assessment Matrix – Closure and Post-closure)
7.5	<b>Identify the Proposed Undertaking</b>	
	The EA Report will provide a description of all the components of the Project.	Chapter 5 (Project Description)
	The Project description will include the following details: ■ The Project footprint;	Section 5.2 (Project Components)
	■ The materials to be used;	Section 5.2.4 (Ore Processing Facility)
■ Technologies, procedures and processes;	Section 5.2 (Project Components)	

**Table 2: Concordance between Terms of Reference and the Hammond Reef Gold Project Environmental Impact Statement/Environmental Assessment (Continued)**

Terms of Reference		Section in EIS/EA Report
Section	Requirement	
7.5 (Continued)	<ul style="list-style-type: none"> <li>■ The products, by products and waste generated; and</li> <li>■ Hazardous materials, water and waste management systems.</li> </ul>	Section 5.2.6.2 (Hazardous and Non-hazardous Waste Management)
		Section 5.2.7 (Water Management System)
8.0	<b>Commitments and Monitoring</b>	
	The EA Report will outline two impact management plans, an Environmental Management Plan (EMP) and a Social Management Plan (SMP). These plans will: <ul style="list-style-type: none"> <li>■ Provide a comprehensive list of commitments made by OHRG during the ToR process, and detail where or how they have been dealt with in the EA;</li> </ul>	Chapter 7 Table 7-4 (Commitments from the Terms of Reference)
	<ul style="list-style-type: none"> <li>■ Provide a list of commitments made during the preparation of the EA;</li> </ul>	Chapter 9 (Commitments Registry)
	<ul style="list-style-type: none"> <li>■ Reflect the results of consultations and be predicated on an ongoing program of consultations over the life of the Project;</li> </ul>	Chapter 8 Section 8.1.2 (Roles and Responsibilities)
	<ul style="list-style-type: none"> <li>■ Include compliance and effects monitoring;</li> </ul>	Section 8.2 (Environmental Planning, Monitoring and Compliance)
<ul style="list-style-type: none"> <li>■ Describe the mitigation and benefit enhancement measures that will be put in place to address significant residual Project impacts specific to each of the construction, operations, closure and post closure phases;</li> </ul>	Table 8-2 (Environmental Planning- Physical)  Table 8-8 (Environmental Planning – Biological)	

**Table 2: Concordance between Terms of Reference and the Hammond Reef Gold Project Environmental Impact Statement/Environmental Assessment (Continued)**

Terms of Reference		Section in EIS/EA Report
Section	Requirement	
8.0 (Continued)	<ul style="list-style-type: none"> <li>■ Describe the monitoring of impact mitigation and benefit enhancement measures;</li> <li>■ Describe how the implementation of mitigation and benefit enhancement measures will be managed to ensure success – this will take into account institutional capability to participate in management of the Project environmental and social performance where such participation is deemed appropriate; and</li> </ul>	<p>Table 8-3: Proposed Monitoring Program Considerations – Air Quality and Vibration</p> <p>Table 8-4: Proposed Monitoring Program Considerations – Site Flows and Hydrology</p> <p>Table 8-5: Proposed Monitoring Program Considerations – Hydrogeology</p> <p>Table 8-6: Proposed Monitoring Program Considerations – Water Quality</p> <p>Table 8-7: Proposed Monitoring Program Considerations – Geochemistry</p> <p>Table 8-9: Proposed Monitoring Program Considerations – Terrestrial Ecology</p> <p>Table 8-10: Proposed Monitoring Program Considerations – Aquatic Environment.</p> <p>Section 8.3.3 (Benefit Enhancement)</p>
	<ul style="list-style-type: none"> <li>■ Present monitoring costs, schedules and frameworks, as developed during the preparation of the EA.</li> </ul>	<p>Chapter 8 Environmental and Social Management Planning (Introduction)</p> <p>Section 8.2.5 (Preliminary Cost Estimate)</p>

