

Table 9-1: Summary of Commitments Made by Osisko Hammond Reef Gold in the Hammond Reef Gold Project Environmental Impact Statement/Environmental Assessment Report

Commitment Number	EIS/EA Report Section	Commitment Description	EIS/EA Report Section Number	Project Phase
1	Effects Assessment – Soils	Develop an <b>Erosion Control Management Plan</b> will be developed during construction, operations and closure. Site drainage will be managed to ensure that runoff does not cause erosion, flooding or contamination in downstream areas.	6.1.5	Construction; Operations and Closure
2	Effects Assessment – Soils	Develop and implement an appropriate <b>Reclamation Plan</b> that accounts for soil salvage, stockpiling and reclamation where possible.	6.1.5	Construction; Operations and Closure
	Environmental Management Plan – Physical Environment	Soils will be stockpiled, protected against erosion and used in progressive restoration of habitat to the extent practicable. Topsoil will be separated from overburden where possible.	6.1.5, 8.2.2	
3	Effects Assessment – Soils	Minimize soil contamination through implementation of a <b>Spill Management Plan</b>	6.1.5, 8.2.4	Construction; Operations
	Effects Assessment – Potential Effects on Malfunctions and Accidents	Spills to terrestrial habitats will be cleaned up as soon as possible following the spill and will include soils testing after clean-up to confirm the adequacy of excavation limits.	6.6.1, 8.2.4	
	Environmental Management Plan – Physical Environment	Develop standard spill response procedures and protocols	8.2.2	
4	Effects Assessment – Soils	Geotechnical assessments will be completed for mine facilities	6.1.1	Pre-construction
5	Effects Assessment – Soils	Geotechnical monitoring of stockpiles will be undertaken to verify and to ensure long-term stability.	6.1.1	Operations and Closure
6	Effects Assessment – Air Quality	<b>Dust Management Plan:</b> Best management practices to control fugitive particulate emissions from haul roads and material handling will be implemented.	6.1.5	Construction; Operations
7	Effects Assessment – Noise	OHRG plans to post signs at crown land locations in the vicinity of the Project site that, in the past, may have been used for camping to indicate the potential for campers to become annoyed by noise levels.	6.1, 6.3.1	Construction and Operations
	Environmental and Social Management Plan – Physical Environment		8.2.2	
8	Effects Assessment Vibration	Monitor vibration levels during the initial phases of mine operation and evaluate the need to implement a blast management strategy in order to meet DFO guidelines.	6.1.2	Operations
	Environmental Management Plan - Physical Environment	Develop a <b>blast monitoring and mitigation plan.</b>	8.2.2	
	Environmental and Social Management Plan - Biological Environment	Adjust blast intensities if required based on initial monitoring results to protect sensitive fish species during critical life stages	8.2	
9	Effects Assessment Hydrology	Signs warning boaters of potential underwater hazards will be installed if necessary to ensure boaters stay clear of these locations.	6.1.3	Construction and Operations
10	Effects Assessment Hydrology	Work with Seine River Water Management Committee regarding water management at the Project.	7.3.6	Construction; Operations
	Consultation – Public	Ongoing discussion with existing water users is required to allow for cooperation and understanding of each other's seasonal water needs.	7.1	
11	Effects Assessment Hydrogeology	Additional hydrogeology investigations will be conducted in the area of the PPCP to refine the understanding of subsurface conditions locally	6.1.3	Pre-Construction
12	Effects Assessment Water and Sediment Quality	Phosphorus concentrations in Sawbill bay will be monitored during operations and a <b>Nutrient Management Plan</b> will be developed and implemented if necessary to further control phosphorous levels.	6.1.3	Operations
13	Effects Assessment Water and Sediment Quality	An Effluent Treatment Plant will be included as a contingency measure to treat effluent during operations. A treatment facility for suspended solids, nutrient loading or metals would be operated if necessary.	6.1.5	Operations
	Effects Assessment –Potential Effects on Malfunctions and Accidents	A water treatment system will be constructed and will be operated if necessary depending on the results of water quality monitoring.	6.8.3	
	Environmental Management Plan – Physical Environment	Monitoring and/or treating of water in the PPCP to ensure appropriate water quality prior to discharge	8.2.2	

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14	Effects Assessment Water and Sediment Quality	The Project design will include a <b>Water Management System</b> . The water collection system will operate through the use of seepage collection ponds, ditches and active pumping.	6.1.5	Construction; Operations and Closure
	Environmental Management Plan - Physical Environment	Capture site runoff and seepage in collection ditches and sumps and direct it to the PPCP	8.2.2	
