AANDC Issue	Observations and Information Requests	HBML Action
Issue SWQ1:	Observation: Requested amendment to Section G Item	N/A
Surface Water	3: Treated wastewater will be discharged to a location	
Quality	north of the camp pad rather than to the Tailings	
Requested	Impoundment Area (TIA). The discharge location and the	
changes to	projected loading rates are not described, nor is	
allowable	comparable information on the receiving water (Doris	
wastewater	Creek?). Comparisons of flows and loads of wastewater	
discharges may	parameters to background loads in the creek may be	
change loading	important in assessing potential impacts to the creek	
in Receiving	and Doris Lake.	
environments.	Information Request:	As per the water licence clause Part G Item 3c "The Licensee shall
	1. Additional information related to the nature, extent	operate the Sewage Treatment Plant in accordance with the
	and character of the receiving environment in	following: During site construction, treated effluent from the
	relation to loading factors (i.e., fish bearing	Sewage Treatment Plant shall be discharged approximately 400
	waterbodies/watercourse) would be helpful in	metres north of the camp pad;" HBML has been discharging
	completing the technical review.	treated effluent (that has undergone primary and secondary
		treatment) to a location approved by the inspector since
		construction of the project began in 2007. Please refer to the
		Waste Water Management Plan for details on the discharge
		location: ftp://nunavutwaterboard.org/1%20PRUC/2%20MINING
		%20MILLING/2A/2AM%20-%20Mining/2AM-
		DOH0713%20HBML/1%20APPLICATION/2012%20Amend%20Ren
		<u>ew/121023%202AM-</u>
		DOH0713%20NWB%20Hope%20Bay%202012%20Wastewater%2
		OTreatment%20Management%20Plan%20R3-IMLE.pdf.
		Effluent is discharged to a diffuser onto an outcrop to minimize
		permafrost degradation and erosion over 1 km from Glenn Lake,
		the closest water body. Glenn Lake is in a different drainage than
		Doris Lake. From results obtained at monitoring station ST-9 on
		the shore of Glenn Lake (a station intended to monitor whether
		any discharged treated effluent reaches the lake), there is no
		evidence that treated effluent discharged at ST-8 reaches the
		lake.

Issue SWM1:	Observation: In examining the Interim Water	N/A
Site Water	Management Plan a plan or description of existing	
Management	drainage features (ditches etc.) could not be found. The	
(Surface Water)	plan that has been provided does not clearly identify or	
The existing (as	describe the key features such as the Tail Lake or Doris	
built) drainage	Lake. While the planned design was reviewed and	
features are not	approved, knowledge of the constructed as-built design	
identified and	would be beneficial, particularly in the context of care	
how these	and maintenance versus operations. Although these	
features will be	features may be identified in other documents they	
incorporated	should also be included as part of the Interim Water	
into future plans	Management Plan to provide a proper context for the	
(if any) is not	project.	
described.	Information Requests:	The IWMP is currently being revised to include all constructed site
	1. Complete plan for existing site features as	features and will be submitted to the NWB once complete.
	constructed including drainage features and	
	receiving water courses.	
	2. Identification of how these existing features are to	HBML updates management plans as required to reflect new
	be incorporated into future plans.	construction and changes in operating procedures.
Issue SWM2	Observation: Most water management plans for mine	N/A
A review of the	projects include contingencies for extreme events,	
Interim Water	especially in cases where Acid Rock Drainage (ARD) is of	
Management	concern. For example Quebec requires sufficient storage	
Plan does not	to contain the 1:2000 year event in cases where the	
indicate there is	ponds contain ARD.	
a management	Information Request:	Appropriate design criteria for the IWMP were based on Best
plan for an	1. Additional information is required regarding how an	Management Practices (BMPs) for stormwater control in mining
extreme event	extreme event will be managed, and whether or not	and other guideline documents, such as the Canadian Dam Safety
even though an	that analysis has been completed.	Association Guidelines (CDA 2007), which include consideration of
extreme		extreme events and associated consequences in the event of
observed event		exceedance of the design event. To that end it was deemed
is noted in other		appropriate to adopt the design criteria as stated which
correspondence.		conservatively includes a 1:20 wet year base flow and a runoff
A management		coefficient of 1 plus a 1:25 year, 24-hour duration storm event.

