

Karén Kharatyan Director of Technical Services Nunavut Water Board March 8, 2022

Re: Application for Amendment to Water Licence No. 2AM-MRY1325 associated with the "Phase 2 Development" Project Proposal submitted by Baffinland Iron Mines Corporation

Dear Karén,

Please find enclosed a copy of Baffinland Iron Mines Corporation's (Baffinland) updated responses to technical comments received in relation to the Application to Amend Type A Water License 2AM-MRY1325, August 2018, updated September 2021 (the Application) for Phase 2 of the Mary River Project, as well as a request from Baffinland to set a date for the second Technical Meeting and Pre-Hearing Conference.

1. Updated Technical Comment Resolution Status

An updated summary table of the resolution status of technical comments is enclosed as Attachment 2. This updated table represents Baffinland's continued work with parties to advance resolution on outstanding issues. We are pleased to report progress and/or resolution on the following items identified as outstanding at the end of the November technical meeting:

Status	#
Ongoing	5
Partially Resolved	1
Path Forward Identified	47
Resolved	128
Resolved with Commitment	38
Unresolved	21
Total	240

At this time, 219 of the total 240 technical comments identified as of November 2021 have been fully or partially resolved with a path to resolution. This is significant progress. We are continuing to work collaboratively with all parties to fully resolve outstanding issues, which will be reported to the NWB as they are achieved, and we thank the parties for their on-going efforts. For the information of the Board, Baffinland has also included an updated Deliverable Schedule as Attachment 1. Baffinland holds that it is now appropriate to consider scheduling a Pre-Hearing Conference.

2. Request for NWB to Schedule a Second Technical Meeting and Pre-Hearing Conference in May 2022

In January 2022, the Nunavut Impact Review Board (NIRB) announced that they were closing the Phase 2 record and that their recommendation to the Minister of Northern Affairs on the Phase 2

Development Proposal will be released on or before May 13, 2022. In light of the modified timeline for the NIRB's Recommendation Report, Baffinland suggests it is reasonable for the NWB to schedule a Pre-Hearing Conference within 45 days of the release of the Report. Baffinland also suggests an additional

day be added in the event a second Technical Meeting is required.

Regardless of the nature of the NIRB's recommendation, it is Baffinland's view that the outstanding NWB meetings should proceed as scheduled. Maintaining these timelines in the coordinated NIRB NWB

process is consistent with the Nunavut Waters and Surface Rights Tribunal Act:

37 (1) In order to avoid unnecessary duplication and to ensure that projects are dealt with in a timely manner, the Board shall cooperate and coordinate its consideration of applications with the Nunavut Impact Review Board or any federal environmental assessment panel or joint panel established under subsection 115(1) of paragraph 160(1)(a) or (b) of the Nunavut Planning and Project Assessment Act in relation to the screening of projects by that Board and the review of

projects by that Board or panel.

For the clarity of the NWB and all parties, we have enclosed in Attachment 1 a proposed schedule for the remainder of the regulatory steps required for the NWB's consideration of the Phase 2 Amendment application.

For any questions or clarifications please do not hesitate to contact the undersigned for further information.

Best Regards,

Lou Kamermans

Senior Director - Sustainable Development

Baffinland Iron Mines

Attachment 1 – Phase 2 Proposal Water Licensing – Proposed Schedule

Attachment 2 – Technical Comment Disposition Table – Status as of March 8, 2022

cc: Karen Costello, Cory Barker, Tara Arko (NIRB)
Karén Kharatyan, Assol Kubeisinova (NWB)
Jared Ottenhof, Chris Spencer (Qikiqtani Inuit Association)
Bridget Campbell, Lauren Perrin (CIRNAC)
Alasdair Beattie, Daniel Coombs (DFO)
Abigayle Blackmore, Melissa Pinto (ECCC)
Megan Lord-Hoyle, Steve Borcsok (BIM)



ATTACHMENT 1

Phase 2 Proposal Water Licensing – Proposed Schedule

TABLE 1

BAFFINLAND IRON MINES CORPORATION MARY RIVER PROJECT

PHASE 2 PROPOSAL WATER LICENSING PROPOSED SCHEDULE

Task RB Review Process Closing of the public record NIRB issues its Final Hearing Report and NIRB Recommendation Minister's Decision	Start	End	Duration (days)		Jan		Feb	ı	Mar	Ap	r		May		une	Ju	lv	Au	a		Sept		Oct		Nov	
Closing of the public record NIRB issues its Final Hearing Report and NIRB Recommendation Minister's Decision																										De
Closing of the public record NIRB issues its Final Hearing Report and NIRB Recommendation Minister's Decision				3 10	17 24	31 7	7 14 21 28	7 14	21 28	4 11	18 25	2 9	16 23 3	0 6 13	3 20 27	4 11	18 25	8 15	22 29	5 1	2 19 26	3 10	17 24	31 7	14 21	28 5 12
NIRB issues its Final Hearing Report and NIRB Recommendation Minister's Decision																										
Minister's Decision	4-Jan-22	28-Jan-22	24															\vdash								+
	28-Jan-22 14-May-22	13-May-22 12-Aug-22	105 90			H																++			+	+
NIRB issues the Amended Project Certificate	13-Aug-22	11-Sep-22	30								-															+
With bodes are full monded in open continued	10 / kg 22	11 00p ZZ	- 00																			+++				+
ater Licence Amendment Process																										
NWB holds 2nd technical meeting and pre-hearing conference	20-Jun-22	20-Jun-22	1																							
WWB pre-hearing conference report	11-Jul-22	11-Jul-22	1																							
NWB issues 60-day notice of public hearing	18-Jul-22	16-Sep-22	60																							
NWB holds public hearing	4-Oct-22	6-Oct-22	3															П								
NWB issues the amended water licence	7-Oct-22	7-Nov-22	30																							
Minister approves the amended water licence	8-Nov-22	8-Dec-22	30																							
approved the americal mater modified	0 1101 22	0 200 22																								
2 Interim Closure and Reclamation Plan	1																\dashv									
Baffinland prepares 1st revision of the ICRP	4-Jan-22	25-Mar-22	80														\dashv									+++
DIA/CIRNAC review 1st draft revision of the ICRP	26-Mar-22	10-May-22	45														\dashv									+++
Workshop to discuss draft revisions to the ICRP	10-May-22	12-May-22	2	ff	+	++								+	+ + +		\dashv			\vdash						+++
Baffinland prepares 2nd revision of the ICRP	13-May-22	27-May-22	14	ff	+	++					$\dashv \dashv$			+	+ + +		\dashv			\vdash						+++
QIA/CIRNAC reviews 2nd draft revision of the ICRP	28-May-22	27-May-22 27-Jun-22	30	\vdash	++	++					+					+	+			\vdash		++	\vdash	+	+	+++
Baffinland revises and submits 3rd Ph2 draft ICRP to the NWB	28-Jun-22	19-Jul-22	21	\vdash	++	++					+									\vdash		++	\vdash	+	+	+++
Sammana 1041000 and Submito old 1 Hz Walt HOTE TO the NAAD	20-3011-22	10-0UI-ZZ		\vdash	++	++					+			+						\vdash		++	\vdash	++	\dashv	+++
2 Reclamation Security Estimate	1			\vdash	++	++					+			+	+	+	+			\vdash		++	\vdash	++	\dashv	+++
Baffinland prepares 1st Ph2 reclamation security estimate	3-Feb-22	8-Apr-22	64	++	++						+	$\dashv \dashv$	++	++	+ + +	\dashv	+	+++	+	\vdash	++	++	\vdash	+	+	+++
Baffinland prepares 1st PHZ reclamation security estimate Caffinland presents overview of changes to the QIA/CIRNAC	9-Apr-22	16-Apr-22	7											+								++				+
QIA/CIRNAC reviews 1st draft update to reclamation security estimate	9-Apr-22	24-May-22	45														-					++-				+
Workshop on 1st update to reclamation security estimate	25-May-22	30-May-22	5			+								+								++				+
· · · · · · · · · · · · · · · · · · ·	31-May-22	21-Jun-22	21	\vdash		++																++			-	+
Baffinland prepares 2nd Ph2 draft security estimate QIA/CIRNAC reviews 2nd Ph2 draft security estimate	22-Jun-22	13-Jul-22	21			+																++				+
	-		21			+								+								++				+
Baffinland revises and submits 3rd draft security estimate to the NWB	14-Jul-22	4-Aug-22	21												1 1 1											
uatic Effects Monitoring Plan (Phase 2 version but for current ops)																										+
Baffinland incorp technical comments into 1st revision of the AEMP	4-Jan-22	9-Feb-22	36																							+
Agency review of 1st AEMP revision ahead of workshop	10-Feb-22	14-Feb-22	4																							+
AEMP workshop	15-Feb-22	15-Feb-22	1														-					++-				+
Baffinland revise and submit AEMP with NWB/QIA annual report	16-Feb-22	31-Mar-22	43														-					++-				+
Marita of the data of the same	10 1 02 22	OT Mai 22																								+
1 Waste Rock Management Plan																										
Baffinland revise and submit Ph1 WRMP	8-Apr-22	8-Apr-22	1																							
ater Compensation Agreement																\perp										
QIA reviews Baffinland's previously submitted draft agreement	16-May-22	30-May-22	14																	Щ						
NCA drafting workshop	13-Jun-22	14-Jun-22	1							$oxed{oxed}$	ot									Щ						
QIA review period	15-Jun-22	15-Jul-22	30															\Box								
Baffinland review period	16-Jul-22	15-Aug-22	30																							
NCA workshop to confirm final wording	16-Aug-22	21-Aug-22	5			Ш																				
Draft WCA to company presidents for final concurrence	22-Aug-22	21-Sep-22	30	\Box														Ш								
Signed WCA ahead of NWB public hearing (as per ICA)	22-Sep-22	2-Oct-22	10	$\Box\Box$																						
aft Amended Water Licence				$\Box\Box$																						
Baffinland prepares 1st draft of the amended Water Licence	1-May-22	1-May-22	0	\Box																						
QIA reviews 1st draft of the amended Water Licence	13-May-22	27-Jun-22	45	$\Box \Box$																						
Baffinland-QIA workshop to review proposed amendments	11-Jul-22	16-Jul-22	5																							
Baffinland revises and submits amended Water Licence to the NWB	17-Jul-22	16-Aug-22	30																							



ATTACHMENT 2

Technical Comment Disposition Table – Status as of March 8, 2022

ATTACHMENT 2

TECHNICAL COMMENT DISPOSITION TABLE - STATUS AS OF MARCH 8, 2022

Item Agend	y Technical Comment	Document Reference	Subject Area	a Intervenor July 2019 Recommendation/Request	Baffinland's Aug 2019 Response	Intervenor's October 2021	Intervenor's October 25, 2021 Updated Recommendation /Request	Baffinland's November 4, 2021 Response	Intervenor Nov 12, 2021 Presentations	Baffinland Response to Nov 12, 2021 Presentations	ID#2	Status of Resolution (Dec 16, 2021)	Intervenor Comment (Dec 16, 2021)	Commitments
1 CIRNAC		Mary River Phase 2 Proposal Update (Knight Piésold, May 2, 20.19); Section 4.3 and Attachment 29 Interim Waste Rock Management Plan (Golder 2019); Section 2	Ph1 WRMP	Phase 1 Waste Rock Management Plan that BIMC committed to developing by the end of December 2019 be provided to CIRNAC for review. 2) CIRNAC recommends that the Phase 1 Waste Rock Management Plan be finalized and approved prior to initiating the increased ore production rate associated with Phase 2. 3) In addition, CIRNAC requests that BIMC continue to provide CIRNAC frequent updates on other research plans and activities that directly or indirectly relate to predictions of waste rock geochemistry, seepage and water quality as they become available.	Baffinland maintains that this is an operational document, and that approval of this plan is independent of the Phase 2 process and will be required regardless of the permitting timeline for Phase 2. Updates on the investigation and strategy to address the Waste Rock Facility have been regularly provided to all stakeholders, and Baffinland will continue to engage all interested parties to provide updates.	R-02 Ongoing R-03 Ongoing		Response to R-02 While Baffinland maintains that the Ph1 WRMP is independent of the Phase 2 Proposal, we agree to have this plan reviewed and approved before initiating the increased ore production rate associated with Phase 2. Note the Rev B version of this plan included with the Updated Water Licence Application is consistent in content with the Rev 3 but with additional adaptive management including a trigger action response plan. Response to R-03 Yes, Baffinland has been and will continue to provide updates to CIRNAC on research plans and activities that directly or indirectly relate to predictions of waste rock geochemistry, seepage and water, nuality.	Resolved by Commitment: (R-02) Finalize and approve Phase 1 Waste Rock Management Plan prior to initiating Phase 2. Resolved: (R-03) Provide updates on other research plans and activities related to waste rock.		CIRNAC TR#1	Resolved		
2 CIRNAC	CIRNAC TR#2	Mary River Phase 2 Proposal Update (Knight Piésold, May 2, 2019); Section 4.3 and Attachment 29 - Interim Closure and Reclamation Plan (BIMC 2018e); Sections 5.2.1.1 to 5.2.1.9 and Appendix D1 and D2 Research Plans CIRNAC Information Requests to BIMC for the Phase 2 Amendment of the Mary River Project under Type "A" Water Licence No. 2Am-MRY1325 Amendment No. 1 (IR #3; CIRNAC. November 23, 2018)		4) CIRNAC recommends that prior to commencing work on the advancement of the open pit, BIMC demonstrate a thorough understanding of the future pit conditions including methods and timelines for pit flooding, geochemistry and ARD/ML potential of waste rock and pit walls based on information/data obtained through the numerous research commitments stated in the ICRP. Periodic updates to the ICRP will need to be completed to include the results of research programs and their implications with respect to pit development and closure planning.	development of the pit was projected to occur after 10 years of full scale production for the Approved Project. Baffinland has committed to reclamation research through the most recent revision of the ICRP so that prior models on pit flooding, geochemistry and ARD/ML potential presented in the FEIS can be validated with	Commitment		Baffinland will continue operational monitoring and advance studies to refine closure predictions related to future pit conditions. The requirement to further refine modelling for pit flooding and water chemistry is built into the ICRP, which states in Section 5.2.1.4 that "The mining plan and the ongoing waste rock characterization plan will inform the prediction modeling of the mine pit water quality at the end of mine life." A specific condition is not required in the Water Licence for this work, given the ICRP forms part of the Licence.	research prior to flooding, and update ICRP with new information. * Baffinland plans to conduct research to validate models for pit flooding, and to incorporate findings into closure plans. * CIRNAC is astified with this response and recommends Baffinland's commitments be		CIRNAC TR#2	Resolved		Baffinland commits to: Demonstrate future pit conditions through research prior to flooding, and update ICRP with new information. Baffinland plans to conduct research to validate models for pit flooding, and to incorporate findings into closure plans.
3 CIRNAC	CIRNAC TR#3	Mary River Phase 2 Proposal Update (Knight Piésold, May 2, 2019); Attachment 29 - Interim Closure and Reclamation Plan (BIMC 2018e)	ICRP	appropriately address the issue of information gaps by including missing information, or	Baffinland appreciates the review and feedback provided by CIRNAC on the ICRP, and will incorporate these comments into the updated draft of the ICRP to be provided in advance of the Technical Meeting.	Ongoing		Baffinland commits to incorporating CIRNAC's comments in the updated ICRP and reclamation security estimate, aiming for prior to the NWB public hearing. The timing is contingent on advancing work on the ICRP with the	Resolved by Commitment: (R-05) Update the ICRP to include missing information, or correcting contradictory or outdated information.		CIRNAC TR#3	Resolved		BIM commits to incorporating CIRNAC's comments in the updated ICRP and reclamation security estimate, aiming for prior to the NWB public hearing. The timing is contingent on advancing work on the ICRP with the Qikiqtani
4 CIRNAC	CIRNAC TR#4	Mary River Phase 2 Proposal Update (Knight Piésold 2019, May 2, 2019)	Blasting Mgnt Plan	6) CIRNAC requests that the Blasting Managemen Plan and the Quarry Management Plan QMR2 are submitted for review in advance of the Technical Review meeting.	updated if the quarry limits require expansion.	Resolved			Resolved: (R-06) Submit the Blasting Management Plan and the Quarry Management Plan QMR2 for review in advance of the Technical Meeting. These plans have been submitted, as requested.		CIRNAC TR#4	Resolved		
5 CIRNAC		Mary River Phase 2 Proposal Update (Knight Piésold 2019, May 2, 2019) Railway Emergency Response Plan (Baffinland, May 13, 2019) Railway Operation and Maintenance Management Plan (Baffinland, May 13, 2019); Section 9.2 Attachment 28 - Environmental Protection Plan (Baffinland, May 1, 2019); Section 2.26	,	7) CIRNAC recommends that the Railway Emergency Response Plan be further updated to include the following information: a. Procedures identifying the medical services tha should be contacted in the event of injuries, the first aid responses that should be executed at the site of the accident, and the modes of transportation that should be used for injured persons depending upon the location of the accident and ambient conditions; b. Company personnel and government departments that require advisories of an accident/incident; c. Type and location of emergency equipment and the procedures to be followed in the event of a derailment, including check lists and accident reports; and d. Information on health and safety emergencies.	3	Resolved			Resolved: (R-07) The Railway Emergency Response Plan be further updated. This plan has been updated to include the information CIRNAC requested.		CIRNAC TR#S	Resolved		
6 CIRNAC	CIRNAC TR#6	Modification Request No. 12 – Milne Port Stockpile #1 and Water Management Expansion (Baffinland, May 3, 2019); Attachments 3, 4 and 5 Modification No.12 Attachment 5 – Civil Design Philosophy (Hatch 2018); Section 6.6	Design criteria	8) CIRNAC recommends that BIMC revise its design storm criteria from the 1:10yr 24 hour to a minimum of 1:25 year storm for the design of the new sedimentation ponds at the Milne Port associated with the expansion of the stockpile facilities. 9) CIRNAC recommends that BIMC revise its Civil Design Philosophy design storm criteria from the 1:10yr 24 hour to a minimum of 1:25 year storm for the design of any future permanent Life of Mine sedimentation ponds.			of facilities is needed for the effective management of site water erosion and sedimentation to ensure potential impacts are minimized during all times of the year over the life of the project. CIRNAC reiterates recommendation numbers R-08 and R-09 that BIMC revise its storm design criteria for sedimentation ponds, and suggests that BIMC also assess the feasibility of expanding existing sedimentation ponds to meet the MSWMP design criteria. CIRNAC supports the initiative traddress the past and ongoing erosion issues at the Mine Site and would appreciate additional	Modification Request No. 13 criteria. The design criteria for the WRF pond will remain unchanged for now, as the current design criteria (1 in 10- year, 15-4ay storm; 310 mm) reflect both the expected lifespan of that facility as well as the holding time required for water treatment. o As part of ongoing water management planning a Milne Port, Baffinland is currently evaluating the	facilities. Resolved by commitment: (R-09) Revise the Civil Design Philosophy design storm criteria for the design of any future permanent Life of Mine sedimentation ponds.		CIRNAC TR#6	Resolved with commitment		R-08 - BIM is reviewing its design storm criteria for new sedimentation ponds at Milne Port associated with the expansion of the stockpile facilities. R-09 - BIM has adopted revised design criteria for life-of-mine sedimentation ponds at the Mine Site as per Modification Request No. 13.