**Table 2: Concordance between Terms of Reference and the Hammond Reef Gold Project Environmental Impact Statement/Environmental Assessment (Continued)**

Terms of Reference		Section in EIS/EA Report
Section	Requirement	
8.1	<p><b>Environmental Management Plan</b></p> <p>The EMP will address:</p> <ul style="list-style-type: none"> <li>■ Management of physical environment;</li> <li>■ Management of biological environment;</li> <li>■ Emergency preparedness and response;</li> <li>■ Contingency planning;</li> <li>■ Health and safety;</li> <li>■ Closure and post closure; and</li> <li>■ Management plan implementation.</li> </ul> <p>For each of the above referenced subject areas the EMP will identify policies, practices and/or procedures – including monitoring, inspections and audits.</p>	<p>Chapter 8 (Environmental and Social Management Plan)</p> <p>Table 8-3: Proposed Monitoring Program Considerations – Air Quality and Vibration</p> <p>Table 8-4: Proposed Monitoring Program Considerations – Site Flows and Hydrology</p> <p>Table 8-5: Proposed Monitoring Program Considerations – Hydrogeology</p> <p>Table 8-6: Proposed Monitoring Program Considerations – Water Quality</p> <p>Table 8-7: Proposed Monitoring Program Considerations – Geochemistry</p> <p>Table 8-9: Proposed Monitoring Program Considerations – Terrestrial Ecology</p> <p>Table 8-10: Proposed Monitoring Program Considerations – Aquatic Environment.</p> <p>Table 8-11 Environmental Management Planning – Emergency Response and Contingency</p>

**Table 2: Concordance between Terms of Reference and the Hammond Reef Gold Project Environmental Impact Statement/Environmental Assessment (Continued)**

Terms of Reference		Section in EIS/EA Report
Section	Requirement	
8.2	<b>Social Management Plan</b>	Section 8.3 (Social Management Planning)
	<p>The Social Management Plan will address the avoidance of, minimization of, and/or compensation for negative socio-economic effects that could result from the Project. As well, it will address the enhancement of positive benefits that could result.</p> <p>The Social Management Plan will also set out the monitoring required to ensure that identified objectives are achieved.</p> <p>Indicators of the achievement of objectives will be identified and these will become the parameters to be monitored.</p>	
8.3	<b>Monitoring Plan</b>	Chapter 8 (Environmental and Social Management Plan)  Tables 8-2 to 8-11  Environmental Management Planning Proposed Monitoring Program Considerations
	<p>An Environmental and Social Monitoring Plan will be developed as part of the EA to address specific monitoring requirements.</p> <p>A preliminary follow-up program will be included in the EA Report.</p> <p>The Monitoring Plan will include:</p> <ul style="list-style-type: none"> <li>■ A description of the potential negative environmental effect for each criterion.</li> <li>■ Mitigation and protection measures planned for each criterion and performance measures.</li> <li>■ How the Project will be monitored to ensure that mitigation strategies are meeting performance objectives.</li> <li>■ A contingency plan to be implemented should monitoring reveal that mitigation measures have failed.</li> <li>■ A description of frequency and duration of monitoring for each negative impact, for each phase of the project.</li> <li>■ A non-compliance strategy that will identify a plan of action for out of compliance situations.</li> </ul>	
8.3.1	<b>Constructions and Operations Monitoring</b>	Section 8.1.3 (Reporting and Information Sharing)
	Monitoring results will be consolidated to produce a report on an annual basis that will be made available for government and stakeholder review.	
	Monitoring results will be consolidated to produce a report on an annual basis that will be made available for government and stakeholder review.	