plan for extreme events would assist in addressing effects from climate change.		The IWMP was designed to be in use for a limited time period, until tailings deposition started after which the original water management plan for the project would have been implemented. Given this timeframe, and the fact that the ponds do not contain ARD, the reduced design criteria were considered appropriate. Once the final water management plan gets implemented, the design flood (i.e. 24-hour duration storm event) will be increased to a 1:100 year event as opposed to a 1:25 year event and the only change required to do that would be increased pumping capacity.
Issue TE1:	Observation: () the Proponent made a commitment	N/A
Terrestrial	"Arctic environment re-vegetation research will be	
Environment	looked at through the life of the mine and at closure to	
Clarification of	ensure that best available mitigation and management	
commitment to	revegetation practices are implemented during mine	
ensure that best	closure." However, this commitment seems to be	
available	counter what was proposed by the Proponent in Section	
mitigation and	8.2.2 Post-Closure Revegetation Considerations (Page	
management	102, PCRP) () In Section 4 Post-Closure Monitoring and	
revegetation	Maintenance (Page 17, RCRP), the Proponent adds	
practices are	another commitment "The site should be inspected by	
implemented in	an Arctic vegetation specialist to confirm suitability of	
the Revised	the re-vegetation efforts". This commitment seems to	
Closure and	require more information that that available about	
Reclamation	revegetation in the project area to perform an adequate	
Plan	inspection. The best available mitigation and	
(RCRP) and that	management revegetation practices seems not been	
the plan will	adequately addressed for the species-rich project area	
comply with the	(i.e., current projects in similar areas are proactively	
requirements of	doing more than just natural revegetation, no location	
the <i>Nunavut</i>	map of areas subject to natural re-vegetation, no table	
Wildlife Act and	of areas subject to natural revegetation, no description	
the <i>Nunavut</i>	of native vegetation test plot trials, no list of key species	
Scientists Act for	during natural revegetation, no description of	

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any research to	progressive revegetation activities, no strategy to avoid	
be undertaken.	weeds during natural revegetation, no active	
	revegetation methods, no key indicators to measure	
	success during the natural revegetation, etc.)	
	Information Request:	Please refer only to the revegetation practices described in the
	1. AANDC requests the Proponent clarify its	SRK 2012 Closure Plan to avoid confusion. When it comes to
	commitment to ensure that best available mitigation	revegetation, HBML will use the best available or proven
	and management revegetation practices are	technologies. HBML would like to note that the AMEC 2005
	implemented in the RCRP and/or that appropriate	Closure Plan, already approved by the NWB, is not part of the
	research is undertaken to support revegetation of	current review. It was included as an appendix to the SRK 2012
	the site at a later date.	Closure Plan for reference purposes only.
Issue CR1:	Observation: () It is not clear if the SRK 2012 closure	N/A
Closure and	plan is intended to replace or augment the AMEC 2005	
Reclamation	closure plan. Is the Proponent intending to keep the	
Relationship of	AMEC 2005 closure plan as part of the water licence in	
existing AMEC	case the project is built in the future?	
2005 closure	Information Requests:	Yes, the SRK 2012 Closure Plan is meant to be used to close the
plan and new	1. Does the SRK 2012 closure plan replace the AMEC	site as it exists today. The AMEC 2005 Closure Plan described
SRK 2012	2005 closure plan?	closure of the site as envisioned by Miramar in 2005 prior to the
closure plan in		start of construction.
the	2. Does the AMEC 2005 closure plan continue to apply	The AMEC 2005 Closure Plan will not apply to the site if
permit.	to the site if it were constructed in the future, or	construction of the project continues at a future date. Should
	would a new closure plan need to be developed and	Doris be taken out of care and maintenance and should
	submitted to regulators in the case of the project	construction of the Doris North Mine proceed, the SRK 2012
	going forward in the future.	Closure Plan would be updated to reflect any further site
		construction.
