

Decision Document Mitigation Measures				
Mitigation Number	Proposed Mitigation	Management Plan	Project Phases	Notes
Wildlife and Wildlife Habitat				
1	The Proponent shall apply for a lease or another form of regulatory approval under the Territorial Lands Act that will provide the Proponent with the authority and ability to control access between Maisy May Creek and the Stewart River. The point of access control shall be the beginning of new road connecting the existing road network with the Stewart River barge landing. Access shall be restricted through means such as a gatehouse or equivalent access restriction until the road is decommissioned such that this section of new road not become a public road.	Access Route Construction Management Plan Section 2.0: Authorizations for Construction; Section 7.0: Access Tie-in, Access Control, and Staging Area	Construction Operation	
		Access Route Operational Management Plan Section 3.1: Access Control		
		Wildlife Protection Plan Section 4.2.4.1: Access Management		
2	The Proponent shall restrict public access to the Coffee Creek barge landing and roads connected to the barge landing that it maintains. Access shall be restricted through means such as a gatehouse, as near the barge landing as possible, until such time the road network attached to the barge landing is decommissioned such that these roads not become public roads.	Access Route Construction Management Plan Section 7.0: Access Tie-in, Access Control, and Staging Area	Construction Operation	Access restricted through operation of the barge landings and through a gatehouse located approximately 2.8 km northeast of the north Stewart River barge landing.
		Access Route Operational Management Plan Section 3.1: Access Control		Access restricted through operation of the barge landings and through a gatehouse located approximately 2.8 km northeast of the north Stewart River barge landing.
		Wildlife Protection Plan Section 4.2.4.1: Access Management		
2.1	The Proponent shall ensure that all new road sections do not become public roads and that all new road sections be decommissioned by the conclusion of project activities. New barge landings shall be obstructed in a manner to prevent unloading of vehicles by barge.	Access Route Construction Management Plan Section 9.13: Decommissioning and Reclamation	Closure	
		Access Route Operational Management Plan Section 3.1: Access Control	Construction Operation Closure	
		Reclamation and Closure Plan Section 7.8.2: NAR and On-site Access Road	Closure	
3	The Proponent shall not use the NAR, except for maintenance purposes, when caribou migrations are expected to intersect the NAR or caribou are persistently crossing the NAR over a period of three days. Normal road use shall not resume until caribou are considered to have cleared the road corridor.	Access Route Operational Management Plan Section 4.5: Interaction with Wildlife	Construction Operation Closure	
		Wildlife Protection Plan Section 4.3.1: Species Specific Mitigation: Caribou		Phased approach to caribou mitigation: Response Level 3.
4	Snowbanks along the Northern Access Route shall be maintained at a level of less than 50 cm above the roadbed. Flowthrough breaks should be included at appropriate intervals and locations along the Northern Access Road.	Wildlife Protection Plan Section 4.1: Project Design; Section 4.2.4: Manage Road Operations	Construction Operation	Snowbanks will be managed and maintained to 0.5 m high where safe to do so and allowed by other design considerations and will include periodic breaks to allow wildlife to move across the road, spaced between 500 m and 1 km apart on alternating sides of the road.
		Access Route Operational Management Plan Section 4.3: Snow Removal and Snow Management		Snowbanks will be managed and maintained to 0.5 m high where safe to do so and allowed by other design considerations and will include periodic breaks to allow wildlife to move across the road, spaced between 500 m and 1 km apart on alternating sides of the road.
5	The proponent shall retain an individual qualified in caribou behavior who will, in consultation with Government of Yukon, implement design features to reduce the likelihood of entrapment within project infrastructure as well as design features that reduce noise, visual, and light stimuli in alpine and subalpine habitats of high importance to caribou that are within line of sight of the mine site's activities to assist in reducing stimuli that may cause an expansion of the zone of influence (ZOI) for the mine site.	Noise Management Plan Section 5.0: Environmental Protection Measures	Construction Operation Closure	
		Wildlife Protection Plan Section 4.0: Wildlife Protection Measures Framework; Section 4.2: General Wildlife Protection Measures		
		Access Route Construction Management Plan Section 7.0: Access Tie-in, Access Control, and Staging Area; Section 8.0: Borrow Sources		
6	Between May 1 and August 31, the minimum cruising altitude for project-related aircraft shall be 600m. This window will be extended as necessary based on seasonal caribou presence documented in the Wildlife Monitoring Plan and decision criteria in the Adaptive Management Plan.	Wildlife Protection Plan Section 4.2.5: Manage Aircraft Operations	Construction Operation Closure	

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Water and Aquatic Resources				
7	In evaluating whether the non-degradation threshold for Coffee Creek is met, the Proponent shall be subject to performance evaluation criteria that incorporate a suitable method to determine if the Coffee Gold Project is the primary or most substantial cause of any exceedance of the non-degradation threshold. The Proponent's non-degradation thresholds shall be revised to require that the Project not be the primary or most substantial cause of any exceedance of a non-degradation threshold.	Surface Water Quality and Aquatic Life Adaptive Management Plan Section 2.3.2: Non-Degradation Water Quality Objectives - Coffee Creek and Yukon River	Construction Operation Closure	
8	The proponent shall revise water quality objectives prior to licensing, as necessary, dictated by the current relevant science and using the same level of protection assessed during the Screening. That is, use-protection objectives in Halfway, Latte and YT-24 creeks, and performance evaluations that reflect non-degradation objectives in Coffee Creek and the Yukon River downstream of Halfway, Latte and YT24 creeks.	Water Management Plan Section 1.4.2: Territorial Regulations	Construction Operation Closure	
9	Prior to licensing, the Proponent shall revise use-protection water quality objectives to ensure they incorporate the most recent toxicological information and guidance from CCME, Government of Canada, and BCMoE for the protection of freshwater aquatic life.	Water Management Plan Section 1.4.2: Territorial Regulations	Construction Operation Closure	
10	Reclamation and closure plans required under the Quartz Mining Act will include, at a minimum, the same use protection and non-degradation objectives as during operations. Water quality early warning triggers for reclamation and closure will be developed and applied for all watercourses as part of the Environmental Monitoring and Adaptive Management Plan.	Reclamation and Closure Plan Section 3.1.5: Water Quality Objectives Reclamation and Closure Plan Section 5.8.2: Contingency Planning and Adaptive Management Approach	Closure	
11	The Proponent shall develop water related adaptive management plans in accordance with Government of Yukon's 2021 guidance document, including any future revisions, "Guidelines for developing adaptive management plans in Yukon: water-related components of quartz mining projects".	Environmental Monitoring and Adaptive Management Plan Section 2.2: Adaptive Management Approach	Construction Operation Closure	
		Surface Water Quality and Aquatic Life Adaptive Management Plan		
12	Ore shall not remain on the ROM ore pad at the end of operations, during scheduled or unscheduled closure, without prior confirmation of long-term attenuation capacity of the schist pad for the key COPIS, arsenic and uranium that has been reviewed and accepted by the relevant regulator.	Reclamation and Closure Plan Section 6.4.1: Heap Leach Facility and ROM Stockpile	Temporary Closure	
13	The proponent shall provide to the relevant regulator all iterative water balance and water quality model runs generated in support of future licensing applications based on project updates, additional water quality mitigation measures proposed during screening and licensing, and new information. During operations, the proponent shall provide results of monitoring data to allow comparison with predictions with relevant regulators and affected First Nations.	Water Management Plan Section 7.0: Reporting		
		Water Management Plan Section 8.0: Annual Water Management Planning	Construction Operation Closure	
14	Prior to licensing, the proponent shall summarize the results of all test work completed for the development of the proposed bioreactor treatment system (EBR system), identify treatment performance objectives for the EBR, provide timelines to complete the remaining test work and develop the detailed design of the EBR system.	Heap Leach and Process Facilities Plan Section 4.5: Water Treatment of Heap Leach Solutions		
		Heap Leach and Process Facilities Plan Appendix D: Coffee Mine Water Treatment Design for Permitting	Construction Operation	