**Table 2: Concordance between Terms of Reference and the Hammond Reef Gold Project Environmental Impact Statement/Environmental Assessment (Continued)**

Terms of Reference		Section in EIS/EA Report
Section	Requirement	
8.3.2	<b>Closure and Post-closure Monitoring</b>	
	Monitoring results will be consolidated to produce a report with an interpretation of conditions and changes.	Section 8.1.3 (Reporting and Information Sharing)  Conceptual Closure and Rehabilitation Plan TSD
9.0	<b>Consultation</b>	
9.3	<b>Public Consultation Plan for the Environmental Assessment</b>	
9.3.5	<b>Integration of Input</b>	
	A comment-response table will be included in the final Consultation Report and will be shared at workshops and community events throughout the Project planning process.  The final comment-response table will reference specific sections in the EA report where the stakeholder comment was addressed, or where the answer to their questions can be found.	Chapter 7 (Public Consultation and Aboriginal Engagement)  Table 7-14 (Aboriginal Community Concern Concordance Table with EIS/EA Report)
9.4	<b>Aboriginal Engagement Plan for the Environmental Assessment</b>	
9.4.1	(...) The EA Report will meet these objectives by clearly: <ul style="list-style-type: none"> <li>■ Documenting how the Project has been modified as a result of input from potentially affected Aboriginal communities;</li> <li>■ If necessary, explaining why the Project cannot be modified to reduce or avoid any identified impacts; and</li> <li>■ Explaining how the communities have been appropriately accommodated, where required, for any impacts on Aboriginal or treaty rights that cannot be avoided.</li> </ul>	Chapter 7 (Public Consultation and Aboriginal Engagement)  Section 7.3.4 (Issues Identified through Aboriginal Engagement)  Section 7.3.5 (OHRG's Commitments and Responses )

**Table 2: Concordance between Terms of Reference and the Hammond Reef Gold Project Environmental Impact Statement/Environmental Assessment (Continued)**

Terms of Reference		Section in EIS/EA Report
Section	Requirement	
9.4.4	<p><b>Report Publication</b> Draft reports and preliminary results, including the EA Report will be provided to potentially affected Aboriginal communities for review. Meetings and discussions will be scheduled to discuss publications as they are made available.</p>	<p>Section 7.3.3 (Aboriginal Engagement Activities)</p> <p>Section 7.3.5.3 (Environmental Commitments)</p>
9.4.5	<p><b>Traditional Use Studies</b> The EA Report will include a description of the lands, waters and resources of specific value to Aboriginal people on which adverse environmental effects could occur, or at a minimum, include a plan to gather that information.</p>	<p>Section 7.3.5.2.3 (Traditional Use Information)</p>
9.4.6	<p><b>Incorporation into Environmental Assessment</b> The EA Report will include a Record of Consultation that summarizes Aboriginal engagement activities and public consultation in separate sections.</p>	<p>Chapter 7 (Public Consultation and Aboriginal Engagement)</p>
10.0	<p><b>Flexibility and Contingency Plans</b></p>	
10.1	<p><b>Flexibility to Accommodate New Circumstances</b> It is recognized that circumstances may arise that could prevent the commitments made in this Terms of Reference from being met. The Project is in the early planning stage and certain components may change or be adjusted to accommodate new circumstances. It is understood that certain aspects of the ToR may be adjusted without the need to re-start the provincial EA process.</p>	<p>N/A</p>
10.2	<p><b>Contingency Plans</b> As part of the EA, OHRG shall develop short-term contingency plans as appropriate.</p>	<p>Chapter 8 Section 8.2.4 (Emergency Preparedness and Response and Contingency Planning)</p>

**Table 2: Concordance between Terms of Reference and the Hammond Reef Gold Project Environmental Impact Statement/Environmental Assessment (Continued)**

Terms of Reference		Section in EIS/EA Report
Section	Requirement	
11	<b>Additional Environmental Approvals</b>	
	OHRG will consult with federal, provincial, and municipal agencies to refine the list of permits and approvals as the Project design evolves and as additional studies for the EA are completed.	Chapter 8 Section 8.1.2.1 (Government Agencies)  Chapter 10 (Other Approvals)

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