Item Agency Technical		Subject Area Intervenor July 2019 Recommendation/Request	Baffinland's Aug 2019 Response	Intervenor's October 2021	Intervenor's October 25, 2021 Updated Recommendation /Request	Baffinland's November 4, 2021 Response	Intervenor Nov 12, 2021 Presentations	Baffinland Response to Nov 12, 2021 Presentations	ID#2	Status of Resolution (Dec 16, 2021)	Intervenor Comment (Dec 16, 2021)	Commitments
7 CIRNAC CIRNAC TR#	Mary River Phase 2 Proposal Update (Knight Piésold 2019, May 2, 2019) Railway Operation and Maintenance Management Plan (Baffinland, May 13, 2019); Section 3.3	SWAEMP 10) CIRNAC requests that dust monitoring data and any other relevant information, if available, are provided to assess potential environmental impacts to surface water/snow from dust generation along the northern transportation corridor from the railway and truck traffic.	from rail cars is provided in an email to the	Status Update Ongoing	off on the freshwater receiving environment throughout the lifetime of the project, to provide updates as they become available, and implement approved mitigations if significant effects are observed. CIRNAC would consider	dust, compared to the transportation corridor, as acknowledged by CIRNAC. For this reason, the Aquatic Effects Monitoring Program at the mine	transportation corridor from the railway and truck traffic. CIRNAC recommends that Baffinland implement approved mitigations if significant effects are observed.		CIRNAC TR#7	Resolved		
8 CIRNAC CIRNAC TR#	18 Mary River Phase 2 Proposal Update (Knight Piésold, May 2, 2019); AttaChment 29 - Interim Closure and Reclamation Plan (BIMC 2018e)	to appropriately address the concerns raised in TR#8 surrounding insufficient financial security	by incorporate these comments into the updated draft of the ICRP to be provided in advance of the as Technical Meeting. Baffinland does not believe an adjustment to ck security is required for the open pit, as the deposit remains a hillitop outcrop and not an open pit. As security for the project is currently revised	R-12 Ongoing		R-11: Future iterations of the ICRP will evaluate the need for increased Closure and Post Closure Monitoring. Baffinland maintains that the duration of closure activities (3 years) is adequate given the total person-hours required to execute the closure and assumed crew sizes, and that the post closure monitoring phase is sufficient given that there are no significant adverse residual effects identified in the FEIS for VECs or VSECs associated with the Project. R-12: Baffinland maintains that no adjustment to security is required for the open pit, as the deposit remains a hilltop outcrop and not an oper pit. There is no need to assess and hold security for a scenario that has not yet occurred and will not for a number of years.	Interim Care and Maintenance and Post Closure Monitoring time. • Resolved: (R-12) Include a cost for open pit water treatment in the security until such time that treatment is shown to not be needed. • CIRNAC does not expect that the Route 3 realignment of the North Railway will effectively change the amount of security estimated for this mine development.		CIRNAC TR#8	Ongoing		
9 CIRNAC CIRNAC TR#	19 Nunavut Water Board Water Licence No. 2AM-MRY1335 – Amendment No. 1, Baffinland Iron Mines Corporation, Mary River Iron Mine, Signed by Thomas Kabloona on July 21, 2015.	Licence 2AM-MRY1325 – Amendment No. 1 to change the procedure for the Annual Security Review to one of the following options: a. A phased approach with security applied in tranches, as is used on other mining projects; b. Decreasing the frequency of the security revi	setting and updating security for the project and is open to considering changes, subject to further review and discussion with all parties. Baffinland recognizes that QIA as the landowner will ultimately need to approve any changes to	Ongoing		project and is open to considering changes, subject to further review and discussion with all parties. Baffinland is open to discussing options	 Resolved by Commitment: (R-13) CIRNAC encourages parties to use this licence amendment opportunity to review the procedure for the Annual Security Review. Alternative options include: A phased approach with security applied in tranches, as is used on other mining projects; Decreasing the frequency of the security review to occur every 3-5 years rather than every year; or Other suggestions made by interested parties. 		CIRNAC TR#9	Resolved with commitment		BIM will discuss alternatives to the current Annual Security Review (ASR) process with CIRNAC and the QIA
10 CIRNAC CIRNAC TR#10	Implementation, Section 5.0, Monitoring; WL 2AM-MRY1325 - Amendment No. 1, Part D Item 9	borrow source/quarry-by-quarry evaluation. Furthermore, CIRNAC recommends details also provided on how borrow area development will be done on a case-by-case basis to minimize the potential long-term damage to the permafrost regime.	be			from rock quarries and not borrow pits. Nonetheless, overburden (some of which may be ice-rich) will be encountered during quarry development. Geotechnical investigations to date provides som delineation of ice-rich and ice-poor areas as a starting point for understanding which quarries pose a potential concern from a permafrost pose a potential concern from a permafrost perspective. Baffinland plans to complete exploratory drilling to verify material characteristics and overburden thicknesses that require stripping, and to identify the presence of ice or thaw-sensitive soils that can either be avoided or planned for in quarry design. Identified permafrost issues will be managed by applying measures identified in each quarry-specific management plan. Generic measures for dealing with permafrost during borrow pit development are described in Appendix D of the Borrow Pit and Quarry Management Plan. Designs established for excavations and cuts in ice rich and ice-poor soils along the railway will be applied to excavations in overburden encountered in the rock quarries. Slopes will be monitored against any destabilizing of the cut surfaces. If necessary, cover materials will be placed or cut slopes altered to reduce potential thawing.	permafrost will be minimized.		CIRNAC TR#10	Resolved with commitment		Add additional text on permafrost protection to the Borrow Pit and Quarry Management Plan
11 CIRNAC CIRNAC TR#11	Geotechnical Studies - Geotechnical Recommendations for North Railway, Hatch, Rev. 0, Apr. 26, 2019		cal			A geotechnical field program was recently completed in summer 2021. Laboratory testing	 Resolved by Commitment: (R-15) Complete a geotechnical assessment of the new Route 3 of the Northern Railway, and integrate the findings into a management strategy to minimize the impacts of construction on permafrost. 		CIRNAC TR#11	Resolved		

Item Agenc	Comment		Subject Area	Intervenor July 2019 Recommendation/Request	Baffinland's Aug 2019 Response	Intervenor's October 2021	Intervenor's October 25, 2021 Updated Recommendation /Request	Baffinland's November 4, 2021 Response	Intervenor Nov 12, 2021 Presentations	Baffinland Response to Nov 12, 2021 Presentations	ID#2	Status of Resolution (Dec 16, 2021)	Intervenor Comment (Dec 16, 2021)	Commitments
12 CIRNAC	CIRNAC TR#12	AEMP; BMP; FWSSWMP	Waste Mgnt Plan and FWSSWMP	16) CIRNAC recommends that the following updates, which have not been addressed in other TRCs, be made to the Management Plans listed. a) Aquatic Effects Monitoring Plan: provide for review prior to the Technical Meeting. b) Blasting Management Plan: Update to include procedures and blasting of frozen ground and for spoils management. c) Fresh Water Supply, Sewage, and Wastewater Management Plan: Update to include the new Mine Site stations added to the SNP based on Modication No. 13, and the water withdrawal volumes to indicate the proposed volumes under the Updated Amendment Application. Note - recommendations R-16d and R-16e are minor suggestions for editorial purposes and would not impede approval of the amendment: d) Draft Emergency Response Plan and Draft Spill Contingency Plan: For consistency with other plans that have been updated, BIMC might consider reorganizing in the next update to conform with ISO 14001:2015, and to include sections on IQ consideration and adaptive management. e) Waste Management Plan: for clarity, BIMC might consider updating to remove references to the Roads Management Plan.		Status Update		AEMP - The AEMP is currently available on the public registry. Blasting Management Plan - Procedures for blasting of frozen ground will be added to the next update. Baffinland suggests that the management of spoils is best handled in the Borrow Pit and Quarry Management Plan. Fresh Water Supply, Sewage and Wastewater Management Plan - this plan will be updated incorporating changes to the SNP program and proposed water withdrawal volumes. Draft Emergency Response Plan and Draft Spill Contingency Plan - Baffinland suggests that as response plans, they do not lend themselves to adopting CIRNAC's recommended changes. Waste Management Plan - the editorial issues are noted and will be addressed in the next revision. Plan updates will be filed with sufficient review time ahead of the NWB public hearing.	Resolved: (R-16) Update the following Management Plans: - Aquatic Effects Monitoring Plan - Blasting Management Plan - Fresh Water Supply, Sewage, and Wastewater Management Plan - Suggestions for editorial purposes: - Draft Emergency Response Plan and Draft Spill Contingency Plan - Waste Management Plan		CIRNAC TR#12	Resolved with commitment		Update the SNP information in the FWSSWMP; make editorial changes to Waste Management Plan
13 CIRNAC	WRMP R-01		Ph1 WRMP				9.2 to reflect the actual site water management issues with regard to the WBF [Waste Rock Facility] and how BIMC now plans to address and manage them, as outlined below: I. clearly state that water treatment as needed will be through the use of the HDS [High Density Sludge] plant; II. provide information on the design, operation, control and monitoring of the pumping systems to the water treatment plant; III. provide a detailed discussion with specific, relevant information with respect water treatment plant; IV. expand the discussion of sludge management to provide more specific information on practices to be followed; and V. add the commitment that in the event of in-pond water treatment, BIMC will complete the evaluation and record keeping required to ensure there is no long-term impact on pond capacity, as outlined in CIRNAC comment 1 i. an estimate of volume of sediment to be produced; ii. an essessment of the need for standby pond capacity; iii. details regarding the procedures for sediment handling, transport, and disposal; and	continue to work with CIRNAC to address this ongoing concern through the collection of additional data.			WRMP R-01	Ongoing		
14 CIRNAC	WRMP R-02		Ph1 WRMP			Ongoing	iv. monitoring and sediment disposal record CIRNAC recommends that BIMC update and calibrate the water balance model for the Wastr Rock Facility, as per the recommendations provided by Golder (2019), with reliable measurements of pond water elevation, surface water flows, and site climate data. Predictions of pond water quality should also be updated using the improved surface water flows.	continue to work with CIRNAC to address this ongoing concern through the collection of			WRMP R-02	Ongoing		
15 CIRNAC	WRMP R-03		Ph1 WRMP			Ongoing	CIRNAC recommends that BIMC provide CIRNAC with an update of progress made to date and a specific timeline for when the earliest update to the water balance model could be expected.				WRMP R-03	Ongoing		
16 CIRNAC			ICRP			Commitment	calculated directly by BIMC and be included in the next updated ICRP.	sadditional data. As provided in Baffinland's Jan 10, 2021 response to CIRNAC's recommendations /requests as part of the 2021 ASR process: Baffinland agrees that opportunities for reduction in contingency may be possible in future iterations of the reclamation estimate. Due to the outcome of the 2019 Work Plan arbitration, Baffinland has carried 20% contingency in order to align with the final award. Baffinland notes that the estimate currently accounts for the uncertainty at the waster cock facility through the addition of water treatment in closure. Additionally, while uncertainty and yesist regarding predictions associated with the open pit, and open pit does not exist at the Mary River Project as mining at Deposit 1 remains a hilltop outer.			ICRP R-01	Resolved		
17 CIRNAC	ICRP R-02		ICRP			Commitment		As provided in Baffinland's Jan 10, 2021 response to CIRNAC's recommendations /requests as part of the 2021 ASR process: Baffinland agrees that future updates to the ICRP should respect any updates to the Waste Rock Management Plan. The current waste rock management plan maintains a final closure strategy of freezing waste rock in permafrost to mitigate the generation of ARD, and has revised the waste placement strategy accordingly with the objective of freezing material in place to mitigate ARD. Baffinland has integrated adaptive management into the Waste Rock Management Plan to further demonstrate a commitment to ensuring the final closure objectives are met.			ICRP R-02	Resolved with commitment		The ICRP will be updated according to the updated Phase 1 WRMP approved by the NWB

ltom	Agongu	Technical	Document Reference	Subject Area	Intervenor July 2019	Poffinland's Aug 2010 Persones	Intervenor's	Intervious Vs October 25, 2021 Undeted	Baffinland's November 4, 2021 Response Intervenor Nov 12, 2021 Presentations	Poffinland Personne to Nov. 12, 2021	ID#2	Status of Resolution	Intervenor Comment Commitments
No.	Agency	Comment	Document Reference	Subject Area	Recommendation/Request	Baffinland's Aug 2019 Response	October 2021		Barninanu S November 4, 2021 Response Intervenor Nov 12, 2021 Presentations	Presentations	10#2	(Dec 16, 2021)	(Dec 16, 2021)
18	CIRNAC	ID# ICRP R-03		ICRP			Status Update Ongoing	Increase interim care and maintenance to 5 years, and post-closure cost to 25 years.	As provided in Baffinland's Jan 10, 2021 response to CIRNAC's recommendations /requests as part		ICRP R-03	Ongoing	
									of the 2021 ASR process: Future iterations of the ICRP will evaluate the				
									need for increased Closure and Post Closure				
									Monitoring. Baffinland maintains that the duration of closure activities (3 years) is adequate				
									given the total person-hours required to execute the closure and assumed crew sizes, and that the				
									post closure monitoring phase is sufficient given				
									that there are no significant adverse residual effects identified in the FEIS for VECs or VSECs				
10	CIRNAC	ICRP R-04		ICRP			Commitment	Update a WRF cover layer in the ICRP and	associated with the Project. As provided in Baffinland's Jan 10, 2021 response Commitment		ICRP R-04	Resolved	
15	CINIVAC	ICKF K*04		ICKF			Communent	include Prevention of Fugitive dust in the cost	to CIRNAC's recommendations /requests as part		ICKF K*04	nesuiveu	
								estimate.	of the 2021 ASR process: Dust impacts were considered in the FEIS for the				
									life of mine, including closure, and no significant				
									adverse residual effects were identified for dust. It is noted that the primary sources of dust (ore				
									crushing, ore stockpiling, and ore transport) will no longer be in operation at closure, and				
									therefore negligible contribution to air quality. Air				
									quality monitoring is included as a Post Closure Monitoring activity in the ICRP and is included in				
									the reclamation security estimate. Baffinland will gain better understanding of revegetation success				
									relative to cover material through future				
									reclamation research studies.				
20	CIRNAC	ICRP R-05		ICRP			Commitment	Update Long term criteria for permafrost conditions in the ICRP and include in the cost	As provided in Baffinland's Jan 10, 2021 response to CIRNAC's recommendations /requests as part		ICRP R-05	Resolved	
								estimate.	of the 2021 ASR process:				
									The ICRP is an iterative document that will evolve throughout the life of mine, based on reclamation				
									research studies, results of on-going monitoring, development of new/novel mitigation measures				
									and feedback from Inuit and intervenors. No				
									additional adjustments to reclamation security are required at this time based on the currently				
									understanding of the project effects and desired reclamation objectives.				
21	CIRNAC	ICRP R-06		ICRP			Commitment		As provided in Baffinland's Jan 10, 2021 response Commitment		ICRP R-06	Resolved	
								the end of mine operations. The currently approved ICRP is dated 2018, and should be	to CIRNAC's recommendations /requests as part of the 2021 ASR process:				
								updated with additional equipment needed for	Costs for monitoring, including any required instrumentation, are included in the Closure &				
								geotechnicar/ thermal engineering monitoring.	Post Closure Monitoring costs. Details of the				
									monitoring programs included in this allocation are outlined in Section 9 of the ICRP (Rev. 5, Oct				
									2018). Geotechnical engineering monitoring is				
									outlined in Section 9.4 of the ICRP, which includes stability, erosion and permafrost analyses and				
22	DEO	DFO 3.1.1	Various	FAA Application	Recommendation 3.1.1: DFO-FFHPP recommends	As follow-up to the June 2019 NIRB technical	Resolved	n/a	monitoring. Update: A final deliverable documenting the Resolved		DFO 3.1.1	Resolved	
					Baffinland provide rationale for the selection of	meetings, Baffinland issued a July 2, 2019 memo		,,,	crossing design selection process will be included				
					crossing infrastructure for fish bearing watercourses. DFO-FFHPP notes this can be	by Knight Piésold (Additional Information on Fish Habitat Interactions), provided as Attachment 03			in the Application for Fisheries Act Authorization				
					provided to DFO as part of the Proponent's 'DFO Request for Review' submission and/or	to this response. This memo is not listed in the referenced DFO documents. The							
					Application for Fisheries Act authorization, during	document provides supplemental fisheries							
					DFO's regulatory phase.	information, including a discussion regarding the basis of selecting crossing types in Section 5.							
23	DFO	DFO 3.1.2	Various		Recommendation 3.1.2: DFO-FFHPP reiterates the		Resolved	n/a	Update: Fish-bearing status is shown on the Resolved		DFO 3.1.2	Resolved	
					scope and visual of catchment areas associated				detailed railway figures presented as Attachment 10. These figures have been updated to reflect to				
					with fish-bearing water crossings.	Information on Fish Habitat Interactions).			change to Route 3.				
24	DFO	DFO 3.1.3	Various			An updated version of the detailed railway figures that appeared as Attachment 10 of the May 2019		n/a	Update: Relevant updates have been made to the detailed railway figures included as Attachment		DFO 3.1.3	Resolved	
					the road and label all crossings, which includes	water licence amendment application appear as			10, including Route 3.				
					Road crossings (as currently provided) and the								
					locations for crossings that are expected to remain as they are.	Information on Fish Habitat Interactions). This updated version shows the entirety of the Tote							
						Road including water crossing labels and							
						proposed changes.							
25	DFO	DFO 3.2.1	Various	FAA Application		Updated hydrological modelling is presented in a June 18, 2019 memo by Knight Piésold provided		n/a	Update: A final fish passage risk assessment will be provided with the FAA Application		DFO 3.2.1	Resolved	
					updated hydrological modelling.	as Attachment 04 (Fish Passage Risk Assessment	510.		Se provided with the Lon Application!				
						of Water Crossings and Stream Diversions). Baffinland is undertaking an engineering review of							
						crossings assessed by KP to be high risk of being a							
						barrier to fish passage, and the outline of a fish passage monitoring program is provided as							
						Attachment 05 (Proposed North Railway Aquatic Monitoring Programs).							
26	DFO	DFO 3.2.2	Various		Recommendation 3.2.2: DFO-FFHPP recommends	Section 7.1.2.5 of the Rail Design Criteria	Not provided by	n/a	Update: A final fish passage risk assessment will Resolved		DFO 3.2.2	Resolved	
					that Baffinland provide the flow volumes referenced as section 7.1.5.3 on page 23, in	document (Attachment 7.2 of the Updated Water Licence Amendment Application) includes an	DFO.		be provided with the FAA Application				
					section 7.2.1.5 of attachment 7.2 of the updated	incorrect reference: "The flow volumes calculated							
						in 7.1.5.3 will be used to determine the ultimate sizing of the culvert structure in terms of number							
						and size of barrels." DFO is correct that there is no Section 7.1.5.3, and flows are not presented							
						elsewhere in the same document. Catchment							
						areas and mean monthly flows for July and August are presented for fish-bearing crossings in the							
						updated fish passage assessment presented as Attachment 04 (Fish Passage Risk Assessment of							
						Water Crossings and Stream Diversions).							
	1	1				I	1	1		1		ı	