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15	The overall timeline for development of the EBR system must meet the conditions evaluated during the Screening, such that detailed plans for the EBR are submitted, reviewed and accepted by the responsible regulator, and the EBR is operational prior to the HLF water balance reaching a threshold that requires discharge of treated excess water to Halfway Creek or the Latte Pit.	<p>Heap Leach Process and Facilities Plan Section 4.4: Solution Management</p> <p>Heap Leach and Process Facilities Plan Section 4.5 Water Treatment of Heap Leach Solutions</p>	Construction Operation	
16	The proponent shall provide contingency plans contemplating scenarios where timelines or effluent quality objectives cannot be met prior to licensing. Contingency plans shall include a proof of concept, an estimated implementation time, and water quality early warning triggers which will be developed and applied for all affected watercourses as part of the Environmental Monitoring and Adaptive Management Plan.	<p>Water Management Plan Section 4.3.8.1: Alpha Pond Performance Targets and Mitigation Measures</p> <p>Water Management Plan Appendix A: Coffee Gold Project Contingency Water Management Measures - Memo</p>	Construction Operation	
		<p>Heap Leach Process and Facilities Plan Section 4.5.3.3 and Appendix E: Contingency Water Treatment Plan</p>	Construction Operation	
17	The proponent must define acceptable performance conditions for the Alpha Pond in terms of water quantity and quality for seepage from the Pond as part of the adaptive management for the Alpha Pond.	Water Management Plan Section 4.3.8.1: Alpha Pond Performance Targets and Mitigation Measures	Construction Operation	
18	The proponent shall provide contingency plans contemplating scenarios where the management of surface effluent discharged from Alpha Pond fails to meet water quality objectives in Halfway Creek.	Water Management Plan Section 4.3.8.1: Alpha Pond Performance Targets and Mitigation Measures	Construction Operation	
Traditional Land Use and Heritage Resources				
18.1	<p>The Noise Management Plan shall include the following measures to reduce the effects on traditional land uses:</p> <p>a) The plan shall include an objective to mitigate noise from a traditional land use perspective.</p> <p>b) In collaboration with affected First Nations, mitigations measures shall be identified that achieve the above objective. This may include reducing the timing and frequency of noise-related activities during critical times for traditional land use, such as fall harvesting.</p> <p>c) The Proponent shall develop a system for tracking, recording, and responding to complaints related to noise in collaboration with Environmental Health Services. Complaints are to be submitted to Environmental Health Services for recording purposes.</p> <p>d) The Proponent shall establish, in discussion with affected First Nations and communities, a means by which to communicate and inform individuals and communities who may be affected by Project-related noise in advance of any changes in sound levels that may occur, including when planned blasts are predicted to occur or deviations in the blasting plans.</p> <p>e) This aspect of the plan shall be adaptive and be based on inputs from the Noise Monitoring Plan and/or through the Socio-economic Management Plan undertaken in collaboration with affected First Nations.</p>	<p>a) Noise Management Plan Section 1.2: Scope and Objectives</p> <p>b) Noise Management Plan Section 5.0: Environmental Protection Measures</p> <p>c) Noise Management Plan Section 5.1.5: Noise Complaint Procedure</p> <p>d) Noise Management Plan Section 5.1.3: Blasting</p> <p>e) Noise Management Plan Section 5.2: Adaptive Management</p>	Construction Operation Closure	

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Traditional Land Use and Heritage Resources				
19	<p>The Proponent shall facilitate and support traditional land use activities within the project area to the extent possible (that is, within the limits of safety and in areas under the control of the Proponent). Facilitation and support shall include, but not be limited to:</p> <p>a) Making all or a portion of the Coffee Creek camp available for traditional uses; b) Funding suitable infrastructure at the Coffee Creek camp for traditional uses; c) Funding and supporting culture camps for affected First Nations; d) Ensuring staff are provided with information regarding traditional land uses they may encounter.</p>	Socio-economic Monitoring Plan		Additional detail will not be provided
20	<p>The Proponent shall establish an elder-in-residence program in order to better:</p> <p>a) improve cross cultural awareness; b) increase First Nations physical presence at the mine site; c) improve First Nation knowledge of project development, and improve the Proponent's understanding of First Nation perspectives regarding the Project's development; d) ensure First Nation workers can access elders at the mine site.</p>	Socio-economic Monitoring Plan		Additional detail will not be provided
21	<p>The Proponent shall include the following in the scope of the Socio-Economic Management Plan:</p> <p>a) A management objective to continue to identify effects on each affected First Nation's Traditional Land Use in the Coffee Creek Area</p> <p>b) A commitment to carrying thorough effectiveness monitoring and adaptive management of measures intended to mitigate impacts from construction until post-closure;</p> <p>c) A commitment to ensure that all affected First Nations have an opportunity to participate in developing end land use objectives for the site that are consistent with traditional land use values for the area, including future uses.</p> <p>d) Development of a Terms of Reference with each affected First Nation for the methodology to undertake studies under the umbrella of the SEMP relating to effects to Traditional Land Use, including roles and responsibilities of Proponent and First Nation contributors; and</p> <p>e) Capacity funding to ensure the affected First Nations' full participation in the SEMP management and monitoring components that are relevant to the affected First Nations interests, if they so choose.</p>	Socio-economic Monitoring Plan		Additional detail will not be provided
22	<p>The Proponent shall fund efforts of affected First Nations (TH, WRFN, SFN and FNNND) to collect traditional knowledge with respect to the Coffee Creek area for the purposes of supporting a First Nation-developed culture program aimed at transmitting knowledge about the area to future generations.</p>	Socio-economic Monitoring Plan		Additional detail will not be provided