15	Effects Assessment Vegetation	The pathway of the transmission line will be cleared but not graded and stripped of topsoil to allow for quick regrowth of vegetation in the transmission corridor.	6.2.1	Construction
16	Effects Assessment Vegetation	Vegetated riparian buffers will remain around watercourses at access road crossings to the extent possible and disturbed soils will be stabilized to assist vegetation regrowth and control erosion.	6.2.1	Construction
17	Effects Assessment Vegetation	Native species of trees, shrubs and other vascular plants will be used for re-vegetation at closure where available.	6.2.1	Closure
18	Effects Assessment Vegetation	An <b>Invasive Species Management Plan</b> will be developed and implemented to prevent, detect, control (remove), and monitor areas with invasive plant species.	6.2.1	Construction; Operations
	Environmental Management Plan - Biological Environment		8.2.3	
19	Effects Assessment Wildlife	Speed limits will be posted and enforced on the mine roads and warning signs will be posted near high collision sections of the access road. Awareness training of vehicle collision hazards to wildlife will be provided to workers.	6.2.1	Construction; Operations
20	Effects Assessment Wildlife	Hunting by camp personnel while on-site will be restricted to help reduce potentially increased hunting pressures.	6.2.4	Construction; Operations
	Effects Assessment Social Effects Assessment		6.3	
21	Effects Assessment Wildlife	A <b>Waste Management Plan</b> will be developed and implemented for the Project. This plan will include using appropriate waste receptacles that limit attraction of wildlife. Food wastes will be managed to prevent attraction of wildlife and littering and feeding of wildlife will be strictly prohibited. All workers will be educated on the risk associated with feeding wildlife and careless disposal of food garbage. Proper waste management techniques will be conveyed to all workers and visitors to the site.	6.2.1	Construction; Operations
	Environmental and Social Management Plan - Biological Environment		8.2.3	
22	Effects Assessment Wildlife	Animals that become a nuisance will be trapped and moved to remote locations for release.	6.2.1, 8.2.3	Construction; Operations
23	Effects Assessment Wildlife	Blasting will be temporarily stopped if large mammals are observed within the danger zone as identified by the blast supervisor.	8.2.3	Construction; Operations
24	Effects Assessment Birds	To avoid the destruction of nests and eggs, the clearing of vegetation will be conducted outside of the breeding bird season (May 15th-July 30th), where practical. If activities must occur within the window, pre-clearing surveys will be completed by a qualified ecologist to identify and demark active nests and set up appropriate buffer areas to be marked as exclusion areas until the young have successfully fledged from the nest.	6.2.1, 8.2.3	Construction
25	Effects Assessment Birds	Transmission line will be designed to minimize collisions by installing markers to increase visibility and limiting the use of guy wires	6.2.1, 8.2.3	Construction
26	Effects Assessment Effects on SAR	Awareness training of hazards to SAR, in particular the snapping turtle will be provided as standard training to mine staff. Safe handling procedures will also be taught to mine workers to instruct on how to safely remove an individual from harm's way during encounters.	6.2.1, 8.2.3	Construction; Operations
27	Effects Assessment Effects on SAR	Opportunities for enhancing common nighthawk habitat will be considered at closure.	6.2.4	Closure
28	Effects Assessment Effects on SAR	If a permit under the Endangered Species Act is required for loss of bat habitat, an overall benefit package will be developed in consultation with MNR.	6.2.1	Pre-Construction
29	Effects Assessment Aquatic Ecology	OHRG will continue to work with regulatory agencies to implement the <b>No Net Loss Plan</b> (fish habitat compensation). The plan will incorporate stakeholder and Aboriginal feedback and will be based on the habitat accounting methodology established in cooperation with government agencies during the EA process.	6.2	Construction

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Commitment Number	EIS/EA Report Section	Commitment Description	EIS/EA Report Section Number	Project Phase
30	Effects Assessment Aquatic Ecology	A <b>Fish Salvage and Relocation Plan</b> will be developed and implemented for Mitta Lake in cooperation with our Aboriginal partners.	5.1.1	Pre-Construction
	Consultation – Aboriginal	OHRG plans to use traditional knowledge to inform the development of appropriate fish relocation plan for Mitta Lake and other fish-bearing water bodies that will be affected by the Project.	7.3.5	
31	Effects Assessment Aquatic Ecology	Intake structures will be set at an appropriate height above the lake bottom and will be designed to minimize inflow velocities to minimize entrainment of aquatic organisms.	6.2.2, 8.2.3	Construction