Item /	Agency	Technical Comment	Document Reference	Subject Area	Intervenor July 2019 Recommendation/Request	Baffinland's Aug 2019 Response	Intervenor's October 2021	Intervenor's October 25, 2021 Updated Recommendation /Request	Baffinland's November 4, 2021 Response	Intervenor Nov 12, 2021 Presentations	Baffinland Response to Nov 12, 2021 Presentations	ID#2	Status of Resolution (Dec 16, 2021)	Intervenor Comment (Dec 16, 2021)	Commitments
27 DF	0	ID# DFO 3.2.3	Various	FAA Application	Recommendation 3.2.3: DFO-FFHPP recommends Baffinland clarify which flood return period is intended for use for the hydrologic analysis.	The design return period is the 1:200-year flood, and the reference to the 1:100-year flood in Section 7.2.3 is incorrect.	Status Update Not provided by DFO.	n/a	No update required.	Resolved		DFO 3.2.3	Resolved		
28 Df	:0	DFO 3.2.4	Various	FAA Application	Recommendation 3.2.4: DFO-FFHPP recommends Baffinland provide further information in regard to the potential cumulative impacts of all crossings on flow and fish passage (short-term and permanent; Tote Road, North Rail and Temporary Access Roads), including clear identification of crossings that occur on the same waterbody.	assumed in Attachment 13.1 of the Application that rail crossings that are located <20 m from ar existing Tote Road culvert are locations where two culverts in proximity could be a potential barrier to fish passage. Within Attachment 04 of	Outstanding issues	n/a	Update: A final fish passage risk assessment will be provided with the FAA Application.	DFO recommends Baffinland provide further information in regard to the potential cumulative impacts of all crossings on flow and fish passage (short-term and permanent; Tote Road, North Rai and Temporary Access Roads), including clear identification of crossings that occur on the same waterbody.			Unresolved	See proposed commitment below for DFO 3.2.4.2.	FAA Application commitment to DFO
29 DF		DFO 3.2.4.1								DFO recommends Baffinland submit an application to DFO for any new crossings or modifications to existing crossings for the Tote Road to ensure there are no residual impacts to fish and fish habitat	BIM proposed to include new and modified tote road crossings due to the North Railway in the same FAA application for the North Railway.		Resolved		FAA Application commitment to DFO
30 DF	·O	DFO 3.2.4.2		SWAEMP						DFO recommends remediation of Tote Road crossings be completed prior to completion of the proposed Northern Railway.	The current tote road crossings are remediated as required as part of the current operation, subject to the existing FAA.	DFO 3.2.4.2	Unresolved	Proposed Commitment from DFO: Saffinland commits to meeting with DFO in advance of any proposed instream remediation of the Tote Road to discuss remediation strategies, and will submit Requests for Review to DFO for any additional instream works that do not follow DFO's Codes of Practice.	Baffinland commits to meeting with DFO in advance of any proposed instream remediation of the Tote Road to discuss remediation strategies, and will submit Requests for Review to DFO for any additional instream works that do not follow DFO's Codes of Practice.
31 DF		DFO 3.2.4.3								DFO recommends that culverts proposed for the Northern Railway within 20 m of Tote Road culvert crossings be modified to bridges or open- bottom structures, or that additional mitigation and contingency measures be provided to ensure cumulative impacts are avoided, mitigated, and offset, where required.	specific basis, with the intent to address cumulative impacts, where possible. BIM's final approach will be consistent with its crossing selection process document that will accompany the FAA Application.		Resolved		FAA Application commitment to DFO
32 DF	0	DFO 3.2.4.4								DFO recommends the AEMP be reviewed and ensure cumulative effects monitoring is included in the AEMP.	Fish passage monitoring including cumulative effects forms part of the Surface Water and Aquatic Ecosystems Management Plan.	DFO 3.2.4.4	Resolved		
33 DF	0	DFO 3.2.4.5								DFO recommends that Baffinland analyze monitoring reports related to the Tote Road existing watercourses crossings and provide a comprehensive report on "lessons learned" for the Tote Road that would include strategic analysis of what will be done differently to ensure the fish-passage issues will be avoided, mitigated and addressed for the Northern Railway.	BIM previously committed to presenting a lessons learned report on the tote road as part of the FAA Application (Commitment #8/ in the NIRB review).	DFO 3.2.4.5	Resolved		FAA Application commitment to DFO
34 DF	·O	DFO 3.2.5	Various			presented in Attachment 13.8. of the Application The final bridge designs included with the	DFO.	n/a	Update: The Bridge Hydraulics Report (Attachment 13.7) and Rail Bridge Drawings (Attachment 13.8) have been updated to reflect the change in the location of Bridge #3 on the Ravn River associated with Route 3.			DFO 3.2.5	Resolved		
35 DF	·O	DFO 3.2.6								DFO remains concerned about fish passage for the Northern Railway. DFO recommends Baffinland annually monitor crossings identified as high-risk for fish passage issues to proactively identify and remediate fish-	BIM will commit through the FAA process to annual monitoring of crossings that are high- risk for fish passage issues.	DFO 3.2.6	Resolved		FAA Application commitment to DFO
36 DI	co co	, , , , , , , , , , , , , , , , , , ,	FEIS addendum, Surface Water- Assessment (TSD 13); Sections 2.1.1, 2.4, 2.5 & 4.0 of Appendix C FEIS addendum, Surface Water- Assessment (TSD 13); Appendix D, Figure 1, p. D-7 DFO Technical Review Comments to the Nunavut Impact Review Board (NIRB), March 7, 2019. Technical comment 3.12.2 Baffinland Iron Mines Technical Comment Responses, March 25, 2019. DFO 3.12.2, page 43 Fresh Water Supply, Sewage, and Wastewater Management Plan, attachment 23 of the Updated Application for Amendment No. 2 of Type A Water Licence, Document #: BAF PH1-830-P16-0010. Section 4.2,		Recommendation 3.3.1: DFO-FFHPP recommends Baffinland provide a detailed water withdrawal plan, which can be provided to DFO as part of the Proponent's 'DFO Request for Review' submission and/or Application for Fisheries Act authorization during DFO's regulatory phase.	2019, Baffinland committed to providing more details on fish habitat features and potential n effects to littoral areas at proposed water	Not provided by DFO.	n/a	Update: the Detailed Water Withdrawal Plan has been provided as Attachment 16 of the updated Application.	DFO recommends Baffinland provide a detailed water withdrawal plan, which can be provided to DFO as part of the Proponents' 'oFO Request for Review' submission and/or Application for Fisheries Act authorization, during DFO's regulatory phase. DFO remains concerned about water withdrawal activities for the Phase 2 Development Proposal.	the Sept 17, 2021 Updated Water Licence	DFO 3.3.1	Unresolved	See proposed commitment below for DFO 3.3.1.1.	
37 Di		DFO 3.3.1.1	and a second fix	FWSSWMP						that may be affected during drawdown.	water withdrawal sites in the Detailed Water Withdrawal Plan (Attachment 16 of the Updated Water Licence Application).		Unresolved	Proposed commitment from DFO: Baffinland commits to establish a designated area for each fish-bearing watercourse/body where water intake hoses may be placed and water withdrawal may occur. Baffinland will submit a Request for Review and a fish habitat assessment to DFO for these designated areas, including information such as water depth and substrate.	This information was presented in the Detailed Water Withdrawal Plan (Attachment 16) requested by DFO. Baffinland will seek to discuss this subject further with DFO.
38 DF	io .	DFO 3.3.1.2								DFO recommends Baffinland follow DFO's 'Interim code of practice: End-of-pipe fish protection screens for small water intakes in freshwater' and provide details to DFO in a Request for Neview in the event this code of practice cannot be followed.	BIM has committed to following the interim code of practice. This appears in the Detailed Water Withdrawal Plan and the Fresh Water Supply, Sewage and Wastewater Management Plan (Attachment 23 of the Updated Water Licence Application).	DFO 3.3.1.2	Resolved		

Item No.	0 7	Technical Comment	Document Reference	Subject Area	Intervenor July 2019 Recommendation/Request	Baffinland's Aug 2019 Response	Intervenor's October 2021	Intervenor's October 25, 2021 Updated Recommendation /Request	Baffinland's November 4, 2021 Response	Intervenor Nov 12, 2021 Presentations	Baffinland Response to Nov 12, 2021 Presentations	ID#2	Status of Resolution (Dec 16, 2021)	Intervenor Comment (Dec 16, 2021)	Commitments
39	DFO D	ID# DFO 3.3.2	FEIS addendum, Surface Water Assessment (TSD 13); Sections 2.1.1, 2.4, 2.5 & 4.0 of Appendix C FEIS addendum, Surface Water Assessment (TSD 13); Appendix D, Figure 1, p. D-7 DFO Technical Review Comments to the Nunavut Impact Review Board (NIRB), March 7, 2019. Technical comment 3.12.2 Baffinland Iron Mines Technical Comment Responses, March 25, 2019. DFO 3.12.2, page 43 Fresh Water Supply, Sewage, and Wastewater Management Plan, attachment 23 of the Updated Application for Amendment No. 2 of Type A Water Licence, Document #: BAF-PH1-830-P16-0010. Section 4.2, pg. 18.	FWSSWMP	than 10% in proposed withdrawal lake sites, would not be significant in the context of fish bearing habitat.	PWSSWAP stated as follows, "Monthly cumulative withdrawals from lakes represent less than 10% of the monthly outflow, unless site-specific conditions indicate that a greater water withdrawal will not be significant in the context of fish bearing habitat (i.e. Camp Lake)." This is in reference to circumstances such as described in the 2014 water take assessment, (July 16, 2014 letter report by Knight Piésold, Hydrology Assessment of Water Sources for Dust Suppression along the Tote Road - Mary River Project - Early Revenue Phase; Ref. No. NB19-00376): Each of the identified lakes will meet the threshold of 10% reduction of outflow under all flow conditions including 10-year return period low flow conditions that can be experienced during the month of September. The only exception to this is Camp Lake, which meets the 10% reduction of outflow threshold under mean flow conditions but not under low flow conditions that can be experienced during the month of September. The only exception to this is Camp Lake, which meets the 10% reduction of outflow threshold under mean flow conditions, lunder the 10-year low flow condition, however, a reduction of up to 27% of lake outflows could occur (Table 4), warranting further evaluation and consideration of potential effects to fish and fish habitat.		n/a		DFO recommends Baffinland support and clarify their statement that site-specific conditions would indicate that water withdrawal in fish bearing waters in excess of the 10% guidelines would not have significant impacts to fish habitat.	d presents revised water withdrawal sites, pumping rates (streams) and volumes, based	DFO 3.3.2	Unresolved	See note below for DFO 3.3.2.1.	
40	DFO D	OFO 3.3.2.1				threshold under the 10-year low flow condition,				DFO recommends that Baffinland provide an analysis on the proposed threshold of 10% of the	the Detailed Water Withdrawal Plan	DFO 3.3.2.1	Unresolved	DFO is further reviewing Baffinland's response to determine if this	
										10-year annual low flow volume would not impac fish habitat in Camp Lake.	t (Attachment 16 of the Updated Water Licence Application).			technical comment is resolved or if it requires a commitment.	
41	DFO D	DFO 3.3.2.2								DFO additionally recommends that Baffinland follow the 'DFO Protocol for Winter Water Withdrawal From Ice-covered Waterbodies in the Northwest Territories and Nunavut' for any winter water withdrawals in fish-bearing waterbodies.	BIM has committed to following this DFO protocol for winter withdrawals from lakes. This appears in the Detailed Water Withdrawal Plan (Attachment 16) and the Fresh Water Supply, Sewage and Wastewater Management Plan (Attachment 23 of the Updated Water Licence Application).	DFO 3.3.2.2	Resolved		
42	DFO D)FO 3.3.3	FEIS addendum, Surface Water Assessment (TSD 13); Sections 2.1.1, 2.4, 2.5 & 4.0 of Appendix C FEIS addendum, Surface Water Assessment (TSD 13); Appendix D, Figure 1, p. D-7 DFO Technical Review Comments to the Nunavut Impact Review Board (NIRB), March 7, 2019. Technical comment 3.12.2 Baffinland Iron Mines Technical Comment Responses, March 25, 2019. DFO 3.12.2, page 43 Fresh Water Supply, Sewage, and Wastewater Management Plan, attachment 23 of the Updated Application for Amendment No. 2 of Type A Water Licence, Document #: BAF-PH1-830-P16-0010. Section 4.2,	PWSSWMP	Recommendation 3.3.3: DFO-FFHPP recommends Baffinland conduct a thorough localized assessments on the waterbodies selected for water withdrawal in order to adequately assess the potential impacts on the fish habitat resulting from 20% of the 10-year dry unit runoff water withdrawal on fish-bearing watercourses and connecting waterbodies. This assessment should include, but not be limited to, an assessment of the effects to litoral/shore/fraprain areas from the proposed water withdrawal, the specific withdrawal locations proposed for each waterbody including fish habitat in the area and updated rationale on how this level of withdrawal will be environmentally protective threshold. DFC FFHPP notes this information can be provided as part of the Proponent's 'DFO Request for Review' submission and/or Application for Fisheries Act authorization, during DFO's regulatory phase.		Not provided by DFO.	n/a	Update: As per Baffinland's August 2019 commitment, a Detailed Water Withdrawal Plan was included in the updated Water Licence Amendment Application (Attachment 16).	DFO recommends Baffinland conduct a thorough localized assessments on the waterbodies selected for water withdrawal in order to adequately assess the potential impacts on the fish habitat resulting from 20% of the 10-year dry unit runoff water withdrawal on fish-bearing watercourses and connecting waterbodies. [] DFO notes this information can be provided as part of the Proponent's 'DFO Request for Review' submission and/or Application for Fisheries Act authorization, during DFO's regulatory phase.	(Attachment 16) adopted a 10% threshold.	DFO 3.3.3	Unresolved	See proposed commitment below for DFO 3.3.3.3.	
43	DFO D	OFO 3.3.3.1					New			DFO recommends Baffinland provide a comprehensive list of all water-withdrawal sites for all activities in summer and winter.	This is provided in Section 3.5 of the Updated Application (main report) and in the Detailed Water Withdrawal Plan (Attachment 16).	DFO 3.3.3.1	Resolved		
44		DFO 3.3.3.2		FWSSWMP			New			DFO requests clarification on how Qualified Professionals will determine safe water withdrawal rates for fish, and when these activities will be conducted relative to biologically significant periods for fish.	The Detailed Water Withdrawal Plan (Attachment 16) applied DFO's 10% threshold and a site-specific habitat assessment was presented in Section 4.4 of that Plan.	DFO 3.3.3.2	Resolved with commitment	commitment.	Baffinland will amend its FWSSWMP to note that the interim code of practice only applies to withdrawals <150 L/s, and if water withdrawal rates will exced 150 L/s, Brifinland will seek further guidance from DFO regarding the proper sizing of fish screens.
45	DFO D	DFO 3.3.3.3		FWSSWMP			New			DFO recommends Baffinland develop a management plan to respond to potential impact from water withdrawals during low water periods, including the management of stranding fish such as occurring at Site BG32.	Water withdrawals at BG32 did not meet this		Unresolved	During identified low water periods, environmental monitors will inspect water withdrawal sites and identify modifications or prohibitions on water withdrawals as necessary to prevent fish stranding. Fish stranding will be reported to the Environment	Baffinland will amend its FWSSWMP to include the requirement for environmental monitors to inspect water withdrawal sites during low water periods to prevent fish stranding, and that operators are to report any observed fish stranding to the Environment Department, who will immediately rescue and relocate stranded fish. Incidences of fish mortalities arising from standing or fish rescue will be reported to the DFO within 24 hours.
46	DFO D	DFO 3.3.3.4					New			DFO recommends Baffinland provide a monitoring plan for daily water withdrawals to track near rea time water use, and monitor changes in flow to identify a decrease of 10% of instantaneous flow at the withdrawal site or downstream withdrawal sites.	Withdrawal Plan used flow duration curves based on 12 years of site hydrology data. Several of the water stations closer to the	DFO 3.3.3.4	Resolved		

Item	Agency	Technical	Document Reference	Subject Area		Baffinland's Aug 2019 Response	Intervenor's		Baffinland's November 4, 2021 Response	Intervenor Nov 12, 2021 Presentations	Baffinland Response to Nov 12, 2021	ID#2	Status of Resolution	Intervenor Comment	Commitments
NO.		Comment ID#			Recommendation/Request		October 2021 Status Update	Recommendation /Request			Presentations		(Dec 16, 2021)	(Dec 16, 2021)	
47	DFO	DFO 3.3.3.5					New			DFO recommends that Baffinland submit Requests for Review and fish and fish habitat information for any waterbodies and watercourses where DFO's guidelines on water	Fish and fish habitat information at water withdrawal sites are presented in Section 4.4 of the Detailed Water Withdrawal Plan.	DFO 3.3.3.5	Resolved		
48	DFO	DFO 3.3.4		FWSSWMP	Recommendation 3.3.4: DFO-FFHPP further recommends Baffinland provide additional rational/ assessment to support the assertion tha 40% of the 10-year dry unit runoff water withdrawal from non-fish-bearing streams will no negatively affect downstream fish-bearing waterbodies. DFO-FFHPP notes this information can be provided as part of the Proponent's 'DFO Request for Review' submission and/or Application for Fisheries Act authorization, during DFO's regulatory phase.	t	Outstanding issues	n/a	Update: Revised thresholds have been applied in the Detailed Water Withdrawal Plan (Attachment 16). The revised thresholds are based on DFO's published guidance.			DFO 3.3.4	Resolved		
49	DFO	DFO 3.4.1	Updated Application for Amendment No. 2 of Type A Water Licence, attachment 27: Aquatic Effects Monitoring Plan, Document #: BAF-PH1-830-P16- 0039. Section 2.4.4, pg. 37.	Blasting Mgnt Plan		Baffinland will adopt the lower threshold of 50 kPa as a precautionary measure. Applicable draft management plans for Phase 2 will be revised accordingly when next updated in advance of the NWB technical meeting.		n/a	Update: the 50 kPa threshold has been reflected in the applicable management plans, including the Surface Water and Aquatic Ecosystem Management Plan (Attachment 22), Blasting Management Plan (Attachment 27) and the Environmental Protection Plan (Attachment 29).			DFO 3.4.1	Resolved		
50	ECCC	ECCC 3.1	Baffinland Iron Mines Corporation. May 2019. Mary River Project – Phase 2 Proposal Updated Application for Amendment No. 2 of Type A Water Licence 2AM-MRY1325, Attachment 23 (Part 1): Fresh Water Supply, Sewage, and Wastewater Management Plan, Section 5.4.1 and Appendix F. Polishing Waste Stabilization Ponds (PWSP) Effluent Discharge Plan. Baffinland Iron Mines Corporation. May 2019. Mary River Project – Phase 2 Proposal Updated Application for Amendment No. 2 of Type A Water Licence 2AM-MRY1325, Attachment 18.2: Milne Port Water and Sewage Schematic	FWSSWMP	ECCC's Recommendation(s): Clarify whether there would also be a treatment system for the Polishing Waste Stabilization Pond (IPWSP) at Miline Port (similar to what is at the Mine Site), and, if so, provide details on the system. Update the PWSP Effluent Discharge Plan (Appendix F).	being discharged to Milne Inlet. As at the Mine Site PWSPs, a portion of the treatment occurs naturally, through the growth of algae through the summer season. The treatment system consists of a dissolved air floatation unit (DAF), housed inside an insulated and heated seacan, with an air injection system, sludge removal system, coagulant dosing, and flocculant dosing. There is also provision in the system for acid or caustic dosing, if required for pri adjustment. During the summer season, algae grows in the PWSP, consuming any remaining nutrients in the off-spec water, leaving behind TSs in the form of algae solids. The DAF system uses a saturated airwater mixture, injected into the influent stream, to remove solids through floatation. The influent stream is first dosed with a coagulant and flocculant, to promote the formation of large floc solids. These solids nucleate around the microscopic air bubbles formed by the saturated airwater mixture, and rise to the surface of the tank, and pumped to totes for disposal. Clarified effluent overflows from the system into a break tank, which is the pumped to Milne Inlet! if it meets the discharge criteria.	Resolved					ECCC 3.1	Resolved		
51	ECCC	ECCC 3.2	May 2019. Updated Application Attachment 22: Surface Water, Aquatic Ecosystem Management Plan, Sections 10.2.3.1 and 10.2.3.2.		ECCC recommends that the Proponent provide a detailed description of proposed construction monitoring for the Phase 2 activities.	The PWSP Effluent Discharze Plan is beine A detailed outline of construction monitoring is provided as Attachment 05 (Proposed North Railway Aquatic Monitoring Programs).	Resolved					ECCC 3.2	Resolved		
52	ECCC	ECCC 3.3	Baffinland Iron Mines Corporation. May 2019. Mary River Project. — Phase 2 Proposal Updated Application for Amendment No. 2 of Type A Water Licence 2AM-MRY1325, Attachment 23 (Part 1): Fresh Water Supply, Sewage, and Wastewater Management Plan, Section 7.1, Table 7-2, and Appendis: I Waste Pond Water Treatment Plant Operations — Appendix A. Government of Canada. June 2019. Metal and Diamond Mining Effluent Regulations		ECCC recommends that the Proponent: Update references from the MMER to MDMER. Provide clarification on the discharge criteria that will be applicable.	The need to update discharge criteria and references to the MDMER is acknowledged (Sections 7.1 and 7.2 including Table 7-2; Appendix A of Appendix J; Appendix H). These changes will be completed in the next update to the Fresh Water Supply, Sewage, and Wastewater Management Plan, to be submitted in advance of the NWB technical meetings.	Resolved					ECCC 3.3	Resolved		
53	ECCC	ECCC 3.4	Baffinland from Mines Corporation. May 2019. Mary River Project. – Phase 2 Proposal- Updated Application for Amendment No. 2 of Type A Water Licence 2AM-MRY325, Attachment 23 (Part 5): Fresh Water Stepply, Sewage, and Wastewater Management Plan.	PWSSWMP	ECCC's Recommendation(s): ECCC recommends that the Proponent clarify pdf pages 52 to 57.	Baffinland appreciates ECCC's thorough review of the Fresh Water Supply, Sewage, and Wastewater Management Plan. Pages 52-58 of Attachment 23 FSWWP (Part 5) have been reviewed and the following clarifications are provided: Page 52: This figure is the final page of Appendix F. It is noted that this figure is upside down in the PDF. Page 53: This is the flysheet for Appendix G - Mobile Oily Water Separator (OWS) Manual. Appendix G has been added to the FWSSWMP - Part 5 file that was included in the Application, provided as Attachment 06 to this response. Page 54: This is the flysheet for Appendix H - MDMRE Sampling and Reporting Requirements Memo (Minnow). This Appendix can be found in pages 59-67 of the PDF. Pages 55-56: These pages were erroneously included and have been removed from the FWSSWMP - Part 5 file provided as Attachment 06 of this submission. Pages 57-58: These pages are appendices to Appendix G of the FWSSWMP; see Attachment 06 of this submission.						ECCC 3.4	Resolved		