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Traditional Land Use and Heritage Resources				
23	<p>The Proponent shall provide capacity funding for each affected First Nation to retain Indigenous Project Monitors, if they so choose, which shall have the following functions in relation to reducing effects to traditional land use;</p> <p>a) To identify, document and develop mechanisms to support resolution of potential conflict between mining activities and First Nation cultural values and practices in the Coffee Creek area.</p> <p>b) The monitors shall be involved in the collection of information on matters on-site related to harvestable resources in the project area and surrounding landscape and ways in the accessibility to those resources or quality of experience in harvesting those resources may be diminished.</p> <p>c) The monitors shall be on-site during mining activities but also be given means for community-based outreach work. This may include but not be limited to travel to First Nation primary communities and/or accommodating First Nation elders and land users at the site.</p> <p>d) The monitors shall also be involved in data collection for other culturally important land uses. Data collection shall include but not be limited to land user perceptions, regarding compatibility of traditional activities and adjacent industrial activities (e.g. user tolerance for noise, visual scarring, or other "sense of place" determinants).</p> <p>e) The Monitors shall be provided authority and resources to scope traditional knowledge and traditional use studies aimed at documenting mining / land use conflicts (actual or potential), and ways in which those conflicts could be mitigated. For greater clarity, this condition envisions that the Monitor may, from time to time, employ supporting staff of their choosing to support special projects.</p> <p>f) Funding for the Monitors shall be sufficient to enable the above functions, if so desired by each affected First Nation. The Indigenous Project Monitors act as a liaison between the affected First Nations and the Proponent and are a mechanism to implement the adaptive management framework outlined in the SEMP to address effects to traditional land uses. The Indigenous Project Monitors may act in conjunction with, or replace, the Environmental Monitors as committed to by the Proponent, depending on the needs and preferences of each affected First Nation. The Indigenous Project Monitors are intended to be independent of the Proponent and represent the interests of the affected First Nations.</p>	<p>Socio-economic Monitoring Plan</p>		Additional detail will not be provided
24	<p>The proponent shall only landfill inert substances at the project site. The Proponent shall work with affected First Nations and regulatory agencies to develop an Approved Landfill Materials list and mechanism for establishing suitably low leachability risk for proposed landfill materials.</p>	<p>Waste and Hazardous Materials Management Plan Section 1.3: Incorporation of Traditional Knowledge and Consultation Feedback</p>	<p>Construction Operation Closure</p>	

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Health and Safety				
25	The Proponent shall develop mandatory, regular harassment prevention training, in consultation with a qualified expert, to be delivered to all the Proponent's employees, contractors and consultants working on the Project. The qualified expert must also be proficient in cross-cultural awareness training.	Socio-economic Monitoring Plan and HR Policy		Additional detail will not be provided
26	The Proponent shall ensure that human resource staff complete training to enable them to effectively support employees who disclose workplace harassment. In order to support reporting of sexual harassment and assault, human resource staff shall provide all new staff members with information about ways in which they can record and provide evidence of harassment or bullying, what happens after they make a disclosure, and how they will be protected from reprisals.	Socio-economic Monitoring Plan and HR Policy		Additional detail will not be provided
27	The Proponent shall ensure that all HR staff complete training to effectively support employees who disclose sexualized or gender-based violence, as well as harassment and discrimination against Indigenous people in their workplace or at home. It is recommended that a counsellor be available on site for support through this as well.	Socio-economic Monitoring Plan and HR Policy		Additional detail will not be provided
28	The Proponent shall create a mentor program for Yukon First Nation employees to achieve three goals: a) ensure that First Nation women have access to a mentor or supervisor who has the authority to and regularly checks in to address any negative experiences related to the male-dominated work environment, and who pays special attention to potential cases of abuse; b) develop a formal feedback process to ensure that enquiries are regularly made of First Nation employees to ensure that they are able to voice their concerns and address any negative experiences; and c) involve TH, SFN, FNNND and WRFN in further developing the program to ensure that it meets the needs of First Nation employees.	Socio-economic Monitoring Plan		Additional detail will not be provided
29	The Proponent shall, in consultation with a qualified expert and with TH, SFN, FNNND and WRFN, develop gender appropriate and gender- and sexuality-specific policies and processes that promote a safe, respectful, and inclusive environment for women and gender and sexual minorities.	Socio-economic Monitoring Plan and HR Policy		Additional detail will not be provided
30	The Proponent shall ensure that HR staff administer confidential exit surveys with explicit questions about whether workplace harassment occurred, if disclosures were made, and what supports were provided. The proponent shall use this information to track trends and inform hiring, policy, and other initiatives at the mine site, and shall provide an annual report to Health and Social Services and the Women's Directorate detailing the Proponent's efforts to prevent workplace harassment as well as statistics on reported incidences of harassment, disclosures, etc.	Socio-economic Monitoring Plan and HR Policy		Additional detail will not be provided
31	The Proponent shall ensure that the on-site First Aid Technician or Emergency Medical Technician is trained in Mental Health First Aid and/or has formal mental health training to provide short-term or crisis support at the mine site and has referrals to other mental wellness supports or navigation to other systems.	Socio-economic Monitoring Plan		Additional detail will not be provided
32	The Proponent shall ensure that on-site employees have the ability to utilize the Employee Assistance Plan (EAP) services available (i.e., make available a private phone line or Internet connection so employees can discreetly reach EAP services	Socio-economic Monitoring Plan		Additional detail will not be provided
33	The Proponent shall retain professional services in the appropriate field to help their on-site mental health first aid staff develop the methods and tools that are appropriate to provide support to perpetrators of violence and harassment to help end cycles of abuse.	Socio-economic Monitoring Plan		Additional detail will not be provided

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Health and Safety				
34	The Proponent shall consider gender equity/diversity in hiring processes.	Socio-economic Monitoring Plan and HR Policy		Additional detail will not be provided
35	To address and mitigate impacts to employees who are or become victims of domestic abuse, the Proponent must create a policy that: a) outlines clear procedures for the workplace to deal with affected employees and provide appropriate resources and support; b) plans for and addresses the safety concerns of the affected employees while at work to ensure that all workers are safe from threats of domestic violence; and c) includes a personal safety plan for employees suffering from domestic violence.	Code of Conduct		Additional detail will not be provided
36	The Proponent shall provide access to the EAP for the eligible dependents of employees and inform all employees of this.	Socio-economic Monitoring Plan and HR Policy		Additional detail will not be provided
37	The Proponent shall develop clear standards for behaviour at work and codes of conduct against sexual harassment and gender-based violence on the job site and in the broader community, including standards/codes of conduct in relation to the sex trade, and shall distribute education and awareness campaign materials on genderbased violence. Refer to Unlocking Opportunities for Women and Business: Actions and Strategies for Oil, Gas and Mining Companies Tool Suite 4: Addressing Gender Based Violence in the Workforce (2018) for information and resources.	Code of Conduct		Additional detail will not be provided
38	The Proponent's Noise Management and Monitoring Plans submitted at licensing should incorporate all recommendations outlined in Appendix 10-A Noise Intermediate Component Analysis Report 2017, s.43.3. In addition, the Proponent must implement the following measures based on industry best-practice guidelines: a) Workers' living quarters shall be designed to limit noise, with mitigating features such as high-quality soundproofing for windows and seals on doors. b) Physical barriers shall be used to maximize shielding and reduce noise transmission. Physical barriers shall be of an appropriate height and thickness to break the line-of-sight between the project related noise sources and the dormitory and other sensitive receptors at the permanent camp, to reduce noise levels to lower than 30 dBA (Leq) indoors to be protective of sleep. c) Optimization of operations shall include notifying workers of the schedule for loud procedures or particularly annoying noise events. Periods of respite shall be provided in the case of unavoidable maximum noise level events.	a) Noise Management Plan Section 5.1.4: Design of Permanent Camp b) Noise Management Plan Section 5.1.1: Heavy Equipment c) Noise Management Plan Section 5.1.3: Blasting"	Construction Operation Closure	
39	If thresholds under YAAQS are being approached at the sites of the monitoring stations, or where CACs have exceeded thresholds, activities involving sources of emission will be reduced. In this way, air quality and adaptive management may reduce or prevent further increases in CACs, and reduce the risk to employees during non-working hours. The Proponent shall notify workers traversing areas that have elevated outdoor concentrations and require them to use appropriate PPE. Off-duty workers will be advised to reduce exposure by remaining indoors to the extent possible and closing windows in camp residences at times of peak emissions.	Air Quality and Greenhouse Gas Monitoring Plan Section 4.3: Data Analysis	Construction Operation Closure	
40	The Proponent shall incorporate an adaptive management plan in collaboration with First Nations and regulators, that establishes concrete actions for approaching and exceeding thresholds. The following adaptive management actions and corresponding triggering thresholds are to be used until such time as a detailed project specific approach is jointly developed to operationally target the reduction of CAC's and particulates and management of air quality at, and in proximity to, the Project site.	Air Quality and Greenhouse Gas Monitoring Plan Section 4.3: Data Analysis	Construction Operation Closure	
41	The Proponent shall ensure that impacts on employee health (both on and off-duty, on-site) are considered in assessing the need for adaptive measures. The Proponent shall ensure that ambient air quality in camp buildings meets indoor air quality guidelines through various means including the use of adequate ventilation and air filtration systems, effective insulation, seals on windows and doors, bans on vehicles idling in the immediate vicinity. Indoor air monitoring will occur to ensure that emissions are not accumulating in indoor environments.	Air Quality and Greenhouse Gas Management Plan Section 7.1.4: Design of Camp Accommodations Health and Safety Program	Construction Operation Closure	