32	Effects Assessment Aquatic Ecology	Closure of the open pits may include some work to create a littoral zone for fish habitat. For safety reasons, modification to the pit design to increase fish habitat potential is currently not planned or reflected in the habitat offset plan and further discussion with MNM, MNR, DFO and Osisko is proposed prior to the final submission of the Section 35 Authorization application is required if this is to be included therein. Any work would need to be acceptable under the Mine Closure regulation 240/00 under the Mining Act of Ontario.	6.2.2	Closure
33	Effects Assessment Aquatic Ecology	Fishing by camp personnel while on-site will be restricted to help maintain fish stocks.	6.2.2	Construction; Operations
	Effects Assessment Social Effects Assessment		6.3	
34	Effects Assessment Social Effects Assessment	Provide incentives (e.g., transport to and from the Project Site) for workers to live in Town as opposed to the on-site camp.	4.2.9, 6.3.1	Construction; Operations
35	Effects Assessment Social Effects Assessment	Work with the Town of Atikokan and the Atikokan Economic Development Corporation to identify opportunities for local businesses to develop or expand	6.3.1	Construction; Operations
36	Effects Assessment Social Effects Assessment	Work with the Town of Atikokan to support the licensing, construction and operation of a new municipal landfill site.	6.3.6	Construction
37	Effects Assessment Social Effects Assessment	Provide support for advertising for recreation in Atikokan (commitment to Tourism Operators)	6.3	Construction; Operations
38	Effects Assessment Social Effects Assessment	Promote tourism in the Atikokan area through sponsorships of community events such as the Atikokan Bass Classic.	6.3.6	Construction; Operations
39	Effects Assessment Social Effects Assessment	OHRG will administer a bi-annual hunting and fishing questionnaire to its workforce in cooperation with MNR.	6.3	Operations
40	Effects Assessment Social Effects Assessment	Upon the closure stage, there will be employee transition planning including training and placement support to assist employees in finding other employment in the community or elsewhere in the resource extraction sector.	6.3.6	Closure
41	Effects Assessment Social Effects Assessment	Continue informing Aboriginal communities about the nature and timing of the skills required for site workers.	6.3.6	Pre-Construction; Construction, Operations, Closure.
42	Effects Assessment Social Effects Assessment	Promote the utilization of Aboriginal enterprises whenever possible in supplying goods and/or services required during each phase of the Project.	3.5.4, 6.3.2, 7.3	Construction; Operations, Closure.
43	Effects Assessment Social Effects Assessment	Identify and review mine site development plans with First Nations and Métis people where they have the potential to impact special sites.	6.3.2	Construction; Operations
44	Effects Assessment Social Effects Assessment	Establish a protocol between OHRG and the First Nations regarding actions to be taken in the event a heritage site and/or artefacts are discovered during construction.	6.3	Pre-Construction
45	Effects Assessment Social Effects Assessment	Encourage Aboriginal workers to share working experiences within their own communities, thereby helping to overcome some of the barriers to Aboriginal participation in the wage economy.	6.3.6	Construction; Operations
46	Effects Assessment Social Effects Assessment	Provide cultural sensitivity training to all members of the Project workforce	6.3.6	Construction; Operations
47	Effects Assessment Social Effects Assessment	Work with local Aboriginal communities to identify appropriate species of trees, shrubs and other vascular plants that will be used for re-vegetation at closure.	6.3.6	Closure; Operations

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Commitment Number	EIS/EA Report Section	Commitment Description	EIS/EA Report Section Number	Project Phase
48	Effects Assessment Effects of the Environment on the Project	To minimize the likelihood of direct damage by fire to site infrastructure, design considerations will include protection of fuel and reagent storage areas by clearing of trees and brush around facilities.	6.5.1	Construction; Operations
49	Effects Assessment Effects of the Environment on the Project	The site will be equipped with firefighting equipment with personnel trained in their use. Water for emergency fire-fighting will be available from surrounding water bodies.	6.5.1	Construction; Operations
	Environmental Management Plan - Emergency Preparedness	OHRG will maintain the capability to respond to fires on or near the Project.	8.2.4	
50	Effects Assessment Effects of the Environment on the Project	A customized tailings management system will be developed.	1.6.1, 5.2.5, 6.5.3, 6.6.5, 8.2.4	Construction; Operations; Closure
51	Effects Assessment Potential Effects on Malfunctions and Accidents	The tailings pipeline system will be equipped with flow monitoring devices that will provide automatic shutoff of the pumps in the event of a rupture.	6.6.3, 8.2.4	Operations
52	Project Description	The design of the OHRG tailings dam will be peer reviewed by an independent expert in tailings dam construction and operation.	1.6.1, 5.2.5, 6.5.3, 6.6.5, 8.2.4	Construction; Operations