Ite No	n Agency	Technical Comment ID#	Document Reference	Subject Area	Intervenor July 2019 Recommendation/Request	Baffinland's Aug 2019 Response	Intervenor's October 2021 Status Update	Intervenor's October 25, 2021 Updated Recommendation /Request	Baffinland's November 4, 2021 Response	Intervenor Nov 12, 2021 Presentations	Baffinland Response to Nov 12, 2021 Presentations	ID#2	Status of Resolution (Dec 16, 2021)	Intervenor Comment (Dec 16, 2021)	Commitments
54	ECCC	ECCC 3.2.1	Surface Water and Aquatic Ecosystems Plan Table 5.2 Construction Activities; Site operations including stockpiling snow; Quarry and Borrow Pit Operation; and Landfill Operations	- Ad the cond for a - Cla	Crecommends that the Proponent: dd text in the Low Risk column that identifies condition status of elevated centrations/approaching criteria as a trigger action. arify that thresholds are triggered by eedance of any one or more of the regulated		New		Baffinland will amend the low risk condition in the TARP to note any trends in increasing concentrations of regulated parameters, and an exceedance of any discharge limit will trigger action. This will be filed in the next update of the SWAEMP provided ahead of the NWB public hearing.			ECCC 3.2.1	Resolved		Update the SWAEMP by amending the low risk condition to note any trends in increasing concentrations of regulated parameters, and an exceedance of any discharge limit will trigger action.
55	ECCC	ECCC 3.2.2	Surface Water and Aquatic Ecosystems Plan Table 5.2 Water crossing installations and/or modifications row.	- Cla indio - Ad and - Cla	CC recommends that the Proponent: arify the purpose for TDS as a performance icator dd Oil and Grease as a performance indicator; arify how comparisons to background will be lluated.		New		Total Dissolved Solids (TDS) is a supporting parameter in the Northern Corridor Monitoring Program to assist with interpretation of other monitoring results, including total and dissolved metals. Sedimentation is the primary concern with respect to monitoring during water crossing installations and modifications. Hence, Baffinland suggests monitoring for evidence of sheen is adequate and testing for oil & grease is not required. The Water crossing monitoring guidelines specify sampling before, during and following the work, both up- and downstream the crossing. Baffinland uses the weight of evidence of both pre-work and upstream monitoring in comparisons against hackeround.	Clarify the purpose for Total Dissolved Solids as a performance indicator Add Oil and Grease as a performance indicator; and Clarify how comparisons to background will be evaluated.	with a response framework if sheen is	ECCC 3.2.2	Partially resolved		SWAEMP will be updated to: - clarify that TDS is a supporting parameter, and not a performance indicator - clarify how comparisons to background will be evaluated (focusing on comparison to upstream) Baffinland will discuss with ECCC the use of visual sheen as a performance indicator
56	ECCC	ECCC 3.2.3	Surface Water and Aquatic Ecosystems Plan Table 5.2 Road operation row.	- Cla	Crecommends that the Proponent: arify the performance indicator for metals as tal and dissolved metals".		New		The Northern Corridor Monitoring Program includes the analysis of total and dissolved metals The word "and" was omitted in the TARP, but Table H.2 in Appendix H correctly states "total and dissolved metals" as monitoring parameters.			ECCC 3.2.3	Resolved with commitment		Revise Appendix H of the SWAEMP to reflect both total metals and dissolved metals will be tested.
57	ECCC	ECCC 3.2.4	Surface Water and Aquatic Ecosystems Plan Section 5.6; Table 5.2 Trigger Action Response Plans (TARP); Figure 5.1 Northern Corridor Monitoring Adaptive Management Framework; Appendix H Northern Corridor Monitoring Program	- Inc Corr whe - Cla	C recommends that the Proponent: cludes a Low Risk Threshold in the Northern ridor Monitoring Program, and clarifles ether it is entirely post-construction. arify the comparisons to upstream in Section 5 TSS Action Thresholds.		New		A low risk threshold has been established in the Northern Corridor Monitoring Program. This has been presented in the TARP (Table 5.2) in the SWAEMP. The Northern Corridor Monitoring Program presented in Appendix H, however, does not currently incorporate the low risk threshold. Appendix H will be amended to incorporate the low risk threshold presented in the TARP. This includes amending the last sentence of Section 5.6 of the SWAEMP to refer to Section 5 (not Section 6) of Appendix H.	ECCC recommends for the Surface Water and Aquatic Ecosystem Plan concerning the threshold levels for Total Suspended Solids, that the Proponent: Includes a Low Risk Threshold in the Northern Corridor Monitoring Program, and clarifies whether it is entirely post-construction. Clarify the comparisons to upstream in Section for Total Suspended Solids Action Thresholds.	Appendix H of the SWAEMP will be revised to incorporate the low-risk threshold presented in the TARP (Table 5.2). Re: comparisons to upstream in SWAEMP Section 5, BIM noted the wording	ECCC 3.2.4	Resolved with commitment		Revise Appendix H of the SWAEMP to incorporate the low risk threshold for the NCMP as identified in the TARP (Table 5.2), and to indicate that upstream concentrations will be used as background for comparison in monitoring.
58	ECCC	ECCC 3.2.5	Fresh Water Supply, Sewage, and Wastewater Management Plan; Tables 3.7 and 5.2	- En: requ	C recommends the Proponent: issures that all plans that make reference to the uirements of the MDMER be updated in ordance with the amended Regulations.		New		ECCC's comments about all parts of the MDMER coming into force are noted. Table 3.7 in the next revision of the FWSSWMP will reflect the fact that parts of the latest regulation came into force on June 1, 2021 (for example, the addition of unionized ammonia to Schedule 4 of the	Ensures that all plans that make reference to the requirements of the MDMER be updated in		ECCC 3.2.5	Resolved with commitment		Update the FWSSWMP re: MDMER references (completed in Rev C)
59	ECCC	ECCC 3.2.6	Fresh Water Supply, Sewage, and Wastewater Management Plan; Section 3.5; Table 3.8; Appendix D	- Cla Inlet - No. - Th. - Th. - Will - Mill. - Mill.	Crecommends the Proponent: arify water management planning at Milne t, addressing the four points o information is provided in the text on the nagement of Lump Ore Stockpile Perimeter ching contact water. Based on diagrams wided in Appendix D, it appears that this water be trucked to a final discharge point; wever, this should be confirmed within the t. sere is an inconsistent use of terminology, as section refers to stormwater ponds #1 and #2, the are not listed in Table 3.8. It is assumed t the Proponent may be referring to Stockpile limentation Ponds East and West, but this is clear. sere is no information provided on how water be managed from one location to another at ne Port. If all waters are to be discharged ough the existing final discharge points, mation should be provided as to how the ter will be transferred to these locations. Based the diagrams in Appendix D it appears that the ponent will utilize a combination of trucking i portable pumps, however this information uld be explicitly described within the plan. is stated that all stormwaters are to be charged through the existing final discharge its. There is no discussion provided on the		New		proposed.	water. 2. An inconsistent use of terminology (stormwater) ponds #1 and #2 are not listed in Table 3.8). 3. There is no information provided on how water will be managed from one location to another at Miline Port. If all waters are to be discharged through the existing final discharge points, information should be provided as to how the water will be transferred to these locations. 4. There is no discussion provided on the capacity	hold stormwater volumes transferred from new ponds prior to discharge of the water. Water quality will be managed at the new ponds and water will be discharged directly to the final discharge point, bypassing the existing ponds. There may be operational reasons where water would be transferred from new ponds to existing ponds, and in	ECCC 3.2.6	Resolved with commitment		BIM will update the FWSSWMP specifying final plans in terms of conveyance and discharge of contact water at Milne Port.

Item No.	Agency	Technical Comment	Document Reference	Subject Area	Intervenor July 2019 Recommendation/Request	Baffinland's Aug 2019 Response	Intervenor's October 2021	Intervenor's October 25, 2021 Updated Recommendation /Request	Baffinland's November 4, 2021 Response	Intervenor Nov 12, 2021 Presentations	Baffinland Response to Nov 12, 2021 Presentations	ID#2	Status of Resolution (Dec 16, 2021)	Intervenor Comment (Dec 16, 2021)	Commitments
60	ECCC	ID# ECCC 3.2.7	Aquatic Effects Monitoring Program; Table 3.1.8.3.2; Section 3.1.1.1 - Water Quality Benchmarks	AEMP	ECCC recommends that the Proponent: - Review recent research and guidelines, including for those parameters listed above, and determine the applicability of more recent guidelines to the Project. The benchmarks for the AEMP analysis should be updated accordingly.		Status Update New		Baffinland has reviewed the recent guidelines indicated by ECCC and will adopt those for cobalt, (dissolved) lead, strontium, and zinc as AEMP benchmarks. The AEMP benchmarks for these parameters will be derived using baseline data (when available) to conform to the same method: used to derive AEMP benchmarks for other parameters. During the development of the AEMP benchmark for copper, the use of 97.5th percentile of copper concentration at the time of baseline for the waterbody of interest was selected as the benchmark because concentrations of copper were naturally elevated above applicable Water Quality Guidelines WQG at these waterbodies. Hence, Baffinland could not be expected to achieve the WQG for copper at these waterbodies. Therefore, the rationale for the AEMP benchmark was that if the 97.5th percentil of baseline concentration was exceeded following commencement of commercial mine production, this may be an indication of mine-related influence on the waterbody of interest. Accordingly, Baffinland does not feel that a change to the existing AEMP benchmark for	including Cobalt, Copper, Lead, Strontium and Zinc, and determine the applicability of more recent guidelines to the Project. The benchmarks	Baffinland will adopt the FEQGs for Co, Pb, Sr and Zn, and will consider adoption of the copper FEQG.	ECCC 3.2.7	Resolved with commitment		BIM will evaluate AEMP benchmarks for dissolved lead and zinc using 75th percentile and an additional central statistic (mean, median) of the toxicity modifying parameters (pH, DOC, and/or hardness) at the time of baseline as the basis for determining AEMP benchmarks according to FEQG and CCME guidelines. The benchmarks based on these statistics will be compared to the 97.5th percentile of baseline values for dissolved lead and zinc concentrations. The higher of the FEQG/CCME-generated value or 97.5th percentile of baseline for dissolved lead or zinc concentration for each of the 75th percentile, mean, and median statistics will be considered for adoption as the AEMP benchmark on a waterbody/watercourse-specific basis.
61	ECCC	ECCC 3.2.8	Aquatic Effects Monitoring Plan - Section 5.1 & Table 5.1	AEMP	ECCC recommends the Proponent: - Provide additional details on the specific requirements to trigger the action levels - Identify triggers that increase the protectiveness of the proposed moderate action level.		New		copper is warranted based on the same rationale Baffinland is in the process of considering additional details for triggers related to action levels proposed in the existing Data Assessment and Response Framework (Section 5.1, Table 5.1) for the water quality study component.		BIM will consider adopting the applicable regulatory guideline as the high risk thresholds in the AEMP.	ECCC 3.2.8	Unresolved		BIM will include additional description of framework response, including timing for review of data against action levels, under the TARP (Section 5) in next AEMP update. BIM will provide further description on potential moderate- and high-risk response scenarios.
62	ECCC	ECCC 3.2.9	Attachment 32 - Phase 1 Waste Rock Management Plan - BAF- PIH-830-P16-0029' Phase 2 Proposal Revisions. For Review Purposes Only Rev B; Golder Report - Waste Rock Management Plan - For 2020 through 2021; Section: 10.3 Waste Rock Facility (WRF) Closure	Ph1 WRMP	Statement: ECCC notes that once a mine is subject to MDMER, it remains subject to MDMER until it acquires the recognized closed mine (RCM) status, and as such, all effluent discharges will have to be discharged through a designated final discharge point (FDP) monitored and reported through Mine Effluent Reporting System (MERS).		New		ECCC's comment is acknowledged, and Baffinland will adhere to the regulations.	Comment, no resolution required		ECCC 3.2.9	Resolved		
63	QIA	QIA 1.1	190502-2AM-MRY1325-Amend2 Applic-Att-29-ICRP	ICRP	Baffinland's May 2019 submission of the Interim Reclamation and Closure Plan (ICRP) has not yet been approved by QIA through the Commercial Lease. QIA can provide an update on this approval process as requested by the NWB; however, QIA will manage the ICRP through the Commercial Lease and not the Water Licence Process.	updates to the ICRP, to meet the conditions of both the Commercial Lease and the Type 'A'	Unresolved	QIA and Baffinland have exchanged feedback on the Phase 2 ICRP. At this time, QIA has not approved the current version of the ICRP submitted as part of the Amendment 2 package.	Baffinland is committed to working with QIA to reach agreement on the ICRP prior to the Public Hearing on the Phase 2 Proposal Water Licence Amendment, as described in the Inuit Certainty Agreement. Changes to the ICRP made through the NWB process will be subject to QIA review and approval.		ICRP - continue working with the QIA.	QIA 1.1	Path forward identified	QIA and Baffinland have agreed to ongoing technical discussions related to the ICRP and reclamation security	
64	QIA	QIA 2.1	190502-2AM-MRY1325-Amend2 Applic-Att-29-ICRP	-ICRP		Baffinland will continue to engage QIA on the updates to security held for the Project, to meet the conditions of both the Commercial Lease and the Type 'A' Water Licence.	Resolved	QIA is satisfied with Baffinland's August 23, 2019 response.				QIA 2.1	Resolved		
65	QIA	QIA 3.1	190502-2AM-MRY1325-Amend2 Applic-Att-2-Applic	-WCA	being issued as per Article 20.3.1 of the Nunavut	Compensation Agreement is required, and has	Unresolved	QIA and Baffinland have agreed to work together to develop a revised Water Compensation Agreement for the Phase 2 Project. An agreement has not been established at this time.	Baffinland is committed to working with QIA to draft a new Water Compensation Agreement, with the goal of having a signed Water Compensation Agreement prior to the Public Hearing on the Phase 2 Proposal Water Licence			QIA 3.1	Path forward identified	QIA and Baffinland have agreed to continue Phase 2 WCA negotiations	
66	QIA	QIA 4.1	08MN053_BAF-PH1-830-P16- 0002_railway-ops-maint-DRAFT- PHASE-2 08MN053_BAF-PH1-830-P16- 0008_Environment-Protection- Plan-DRAFT-PHASE-2 190506_2AMM-MRY1325_Amend2 Applic Att-22-SWAEMP-ILAE 190502_2AMM-MRY1325_Amend2 Applic-Att-27-AEMP-ILAE	iq	Railway, its location, the crossings, and the relevant management and monitoring plans.	The proposed alignment of the North Railway follows the existing Milne Inlet Tote Road for the majority of the distance between the Mine Site and Milne Port, which limits the footprint of the Project and the need for additional access road construction. The section of the North Railway alignment that deviates from the Milne Inlet Tote Road was subject to an exhaustive technical feasibility study, which determined the preferred alignment was the most technically and economically feasible, as well as the safest in terms of operations (grade and distance from water) and Inuit and wildlife crossings (least steep cuts). Based on these considerations Baffinland advanced the preferred alignment for public reviews to be administered by the Nunavut Planning Commission (NPC), Nunavut Impact Review Board (NIRB), and the Nunavut Water Board (NWB). The proposed alignment of the North Railway, as with the Tote Road, does overlap with a primary travel route. The proposed railway deviation does additionally overlap with the travel route to igloolik. No other important values were identified in the IQ work that resulted in the map book presented as TSD 5. The proposed alignment of the North Railway occurs entirely within the Mary River Transportation Corridor as defined in Appendix P of the North Railway occurs entirely within the Mary River Transportation Corridor as defined in Appendix P of the North Railfin Regional Land Use Plan. The		This Technical Comment is now addressed by TC 26-33.				QJA 4.1	Resolved		

Item No.	Agency Technical Comment	Document Reference	Subject Area	Intervenor July 2019 Recommendation/Request	Baffinland's Aug 2019 Response	Intervenor's October 2021	Intervenor's October 25, 2021 Updated Recommendation /Request	Baffinland's November 4, 2021 Response Intervenor Nov 12, 2021 Presentations	Baffinland Response to Nov 12, 2021 Presentations	ID#2	Status of Resolution (Dec 16, 2021)	Intervenor Comment Commitments (Dec 16, 2021)
67 (D# QIA 4.2	08MN053_BAF-PH1-830-P16- 0022_railway-ops-maint-DRAFT- PHASE-2 08MN053_BAF-PH1-830-P16- 0008_Environment-Protection- Plan-DRAFT-PHASE-2 190506_2AM-MRY1325_Amend2 Applic_Att-22-SWAEMP-ILAE 190502_2AM-MRY1325_Amend2 Applic_Att-27-AEMP-ILAE	IQ		Road and rail dust is not expected to affect the quality of water in nearby streams and lakes in regard to a potential source of drinking water. Baffinland's IQ study did not identify waters important to Inuit in the vicinity of the Tote Road and Railway (KP Letter dated November 30, 2018; Ref. No. NB18-00785; Appendix A of Attachment of Baffinland's January 2019 response to NIRB advanced technical review comment HC 02 in January 2019). It was acknowledged in that report that it is reasonable to assume that watercourses close to areas used by inuit may be used as sources of drinking water, including Phillips Creek acthement. On June 14, 2019, Baffinland received a copy of the QIA's Tusaqtavut Study for Pond Inlet, which identified approximately 14 values within the Project areas that are used for subsistence (either fishing and/or fresh water) within the Project footprint including a 250 m buffer. Baffinland requests the coordinates and interviewerassigned description of each value, so that the nature of these subsistence values can be understood. Baffinland is willing to consider modifications to its Tote Road Monitoring Program to monitor water quality at linuit water use areas, if the appropriate IQ information can be made available.		This Technical Comment is now addressed by TC 26-33.			QIA 4.2	Resolved	
68 (QIA 5.1	Fish Passage Risk Assessment Update (KP Ref VA19-00838)	FAA Application	When will the monitoring and adaptive management plan related to flow diversion be shared for review and comment?	Monitoring and adaptive management at stream diversions are outlined in Attachment 05 (Proposed North Rail Monitoring Programs).	Unresolved	This Technical Comment will remain unresolved until QJA has approved the relevant water quality thresholds and actions.	The nature of this issue is such that adaptive management will be subject to review by a trained professional, and concrete thresholds and pre-defined responses cannot be developed. Section 5.9 of the SWAEMP states: The triggers for taking action such as flooding and/or changes to stream morphology, are subjective and will require an exercise of professional judgement regarding action response, as there are no definitive action level triggers.		QIA 5.1	Path forward identified	QIA and Baffinland have agreed to ongoing discussions related adaptive management components of management plans via the mechanisms established in the Inuit Certainty Agreement.
69 (QIA 6.1	08MM053_BAF-PH1-830-P16- 0022_railway-ops-maint-DRAFT- PHASE-2	Raii O&M Mgnt Plan	North Railway. This should include adaptive management.	Section 5.2 of the Railway Operation and Maintenance Plan (under the heading Component Inspections) describes the inspections and maintenance work to be undertaken at bridges and culverts. Section 1.3 identifies the relevant management plans for issues related to water quality and fish habitat, notably the EPP and the SWAEMP. These plans will be relied upon for addressing water quality and fish habitat issues that are identified as part of the Component Inspections of bridges and culverts.	Unresolved	This Technical Comment will remain unresolved until QIA has approved the relevant water quality thresholds and actions.	The Railway Operation and Maintenance Plan was created in the environmental assessment led by the Nunavut Impact Review Board, and is not part of the Water Licence Application. As noted in Baffinand's original response, water quality issues during construction will be managed by applying the Environmental Guidelines for Water Crossing Repairs, Modifications and/or Installations (Appendix F of the Surface Water and Aquatic Ecosystems Management Plan [SWAEMP]), with monitoring and adaptive management described in the trigger action response plan [TARP) presented in the Surface Water and Aquatic Ecosystems Management Plan. Similarly, nogning water quality monitoring during rail operations is covered by the Northern Corridor Monitoring Program (SWAEMP Appendix H), adapted from the Tote Road Monitoring Program to account for rail monitoring. Both these monitoring programs ware developed jointly with the QIA.		Q)A 6.1	Path forward identified	QIA and Baffinland have agreed to ongoing discussions related adaptive management components of management plans via the mechanisms established in the Inuit Certainty Agreement.
70 (QIA 7.1	Multiple, for example: 08MN053_BAF-PH1-830-P16- 0022_railway-ops-maint-DRAFT- PHASE-2 190506 2AM-MRY1325 Amend2 Applic Att-22-SWAEMP-ILAE	Adaptive Mgnt	and easy to access. At a minimum, references should include the section headers or section numbers.	Baffinland proposes to update the Water Licence related management plans in advance of the NWF Technical Meetings. Attachment 07 presents a table that identifies where each management plan references another plan. The references to other plans will be checked and updated the next update to these management plans.	3	Water Licence amendment documents through a separate regulatory process.	The management plans presented in the updated Water Licence Application have had varying levels of review by the QIA. Baffinland continues to implement its work plan to update the management plans as agreed to with the QIA.		QIA 7.1	Path forward identified	QIA and Baffinland have agreed to ongoing discussions related adaptive management components of management plans via the mechanisms established in the Inuit Certainty Agreement.
	QIA 8.1	Applic Att-22-SWAEMP-ILAE		Resubmit the SWAEMP and include the frequency of the assessment of monitoring activities listed in Section 10 and how this will inform and prioritize maintenance activities.	Attachment 05 (Proposed North Rail Monitoring Programs).		This concern remains outstanding until thresholds are developed for Fish Passage.	Fish passage will be relevant to the Fisheries Act Authorization (FAA) Application that will follow the water licensing process. Baffinland has initiated discussions with DFO regarding fish passage through the FAA process.		QIA 8.1	Path forward identified	QIA and Baffinland have agreed to ongoing discussions related adaptive management components of management plans via the mechanisms established in the Inuit Codalable Agreement
72 C	QIA 9.1	Multiple, including: 190506 2AM-MRY1325 Amend2 Applic Att-22-SWAEMP-ILAE	Adaptive Mgnt	rather than delaying detail or recommending actions be taken.	Baffinland proposes to update the Water Licence related management plans in advance of the NWE Technical Meetings. Attachment 08 presents a table that identifies where each management plan forward-references an action and provides more detail or clarification on each of these commitments. These forward-referenced commitments will be addressed according to the proposed actions in the next update to these management plans in advance of the NWB technical meetings.		QIA and Baffinland are continuing to jointly review and edit several management plans and Water Licence amendment documents through a separate regulatory process.	The management plans presented in the updated Water Licence Application have had varying levels of review by the QIA. Baffinland continues to implement its work plan to update the management plans as agreed to with the QIA.		QJA 9.1	Path forward identified	QIA and Baffinland have agreed to ongoing discussions related adaptive management components of management plans via the mechanisms established in the Inuit Certainty Agreement.