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Community and Economics				
42	The Proponent shall maintain a transition fund, as a component of the Workforce Transition Strategy, of an amount sufficient to ensure, in the event of unscheduled closure: a) the funding of programs and other financial commitments outlined in the Socio-Economic Monitoring Program for a period of 12 months, b) maintenance of the Employee Assistance Program for a minimum of 6 months.	Socio-economic Monitoring Plan		Additional detail will not be provided
43	The Proponent will promptly notify Health and Social Services of unscheduled closures, the supports and services the Proponent has in place for impacted employees and their families, and any forecasted implications beyond the scope of what the Proponent can address. Health and Social Services will assess the need to coordinate or deploy health and social resources to support impacted communities, in alignment with mandate(s) and scope.	Reclamation and Closure Plan Section 6.7.1: Management of Socio-economic Aspects of Temporary Closure	Temporary Closure	
44	The Proponent shall provide staff with access to online information and resources for money management and budgeting.	Socio-economic Monitoring Plan and EAP		Additional detail will not be provided
45	Recruitment for care and maintenance positions shall follow the same process used for hiring mine employees, prioritizing local hire, with preference given to former qualified mine employees.	Socio-economic Monitoring Plan		Additional detail will not be provided
46	Security requirements shall take into consideration the potential for early unscheduled closure and the need for care and maintenance requirements to maintain environmental safeguards prior to decommissioning.	Reclamation and Closure Plan Section 9.0: Reclamation and Closure Liability	Closure	
47	The Proponent shall match the current Government of Yukon incentive for secondary suite renovation (\$10,000). Residents in Dawson and its environs will be eligible, with the number of Proponent grants capped at 30 approved and matched incentives.	Socio-economic Monitoring Plan		Additional detail will not be provided
48	The Government of Yukon shall work with the City of Dawson and Tr'ondëk Hwëch'in Government to identify and make available suitable lands for housing development.	Yukon Government		Additional detail will not be provided

Decision Document Monitoring Requirements

Mitigation Letter	Proposed Mitigation	Management Plan	Project Phases	Notes
Wildlife and Wildlife Habitat				
A	<p>The Government of Yukon shall implement a monitoring program for linear development (i.e. roads) and surface disturbance (i.e. mined areas) in the White Gold area in relation to effects to moose and other wildlife (i.e. caribou). The program shall be scoped with the following considerations:</p> <ol style="list-style-type: none"> 1. Monitoring shall include past developments and disturbances as well as reclamation efforts. 2. Monitoring shall seek to consolidate the quantity and quality of data submitted by Proponents into a consistent format for intended use in this program. 3. The program shall aspire to define significant cumulative linear and surface disturbance thresholds in the White Gold area for moose and caribou prior to issuance of any new Quartz Mining Land Use approvals, or expansion by more than 5% of the disturbance area for existing approvals. 4. The program shall be developed collaboratively with First Nations with traditional territory overlapping the area. First Nation participation in the monitoring program shall be funded by Government of Yukon. 5. The program shall be guided by a Terms of Reference (ToR), developed by consensus with Government of Yukon and First Nation government representatives. The ToR shall define temporal and spatial scopes, roles and responsibilities, and overall mandate. 6. Monitoring shall reflect and complement priorities identified in and work undertaken for the Dawson Land Use Plan. 	Yukon Government		
B	<p>The Government of Yukon shall implement monitoring of the overall abundance of moose in the Dawson Gold Fields MMU using a variety of methods that allow for tracking of population abundance and spatial distribution, such as aerial surveys and tracking of licensed harvest data, and which are performed consistently throughout the Project's lifecycle. Surveys should be conducted in early winter, commencing prior to construction, with subsequent surveys at five-year intervals, where possible, and include involvement of monitors from affected First Nations. The subsequent effects monitoring shall be informed by survey results and annual monitoring of all licensed moose harvest in game management subzones adjacent to, and intersecting the Northern Access Route.</p>	Yukon Government		
C	<p>The Proponent shall, in coordination and consultation with Government of Yukon, undertake effects monitoring of moose populations for areas of direct overlap with mine infrastructure, including the Northern Access Route, and for areas determined to be in the ZOI for moose within the Dawson Gold Fields MMU, Lower Stewart MMU and White Gold MMU.</p>			Newmont is currently in negotiations with Yukon Government regarding the effects monitoring program for wildlife. Program details will be provided when finalized as the negotiations are ongoing.
D	<p>Within 5 years of commencing operations, Government of Yukon shall conduct regional surveys, focusing on the interactions between the Fortymile and Klaza caribou herds and the Project. These surveys shall be conducted for the purposes of understanding the direct effects of the Project as well as the effects of the Project's induced development on herd movements and populations, establishing adaptive management thresholds and determining if additional measures are required should the evidence indicate there are negative project-related effects on caribou, either directly or indirectly.</p>	Yukon Government		

Decision Document Monitoring Requirements

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Water and Aquatic Resources				
E	The proponent shall develop and implement a plan to monitor seepage quality downgradient of the ROM ore pad to serve enable detection of any arsenic or uranium breakthrough from the pad to the underlying groundwater. Monitoring data shall be compared to triggers developed under the proponent's Environmental Monitoring and Adaptive Management Plan.	Groundwater Monitoring Plan Section 2.3.5: Seepage Monitoring	Construction Operations Closure	GW Monitoring Plan includes a visual survey once a month during the non-frozen season to confirm the presence of persistent seepage around facility perimeters (ROM).
		Surface Water Quality and Aquatic Life Adaptive Management Plan Section 4.5.3: Indicators, Performance Thresholds and Responses		Latte Creek thresholds tied to completing an evaluation of the ROM stockpile pad seepage.
Water and Aquatic Resources				
F	<p>The proponent's Environmental Monitoring and Adaptive Management Plan (EMAMP) plan shall include:</p> <p>1. Water management goals defined as use-protection in Halfway, Latte and YT-24 creeks, and non-degradation in Coffee Creek and the Yukon River downstream of Halfway, Latte and YT-24 creeks;</p> <p>2. For the purpose of non-degradation performance evaluation for the Yukon River extend monitoring spatially to the Yukon River downstream of Halfway, YT-24 and Coffee creeks, in areas directly affected by each creek's plume. This is in addition to water quality for the purpose of non-degradation performance evaluation in the fully mixed areas of the Yukon River downstream of Coffee Creek.</p>	<p>1) Water Management Plan Section 1.4.2: Territorial Regulations</p> <p>1) Surface Water Quality and Aquatic Life Adaptive Management Plan Section 1.2: Adaptive Management Plan Objectives</p>	Construction Operations Closure	
		2) Surface Water Quality Monitoring Plan Section 2.0: Monitoring Locations and Frequencies		