	3. When will a a decision be made to implement the	The SRK 2012 Closure Plan will replace the AMEC 2005 Closure
	SRK 2012 closure plan vs the implementation of the	Plan when the NWB approves it. At this time, Newmont does not
	interim reclamation plan presented in the AMEC	have a plan to implement closure of the site.
	2005 closure plan.	
Issue CR2:	Observation: Section 2.2 Facility Closure Strategies	N/A
The current	(page 8) states that "all material used for reclamation	
Closure plan	will be source from existing stockpiles. Stockpiled run of	
support	quarry and crushed rock are from Quarry #2. A detailed	
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information on	geochemical characterization of Quarry #2 was	
PAG, non-PAG	previously performed (SRK 2007)." The SRK 2007	
materials and	document reference details are provided in the	
reclamation	reference section of the SRK 2012 closure plan.	
materials		
quantity balance	Existing geochemical characterization information would	
appears	assist in understanding Potentially Acid Generating	
incomplete.	(PAG) risk for long term closure. Additionally, it would be	
	helpful to review any existing reclamation soil balances	
	to understand if there is a surplus or deficit of	
	reclamation materials existing on site.	
	Information Requests:	The report entitled Geochemical Characterization of Quarry
	1. Provide a copy of the SRK 2007 report and any other	Materials, Doris North Project, Hope Bay, Nunavut, Canada
	background information available on PAG, non-PAG	(Revised March 2007) is available on the NWB ftp
	material on site.	site: ftp://nunavutwaterboard.org/1%20PRUC/2%20MINING%20
		MILLING/2A/2AM%20-%20Mining/2AM-
		DOH0713%20HBML/1%20APPLICATION/2007%20Revised%20App
		lication/070501%202AM-DOH
		%20S7%20Geochemical%20Characterization%20of%20Quarry%2
		OMaterials.pdf. Other information can be found in the annual
		waste rock and quarry monitoring reports posted on the NWB ftp
		site: ftp://nunavutwaterboard.org/1%20PRUC/2%20MINING%20
		MILLING/2A/2AM%20-%20Mining/2AM-
		DOH0713%20HBML/3%20TECH/9%20MONITORING%20%28J%29
		<u>%28K%29/120329%202AM-</u>
		DOH0713%202011%20Waste%20Rock%20and%20Quarry%20Mo
		nitoring%20Report-IMLE.pdf,
		and ftp://nunavutwaterboard.org/1%20PRUC/2%20MINING%20
		MILLING/2A/2AM%20-%20Mining/2AM-
		DOH0713%20HBML/3%20TECH/4%20WASTE%20DISP%20%28G%
		29/110411%202AM-
		DOH0713%202010%20WR%20and%20QuarryMonitoringReport-
		IMLE.pdf.
	2. Provide information such as existing stockpile	There is no PAG material stockpiled at the project site in Quarry 2

	quantities of PAG and non-PAG material currently available that would be used to implement the actions described in the SRK 2012 closure plan.	or in the waste rock or ore stockpiles. All stockpiled material in Quarry 2 is non-PAG. This run of quarry material will be available for reclamation. According to the SRK 2012 Closure Plan, waste rock will be used to backfill 15 m of the decline to seal it. Some inert diabase waste rock may be used as a cap to the waste rock pile, but otherwise no other waste rock will be used in reclamation.