Ite No	n Agency	Technical Comment ID#	Document Reference	Subject Area	Intervenor July 2019 Recommendation/Request	Baffinland's Aug 2019 Response	Intervenor's October 2021 Status Update	Intervenor's October 25, 2021 Updated Recommendation /Request	Baffinland's November 4, 2021 Response	Intervenor Nov 12, 2021 Presentations	Baffinland Response to Nov 12, 2021 Presentations	ID#2	Status of Resolution (Dec 16, 2021)	Intervenor Comment (Dec 16, 2021)	Commitments
73	QIA	QIA 10.1	190506 2AM-MRY1325 Amend2 Applic Att-22-SWAEMP-ILAE 08MN053_BAF-PH1-830-P16- 0023_Roads_Management_Plan- DRAFT-PHASE-2		Present the how, where and to what frequency is calcium chloride monitored to remain in accordance with applicable guidelines to minimize runoff into local watercourses.	As noted in the Roads Management Plan, calcium chloride is mixed with water for application to roads for dust suppression in accordance with its Dust Management Protocol, which is Attachment 6 of the Air Quality and Noise Abatement Management Protocol is consistent with Section 2.3 of the Nunavut Environmental Guideline for Dust Suppression (Government of Nunavut, 2002). This includes using dust suppressants approved by the GN (CaC is an approved dust suppressant); following manufacturer application instructions; applying the dust suppressant to the roadway; monitoring the application rate to ensure adequate coverage without pooling or runoff of product; not using more dust suppressant than needed to effectively suppress dust; and ensuring the material does not migrate or run off the traveled portion of the roadway. Monitoring to determine if calcium chloride can de detected in local watercourses is not identified in the GN dust suppressing guideline. Baffinland notes that in 2018 an alternate dust suppressant called Dust Stop was used on a trial basis, and an expanded trial application is being implemented in 2019. Dust Stop is non-toxic to qualital life, and is being considered to partially or fully replace the use of CaCl as a dust suppressant	Resolved	Monitoring of calcium outlined in Appendix G and H of the SWAEMP is sufficient assuming no evidence of unexpected effects associated with calcium are identified. If unexpected effects are identified, monitoring will need to be adequately modified through the adaptive management process.				QJA 10.1	Resolved		
74	QIA	QIA 10.2		SWAEMP	Provide the applicable guideline used to minimize runoff into local watercourses.	The Dust Management Protocol presented as Attachment 6 of the Air Quality and Moise Abatement Management Plan provides the guidance Baffinland staff use to minimize runoff into watercourses. The Dust Management Protocol has been provided as Attachment 09 to	Resolved	QIA is satisfied by the response provided by Baffinland on August 23, 2019.				QIA 10.2	Resolved		
75	QIA	QIA 11.1	190502-2AM-MRY1325-Amend2- Applic-Att-8.5-Rail-Geotech- Recomm	Plan	The Water Licence should require Baffinland to monitor the construction, operations and closure of the North Railway.	Part D, Item 18 of the existing Water Licence requires geotechnical inspections of earthworks. Schedule B, Item 1e.ii of the existing Water Licence requires reporting of results of thermal modelling and/or research carried out in relation to permafrost integrity along the railway alignment.	Unresolved	This concern remains outstanding until TARPs are provided for geotechnical criteria of the railway.	As noted in Baffinland's original response, the Water Licence contemplates the construction and operation of a railway (the South Railway) already, and further conditions are not required. Attachment 8.15 of the Updated Application is the North Railway Instrumentation Monitoring Program. Section 5.3 identifies alert levels (thresholds) for changes in ground temperature and settlement in the embankment, as well as response procedures and actions. Baffinland will develop a TARP based on this monitoring plan, to be presented in the appropriate management plan. As previously stated, this will be completed during the first year of rail operation. The commitment to develop a TARP applying the geotechnical criteria in the railway monitoring program should be sufficient to resolve this recommendation.			QJA 11.1	Path forward identified	ongoing discussions related adaptive tmanagement components of	Develop and incorporate a TARP based on the hresholds identified in the North Railway nstrumentation Monitoring Program into the Railway Operation and Maintenance Plan Juring the first year of operations.
76			Applic-Att-8.5-Rail-Geotech- Recomm	Plan	provide the monitoring program prior to any construction approvals for the North Railway is provided.	Baffinland will provide details on the construction geotechnical monitoring program as part of the Water Licence review process in advance of the technical meeting. The outcome of the construction geotechnical monitoring program will inform the operations phase geotechnical monitoring, to be incorporated into the updated Railway Operation and Maintenance Plan.		This concern remains outstanding until appropriate geotechnical monitoring data is included as reporting criteria within the amended Water Licence.	The previously forward-referenced construction geotechnical monitoring program was presented as Attachment 8.15 of the Updated Application. Part D, Item 18 of the Water Licence requires annual geotechnical inspections. As per the response to QIA-11.1, the geotechnical monitoring program including thresholds will be presented in a management plan that will be approved under the Water Licence.			QIA 11.2	Path forward identified	QIA and Baffinland have agreed to ongoing discussions related to the proposed terms and conditions of the Phase 2 Water Licence.	
//			0022_railway-ops-maint-DRAFT- PHASE-2	Plan	the Water Licence.	requires geotechnical inspections of earthworks. Schedule B, Item 1e.ii of the existing Water Licence requires reporting of results of thermal modelling and/or research carried out in relation to permafrost integrity along the railway alignment.		This concern remains outstanding until appropriate geotechnical monitoring data is included as reporting criteria within the amended Water Licence.	The QIA's recommendation was in relation to the following: "Records of inspections and corrective actions will be kept by the Railroad Infrastructure Department." This statement refers to standard internal record-keeping. Baffinland's initial response governs how external reporting will be conducted.			QIA 12.1	Path forward identified	QIA and Baffinland have agreed to ongoing discussions related to the proposed terms and conditions of the Phase 2 Water Licence.	
78			0022_railway-ops-maint-DRAFT- PHASE-2	Plan	Baffinland should be required to disclose the triggers that result in corrective actions being taken.	Thresholds and triggers will be established as appropriate in the future operations geotechnical monitoring program that will form part of the Railway Operation and Maintenance Plan. Triggers that will result in corrective actions will be defined after the completion of the construction monitoring phase, as no detailed site specific information is currently available to make an accurate assessment of the potential triggers. These triggers will be disclosed once they have been developed.		This concern remains outstanding until TARPs are provided for geotechnical criteria of the railway.	See Baffinland's response to QIA-11.1.			QIA 12.2	Path forward identified	QIA and Baffinland have agreed to ongoing discussions related adaptive management components of management plans via the mechanisms established in the Inuit Certainty Agreement.	
79	QIA	QIA 12.3	08MN053_BAF-PH1-830-P16- 0022_railway-ops-maint-DRAFT- PHASE-2	Plan	Baffinland should be required to update the NWB and reviewers on the effectiveness of the corrective actions.	Comments on the effectiveness of corrective actions can be provided as part of Baffinland's QIA and NWB Annual Report for Operations.	Resolved A	QIA is satisfied by the response provided by Baffinland on August 23, 2019.				QIA 12.3	Resolved		

Iten No.	n Agency	Technical Comment ID#	Document Reference	Subject Area	Intervenor July 2019 Recommendation/Request	Baffinland's Aug 2019 Response	Intervenor's October 2021 Status Update	Intervenor's October 25, 2021 Updated Recommendation /Request	Baffinland's November 4, 2021 Response	Intervenor Nov 12, 2021 Presentations	Baffinland Response to Nov 12, 2021 Presentations	ID#2	Status of Resolution (Dec 16, 2021)	Intervenor Comment (Dec 16, 2021)	Commitments
80		QIA 13.1	190506 2AM-MRY1325 Amend2 Applic Att-22-SWAEMP-ILAE		Provide figures that detail the field monitoring proposed to be completed as part of the construction, operation and closure of the North Railway.	phases, respectively. For example, Section 10.2.3.1 states, "Monitoring will occur at active work areas along the North Railway during construction, as prescribed in a future Fisheries Authorization for crossings. This is expected to include turbidity monitoring downstream of active work areas, including crossing locations as well as downstream of quarriers and soil spoils disposal areas (mainly former borrow pits and quarries)." The location of the embankment and water crossings are presented on the detailed railway figures presented as Attachment 10 of the Water Licence amendment Application. A map of proposed monitoring locations for operations will be provided prior to the technical meeting. Monitoring locations associated with quarries will be identified within each quarry management plan.	Unresolved	QIA believes that Table 5.1 should include monitoring activities during closure of the north railway.	The operation phase monitoring locations are presented in the updated Northern Corridor Monitoring Program presented as Appendix H of the SWAEMP (Attachment 22 of the Updated Application). Some monitoring programs listed in Table 5.1 and depicted in the figure will need to continue during the active closure phase (and possibly for a period post-closure). However, this is articulated in the Interim Closure and Reclamation Plan Section 2.3.1.4 of the ICRP states that a Final Closure and Reclamation Plan will be developed and submitted no later than one year or earlier if possible before scheduled permanent closure, or immediately after notification of an unplanned closure. At this time, figures would be updated to reflect closure phase monitoring of the North Railway.			QJA 13.1	Unresolved	QIA believes that Table 5.1 should include monitoring activities during closure of the north railway.	
81	QIA	QIA 13.2	190506 2AM-MRY1325 Amend2 Applic Att-22-SWAEMP-ILAE	SWAEMP	Provide additional details based on Baffinland's current experience from developing a mine with a linear transportation corridor (over 5 years) that would inform the selection of effective sedimentation and erosion controls along the North Railway.		Resolved	Erosion control measures are detailed with installation locations noted, which may be applied to either road or rail water crossings.				QIA 13.2	Resolved		
82	QIA	QIA 14.1	OBMN053_BAF-PH1-830-P16- 0023_Roads_Management_Plan- DRAFT-PHASE-2	SWAEMP	Provide the severity of the concern that requires immediate action be taken by Baffinland.	The response action framework for post- construction monitoring is outlined in Appendix C of the Roads Management Plan.	Unresolved	Appendix C was not provided by Baffinland to verify if any changes were made to address this comment.	The referenced text is from the Roads Management Plan, which is not a plan regulated by the NWB under the Water Licence. The referenced response action framework for post-construction monitoring is now presented in Appendix F of the Surface Water and Aquatic Ecosystem Management Plan. Response times cannot be provided on a scale as being requested by the CIA, as they are sitee specific and depend upon the available resources and urgency relative to other issues at the time.			QIA 14.1	Path forward identified	QIA and Baffinland have agreed to ongoing discussions related adaptive management components of management plans via the mechanisms established in the Inuit Certainty Agreement.	
83	QIA	QIA 14.2	08MN053_BAF-PH1-830-P16- 0023_Roads_Management_Plan- DRAFT-PHASE-2	SWAEMP	Provide the frequency at which Baffinland would determine and prioritize any corrective actions to the Project road network.		Unresolved	Appendix C was not provided by Baffinland to verify if any changes were made to address this comment.	As noted in the response to QIA-14.1, Appendix C of the Roads Management Plan now appears as Appendix F of the SWAEMP. The QIA Environmental Monitors are integrated into Baffinland's environmental department, in terms of understanding how issues are prioritized day to day.			QIA 14.2	Path forward identified	QIA and Baffinland have agreed to ongoing discussions related adaptive management components of management plans via the mechanisms established in the Inuit Certainty Agreement.	
84	QIA	QIA 14.3	08MN053_BAF-PH1-830-P16- 0023_Roads_Management_Plan- DRAFT-PHASE-2		Provide what would trigger Baffinland to construct the approved Tote Road to the 2014 Hatch design.	Baffinland continues to upgrade the Tote Road through ongoing operation and maintenance, implementation of the Tote Road Earthworks Execution Program (TREEP) and implementing or restoring sections of the road to the Hatch design.	Unresolved	Baffinland has indicated that a response to this concern is contingent on the NIRB's review of TRC 22 as part of the "Phase 2 Proposal" assessment.				QIA 14.3	Path forward identified	QIA and Baffinland have agreed to ongoing discussions related adaptive management components of management plans was the mechanisms established in the Inuit Certainty Agreement.	
85		QIA 15.1	002_ railway-ops-maint-DRAFT- PHASE-2		Provide the target areas identified as higher risk and validation for this assessment.	The complete list of target areas have not been identified. A study is currently underway to develop a geotechnical monitoring plan for use during the construction phase. The outcome of the construction geotechnical monitoring program will inform the operations phase geotechnical monitoring, to be incorporated into the updated Railway Operation and Maintenance Plan. Examples of high risk areas may include the four rail bridges over rivers, plate arch culverts, high embankments and deep excavations in both icerich and ice-poor soil areas.	Resolved	Baffinland has provided the requisite information in the Northern Railway Instrumentation Monitoring Plan.				QJA 15.1	Resolved		
86	QIA	QIA 15.2	08MN053_BAF-PH1-830-P16- 0022_railway-ops-maint-DRAFT- PHASE-2		Provide what additional information will be gathered prior to construction of the North Railway and how that information will be used to inform the construction of the North Railway.	Thermistors for sub-surface temperature profiling, as well as topographical survey markers and settlement plates will be installed at various locations to validate design assumptions and to monitor potential creep and thaw settlement.	Resolved	Baffinland has provided the requisite information in the Northern Railway Instrumentation Monitoring Plan.				QIA 15.2	Resolved		

Item No.	Agency	Technical Comment	Document Reference	Subject Area	Intervenor July 2019 Recommendation/Request	Baffinland's Aug 2019 Response	Intervenor's October 2021	Intervenor's October 25, 2021 Updated Recommendation /Request	Baffinland's November 4, 2021 Response	Intervenor Nov 12, 2021 Presentations	Baffinland Response to Nov 12, 2021 Presentations	ID#2	Status of Resolution (Dec 16, 2021)	Intervenor Comment (Dec 16, 2021)	Commitments
87	QIA	ID# QIA 15.3	08MN053_BAF-PH1-830-P16- 0022_railway-ops-maint-DRAFT- PHASE-2	Plan constru	le how the information gathered during the ruction of the North Railway will be used to e the operational condition monitoring plan.	Data collected during the construction phase will be used to validate the design assumptions used for design analysis and modelling of thermal behaviour and changes to the permafrost regime. This will assist in identifying operations phase monitoring at representative and high risk locations, for example at deep excavations, high embankments, or plate arch culverts. The operations phase monitoring program will evolve over time should results show a specific need for additional monitoring.	Status Update	Triggers, Actions and Thresholds have yet to be established for geotechnical monitoring criteria.	See Baffinland's response to QIA-11.1.			QIA 15.3	Path forward identified	QIA and Baffinland have agreed to ongoing discussions related adaptive management components of management plans via the mechanisms established in the Inuit Certainty Agreement.	
88	QIA		08MN053_BAF-PH1-830-P16- 0022_railway-ops-maint-DRAFT- PHASE-2	Raii O&M Mgnt Providi Plan equipn		The construction geotechnical monitoring program for the North Railway is currently being prepared and will be submitted for review in advance of the technical meeting. A draft list of monitoring equipment and locations are provided in a table presented as Attachment 10 of this response, however this list is subject to change as the monitoring program is finalized. The final monitoring plan for the operations phase of the railway will be finalized following completion of the construction monitoring phase, when data collected has ben analyzed and final recommendations can be provided.		Baffinland has provided the requisite information in the Northern Railway Instrumentation Monitoring Plan.				QIA 15.4	Resolved		
89	QIA		190506 2AM-MRY1325 Amend2 Applic Att-22-SWAEMP-ILAE	listed in to mitin quality impact commi QIA is v updatin	in Attachment 1, that will be implemented igate against an exceedance of a water y criteria, relevant thresholds, and potential ts to the receiving environment. As ittled to by Baffinaland in the NIRB process, willing to work with Baffinland through ing its adaptive management included in oring and management plans.	A detailed outline of construction monitoring is provided as Attachment 05 (Proposed North Rail Monitoring Program). This includes a description		This concern remains outstanding until thresholds and responses are developed to include all analytical water quality monitoring parameters.	Baffinland has received from the QIA more than one round of comments on the SWAEMP including the indicators and thresholds in the Trigger Action Response Plan (TARP). The QIA's comments have been addressed in the latest version. Baffinland will continue to work cooperatively with the QIA to finalize these plans under the Water Licence, and will continue to report progress where we can. It is not clear what remains outstanding in regard to incorporating all analytical water quality monitoring parameters.			QIA 16.1	Path forward identified	QIA and Baffinland have agreed to ongoing discussions related adaptive management components of management plans via the mechanisms established in the Inuit Certainty Agreement.	
90	QIA		190506 2AM-MRV1325 Amend2 Applic Att-22-SWAEMP-ILAE	plans t data, a to avoi relevar	to include triggers, based on monitoring and to implement the mitigation measures id exceedance of water quality criteria, nt thresholds, and potential impacts to the ing environment.	The reference to Attachment 1 is not clear as there is no Attachment I in the referenced SWAEMP. Belfinland will update the applicable water quality monitoring plans to be consistent with the Adaptive Management Plan currently under development in consultation with the QIA. This includes incorporating the concepts of triggers, thresholds and actions presented in the Environmental Guidelines for Project Water Crossing Repairs, Modifications and/or Installations presented in Appendix C of the Road Management Plan. This is articulated further in the detailed outline of construction monitoring presented in Attachment 05 (Proposed North Rail Monitoring Programs).		This information has not yet been incorporated into the relevant management plans.	It is not clear what remains outstanding in regard to incorporating all analytical water quality monitoring parameters. Baffinland included a recent draft update of the SWAEMF in the Updated Water Licence Application (Attachment 22) which identifies agreed upon water quality thresholds related to surface runoff.			QIA 16.2	Path forward identified	QIA and Baffinland have agreed to ongoing discussions related adaptive management components of management plans via the mechanisms established in the Inuit Certainty Agreement.	
91	QIA	QIA 16.3	190506 2AM-MRY1325 Amend2 Applic Att-22-SWAEMP-ILAE	mitigat	te the occurrence of an exceedance to	Monitoring Programs; See the detailed outline of construction monitoring provided as Attachment 05 (Proposed North Rail Monitoring Programs).	Unresolved	This information has not yet been incorporated into the relevant management plans.	Since this original comment was received, Baffinland incorporated the referenced construction monitoring details previously presented as Attachment 05 of the 2019 Water Ucence Application into Section 5 of the SWAEMP			QIA 16.3	Path forward identified	QIA and Baffinland have agreed to ongoing discussions related adaptive management components of management plans via the mechanisms established in the Inuit	
	QIA		Fish Passage Risk Assessment Update (KP Ref VA19-00838)	recom assess review	mendations? If yes, when will the ment and detailed design be shared for w and comment?	ves, Baffinland is committed to completing these recommendations. An assessment of the single high risk diversion will be undertaken in late August 2019, and site-specific modifications to the culvert design will be undertaken if appropriate following this assessment (i.e., through the fall of 2019). The resultant information will be presented in the application for an authorization under the Fisheries Act, to be prepared in late 2019 through early 2020. Baffinland can provide the QIA with this information once it has been developed. This is a ritculated in more detail on the construction monitoring outline provided as Attachment 05 (Proposed North Rail Monitoring Program).		Refer to TC 24 1.4.				QIA 17.1	Resolved		
93	QIA		Fish Passage Risk Assessment Update (KP Ref VA19-00838) 190502 2AM-MRY1325 Amend2 Applic-Att-27-AEMP-ILAE	recomi	imendations? If yes, when will the oring program be shared for review and ent?	Yes, Baffinland is committed to completing these recommendations. An outline of the proposed fish passage monitoring program is presented in Attachment 0.5 Proposed North Rail Monitoring Programs). The resultant information will be presented in the application for an authorization under the Fisheries Act, to be prepared in late 2019 through early 2020. Baffinland can provide the QIA with this information once it has been developed.	Deferred	Refer to TC 24 1.4				QIA 18.1	Resolved		