Decision Document Monitoring Requirements

Mitigation Letter	Proposed Mitigation	Management Plan	Project Phases	Notes
Water and Aquatic Resources				
F	<p>3. The rationale for the scope of the monitoring programs;</p> <p>4. Descriptions of how the Project effects assessments informed the development of the monitoring programs; and</p> <p>5. Descriptions and rationales for which programs require an adaptive management component.</p> <p>6. Include AMP events for Halfway Creek closer to the site than HC1.0, which is located in the lower reaches of Halfway Creek upstream of the Yukon River, where use-protection WQOs can be proposed;</p> <p>7. Include annual assessments to confirm non-degradation of surface water quality in Coffee Creek downstream of Latte Creek and the Yukon River downstream of Halfway, Latte and YT-24 creeks; such assessments will include comparison to a reference watershed;</p> <p>8. Thresholds for arsenic and uranium levels in downgradient seepage of the ROM ore pad and triggers for adaptive measures</p> <p>9. And shall develop Adaptive Management initiatives to address areas of uncertainty relevant to:</p> <ul style="list-style-type: none"> i. Performance of the Alpha Rock Drain; ii. Performance of the Alpha Pond(s) (water quality and seepage quantity and quality); iii. Performance of the bioreactor treatment system for HLF seepage (EBR system); and iv. NORM/TENORM for long-term storage of uranium-rich materials (EBR materials) <p>10. Define stabilization of water quality in the Alpha Pond (during the Closure phase, as a pre-condition for decommissioning of the Alpha Pond in Post-Closure) as:</p> <ul style="list-style-type: none"> i. No notable upward trends in the COPIs ii. A sustained reduction in inter-annual variability in COPi concentrations from Operations phase conditions iii. Discharge concentrations for all COPIs are consistently at levels that allow WQOs to be achieved in Halfway Creek. 	3) Environmental Monitoring and Adaptive Management Plan	Construction Operations Closure	
		4) Environmental Monitoring and Adaptive Management Plan Section 2.0: Environmental Monitoring Approach		
		5) Environmental Monitoring and Adaptive Management Plan Section 2.2: Adaptive Management Approach		
		6) Water Management Plan Section 4.3.8.1: Alpha Pond Performance Targets and Mitigation Measures		
		7) Surface Water Quality and Aquatic Life Adaptive Management Plan		Will not include a comparison to a reference watershed.
		8) Surface Water Quality and Aquatic Life Adaptive Management Plan Section 4.5.3: Indicators, Performance Thresholds and Responses		Latte Creek thresholds tied to doing an evaluation of the ROM stockpile pad seepage.
		9i) Water Management Plan Section 4.3.7: Alpha Rock Drain		
		9ii) Water Management Plan Section 4.3.8.1: Alpha Pond Performance Targets and Mitigation Measures		
		9iii) Heap Leach and Process Facilities Plan Section 4.5.3.1: Process Descriptions		
		9iii) Heap Leach and Process Facilities Plan Section 4.5.3.3: Contingency Water Treatment Plan		
9iv) Heap Leach and Process Facilities Plan , Section 4.5.3.1 Process Descriptions				
10) Reclamation and Closure Plan Section 7.7: Site Water Management Infrastructure				

Decision Document Monitoring Requirements				
Mitigation Letter	Proposed Mitigation	Management Plan	Project Phases	Notes
Health and Safety				
G	The Proponent shall include the following parties in the development of a monitoring program to ensure that the Project's effects on personal safety are adequately monitored: Government of Yukon, the Yukon Status of Women Council, and the Yukon Aboriginal Women's Council.	Socio-economic Monitoring Plan		
H	To position Government of Yukon with adequate information to act on recommendations and preparation of services within communities, data collected in the monitoring program must be shared and used by parties in the development of response and resources to address effects as they occur. To support that, information relating to the amount and percentage of workforce that is transient to the Yukon will be required. The Proponent shall provide a quarterly report detailing the numbers and percentage of workforce that is transient (i.e. fly-in/fly-out and non-resident to the Yukon) to the Government of Yukon.	Socio-economic Monitoring Plan		
I	<p>The Proponent shall develop an Air Quality and Dust Management and Monitoring Plan which incorporates the following:</p> <ol style="list-style-type: none"> 1. Long-term Monitoring stations <ul style="list-style-type: none"> o Long-term monitoring stations will be operated throughout the phases of the Project. <p>The long-term monitoring stations:</p> <ul style="list-style-type: none"> o Shall be placed at the permanent camp facilities, mine dry and office complex); the truck shop/warehouse; and at the Yukon River foreshore, east of the existing Coffee Creek camp. These are sites of predicted exceedances and worker presence (including off-duty workers) and likely exposure. The aim of establishing these stations is to redress the insufficient number of monitoring stations suggested by the Proponent for the mine site area. o Employ continuous monitoring, as opposed to the periodic and volumetric monitoring currently proposed. 2. Apply the use of MicroPulse LiDAR technology to monitor and track dust and particulates throughout the Project and adjacent areas. 3. At the commencement of Project Operations, Government of Yukon (YG) shall develop a repository for the monitoring data collected by the Proponent under the Air Quality and Dust Management Plan, and which it will provide on a timely (quarterly) basis. This repository will be accessible to First Nations, industry parties, regulators and the general public. YG shall review repository data and ensure compliance with the Adaptive Management Measures outlined under Mitigations 40 and 41. 4. A system for implementing additional monitoring and/or mitigation measures in the event of: <ul style="list-style-type: none"> o Changes to overall air quality, particularly increases in particulates, dust and contaminant concentrations approaching thresholds; o Complaints o Such a plan is required for submission during the Quartz Mining Licence phase for the Project. 5. A system for tracking, recording and responding to complaints related to air quality in collaboration with Environmental Health Services. Complaints are to be submitted to Environmental Health Services for recording purposes. 	<ol style="list-style-type: none"> 1. Air Quality and Greenhouse Gas Monitoring Plan Section 2.0: Monitoring Locations, Section 3.0: Monitoring Methodology 2. Air Quality and Greenhouse Gas Monitoring Plan Section 3.5: Dust Plume Tracking 3. Air Quality and Greenhouse Gas Monitoring Plan Section 4.0 Data Analysis and Interpretation; Yukon Government 4. Air Quality and Greenhouse Gas Monitoring Plan Section 4.3 Data Analysis 5. Newmont Coffee Grievance Mechanism 	Construction Operations Closure	

Decision Document Monitoring Requirements

Mitigation Letter	Proposed Mitigation	Management Plan	Project Phases	Notes
Community and Economics				
J	<p>A working group shall be formed consisting of Government of Yukon, City of Dawson, Tr'ondëk Hwëch'in Government and the Proponent. This working group will monitor project-induced population growth and housing demand across project life. Project monitoring must involve the collection of data on the population of Dawson, rental and homeownership rates, availability of rental and market housing and associated prices. The Proponent shall provide an annual report on workforce numbers and place of worker residence, made publicly available, to establish clear reporting of immigration trends.</p>	<p>Socio-economic Monitoring Plan</p>		