53	Consultation – Public	OHRG has committed to providing capacity support to Seine River First Nation (SRFN) to collect additional fish tissue and benthic samples in the Spring of 2014 in conjunction with an environmental study being undertaken with their community. Data collected will be shared with SRFN, OFAH and the Sportsmen's Club.	7.1.2, 7.3, 11.1	Pre-Construction
	Consultation – Aboriginal		7.3.5	
54	Consultation – Public	OHRG will continue to publish a bi-weekly newspaper column which will strive to address comments and questions received to date.	7.1.4	Construction; Operations
55	Consultation – Public	A local monitoring committee will be established which will be modelled after the existing Malartic/Osisko Community Committee.	2.8.2, 7.1.4, 8.3.1	Construction; Operations
56	Consultation – Public	OHRG is currently developing a list of goods and services based on its experience at Malartic. This will be provided to the Town once it becomes available	7.1	Construction; Operations
57	Consultation – Public	OHRG is planning to form a beneficiary fund and committee to benefit the community.	7.1	Construction; Operations
58	Consultation – Public	OHRG has committed to providing capacity for advertising for recreation and tourism in the Atikokan area	7.1.5	Construction; Operations
59	Consultation – Government	A <b>Certified Closure Plan</b> that complies in all respects with the Mining Act and O. Reg. 240/00 will be prepared and implemented for the Project.	7.2.4	Pre-construction; Closure
60	Consultation – Government	OHRG is committed to maintaining open communications with the GRT throughout the environmental assessment process.	7.2.4	Pre-Construction
61	Consultation – Government	Communications with regulators will be ongoing throughout the Project phases and the completion of the environmental assessment.	7.2.4	Construction; Operations; Closure
62	Consultation – Government	OHRG will provide the Final EIS/EA Report for review to the GRT, and will deliver further summary presentations of changes to the EIS/EA Report, assessment methods, results and mitigation measures as requested.	7.2.3	Pre-Construction
	Environmental and Social Management Plan – Follow-up Consultation	OHRG will prepare and deliver summary presentations that capture the predicted environmental effects and proposed mitigation measures presented in the EIS/EA Report.	8.3.5	
63	Consultation – Aboriginal	OHRG plans to work with the Métis Nation of Ontario on an ongoing basis to ensure the communities benefit from the Project. OHRG is committed to optimizing business opportunities for Métis community members, including the Métis in environmental monitoring programs and supporting the Métis Way of Life through ongoing investment in Métis culture.	7.3.3	Construction; Operations; Closure
64	Consultation – Aboriginal	The established First Nations Social and Cultural Committee will provide oversight and direction for appropriate ceremonies that should take place during Project meetings.	3.5.3, 7.3.5, 8.3.2	Pre-Construction; Construction; Operations; Closure
65	Consultation – Aboriginal	The established First Nations Social and Cultural Committee will promote cross cultural awareness and bring forward suggestions for cultural investment opportunities.	3.5.3, 7.3.5, 8.3.2	Pre-Construction; Construction; Operations; Closure

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66	Consultation – Aboriginal	OHRG will continue to communicate with Aboriginal communities about environmental concerns through the sharing of environmental studies results and assessments. Throughout the construction and operations phases of the Project, the established Environmental Committee will provide a mechanism for sharing environmental information with First Nations communities.	7.3.5	Pre-Construction; Construction; Operations; Closure
67	Consultation – Aboriginal	The Final EIS/EA Report will be provided to the FFCS, LDMLFN and MNO for review and comment.	7.3.5	Pre-Construction
	Environmental and Social Management Plan – Follow-up Consultation	OHRG will prepare and deliver summary presentations that capture the predicted environmental effects and proposed mitigation measures presented in the EIS/EA Report.	8.3.5	
68	Consultation - Aboriginal	Aboriginal communities will be provided reports and results of ongoing monitoring for review.	7.3.5	Construction; Operations; Closure
69	Consultation - Aboriginal	OHRG is committed to providing economic benefits to Aboriginal communities. Initiatives to maximize the benefits the Project will have on Aboriginal communities include: <ul style="list-style-type: none"> <li>■ Scholarships.</li> <li>■ Partnerships with local academic institutions</li> <li>■ On the job training.</li> <li>■ A hire local priority policy.</li> <li>■ Targeted employment, training and business opportunities.</li> </ul>	7.3.5	Construction; Operations