Issue HWM1: Hazardous Waste Management Current inventory of hazardous materials stored onsite is not outlined in the	Observation: It is understood that the Hazardous Waste Facility is registered as a Hazardous Waste Storage Facility. As indicated in the Nunavut Guideline for the General Management of of Hazardous Wastes, storage is considered as a temporary measure and is not acceptable for the long-term management of hazardous waste. According to the Proponent's Hazardous Waste Management Plan, a record will be maintained of the type and amount of waste in storage. Information Request:	N/A HBML maintains a record of all hazardous waste stored on site, as
documents provided.	1. The proponent is requested to provide an inventory of all hazardous materials stored including; types of materials, quantities, information on the type of storage container, location of stored waste (inside/outside), description of the container labels as well as the expected offsite shipping date.	per section 4.5 of the Hazardous Waste Management Plan (ftp://nunavutwaterboard.org/1%20PRUC/2%20MINING%20MILL ING/2A/2AM%20-%20Mining/2AM-DOH0713%20HBML/3%20TECH/4%20WASTE%20DISP%20%28G% 29/120321%202AM-DOH0713%20Hope%20Bay%20MAR12%20Hazardous%20Waste% 20Management%20Plan%20R1.1-IMLE.pdf updated for care and maintenance in March 2012), when such waste are actually on site. Currently, no hazardous waste is stored on site because all of it was removed prior to site closing for the winter. HBML is registered as a hazardous waste storage facility because at times it is necessary to hold hazardous waste on site for more than 90 days because some wastes can only be shipped yearly via barge (see section 4.3 of Hazardous Waste Management Plan for more details).
Issue HWM2:	Observation: During Care and Maintenance there is the	N/A
Confirmation of	potential that spills could go un-noticed for extended	

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Hazardous	periods of time. As required by Part D, Item 2 of the	
Waste Storage	water licence, the proponent shall ensure that any	
Area Design is	chemicals, fuels or wastes do not enter any water body.	
required.	Information Request:	As explained above, there is currently no hazardous waste stored
	1. The Nunavut Guideline for the General Management	at the project site. As a result, it is not necessary to perform
	of Hazardous Waste indicates that storage facilities	weekly inspections of the hazardous waste storage facility. When
	are to be inspected at least once every week. Since	hazardous waste is stored on site it is managed as per the
	during Care and Maintenance, the site will not be	Hazardous Waste Management Plan. The Spill Contingency Plan
	inspected on a weekly basis, the proponent is	and the Emergency Response Plan have been updated for care
	requested to provide specific information on how	and maintenance and submitted to
	the storage area has been constructed to prevent	NWB: ftp://nunavutwaterboard.org/1%20PRUC/2%20MINING%2
	the release of hazardous materials to the	OMILLING/2A/2AM%20-%20Mining/2AM-
	environment. Provide details on methods of spill	DOH0713%20HBML/1%20APPLICATION/2012%20Amend%20Ren
	containment, underlying materials, surface grading,	<u>ew/</u>
	capacity of containment sumps, as well as specific	
	details on the types of spill kits/emergency response	
	equipment that are available onsite. The Spill	
	Contingency Plan and Emergency Response Plan will	
	need to be updated to reflect the change to care	
	and maintenance.	
Issue HWM3:	Observation: During Care and Maintenance the site will	N/A
Confirm	be left for considerable lengths of time. Due to the	
methods utilized	changes in on-site personnel, these facilities will not be	
to secure	maintained and operated in the same manner as they	
Hazardous	were originally designed.	
Waste Storage	Information Request:	The site has been closed keeping in mind the potential for
Area and Fuel	1. During Care and Maintenance, the site will not be	tampering and vandalism. All hazardous waste has been removed
Storage	inspected on weekly basis and it is understood that	from site. As per the fire code, all berms have been engineered to
Compounds.	the Site will be abandoned for considerable length	hold 110% of the volume of the largest tank in each berm. As an
	of time. Provide information on the methods that	extra precaution, HBML has distributed the fuel throughout the
	have been utilized to help secure the site from	tanks at site such that if any leaks were to occur, from one or
	vandalism and tampering.	multiple tanks in any given berm, the leaked fuel would remain
		within the containment berm, as shown in the attached fuel
		volume spreadsheet. Furthermore, winter site inspections will be
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	conducted on a monthly basis once Coronation Gulf has frozen over making the site accessible to snow mobile travel from the communities. The first inspection is scheduled for the third week of December, with subsequent inspections every month thereafter until April. These inspections will look for vandalism and tampering of the site, as per the attached inspection checklist, and address any issues that arise.
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