Proponent Commitments - Heap Leach and Process Facility

FSR Plan	Mitigation Name	Reference	Proponent Committed Mitigation	Management Plan	Commitment Incorporated	Section Location	Notes
Environmental Monitoring and Adaptive Management Plan (EMAMP)	EMAMP: SWQ Monitoring Plan	SIR1-9.3.6-R194 (YOR 2017-0211-325-1) SIR1-2.12-R50 (YOR 2017-0211-323-1)	As the mine plan progresses, Goldcorp will continue to monitor both Mine Site and receiving environment water quality, taking preventative action to minimize potential effects to Halfway Creek. Key areas for monitoring will include water management infrastructure, HLF infrastructure, stockpiles, WRSFs, and open pits.	EMAMP	Yes	EMAMP - Appendix B: SWQ Monitoring Plan Section 3.1.3: Receiving Environment Monitoring	Mine plan incorporates minimizing potential effects to Halfway Creek
Environmental Monitoring and Adaptive Management Plan (EMAMP)	EMAMP: SWQ Monitoring Plan	SIR2-3.1-R2-19 (YOR 2017-0211-411-1)	As site performance information is collected as the mine progresses, water quality evaluations will be undertaken to ensure that the predictions made for the project are consistent with actual performance. The water quality and water balance model will be updated annually to reflect the actual conditions and will be used to assess whether additional contingency measures should be applied using an adaptive approach.	EMAMP	Yes	EMAMP - Appendix B: SWQ Monitoring Plan Section 3.1.5: Timing, Frequency, and Duration EMAMP - Appendix L: Surface Water Quality and Aquatic Life AMP Section 2.3: Performance Thresholds	
Environmental Monitoring and Adaptive Management Plan (EMAMP)	EMAMP: SWQ Monitoring Plan	SIR1-5.8.3-R109 (YOR 2017-0211-324-1)	Seepage water quality monitoring will by necessity, take place at the outlet of the Alpha rock drain, and thus will include a mixture of all water that flows through the drain, including WRSF seepage.	EMAMP	Yes	EMAMP - Appendix B: SWQ Monitoring Plan Section 3.1.2: Effluent Monitoring	Water quality samples will be obtained from the Alpha Pond (M1) on a weekly basis while discharging as the Alpha Pond discharges both through direct pumping to Halfway Creek as well as foundation seepage.
Environmental Monitoring and Adaptive Management Plan (EMAMP)	EMAMP: SWQ Monitoring Plan	SIR1-2.12-R49 (YOR 2017-0211-323-1)	For water quality, at a minimum, quarterly water quality sampling will occur and results, as well as annual updates to the water quality and WBM, will be reported.	EMAMP	Yes	EMAMP - Appendix B: SWQ Monitoring Plan Section 2.0 Monitoring Locations and Frequencies; Section 6.0: Reporting and Annual Review	
Environmental Monitoring and Adaptive Management Plan (EMAMP)	EMAMP: SWQ Monitoring Plan	SIR1-2.12-R56 (YOR 2017-0211-323-1)	The upstream (reference) water quality monitoring station in the Yukon River (YUK-51.3) will continue to be monitored throughout the Project life, including the Reclamation and Closure Phase.	EMAMP	Yes	EMAMP - Appendix B: SWQ Monitoring Plan Section 3.1.3: Receiving Environment Monitoring	
Environmental Monitoring and Adaptive Management Plan (EMAMP)	EMAMP: SWQ Monitoring Plan	SIR2-9.2-R2-57 (YOR 2017-0211-411-1)	An operation, monitoring and surveillance manual (OMS) will highlight required surveillance, inspection, monitoring, and maintenance activities required for the sedimentation ponds. The ponds will be routinely inspected during the open water season and more frequently during intensive rainfall or snowmelt periods. The OMS manual will highlight that the ponds will need to be routinely cleaned (i.e., excavated) to limit resuspension and ensure sedimentation processes are achieved. Additional sediment control can also be implemented if necessary, such as flocculation and/or sediment curtains.	EMAMP: Water Management Plan	Yes	EMAMP - Appendix K: Physical Monitoring Plan Section 5.0: Water Management Infrastructure Water Management Plan Section 4.3.10: Additional Sedimentation Pond Details	The sedimentation ponds will be inspected daily during the open water season in the Construction Phase, weekly during the Operations Phase, then weekly to monthly during the Closure Phase.
Environmental Monitoring and Adaptive Management Plan (EMAMP)	EMAMP: SWQ Monitoring Plan		Parameters of concern in the effluent will be screened against MMER effluent criteria. In addition, testing will be conducted as required by sections 12(1) and 14(1) of the effluent monitoring conditions of the MMER. Project is to conduct an acute lethality test twice in a calendar year using raw effluent and report the results to regulatory agencies.	EMAMP	Yes	EMAMP - Appendix B: SWQ Monitoring Plan Section 3.1.5: Timing Frequency and Duration; Section 4.2.5: Toxicity	
Environmental Monitoring and Adaptive Management Plan (EMAMP)	EMAMP: SWQ Monitoring Plan	SIR1-9.2.1-R167 (YOR 2017-0211-325-1)	<p>The testing regime for sewage effluent will follow the Federal Fisheries Act – Wastewater Systems Effluent Regulations (SOR/2012-139).</p> <ul style="list-style-type: none"> The average carbonaceous biochemical oxygen demand (CBOD) due to the quantity of CBOD matter in the effluent will not exceed 25 mg/L. The average concentration of suspended solids in the effluent will not exceed 25 mg/L. The average concentration of total residual chlorine in the effluent will not exceed 0.02 mg/L, if chlorine, or one of the compounds, was used in the treatment of wastewater. The maximum concentration of un-ionized ammonia in the effluent of less than 1.25 mg/L expressed as nitrogen (N), at 15 degrees Celsius (°C) ± 1° C. 	EMAMP	No		The sewage treatment plant design has been updated.
Environmental Monitoring and Adaptive Management Plan (EMAMP)	EMAMP: SWQ Monitoring Plan	SIR1-2.9-R34 (YOR 2017-0211-323-1)	It is estimated that the Coffee Project will result in an average annual daily volume deposit of greater than 17 500 and less than 50 000, and composite samples will be taken weekly but at least five days after any other sample.	EMAMP	No		Commitment referring to the sewage treatment plant. The sewage treatment plant design has been updated.
Environmental Monitoring and Adaptive Management Plan (EMAMP)	EMAMP: SWQ Monitoring Plan	SIR3-R3-48 (YOR 2017-0211-501-1)	The Adaptive Management Plan for water quality follows a tiered approach, which incorporates early warning triggers of potential impacts to aquatic resources, while focusing on routine water monitoring upstream and downstream of Project activities. Numeric triggers will be established based on the aqueous concentrations of key parameters of potential concern (POPCs). Tier 1 and Tier 2 will be linked to the WQM predictions, which will be updated on an annual basis to reflect the mine plan for that corresponding mine phase and year.	EMAMP	Yes	EMAMP - Appendix L: Surface Water Quality and Aquatic Life AMP Section 2.3: Performance Thresholds	