Item No.	Agency	Technical Comment ID#	Document Reference	Subject Area	Intervenor July 2019 Recommendation/Request	Baffinland's Aug 2019 Response	Intervenor's October 2021 Status Update	Intervenor's October 25, 2021 Updated Recommendation /Request	Baffinland's November 4, 2021 Response	Intervenor Nov 12, 2021 Presentations	Baffinland Response to Nov 12, 20 Presentations	21 ID#2	Status of Resolution (Dec 16, 2021)	Intervenor Comment Commitments (Dec 16, 2021)
94	QIA	QIA 18.2	Fish Passage Risk Assessment Update (KP Ref VA19-00838) 199502 ZAM-MRY1325 Amend2 Applic-Att-27-AEMP-ILAE	FAA Application	Given this statement can Baffinland explain why the North Railway did not cause greater changes to the AEMP Please also consider the North Railway involved almost 400 stream crossing and 30 new quarries.	term aquatic effects from multiple stressors within the Potential Development Area of the	Unresolved h		Baffinland stands by its original response. The Northern Corridor Monitoring Program (now forming part of the SWAEMP) was developed jointly with the QIA. Baffinland's Commitment #201 in the NIRB review is as follows: Baffinland collects and reports data on fish presence, catch per unit effort, and fork length from 30-60 crossing sites along the Tote Road annually. Baffinland commits to adding observations regarding physical condition of fish (e.g., lesions, injuries, activity level). Baffinland and QIA will determine an appropriate approach to analysis and development of a metric for monitoring fish health for the 2022 reporting period. The program will be evaluated every three (3) years to determine if monitoring locations may be reduced due to no observations of project related-impacts. This commitment will be incorporated into the			QIA 18.2	Path forward identified	QIA and Baffinland have agreed to ongoing discussions related adaptive management components of management plans via the mechanisms established in the Inuit Certainty Agreement.
95	QIA	QIA 19.1	19050-2AM-MRY1325-Amend2 Applic-Att-8.5-Rail-Geotech- Recomm	-SWAEMP	These reports should be included in Baffinland's reporting to NWB.	Observations of erosion and sedimentation may be identified during General or Component Inspections described in Section 5.2 of the Railway Operation and Maintenance Plan. As noted in Section 1.3 of the same Plan, water quality issues will be dealt with in accordance with the relevant plans including the EPP and SWAEMP, as with any other erosion and sedimentation issue on the Project.	Unresolved	This concern remains outstanding until reporting criteria inclusive of sedimentation monitoring is provided in the amended Water Licence.	The SWAEMP (Attachment 22 of the Updated Application) presents the thresholds, actions and reporting requirements related to erosion and sedimentation project-wide including the railway.			QIA 19.1	Path forward identified	QIA and Baffinland have agreed to ongoing discussions related adaptive management components of management plans via the mechanisms established in the Inuit Certainty Agreement.
96	QIΑ	QIA 19.2	19050-2AM-MRY1325-Amend2 Applic-Att-8.5-Rail-Geotech- Recomm	-ISWAEMP	Provide the measures and what are the specific triggers to action them.	Rail operations staff will report any erosional events that are or have the potential to cause the release of sediment into watercourses to the Environment Dept. This would be the triggering event. Any remedial measures will be implemented consistent with the SWAEMP. Aside from potentially elevated TSS above thresholds described in the Water Quality Monitoring outling for rail construction presented in Attachment 05 (Proposed North Rail Monitoring Programs). Monitoring and sampling of select water crossing in the Northern Transportation Corridor will also include a visual inspection of crossings to assess reosion and sedimentation events, consistent with the monitoring framework outlined in the Tote Road Monitoring Program in the Roads Management Plan.	e e					Q(A 19.2	Resolved	
97	QIA	QIA 20.1	190502-2AM-MRY1325-Amend2 Applic-Att-8.5-Rail-Geotech- Recomm 2AM-MRY1325 Baffinland Iron Mines Revised Run of Mine Stockpile and Sedimentation Pond Issued For Construction	-Rail O&M Mgni Plan	This work should be completed and provided by Baffinland prior to any construction approvals for the North Railway deviation is provided.			Refer to TC 24 1.4				QIA 20.1	Resolved	
98	QIA	QIA 21.1	190502-2AM-MRY1325-AmendZ Applic-Att-8.5-Rail-Geotech- Recomm	-Rail O&M Mgni Plan	The Water Licence should require Baffinland to complete and report on embankment cut test sections. The reporting should describe how the results were included in final designs. This work should be completed and provided by Baffinland prior to any construction approvals for the North Railway is provided.	place during construction. Following the construction monitoring phase, long-term		This concern remains outstanding until further detail is provided in either the North Railway Monitoring Program or the mentioned drone-based monitoring program.	What is included in the amended Water Licence is the decision of the NWB. However, Baffinland suggests that a test embankment would inform engineering design, and that it is not relevant to regulatory reporting.			QJA 21.1	Path forward identified	QIA and Baffinland have agreed to ongoing discussions related to the proposed terms and conditions of the Phase 2 Water Licence.
99	QIA	QIA 22.1	190502-2AM-MRY1325-Amend2 Applic-Att-8.5-Rail-Geotech- Recomm	- Rail O&M Mgn Plan	L Additional details regarding the frequency, and extent of the aerial assessments is requested.	Aerial Photosat imagery is already collected on ar annual basis as agreed to with QIA. Aerial images from previous years will be compared with new images to identify areas of standing water which may indicate localized settlement has occurred.		This concern is outstanding until reporting criteria inclusive of a satellite imagery assessment is provided in the amended Water Licence.	Aerial assessments or similar will form part of the Railway Monitoring Program, which will be incorporated into the relevant management plan.			QIA 22.1	Path forward identified	QIA and Baffinland have agreed to ongoing discussions related to the proposed terms and conditions of the Phase 2 Water Licence.
100	λίΑ	QIA 22.2	19050:-2AM-MRY1325-Amend Applic-Att-8.5-Rail-Geotech- Recomm	-Rail O&M Mgni Plan	A specific trigger for when additional insulation is required should be considered in the Water Licence.	Triggers for when additional insulation or soil cover may be required will be determined after the completion of the construction monitoring phase, as no detailed site-specific information is currently available to make an accurate assessment of the potential triggers. Some triggers may relate to the safe operation of the rail line, such as excessive settlement (beyond what can be accommodated in the rail design) or cut slope failure as a result of freeze/thaw action within the active zone and changes to the local permafrost regime.	Unresolved	This concern is outstanding until reporting criteria inclusive of a satellite imagery assessment is provided in the amended Water Licence.	This will form part of the Railway Monitoring Program, which will be incorporated into the relevant management plan. Baffinland suggests that the incorporation of geotechnical criteria is appropriate in the relevant management plan and not the licence.			QIA 22.2	Path forward identified	QIA and Baffinland have agreed to ongoing discussions related to the proposed terms and conditions of the Phase 2 Water Licence.
101	QIA	QIA 22.3	190502-2AM-MRY1325-Amendz Applic-Att-8.5-Rail-Geotech- Recomm	-Rail O&M Mgn: Plan	The Water Licence should require Baffinland complete the aerial assessments committed to and report upon them.	Aerial assessments will continue to be undertaker annually with a report provided to the QIA as part of the Commercial Lease.		This concern is outstanding until reporting criteria inclusive of a satellite imagery assessment is provided in the amended Water Licence.	Schedule D already lists conditions applying to construction and reporting, which includes the issue of settlement. This will form part of the Railway Monitoring Program, which will be incorporated into the relevant management plan. Baffinland suggests that the incorporation of geotechnical criteria is appropriate in the relevant management plan and not the licence.			QIA 22.3	Path forward identified	QIA and Baffinland have agreed to ongoing discussions related to the proposed terms and conditions of the Phase 2 Water Licence.

Item No.	Agen	cy Technical Comment ID#	Document Reference	Subject Area	Intervenor July 2019 Recommendation/Request	Baffinland's Aug 2019 Response	Intervenor's October 2021 Status Update	Intervenor's October 25, 2021 Updated Recommendation / Request	Baffinland's November 4, 2021 Response Intervenor Nov 12, 2021 Presentation	ns Baffinland Response to Nov 12, 2021 Presentations	ID#2	Status of Resolution (Dec 16, 2021)	Intervenor Comment (Dec 16, 2021)	Commitments
102	QIA	QIA 23.1	190506 2AM-MRY1325 Amend2 Applic Att-22-SWAEMP-ILAE	SWAEMP	Provide what monitoring would be conducted that could lead to mitigation measures.	Further to the QIA's comment on the hydrological modelling completed in 2017 as presented in the FEIS Addendum (Appendix C of TSD 13), the railway design was updated. Ten diversions will now occur, and these were assessed with updated hydrological modelling, presented as Attachment O4 to this response (Fish Passage Risk Assessment of Water Crossings and Stream Diversions). Nine of the 10 stream diversions were assessed as low risk and the tenth stream diversion was assessed as medium risk. An outline of a proposed monitoring program is provided in Attachment O5 (Proposed North Rail Monitoring Programs).		Refer to 8.1 and 10.1.	Baffinland has responded to QIA-8.1 and QIA-10.1.		QIA 23.1	Resolved		
103	QIA	QIA 23.2	190506 2AM-MRY1325 Amend2 Applic Att-22-SWAEMP-ILAE	SWAEMP	Provide the monitoring values that would trigger mitigation measures.	Monitoring will consist of visual inspection, surveit transects and possibly TSS/turbidity monitoring if elevated TSS is observed as the result of erosit of the stream channel. The only numerical value that would trigger mitigation would be TSS above the thresholds identified in the Rail Monitoring memo provided in Attachment OS (Proposed North Rail Monitoring Programs). Effects to stream morphology will be based on professional judgement with consideration of potential alteration of fish habitat.	Unresolved	Refer to 8.1 and 10.1.	Baffinland has responded to QIA-8.1 and QIA-10.1.		QIA 23.2	Resolved		
104	QIA	QIA 23.3	190506 2AM-MRY1325 Amend2 Applic Att-22-SWAEMP-ILAE		management would not be needed during and post construction.	Monitoring will not be required following a full open water season (plus a preceding partial season, if applicable) indicates that the channel capacity is not being exceeded, subsidence or slope instability is not occurring, and if channel bed scour or sediment deposition is not occurring within what is judged to be normal limits. Proposed monitoring is described further in Attachment 05 (Proposed North Rail Monitoring Programs).		QIA is engaged with Baffinland in improving current adaptive management processes as par of a separate regulatory process. QIA will provide an update on this TC when available.	Baffinland is prepared to continue to discuss this t issue outside of the NWB process as indicated by the QJA.		QIA 23.3	Path forward identified	QIA and Baffinland have agreed to ongoing discussions related adaptive management components of management plans via the mechanisms established in the Inuit Certainty Agreement.	
105	QIA	QIA 24.1	190502 2AM-MRY1325 Amend2 Applic-Main-Rpt-ILAE	Water Licence	The NWB should develop a new Part of the amended Water Lience devoted to stream crossings, the construction of the North Railway, and subsequent reporting requirements. At a minimum this should consider the following: 24.1.1 - Environmental monitoring for construction 24.1.2 - Construction QAQC programs for the North Railway 24.1.3 - Infield design change reporting 24.1.3 - North Railway As-Built reporting on time frequency basis	reports, requiring the submission of as-builts with construction summary reports, and the implementation of mitigation measures and monitoring as described in the management plan approved under the Water Lience. Baffinland would be amenable to inclusion of water quality criteria for water crossings that consider the influence of background or upstream concentrations (i.e. natural conditions).		2.4.1 Unresolved. This TC remains unresolved until applicable reporting criteria are included. 2.4.1.1 Unresolved. This concern remains outstanding until reporting criteria for monitoring during construction of the North Railway is included. 2.4.1.2 Unresolved. This concern remains outstanding until quality control considerations of the North Railway are included in Part D, with inclusion of reporting criteria. 2.4.1.3 Unresolved. This concern remains outstanding until quality reporting or in field design changes for construction of crossings along the North Railway are included in Part D. 2.4.1.4 Unresolved. In addition to recommendation 2.4.1, it is requested that as-builts for sections of the North Railway are provided on a more frequent			QIA 24.1	Path forward identified	QIA and Baffinland have agreed to ongoing discussions related to the proposed terms and conditions of the Phase 2 Water Licence.	
106	QIA	QIA 24.2	190502 2AM-MRY1325 Amend2 Applic-Main-Rpt-ILAE	Water Licence	This new Part should also provide requirements for construction reporting.	Construction reporting requirements are outlined in Part D, Item 17 of the current Water Licence.	Unresolved	Refer to 24.1.4.	Baffinland has responded to Recommendation 24.1.4.		QIA 24.2	Path forward identified	QIA and Baffinland have agreed to ongoing discussions related to the proposed terms and conditions of the	
107	QIA	QIA 24.3	190502 2AM-MRY1325 Amend2 Applic-Main-Rpt-ILAE	Water Licence	QIA is willing to work through the NWB process and review to support the development of draft terms and conditions.		Resolved	QIA is in agreement with Baffinland August 23, 2019 response.			QJA 24.3	Resolved	Phase 2 Water Licence	
108	QIA	QIA 25.1	190502-2AM-MRY1325-Amend2 Applic-Att-8.5-Rail-Geotech- Recomm 190506 2AM-MRY1325 Amend2 Applic Att-22-SWAEMP-ILAE 08MN053_BAF-PH1-830-P16- 0022_railway-ops-maint-DRAFT- PHASE-2		Provide a timeline for the completion of modelling; additional testing; final design; and final approval of the North Railway.	Thermal modelling have been completed and is provided in Attachments 8.4, 8.5, 8.9, 8.10 and 8.11 of the updated Application. Hydrological modelling is provided in Attachment 04 of this submission. Additional geotechnical testing will occur along the North Railway deviation in winter 2019/2020, and testing will continue through the construction phase. The final design has been completed and is shown on the plan and profile drawings in Attachments 11.1 to 11.3 of the updated Application. While this design is final and approved for construction, it is recognized that there may be local changes due to site conditions	Resolved	QIA is of the understanding that Baffinland is now solely seeking approval for the constructio of Route 3.	n.		QIA 25.1	Resolved		
109	QIA	QIA 25.2	190502-2AM-MRY1325-Amend2 Applic-Att-8.5-Rail-Geotech- Recomm 190506 2AM-MRY1325 Amend2 Applic Att-22-5WAEMP-ILAE 08MN053_BAF-PH1-830-P16- 0022_railway-ops-maint-DRAF1- PHASE-2	Water Licence	Baffinland should be required to provide bi- weekly reports during the construction of the North Railway that outline any deviations from the approved construction drawings.	Information on as-built deviations from the approved construction drawings will be provided in Construction Summary Reports to be prepared as required under Baffinland's Type 'A' Water Licence.	Unresolved	Refer to 24.1.4	Baffinland has responded to Recommendation 24.1.4.		QIA 25.2	Path forward identified	Refer to 24.1.4 (which states, "QIA and Baffinland have agreed to ongoing discussions related to the proposed terms and conditions of the Phase 2 Water Licence.")	
110	QIA	QIA 25.3		Plan	Provide a timeline for delivering the North Railway long term monitoring and maintenance plan for review, comment, and approval.	The long-term monitoring and maintenance plan for the North Railway will be finalized during the first year of railway operations. The development of this plan will take into account information and observations from the construction geotechnical monitoring program.		QIA has not yet received a copy of the draft lon term monitoring plan.	g As noted in Baffinland's August 2019 response, the long-term monitoring and maintenance plan will be finalized in the first year of railway operations. The short and long-term geotechnical monitoring plan is described in Attachment 8.15 of the updated Water Licence Amendment application (Northern Railway - Instrumentation Monitoring Program).		QIA 25.3	Unresolved	QIA has not yet received a copy of the draft long term monitoring plan.	