70	Consultation – Aboriginal	OHRG plans to complete another round of Community Open House in the Aboriginal communities. The goal of these planned Community Visits will be to share information about the Final EIS/EA Report, and to provide information on the points raised by community members during previous visits.	7.3.6	Pre-Construction
71	Consultation – Aboriginal	OHRG's goal is to host at least one Resource Sharing Committee meeting per quarter throughout the Project phases. OHRG and the Resource Sharing Committees are currently developing a communications plan to allow for clearer communication and ongoing evaluation of committee objectives.	7.3.6	Construction; Operations; Closure
72	Environmental and Social Management Plan	Compliance monitoring results will be reported annually and discussed with regulators. The results of monitoring, as they relate to the findings of external audits, will be reported to national authorities as applicable.	8.1.3	Construction; Operations; Closure
73	Environmental Management Plan - Health and Safety	Develop and implement a <b>Hazardous Materials Management System</b>	5.2.6, 8.2.4	Construction; Operations
74	Environmental Management Plan - Physical Environment	Develop and implement a <b>Greenhouse Gas Emission Plan</b> to minimize releases of greenhouse gases (GHG).	8.2.2	Operations
75	Environmental Management Plan - Physical Environment	A <b>geochemical management plan</b> will be developed to periodically confirm the geochemical characteristics during operational placement of materials.	8.2.2	Operations
76	Environmental Management Plan - Physical Environment	Implement an <b>Air Quality and Vibration Monitoring Program</b>	8.2.2	Construction; Operations
77	Environmental Management Plan - Physical Environment	Implement a <b>Water Monitoring Program</b> that will include groundwater quality, surface water quality, levels and flows along with meteorology and flow metering of all pumped water.	8.2.2	Construction; Operations; Closure; Closure
78	Environmental Management Plan - Biological Environment	Implement a <b>Terrestrial Ecology Monitoring Program</b> to verify the accuracy of predictions	8.2.3	Construction; Operations
79	Environmental Management Plan - Biological Environment	An <b>Invasive Plant Management Plan</b> will be developed	8.2.3	Construction
80	Environmental and Social Management Plan - Biological Environment	An <b>aquatic effects monitoring plan</b> will be developed in consultation with aboriginal groups, the public and regulatory agencies during the permitting process.	8.2.3	Construction; Operations
81	Environmental Management Plan - Emergency Preparedness	As per the requirements of the Environmental Emergencies Regulations of the Canadian Environmental Protection Act, OHRG will develop an <b>Environmental Emergency Plan</b> for any substances stored on site at the appropriate volumes	8.2.4	Construction; Operations

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82	Environmental Management Plan - Emergency Preparedness	Together the potential accidents, contingency measures and associated environmental risks will form the basis for development of a <b>Risk Management Plan</b> that will be developed for the Project following EA approval.	8.2.4	Construction; Operations
83	Environmental Management Plan - Emergency Preparedness	A <b>Stormwater Management System</b> will be implemented to ensure safe water levels are maintained in the Project facilities.	8.2.4	Operations
84	Environmental and Social Management Plan - Benefit Enhancement	OHRG plans to work with local academic institutions such as school boards to develop specialized labour skills in the workforce. On site and on the job training will be a focus as well as upgrading of workforce skills	8.3.3	Construction; Operations
85	Environmental and Social Management Plan - Benefit Enhancement	OHRG will continue to share anticipated workforce and equipment requirements information with Aboriginal communities and local economic development corporations.	8.3.3	Construction; Operations
86	Environmental and Social Management Plan - Benefit Enhancement	OHRG will implement a hire local priority policy, and seek out business opportunities within the local community.	8.3.3	Construction; Operations
87	Environmental and Social Management Plan - Follow Up Plan	Social indicators and detailed social monitoring will be developed in cooperation with the Atikokan/OHRG Committee and Aboriginal Committees established as the Project planning process moves forward.	8.3.4	Construction; Operations
88	Environmental and Social Management Plan - Follow Up Consultation	OHRG has collected traditional use information from elders and community members. This information has been shared in a presentation form with the participants of the study, however OHRG has also committed to providing a report to the communities.	8.3.5	Pre-Construction
89	Environmental and Social Management Plan - Follow Up Consultation	OHRG will respond to community questions and concerns.	8.3.5	Pre-Construction; Construction; Operations; Closure.
90	Environmental and Social Management Plan - Follow Up Consultation	OHRG will circulate a formal Notice when the <b>Certified Closure Plan</b> is submitted to the government.	8.3.5	Pre-construction.