Proponent Commitments - Heap Leach and Process Facility

FSR Plan	Mitigation Name	Reference	Proponent Committed Mitigation	Management Plan	Commitment Incorporated	Section Location	Notes
Environmental Monitoring and Adaptive Management Plan (EMAMP)	EMAMP: SWQ Monitoring Plan	SIR3-R3-53 (YOR 2017-0211-501-1)	Significant deviations from background in water concentrations will be evaluated by screening collected data against proposed water quality objectives or applicable water quality guidelines. While discharging, water quality data will be collected on a weekly basis at the effluent discharge points (MDMER compliance points), and monthly in the receiving environment. Receiving environment stations will be located upstream of discharge points such that background contributions can be registered, and in near-field areas located downstream of the discharge points (boundary of the initial dilution zone), so that possible effects due to project discharges can be identified in the receiving environment.	EMAMP	Yes	EMAMP - Appendix B: SWQ Monitoring Plan Section 2.0: Monitoring Locations and Frequencies	
Environmental Monitoring and Adaptive Management Plan (EMAMP)	EMAMP: SWQ Monitoring Plan	SIR3-R3-20b (YOR 2017-0211-501-1)	The monitoring of the diversion channels is expected to consist of monthly survey checks (fixed survey monitoring points will be installed for reference), and weekly visual checks / inspections during operation (diversion decommissioned for closure). These weekly inspections and monthly surveys will be completed by site staff.	EMAMP	Yes	EMAMP - Appendix K: Physical Monitoring Plan Section 5.0: Water Management Infrastructure	
Environmental Monitoring and Adaptive Management Plan (EMAMP)	EMAMP: SWQ Monitoring Plan	SIR5-R5-13 (YOR 2017-0211-5869)	A complete Adaptive Management Plan is currently being drafted that will include discussion of the proportion of assimilative capacity to be used for the water quality targets in Coffee Creek to be submitted for Project licensing.	EMAMP	Yes	EMAMP - Appendix L: Surface Water Quality and Aquatic Life AMP	
Environmental Monitoring and Adaptive Management Plan (EMAMP)	EMAMP: SWQ Monitoring Plan	SIR6-R6-23 (YOR 2017-0211-7131)	The detailed AMP for surface water quality will be provided with the licensing applications, in addition to AMPs covering physical stability (the triggers for which will be set based on detailed engineering), fish and fish habitat, and site water balance (e.g., effluent discharge volumes, pit lake volumes/levels).	EMAMP; Water Management Plan	Yes	EMAMP - Appendix L: Surface Water Quality and Aquatic Life AMP Section 1.2: Adaptive Management Plan Objectives Water Management Plan Section 4.3.8: Alpha Pond	Physical stability Adaptive Management Plans will be provided as the Project advances.
Environmental Monitoring and Adaptive Management Plan (EMAMP)	EMAMP: SWQ Monitoring Plan	SIR5-R5-14 (YOR 2017-0211-5869)	Monitoring stations proposed Performance Thresholds will be compared to individual water quality measurements, on a monthly basis. Should a sampling event show an exceedance of a Performance Threshold value for one or more parameters used as 'sentinel' parameters in the Adaptive Management Plan, the responses and actions associated with the surpassed Threshold will be enacted. In the case of Coffee Creek, no WQOs are proposed, rather, non-degradation targets will be proposed for station CC-10.9 located below the confluence with Latte Creek. These non-degradation targets will be based upon the concept of assimilative capacity, defined as the difference between the 95th percentile of all baseline data and the generic Water Quality Guideline for the parameter in question.	EMAMP	Yes	EMAMP - Appendix L: Surface Water Quality and Aquatic Life AMP Section 2.3: Performance thresholds; Section 4.2: Aquatic Biota and Fisheries Monitoring	
Environmental Monitoring and Adaptive Management Plan (EMAMP)	EMAMP: SWQ Monitoring Plan	SIR6-R6-24 (YOR 2017-0211-7131)	Monitoring of surface water quality and quantity will be conducted upstream of the Alpha WRSF throughout the Construction, Operations and Active Closure periods. Monitoring will include all additional sources of potential contaminant of concern (PCOC) loadings reporting to the Alpha Pond, including pit and sediment pond discharges, and seepage monitoring.	EMAMP	Yes	EMAMP - Appendix B: SWQ Monitoring Plan Section 2.0: Monitoring Locations and Frequencies EMAMP - Appendix A: Hydrology Monitoring Plan Section 3.0: Monitoring Locations and Frequencies	
Environmental Monitoring and Adaptive Management Plan (EMAMP)	EMAMP: SWQ Monitoring Plan		Detailed monitoring plans will be provided with the licensing applications, including: <ul style="list-style-type: none"> • Surface water quantity (effluent discharge sources, points and receiving environment sites, as appropriate); • Surface water quality (effluent discharge sources, points and receiving environment sites, as appropriate); and, • Groundwater level and quality monitoring, up- and down-gradient of facilities that are predicted to have an effect on these variables. 	EMAMP	Yes	EMAMP Section 2.0: Environmental Monitoring and Adaptive Management Approach	added Section details (CAB)

Proponent Commitments - Heap Leach and Process Facility

FSR Plan	Mitigation Name	Reference	Proponent Committed Mitigation	Management Plan	Commitment Incorporated	Section Location	Notes
Environmental Monitoring and Adaptive Management Plan (EMAMP)	EMAMP: Fish and Aquatic Life Monitoring Plan	SIR1-5.8.1-R103 (YOR 2017-0211-324-1)	<p>Goldcorp will conduct stream channel surveys at key monitoring locations regularly (e.g., every three years). The details of this monitoring program will be outlined in the Aquatic Monitoring Plan being developed for Project licence applications. Key indicators to be monitored will include the following:</p> <ul style="list-style-type: none"> Streambed PSD (Wolman pebble count); Stream channel cross-sections and gradient (3 at each site, benchmark controlled); these will likely be done more frequently in support of the hydrometric program; Plan form (using satellite imagery). 	EMAMP	No	EMAMP - Appendix F: Fish and Aquatic Life Monitoring Plan Section 3.4.3 Fish Habitat	The Fish and Aquatic Life Monitoring Plan has evolved since this comment and focuses on collecting detailed fish habitat and channel measurements on 500 m sections of each creek. Data on the physical attributes of the channel will be collected following BC Fish Habitat Assessment Guidelines (Johnston and Slaney 1996). Following this procedure, habitat units will be delineated and various measurements will be collected for each (including channel and wetted widths, depths, cover, bed materials and gradient). In addition, Wolman Pebble Counts will be completed at each site to understand particle size distribution of bed material. This will provide perspective on the amount of fine sediments that may be accumulating. Cross sections and plan form surveys are not listed in this plan given the detailed habitat mapping will give ample information on stream width, depth and gradient. Cross sections related to hydrology sampling will likely be completed regularly and can be drawn upon if needed.
Environmental Monitoring and Adaptive Management Plan (EMAMP)	EMAMP: Fish and Aquatic Life Monitoring Plan	SIR2-5.5.1-R2-39 (YOR 2017-0211-411-1)	The monitoring plan is to include monitoring of fish habitat and channel conditions including pool frequency, pool depth and bed materials. Significant changes that negatively affect fish habitat will require an adaptive management response.	EMAMP	Yes	EMAMP - Appendix F: Fish and Aquatic Life Monitoring Plan Section 3.4.3: Fish Habitat EMAMP - Appendix L: Surface Water Quality and Aquatic Life AMP Section 3.0: Fish and Aquatic Life AMP	
Environmental Monitoring and Adaptive Management Plan (EMAMP)	EMAMP: Fish and Aquatic Life Monitoring Plan	TH Proposed Conditions (March 2020) (YOR 2017-0211-3971)	<p>The Proponent must retain a Qualified Professional to develop a Fish and Aquatic Life Monitoring Plan (FALMP):</p> <p>a) A detailed description of the design of the monitoring program including a list of specific parameters to be measured;</p> <p>b) A description of the locations, sample sizes, methods, and timing and frequency of sampling for each measurement endpoint and metric including, but not limited to:</p> <ol style="list-style-type: none"> tissue chemistry (for periphyton, benthic invertebrates); aquatic invertebrate abundance and communities; periphyton biomass, abundance, and communities; fish condition and communities; and fish health metrics and observations. <p>c) Bioaccumulation modelling of bioaccumulative contaminants in water or sediment that are determined by a Qualified Professional to be a COPC for the Project;</p> <p>d) The means by which the data collected under the FALMP will be analyzed to determine the effects of the Project on the aquatic environment;</p> <p>e) Specific monitoring triggers (both below and at guideline levels when guidelines exist) and corresponding responses and mitigation measures that would be implemented if the triggers were reached;</p>	EMAMP	Yes	<p>a, b and d) EMAMP - Appendix F: Fish and Aquatic Life Monitoring Plan Section 3: Fish and Fish Habitat Monitoring; Section 4: Benthic Invertebrate Monitoring; Section 5: Periphyton Monitoring</p> <p>c) See notes</p> <p>e) EMAMP - Appendix L: Surface Water Quality and Aquatic Life AMP Section 3: Fish and Fish Habitat Monitoring</p> <p>f) EMAMP - Appendix L: Surface Water Quality and Aquatic Life AMP Section 3: Fish and Fish Habitat Monitoring</p> <p>EMAMP - Appendix F: Fish and Aquatic Life Monitoring Plan Section 8: Reporting and Review</p>	Elements such as U or As do not bioaccumulate (or accumulation up the food chain is negligible). Therefore, bioaccumulation is not expected to pose an issue for the Project.