Item Agency No.	y Technical Comment ID#		Subject Area	Intervenor July 2019 Recommendation/Request	Baffinland's Aug 2019 Response	Intervenor's October 2021 Status Update	Intervenor's October 25, 2021 Updated Recommendation /Request	Baffinland's November 4, 2021 Response	Intervenor Nov 12, 2021 Presentations	Baffinland Response to Nov 12, 2021 Presentations	ID#2	Status of Resolution (Dec 16, 2021)	Intervenor Comment (Dec 16, 2021)	Commitments
111 QIA	QIA-26.1	190502 2AM-MRY1325 Amend2 Applic Att2-Applic-ILAE 190502 2AM-MRY1325 Amend2 Applic-Main-Rpt-ILAE Nunavut Water Board SiGs 190502 2AM-MRY1325 Amend2 Applic-Att-3.2-SiG-Concord-ILAE Nunavut Water Board. 2004. "Draft Guide for Community Consultation and Public Participation". [NWB FTP Site] 190823-2AM-MRY1325-mrp2- SIM-Tech-Comment-Responses FEIS Addendum TSD 04 Public Consultation		Please describe all community and other meetings where water and or the water licence amendment were a central topic of discussion. Please also include copies of any plain language materials on the Water Licence Amendment provided at those meetings.		Unresolved	Relevant activities related to this topic that have occurred in the interim include: • QIA has been working with Pond Inlet on an IQ study on Inuit water values in relation to the Mary River Project. This work is being funded by Baffinland. An update on the status of this work and its implications for the water licensing process can be provided at the technical meeting on November 12, 2021. • QIA has also initiated work to develop Inuit OITR's and a Culture, Resources and Land Use Monitoring Program. QIA notes that Baffinland is now committed to Route 3 for the North Railway and provides more information on this in its updated Water Licence filings. In the Main Report, at pg. 7 of 65, Baffinland states that the shift to Route 3 was "in response to community feedback". It is not clear what community feedback this was or the status of Inuit parties' support for Route 3. Nor is it clear from the updated filings what (2) has informed this choice and what remaining Inuit concerns there are related to the routing of the North Railway.	included within the NIRB review, which has involved substantial community engagement. Baffinland has also conducted additional community engagement outside of the formal NIRB process. Water-related feedback is presented in Appendix 1.			QJA-26.1	Resolved	Baffinland has provided in Attachment 1 to its November 2021 TC Comments Response a list of issues and questions (and some responses) to water-related issues flagged by Inuti in engagement meetings with Baffinland, as well as its of what Baffinland, as well as its of what Baffinland considers to be its water-related commitments in relation to the Phase 2 Project.	
112 QIA	QIA-26.2	190502 2AM-MRY1325 Amend2 Applic Att2-Applic-ILAE 190502 2AM-MRY1325 Amend2 Applic-Main-Rpt-ILAE Nunavut Water Board SIGs 190502 2AM-MRY1325 Amend2 Applic-Att-3.2-SIG-Concord-ILAE Nunavut Water Board. 2004. "Draft Guide for Community Consultation and Public Participation". [NWB FTP Site] 190823-2AM-MRY1325-mrp2-190M-726-Norment-Responses FEIS Addendum TSD 04 Public Consultation	inuit engagement	As required by the SIGs, please list all Inuit concerns to date associated with water and how BIMC intends to mitigate those concerns.				A summary of Inuit concerns expressed to date and Baffinland's commitments regarding water from the NIRR review process is presented as Appendix 1.			QIA-26.2	Path forward identified	- It is not clear what commitments Baffinland has made apply to which water-related issues it identifies in Appendix 1, Attachment 1, nor is it clear whether Baffinland has engaged inuit on the adequacy of its commitments as against their stated concerns. Responsiveness to Inuit concerns means conducting verification exercises where the solution is compared to the problem by the Proponent in consultation with the affected parties. It is not clear whether this has occurred or not At the technical meeting, QIA requested that Baffinland: 1. Identify which commitments it has made apply to which issue raised by Inuit; 2. Identify its plans to re-engage inuit for the purposes of verifying the "fit" of committed to measures to address their concerns; 3. Update the NWB prior to the public hearing on the status of these engagement efforts Baffinland has committed to prepare materials in advance of freshwater focused meetings with communities that address the requested information by the QJA, and report back to the NWB on the results of	
113 QIA	QIA-26.2a			Baffinland to provide an updated list of all Inuit concerns to date associated with water, including from the Tusaqtavut reports for the five impacted communities, Inuit submissions on the public record for the NIRB Phase 2 process, and from the NIRB hearing transcripts.		Supplemental		A summary of Inuit concerns expressed to date and Baffinland's commitments regarding water from the NIRB review process is presented as Appendix 1. The concerns raised in the Tusaqtavut studies were consistent with those documented during the NIRB review.			QJA-26.2a	Path forward identified	- Baffinland in November 2021 provided an Attachment 1 to Appendix I listing a number of Inuit concerns related to water. Baffinland has also included in this list issues raised during Tusaqtavut with Pond Inlet, Hall Beach and Igloolik, but has not updated this to include Issues flagged in the Arctic Bay or Clyde River Tusaqtavut reports. It is unclear why not, given that this information has been on the public record since August 2021. - Baffinland has now committed to update its record of Inuit concerns related to water to include all impact pathways identified by Inuit in the Tusaqtavut and any other studies conducted with all five communities, prior to the public hearing.	
114 QIA	QIA-26.3	Same as above	inuit engagement	Please describe any forthcoming opportunities provided by BIMC for Inuit communities to provide comment and raise their concerns on Water License Amendment changes.				The NIRB review has and continues to provide Inuit communities with the opportunity to comment on the Phase 2 Proposal including water. The NWB has invited Inuit community representatives to attend the November 12, 2021 technical meetings. If additional focused engagement is requested at that time Baffinland will work with the community representatives to schedule additional meetings related to water. Baffinland notes that ongoing work to collect IQ from the communities to develop programs agreed to under the Inuit Certainty Agreement is ongoing. QIA is generally leading engagement, however, there are opportunities for Baffinland to attend in person IQ sessions if participants are comfortable. Baffinland is open to additional engagement opportunities with Inuit communities but the volume of already planned and relevant engagement activities related to water is substantial, and will look directly to communities to gauge their desire for additional engagement.			QIA-26.3	Path forward identified	Baffinland is now committed to engaging Pond Inlet and Igloolik in supplemental meetings on freshwater and fishing issues, as discussed above. OlA encourages Baffinland to engage all impacted communities in such discussions.	

Ite	m Agency		Document Reference	Subject Area	Intervenor July 2019	Baffinland's Aug 2019 Response	Intervenor's		Baffinland's November 4, 2021 Response	Intervenor Nov 12, 2021 Presentations	Baffinland Response to Nov 12, 2021	ID#2	Status of Resolution	Intervenor Comment	Commitments
No).	Comment			Recommendation/Request		October 2021	Recommendation /Request			Presentations		(Dec 16, 2021)	(Dec 16, 2021)	
115	QIA	ID# QIA-26.4	Same as above	Inuit	Baffinland commit to expedite work with QIA and		Status Update		Baffinland agrees to this commitment. Baffinland			QIA-26.4	Path forward identified	- In its November 2021 submission,	
				engagement	Inuit communities to identify additional water-				has funded the QIA-led freshwater IQ studies					Baffinland committed to	
					related values data collection, monitoring,				currently underway. Additionally, the QIA will be					"incorporating Inuit Objectives,	
					thresholds of acceptable change, and adaptive management mechanisms.				working with the communities to develop Inuit Objectives, Indicators, Thresholds and Responses					Indicators, Thresholds and Responses (OITRs) into its water-related	
					management methanisms.				(OITRs) that Baffinland has committed to					management plans."	
									incorporating into its water-related management					- Ongoing work with communities,	
									plans.					including QIA's forthcoming IQ Water	
									Commitment: Baffinland commits to					Values Study with Pond Inlet (funded by Baffinland) and other steps, is	
									incorporating Inuit Objectives, Indicators, Thresholds and Responses (OITRs) into its water-					required to develop these Inuit OITRs	
									related management plans.					and confirm that Baffinland will	
									, i					incorporate all of them into its water-	
														related management plans.	
116	QIA	QIA-26.5	Same as above	Inuit engagement	Baffinland to provide more information on remaining Inuit concerns with the proposed Route		Supplemental		Baffinland maintains that questions on the routing of the North Railway are outside the scope of the			QIA-26.5	Path forward identified	- Baffinland is planning to carry out a targeted discussion with Pond Inlet	
				engagement	3 for the Northern Railway, how IQ informed				NWB review. This question has already been					and Igloolik to discuss Phase 2 water	
					Baffinland's move to prefer Route 3, and what				discussed in detail and is being addressed in the					related mitigation and monitoring	
					form of verification of Route 3 as a preferred				NIRB review.					plans, and has committed to including	
					route for Inuit has been completed by Baffinland.									a specific question about Inuit	
														perspectives on Route 3 impacts on water, fish, and water related rights	
														including magnitude and	
														manageability on the agenda for	
														those meetings, and report the	
														results back to the NWB prior to the	
														Public Hearing QIA encourages Baffinland to	
														engage all impacted communities in	
117	QIA	QIA-27.1		IQ	The Proponent is requested to commit to		Unresolved	Relevant activities related to this topic that have				QIA-27.1	Path forward identified	- Work is ongoing to identify	
			 190506 2AM-MRY1325 Amend2 Applic Att-22-SWAEMP- 		expedite work with affected communities to develop and implement baseline data collection			occurred in the interim include:	regarding the proposed water withdrawal					additional baseline data collection	
			ILAE		including on the ground studies for Inuit Water			 QIA has completed an additional Tusaqtavut IQ study with the communities of Arctic Bay and 						requirements for IQ for freshwater and fish values, including through the	
			• 190502 2AM-MRY1325		Values, Water Use, and identification of			Clyde River, and filed this work on the public	information. Impacts to Inuit water use that are					forthcoming IQ Water Values Study	
			Amend2 Applic-Main-Rpt-ILAE		Waterbodies of heightened importance.				identified can be addressed by the new Water					with Pond Inlet, funded by Baffinland.	
			• 190502 2AM-MRY1325					work was funded by Baffinland.	Compensation Agreement.					- QIA's disagreement on the value of	
			Amend2 Applic-Att-23-FWSWMP Part1-ILAE					QIA is working with the community of Pond						"on the land" data collection with	
			• 190502 2AM-MRY1325					Inlet to complete a study on IQ on and use of freshwater resources in the area impacted by						Inuit at key infrastructure locations prior to construction is taken up	
			Amend2 Applic-Att-27-AEMP-					the Mary River Project. This work has been						further in relation to TC #27.4.	
			Part1-ILAE					funded by Baffinland. QIA will be available to						- QIA is also not ready to agree that	
			Knight Piésold. November					provide an update on the status of this work						"Impacts to Inuit water use that are	
			2018. "Mary River Project –					and its implications for the water licensing						identified can be addressed by the	
			Fresh Waterbodies with Unique Value and/or Cultural					process at the technical meeting on November 12, 2021.						new Water Compensation Agreement", as asserted by	
			Significance to Inuit". [filed on					Baffinland provides information in its updated						Baffinland in its November 2021	
			the NIRB Mary River Project					Water Licence filings for each proposed water						submission. The new WCA has yet to	
			Phase 2 EA public record by					withdrawal location. However, it is not clear						be finalized so such assertions remain	
			Baffinland in response to Health					what IQ and Inuit perspectives has informed this						speculative.	
			Canada Technical Comments, as HC 02 Attachment 2 from the					work. It is important to determine whether any of the proposed water withdrawal sources and							
			Advance Technical Comment					amounts are an issue from an Inuit water use							
			Submission (Jan 2019)].					and values perspective. For example, at pg. 22							
			• 190823-2AM-MRY1325-mrp2-					of 25 of Part 1 of the Water Withdrawal Plan,							
			BIM-Tech-Comment-Responses					Baffinland notes "Regarding the extraction of							
			Appendix C Water Take Assessment IN FEIS Addendum					water from lakes during the open water season,							
			TSD 13 Surface Water					the FEIS identified the reduction in lake outflow of 10% as a commonly applied threshold value							
			Assessment, Pages 113 to 124 of					(FEIS Volume 7, Page 19; Baffinland, 2012)." It is							
118	QIA	QIA-27.2	Same as above	IQ	The Proponent is requested to provide further		Unresolved	See QIA's updated comment above, relevant to			-	QIA-27.2	Path forward identified	- Work to improve the role of IQ in	
					detail on:		1	both QIA-27.1 and QIA-27.2.	Appendix 2 of this response is a report that					water monitoring and management is	
					a. How IQ related to water use and water values was recorded from Inuit community members		1		Baffinland provided previously to the QIA in support of Water Compensation Agreement					ongoing through ICA Implementation and WCA negotiation activities. QIA	
					during any IQ data collection for the Project.		1		negotiations for Phase 2. This report summarized					and Baffinland will update the NWB	
				1	b. How IQ related to water use and water values				the information collected during Baffinland's					on progress prior to or at the Public	
					will be integrated into the Project management]		earlier IQ studies and identifies the 20 questions					Hearing.	
					systems prior to conclusion of the Water]		used to collect this information.					1	
					Licensing process. c. How IQ related to water use and water values]		An important distinction of Baffinland's earlier IQ study was that information was sought on Inuit					1	
					will be integrated into the Project management		1		knowledge and land use within each community's					1	
				1	systems if the Phase 2 amendment is approved.				entire land use area. This helped Baffinland					1	
]		understand the relative importance of different					1	
]		areas to Inuit land use, a perspective not gained					1	
]		by studies that focus on a specific area. Response to b and c.					1	
]		Baffinland has provided the QIA with funding to					1	
]		support the QIA's supplemental IQ studies,					1	
]		described in other responses. This information					1	
							1		will be used to inform a new Water Compensation					1	
]		Agreement, and will also be used to develop Inuit					1	
							1		Objectives, Indicators, Thresholds and Responses (OITRs) that will be integrated into Baffinland's					1	
				1					management plans. For almost two years,					1	
]		Baffinland has been revising and incorporating the					1	
]		QIA's feedback on its draft Phase 2 management					1	
							1		plans. Most of the management plans attached to					1	
							1		the Application have incorporated at least one round of QIA comments. The AEMP and SWAEMP					1	
							l		have received multiple rounds of review by the					1	

Item Agency Technical Comment	Document Reference S	iubject Area Intervenor July 2019 Recommendation/Request	Baffinland's Aug 2019 Response	Intervenor's October 2021	Intervenor's October 25, 2021 Updated Recommendation /Request	Baffinland's November 4, 2021 Response	Intervenor Nov 12, 2021 Presentations	Baffinland Response to Nov 12, 2021 Presentations	ID#2	Status of Resolution (Dec 16, 2021)	Intervenor Comment (Dec 16, 2021)	Commitments
119 QIA QIA-27.3 Sami	ne as above IQ	Baffinland is requested to update whether it has identified any waterbodies of heightened importance to Inuit in the Regional Study Area for the Mary River Project, and if so: i. provide details about those waterbodies and why they are considered of heightened importance to Inuit, and ii. identify what additional monitoring and mitigation measures Baffinland commits to put in place around waterbodies of heighted importance. Data sources that are available to Baffinland include its engagement with Inuit parties, the results of the Tusaqtavut studies with all five impacted communities, through oral submissions at the technical meetings and hearings for the Mary River Phase 2 Project, and submissions on the public record by Inuit parties.		Status Update Supplemental		Baffinland has identified waterbodies of heightened importance within the Regional Study Area is described by KP (2018) in Appendix 2. This includes the Robertson River / Qurluktuk located northwest of Milne Port, the Tugaat River located east of Milne Port, and the Islaulit River at the head of Tay Sound. Each of these waterbodies are used to harvest sea-run arctic char. Each of these waterbodies are removed from the Project. Aquatic studies were planned at each of these three waterbodies in 2021 in fulfillment of Project Certificate condition 48a. The 2021 field programs were successfully completed in Qurluktuk and Tugaat systems, but the studies in Islaulit River were not completed as proposed due to inclement weather preventing access. Results from these studies will be shared with the MHTO. The results of these studies and the QIA's Culture, Resources and Land Use (CRLU) studies currently underway could yield additional waterbodies of heightened importance and will help to identify potential impacts and mitigation measures. The CRLU studies are the assumed responsibility of QIA, with funding provided by Baffinland.			QJA-27.3	Path forward identified	-Baffinland and QIA commit to include a term that relates to supplemental IQ collection relating to Waterbodies of Heightened Importance in the Water Compensation Agreement, in a manner consistent with the Inuit Certainty Agreement. -Baffinland and QIA commit to establishing a process for identifying Waterbodies of Heighted Importance, including werfication, monitoring and adaptive management to be applied at each such water body under the Water Compensation Agreement, in a manner consistent with the Inuit Certainty Agreement. -The new WCA has yet to be completed. The QIA-led IQ Water Values Study with Pond Inlet will identify preliminary Waterbodies of Heightened Importance and this information will be placed on the NWB public record prior to the Public	
120 QJA QJA-27.4 Sami	ne as above IQ	Baffinland to identify whether and how IQ and Inuit perspectives were integrated into the siting of quarries, laydown areas, water withdrawal points and amounts, and water crossings associated with the Phase 2 construction and operations, including provision of evidence that Inuit were asked about their concerns and values related to each location currently proposed for each of the above infrastructure-related physical works and activities noted in this Technical Comment. a. In relation to water withdrawals as identified in Baffinland's updated filings, including dust suppression water sources, Baffinland is requested to identify what role Inuit and IQ played in site characterization, what have Inuit said about where it is appropriate to withdraw water from and how much, where, when and under what conditions it is acceptable to do so, and how this has been included in the updated filings.		Supplemental		The siting of the railway is first and foremost influenced by its proximity to the Tote Road (to minimize the overall footprint), also considering geotechnical conditions, funtifeedback on overall routing, and the absence of archaeological sites of high cultural significance. Bridge and other crossing locations are dictated in large part by permafrost conditions and the rail routing, and repositioning crossings to avoid areas results in a cascade of changes in the alignment in either direction. Because of grade limitations and turning radius constraints, the routing of a railway is much more complicated and constrained than a road. The construction of crossings for wildlife and snowmobiles, for example, has resulted in a wider embankment with a larger footprint and longer culverts that can present an issue for fish passage. There are a number of trade-offs that need to be balanced in siting the railway. Baffinland has spoken to these constraints in both the Phase 2 EIS documentation and at technical meetings and hearings. Routing alternatives including Inuit feedback on routing have been covered extensively in the NIRB review, and such alternatives are considered at the environmental assessment stage, not during licensing. More minor features such as quarries and laydown areas were sited based on the availability			QJA-27.4	Unresolved	Hearing. At the technical meeting, QIA asked Baffinland if it was committed to conduct further on-territory IQ data collection/ground truthing work for all locations with physical works and activities required by the Phase 2 Project, and reporting on any changes to site-specific monitoring and management, prior to beginning construction, should the Project proceed. Baffinland is not currently committed to conduct additional on the land data collection with inuit at proposed laydown, water crossings, water withdrawal, or quarry sites prior to construction, suggesting it is "not practical" in its November 2021 submission. The absence of the ability for inuit to observe these locations while discussing Baffinland's proposed usage and alterations to the sites is problematic. IQ is most valuable through direct observation on the land, and the absence of this limits the effectiveness of site location, routing, management and monitoring plan development.	
121 QIA QIA-27.5 Sami	ne as above (Q	Baffinland to identify any evidence it has of Inuit verification of fish bearing vs. non fish-bearing waterbodies, and marginal vs. important habitat, as presented by Baffinland in its updated Water Licence filings. a. Baffinland to identify what role IQ and Inuit played in the North Railway Freshwater Habitat Survey: 2018.		Supplemental		of suitable rock or ground, proximity to the IQ collected by Baffinland identified the Phillips Creek watershed, mine site area lakes and the upper part of the Ravn River as containing only land-locked populations of artic char. Important sea-run lakes that are outside of the immediate Project footprint (i.e., Qurluktuk, Tugaat and Ikaluit) were also identified. Our understanding of what Inuit consider important vs. unimportant fish habitat mainly relates to waterbodies containing sea-run char (important) vs. land-locked char (less important but not unimportant). Inuit were not involved in the 2018 fisheries surveys unfortunately. However, Inuit participated in the 2019 and 2021 field program. Baffinland is leased to say that one of the Inuit field assistants involved in the 2021 field program is now working fulltime based in Winnipeg for the consultancy that completed the fisheries work.			QJA-27.5	Path forward identified	- QIA and Baffinland are engaging in - At the technical meeting, QIA asked Baffinland if it was willing to commit to update its baseline characterization of fish habitat with Inuit Qaujimajatuqangit, vetted with Inuit parties. Baffinland indicated it was not willing to make that commitment. - Since then, Baffinland has indicated that it will at its proposed meetings with Pond Inlet and Igloolik, request feedback from Inuit participants in the meetings on its baseline characterization, and specifically ask whether any participants have further relevant IQ to share on this topic, and it will consider any additional evidence flied by QIA on this topic as a result of ongoing studies related to ICA implementation. - QIA requests that further discussion occurs between Baffinland, QIA, and all impacted communities, on the role of IQ in baseline characterization of fish habitat, and what needs to be done moving forward to fill gaps in the data available on this topic, prior to the Public Hearing.	