Proponent Commitments - Heap Leach and Process Facility

FSR Plan	Mitigation Name	Reference	Proponent Committed Mitigation	Management Plan	Commitment Incorporated	Section Location	Notes
Environmental Monitoring and Adaptive Management Plan (EMAMP)	EMAMP: SWQ and Hydrology Monitoring Plan	TH Proposed Conditions (March 2020) (YOR 2017-0211-3971)	<p>The Proponent must retain a Qualified Professional to develop a Surface Water Quality and Hydrology Monitoring Plan (SWQHMP). The SWQHMP is not intended to be duplicative with regulatory requirements.</p> <p>a) A detailed description of the design of the monitoring program including a list of specific parameters to be measured;</p> <p>b) A description of the locations, sample sizes, methods, and timing and frequency of sampling for surface water chemistry and toxicity.</p> <p>c) A description of surface water chronic and acute toxicity tests that will be run, including those using sensitive invertebrate and/or fish species that measure sensitive endpoints, including reproduction;</p> <p>d) Description of triggers for collection and analysis of sediment chemistry and/or toxicity;</p> <p>e) Specific monitoring triggers (both below and/or at guideline levels when guidelines exist) and corresponding responses and/or mitigation measures that would be implemented if the triggers were reached;</p> <p>f) A list of reports that will be prepared to disseminate the results of the SWQHMP, including a description of the proposed frequency, timing, and content of each report.</p>	EMAMP	Yes	<p>a) EMAMP - Appendix B: SWQ Monitoring Plan Section 3.0 Monitoring Methodology EMAMP - Appendix A: Hydrology Monitoring Plan Section 4.0 Monitoring Methodology</p> <p>b) EMAMP - Appendix B: SWQ Monitoring Plan Section 2.0 Monitoring Locations and Frequencies; Section 4.0 Data Control, Analysis and Interpretation</p> <p>c) EMAMP - Appendix B: SWQ Monitoring Plan</p> <p>d) EMAMP - Appendix F: Fish and Aquatic Life Monitoring Plan</p> <p>e) EMAMP - Appendix L: Surface Water Quality and Aquatic Life AMP Section 2.0 Adaptive Management Initiatives - Surface Water Quality</p> <p>f) EMAMP - Appendix B: SWQ Monitoring Plan Section 6.0 Reporting and Annual Review; EMAMP - Appendix A: Hydrology Monitoring Plan Section 5.0 Data Control, Analysis and Interpretation</p>	
Environmental Monitoring and Adaptive Management Plan (EMAMP)	EMAMP: Wildlife Monitoring Plan	TH Proposed Conditions (March 2020) (YOR 2017-0211-3971)	<p>The Proponent must retain a Qualified Professional to develop a Wildlife Monitoring Plan.</p> <p>a) A monitoring plan based on the annual proximity of the winter distribution of the Klaza and Fortymile caribou during construction and the first 3 years of operations;</p> <p>b) Post rut moose congregation surveys and winter moose surveys and monitoring annually during construction and the first 3 years of operations;</p> <p>c) Monitoring and reporting of mine-related traffic; and remote monitoring of NAR traffic volumes during construction and the first 3 years of operations.</p> <p>d) Monitoring and reporting requirements of measures that reduce the risk of wildlife entrapment/interaction with site infrastructure (ponds, open pits etc.), including additional monitoring and mitigations for avian and wildlife species.</p>	EMAMP; AROMP; WPP	Yes	<p>a) EMAMP - Appendix G: Wildlife Monitoring Plan Section 6.0: Caribou Monitoring</p> <p>b) EMAMP - Appendix G: Wildlife Monitoring Plan Section 5.0: Moose Monitoring</p> <p>c) EMAMP - Appendix G: Wildlife Monitoring Plan Section 2.3: Links to Other Disciplines; AROMP Section 3.1: Access Control</p> <p>d) Wildlife Protection Plan Section 4.2.6: Prevent Wildlife Entrapment; Section 4.3.6: Birds and Bird Nests; EMAMP - Appendix G: Wildlife Monitoring Plan Section 4.1: Background and Objectives</p>	<p>a) The monitoring program has changed since this commitment was made in 2020 (based on discussion with YG/the YESAB process).</p> <p>b) The monitoring program has changed since this commitment was made in 2020 (based on discussion with YG/the YESAB process). At this time, post-rut moose surveys (in early winter) are proposed to be completed by YG, commencing prior to construction, with subsequent surveys at 5-year intervals (see Table 5-1 in Section 5.1).</p> <p>c) The traffic study program will be completed annually for the first three years of operation and once every five years until the road is decommissioned.</p>
Environmental Monitoring and Adaptive Management Plan (EMAMP)	Environmental Effects Monitoring (EEM) Program	SIR1-Appendix 9-E (YOR 2017-0211-371-1)	An Environmental Effects Monitoring (EEM) program that meets the requirements of the Metal Mine Effluent Regulations (MMER) will be implemented that will be able to identify the project-specific assessment and measurement endpoints relevant to CSM receptors (including sediment quality, benthic invertebrates, and fish).	EMAMP	Yes	EMAMP - Appendix F: Fish and Aquatic Life Monitoring Plan	