ı	tem Ag No.	gency Technical Comment ID#	Document Reference	Subject Area	Intervenor July 2019 Recommendation/Request	Baffinland's Aug 2019 Response	Intervenor's October 2021 Status Update	Intervenor's October 25, 2021 Updated Recommendation /Request	Baffinland's November 4, 2021 Response Intervenor Nov 12, 2021 Presentations	Baffinland Response to Nov 12, 2021 Presentations	ID#2	Status of Resolution (Dec 16, 2021)	Intervenor Comment Commitments (Dec 16, 2021)
12	2 QIA	Q(A-28.1	Same as above	iα	The Proponent, in consultation with QIA and the affected Inuit communities, to work with Inuit and provide funding to develop additions to the current water management and monitoring system that include Inuit identified indicators or thresholds for use, water quality, quantity or flow, including any experiential indicators identified by Inuit as important.		Unresolved	QIA for the ongoing Culture, Resources and Land Use (CRLU) Assessment, using data from the five communities' Tusaqtavut reports, Baffinland's FEIS Addendum, NIRB transcripts, and Inuit parties' submissions on the public	Tusaqtavut studies during the NIRB review process. Baffinland has provided funding to the QIA1 to complete freshwater-specific IQ studies. The intent of the study was to gather information from Inuit about where and how to monitor water, and what actions should be taken to protect the freshwater environment. It is Baffinland's understanding this work has since been completed by the QIA with the community of Pond Inlet in October 2021. A verification workshop on this study will be held in late November 2021. It is expected that a final report will be completed in December 2021. Study findings will be integrated into the CRLU assessment. Findings from this Study may be used to further inform mitigation, monitoring, and compensation, and adaptive management measures in Baffinland's management plans.		QIA-28.1	Path forward identified	- Baffinland has provided funding to QIA for ICA Implementation tasks associated with developing additions to the current water management and monitoring system that include Inuit Objectives, Indicators, Thresholds and Responses. - This work is ongoing and yet to be adopted into the Project monitoring and management system.
122	3 QIA	QIA-28.2	Same as above	ΙQ	The Proponent, in consultation with QIA and the affected Inuit communities, to identify ways in which the ongoing assessment of Project Effects on Inuit Water Use and water quality, quantity, and flow on inuit Owned Lands can be conducted through an Inuit/IQ enriched lens.		Unresolved	Same as above	To date, Baffinland has undertaken extensive work to collect IQ on freshwater resource. These efforts, and the outcomes of IQ studies is documented in TSD-05. The QIA's own Tusaqtavut studies were reviewed and considered during the course of the NIRB review. Additionally, as the QIA is aware, Baffinland has provided funding to the QIA to complete freshwater-specific IQ studies. The intent of the study was to gather information from Inuit about where and how to monitor water, and what actions should be taken to protect the freshwater environment. It is Baffinland's understanding this work has since been completed by the QIA with the community of Fond Inlet in October 2021. A verification workshop on this study will be held in late November 2021. It is expected that a final report will be completed in December 2021. Study findings will be integrated into the CRLU assessment. Findings from this Study may be used to inform mitigation, monitoring, and compensation, and adaptive management measures. Any modifications made to the Project as a result of this Study will be reflected in the Adaptive Management Plan and sub-plans.		QJA-28.2	Path forward identified	- Baffinland has provided funding to OJA for ICA Implementation tasks associated with developing additions to the current water management and monitoring system that include Inuit Objectives, Indicators, Thresholds and Responses. - This work is ongoing and yet to be adopted into the Project monitoring and management system.
122	4 QIA	QIAH28.3	Same as above	ΙQ	Baffinland to provide a supplemental filing prior to the technical meeting, identifying all existing and potential Phase 2 impact pathways from the Mary River Project on Inuit water values and associated Inuit rights, and what Baffinland mitigation and monitoring commitments should be applied to those impact pathways. All of the data sources on the NIRB process public record, including those referred to above, should be considered by Baffinland in developing this list of impact pathways. a. In addition, Baffinland should provide any evidence it has of inuit verification of Baffinland's findings regarding likely Phase 2 impacts on water.		Supplemental		Baffinland has provided impact pathway breakdowns for all valued components identified in the Tusaqtavt Study, which includes fish and freshwater (refer to Appendix 3). These breakdowns have been considered with the development of the impact pathway database. Additionally, as the QIA is aware, Baffinland has provided funding to the QIA to complete freshwater-specific IQ studies. As QIA outlined, the intent of the study was to gather information from Inuit about where and how to monitor water, and what actions should be taken to protect the freshwater environment. It is Baffinland's understanding this work has since been completed by the QIA with the community of Pond Inlet in October 2021. A verification workshop on this study will be held in late November 2021. It is expected that a final report will be completed in December 2021.		QIA#28.3	Path forward identified	In post-technical meeting conversations with Baffinland, QIA requested that Baffinland identify in a follow-up submission what verification it has conducted with Inuit and the results re: the accuracy of Baffinland's estimated impacts on water, fish and associated Inuit rights; and the adequacy of mitigation identified in its "effects assessment summary table (fish and freshwater)" to reduce impacts on water, fish and associated Inuit rights. - Baffinland has committed to present a summary table (fish and freshwater)" to reduce impacts on water, fish and associated Inuit rights. - Baffinland has committed to present a summary of its estimated impacts on water, fish and associated Inuit rights and mitigations to Pond Inlet and Igloolik as an agenda item during the meetings good secribled above. Baffinland will report back to the NWB on the outcomes of these meetings prior to the Public Hearing. - QIA encourages Baffinland to engage all impacted communities in such discussions. - Baffinland has also committed to update its record of inuit concerns related to water to include all impact pathways identified by inuit in the fusagatavut and any other studies
12	5 QIA	QIA-29.1	190502 2AM-MRY1325 Amend2 Applic-Main-Rpt-ILAE 190506 2AM-MRY1325 Amend2 Applic Att-22-SWAEMP-ILAE 190823-2AM-MRY1325-mrp2-BIMT-Tech-Comment-Responses 190513-08MN053-BIMC Draft Mgmt Plans-Snow Mgmt Plan		Describe what IQ was collected during these workshops related to Snow Management and how it informed and or changed the Snow Management Plan.		Unresolved		Snow stockpiles were visited by participants during the 2019 Community Risk Workshops. Snow management was identified as a concern. Specifically, runofif from snow stockpiles during melt periods, and concern about impacts of dust (e.g., along the side of the road; when snow melts, there is a lot of sediment accumulation) were among the issues recorded as concerns. Recommended mitigation included: - Clear snow - Keep culverts functional - Monitor streams Each of these mitigation measures form part of the Snow Management Plan.		QJA-29.1	Resolved	Tusaqtavut and any other studies QIA is satisfied by Baffinland's response included in their November 4, 2021 submission.

Iter	n Agenc	y Technical Comment	Document Reference	Subject Area	•	Baffinland's Aug 2019 Response	Intervenor's October 2021	Intervenor's October 25, 2021 Updated Recommendation /Request	Baffinland's November 4, 2021 Response Intervenor Nov 12, 2021 Presentations		ID#2	Status of Resolution	Intervenor Comment Commitments
NO		ID#			Recommendation/Request		Status Update	Recommendation / Request		Presentations		(Dec 16, 2021)	(Dec 16, 2021)
126	QIA	QIA-29.2	Same as above	IQ	Describe any future opportunities for IQ to inform revisions to the Snow Management Plan, and how consultation with QIA and the affected Inuit communities has informed these revisions.		Unresolved		The Snow Management Plan is not currently required under the Water Licence, and was developed at the QIA's request, to address acknowledged runoff quality issues associated with snow stockpiles. The Snow Management Plan in its current form (with adaptive management and a trigger action response plan) was first provided to the QIA for review in mid-2002, and one round of comments have been incorporated in the latest version		QIA-29.2	Resolved	QJA is satisfied by Baffinland's response included in their November 4, 2021 submission.
127	QIA	QIA-30.1	• 190502 2AM-MRY1325 Amend2 Applic-Main-Rpt-ILAE	IQ	Describe how IQ has informed aquatic monitoring programs and recent revisions to relevant		QIA#30.1 to 30.4 Unresolved	Relevant activities related to this topic that have occurred in the interim include:	Objectives, Indicators, Thresholds and Responses		Q/A-30.1	Path forward identified	- Baffinland has agreed to incorporate Inuit Objectives, Indicators,
			190502 2AM-MRY1335 Amend2 Applic-Att-27-AEMP 190502 2AM-MRY1325 Amend2 Applic-Att-28-EPP 190823-2AM-MRY1325 BIM-Tech-Comment-Responses		monitoring and management plans.			This work, funded by Baffinland, will be an important contribution to TC 30.2 above. QIA will be prepared to provide an update on the implications of and timing for completion of this work at the forthcoming technical meeting. QIA notes that Section 6.0 through 6.3 of the Main Report ("General and Aquatic Effects Monitoring – Part 1") does not refer at all to the linuit Stewardship Plan, Inuit-led Water quality monitoring, or the Inuit-led Culture, Resources and Land Use Monitoring Program. This seems like a major gap in the description of the	(OITRs) into its management plans including the AEMP as per the QIA's request. This process is still ongoing, and Baffinland awaits additional Inuit input into these plans. Baffinland shared a draft copy of the amendment application on April 14, 2021. QIA did not provide any comments before the draft was finalized and submitted on September 17, 2021. Baffinland suggests that QIA is best positioned to describe how inuit led monitoring programs to be led by QIA should be considered by the NWB. Baffinland will work with the QIA to ensure these monitoring programs are understood and represented in an amended Water License prior to the Public Hearing.				Thresholds and Responses (OITRS) into its management plans including the AEMP as per the QIA's request. This process is still ongoing. - Baffinland has also committed to fund an Inuit-led CRU Monitoring Program and take direction on incorporation of IQ and Inuit perspectives into Project monitoring and management from an independent Inuit Committee. Should these commitments be implemented, this will substantially improve the role of Inuit and IQ in Project monitoring and management. - QIA will provide NWB with specific recommendations for integration of IQ and Inuit-led monitoring conditions that capture Baffinland's commitments into revisions to the Water Licence, should Phase 2 proceed.
128	QIA	QIA-30.2	Same as above	IQ	Commit to working with QIA and the affected Inuit communities to identify opportunities for Water-specific IQ studies and monitoring programs including how Inuit monitors and Inuit observational criteria will be used in Project- related monitoring activities.				This is a comment provided on October 25, 2019 that wasn't responded to previously. Baffinland has made this commitment through the ICA, and the QIA is actively working to engage the communities on water-specific IQ studies and monitoring programs.		QIA-30.2	Path forward identified	Baffinland has committed through the ICA to support additional IQ studies and ongoing data collection through an inuit-led CRLU Monitoring Program for the Mary River Project. CJA is working to engage Inuit on these studies and on how these programs will look.
129	QIA	QIA-30.3	Same as above	IQ	Provide further information on what role the Proponent is committed to having Inuit play in developing priority SNP site locations and related monitoring activities				Baffinland believes the Inuit Stewardship Plan under the ICA provides the mechanism to engage Inuit on monitoring. The SNP program, however, is dictated by the NWR		QIA-30.3	Resolved	QIA is satisfied by Baffinland's response included in their November 4, 2021 submission.
130	QIA		Same as above	iq.	Provide further information on how data collected by Inuit and through water monitoring overall will be integrated into the Proponent's committed to Culture, Resources, and Land Use (CRLU) Monitoring Program for the Project, and what role is envisioned for the Proponent's committed to Inuit Committee/Inuit Panel for the Project, in relation to water planning, effects assessment, monitoring and adaptive management.		Supolemental		Baffinland believes the process for accomplishing this has been outlined in the Inuit Certainty Agreement that has been negotiated with the QIA. Baffinland is aware that the QIA has made good progress on the CRLU study and monitoring program.		QIA-30.4	Resolved	- Post technical meeting, QIA met with Baffinland and asked if Baffinland commits to provide an annual report to the NWB, verified by the Inuit Committee and shared with inuit communities, identifying its level of logistical and financial support for Inuit-led, IC-enriched monitoring activities, and how it reacted to or is planning to react to issues flagged by these Inuit-led monitoring activities, including community-based monitoring and monitoring under the Inuit Stewardship Plan. - Baffinland has since committed to "submit as tandalone annual adaptive management monitoring report, which will include a description of what steps Baffinland took to incorporate IQ in all monitoring, mitigation and adaptive management measures for the reporting year. Baffinland commits to sharing this report with communities of Pond Inlet, Arctic Bay, Igloulik, Clyde River and Sanirajak at the time of submission to the NWB. This report will be verified by the Inuit Committee in the manner determined by its terms of reference which will - Post technical meeting, Baffinland
131	QIA	QIA-30.5	Same as above	IQ .	Baffinland to identify whether it is formally committed to support the development of an Inuit-led water quality monitoring program in relation to the Mary River Project. a. If so, Baffinland is asked to provide more information on how it envisions the Inuit-led water quality monitoring program will work alongside Baffinland's current water quality monitoring program, what level of financial commitment Baffinland has on an annual basis for this program, and what discussions Baffinland has initiated with Inuit about development and implementation of this Inuit-led water quality monitoring program.		Supplemental		Under Phase 2, an Inuit-led water quality monitoring program is covered in Section 17.1.3 of Schedule 17 of the ICA. Baffinland's understanding is that it will be part of the CRLU monitoring program administered under the Inuit Stewardship Plan, which QIA has sole responsibility for developing and implementing. Baffinland will be making fixed annual IIBA implementation payments to QIA to cover the cost of the CRLU monitoring program, among other things. Baffinland understands the QIA has been actively engaging Inuit in freshwater IQ studies, and Baffinland anticlapates that the outcomes of that work to contribute to the Inuit led water quality monitoring program for Phase 2. Further discussions around alignment with Baffinland-led programs will occur as QIA is prepared to engage.		QIA-30.5	Resolved	- Post technical meeting, Baffinland has committed to "work with the QIA to develop an IQ-led water quality monitoring plan, which will be implemented through the QIA's CRLU Monitoring Program. Once finalized the program will be submitted to the NWB for reference".

lter No	Agency	/ Technical Comment ID#	Document Reference	Subject Area Intervenor July 2019 Recommendation/Request	Baffinland's Aug 2019 Response Intervenor's October 2021 Status Update	Intervenor's October 25, 2021 Updated Recommendation /Request Response Intervenor's November 4, 2021 Response Intervenor's November 4,	ervenor Nov 12, 2021 Presentations Baffinland Response to Nov 12, 2021 Presentations	Status of Resolution (Dec 16, 2021)	Intervenor Comment Commitments (Dec 16, 2021)
132	QIA	QIA-31.1	NiRB document 210203- 08MN053-QIA Inuit Certainty Agreement-IA1E	IQ Baffinland to provide for its existing monitoring programs in place, either the average annual costs of its overall monitoring program and the proportion of that which goes to Inuit-led, IQ-driven monitoring, at present; or, if Baffinland deems this financial data to be proprietary; the proportion of average annual monitoring expenditures that go to technical, scientific monitoring works and activities, and multi-led, IQ-driven monitoring works and activities, respectively, at present.	New New	Baffinland's position is that there is already a path forward for resolution of this item through the ICA for Phase 2. This information is not required to evaluate the Updated Water Licence Application.	QJA-31.1	Resolved	QIA will work with Baffinland to ensure that the Inuit Stewardship Plan is adequately resourced.
133	QIA	QIA-31.2	Same as above	IQ Baffinland to provide its expectations for what proportion of its monitoring expenditures will be for technical, scientific monitoring works and activities, and Inuit-ted, IQ-driven monitoring works and activities, respectively, should Phase 2 proceed, given new committed-to programs.	New	As described in Section 1 of the Inuit Certainty Agreement, Inuit-led monitoring of the Phase 2 Project will be managed under the Inuit Stewardship Plan (ISP), to be authored by QIA. The proportion of technical/scientific monitoring to Inuit-led monitoring initiatives in the future will depend on the scope of activities put forth in the ISP, and while Baffinland will provide input into the development of this plan, and has committed to fund the ISP for the life of the Mary River Project. it would not be appropriate for Baffinland to prescribe the scope of monitoring to be undertaken under the ISP. Baffinland is committed to implementing both technical/scientific monitoring works and activities, as well as inuit-led, IQ-driven monitoring works for the Mary River Project and will continue to work with QIA on these initiatives, however Baffinland considers this to be outside the scope of the NWB process.	QIA-31.2	Resolved	QIA will work with Baffinland to ensure that the Inuit Stewardship Plan is adequately resourced.
134	QIA		210917-2AM-MRY1325-Amend2- Applic-Att-3.2-SIG-Concord-IAAE		New	Alternatives assessment is a key focus of the NIRB review, not water licensing. It should be noted that everything in the public record in the NIRB review process relating to alternatives builds on TSD-01; it is not necessary to update the document.	QIA-32.1	Path forward identified	- Baffinland will request meetings with Pond Inlet and Igloolik to discuss Phase 2 water related mitigation and monitoring plans. Baffinland commits to include an agenda item requesting feedback on Inuit perspectives on Route 3 re impacts on water, fish and water-related rights, and report the results back to the NWB prior to the Public Hearing. - QIA encourages Baffinland to engage all impacted communities in such discussions.
135	QIA	QIA-32.2	Same as above	IQ Baffinland provide an update on the position of Inuit parties in relation to Route 3 to the NWB, and results of all engagement meetings on this topic to date.	New	Alternatives assessment, including rail routing, has been a subject area discussed at length in the NIRB review, and is available on NIRB's public registry.	QIA-32.2	Path forward identified	- Baffinland will request meetings with Pond Inlet and Igloolik to discuss Phase 2 water related mitigation and monitoring plans. Baffinland commits to include an agenda item requesting feedback on inuit perspectives on Route 3 re impacts on water, fish and water-related rights, and report the results back to the NWB prior to the Public Hearing. - QIA encourages Baffinland to engage all impacted communities in such discussions.
136	QIA		210923-2AM-MRY1325- Amend2-Applic-Att-30-ICRP- Ptol/3-IAAE 210923-2AM-MRY1325- Amend2-Applic-Att-30-ICRP- Pt3of3-IAAE	ICRP Baffinland to provide a supplemental filing indicating where it has integrated prior input from QJA and any other Inuit party into revisions to the Interim Closure and Reclamation Plan.	New	Baffinland will provide a supplemental filing (concordance table) with the next revision of the ICRP that identifies how and where the QIA's previous comments on the ICRP have been considered. The next revision of the ICRP and the supplemental filing will be provided before the NWB public hearing. Commitment: A supplemental filing will be provided with the next revision of the ICRP that identifies how and where the QIA's previous comments on the ICRP have been considered.	QIA-33.1	Resolved with commitment	- Baffinland Commitment (November A supplemental filing will be provided with the 2021): A supplemental filing will be next revision of the ICRP that identifies how and provided with the next revision of the where the QLA's previous comments on the ICRP that identifies how and where the QLA's previous comments on the ICRP have been considered.
137	QIA	QIA-33.2	Same as above	ICRP Baffinland to identify whether Inuit parties and IQ have played any role in the development of the residual effects characterization methodology used in Appendix G, and/or have verified the findings in Appendix G.	New	Appendix G includes excerpts from the FEIS, which incorporated IQ and the results of Inuit engagement. The methodology for community-based research undertaken for the FEIS is presented as Appendix 2B, and the public consultation report is Appendix 2C. Collected IQ was presented throughout the various FEIS volumes. This question is not relevant to water licensing.	QIA-33.2	Resolved	QIA is satisfied by Baffinland's response included in their November 4, 2021 submission.
138	QIA	QIA-33.3	Same as above	ICRP Baffinland to identify any plans it has to engage Inuit parties moving forward in the steps outlined in #2 above.	New	The Nunavut Impact Review Board process for the review of the Phase 2 Proposal has provided, and continues to provide opportunities for Inuit to share input on the residual effects characterization methodology and the findings of the environmental assessment.	QIA-33.3	Resolved	QIA is satisfied by Baffinland's response included in their November 4, 2021 submission.
139	QIA		Mary River Project Phase 2 Proposal Updated Application for Amendment No. 2 of Type A Water Licence 2AM-MRY1325 Section 2.5.3 North Railway Stream Diversion page 26 of 66	FAA Application QIA requests involvement in developing habitat features and selecting appropriate habitat compensation both in kind and otherwise as necessary.	New	Commitment: Baffinland will consult with QIA concerning plans for fish habitat offsetting.	QIA-34.1	Resolved with commitment	QIA is satisfied by Baffinland's BIM will consult with QIA concerning plans for response included in their November fish habitat offsetting. 4, 2021 submission.

lt.	em Agen o.	Comment	Document Reference	Subject Area	Intervenor July 2019 Recommendation/Request	Baffinland's Aug 2019 Response	Intervenor's October 2021	Intervenor's October 25, 2021 Updated Recommendation /Request	Baffinland's November 4, 2021 Response	Intervenor Nov 12, 2021 Presentations	Baffinland Response to Nov 12, 2021 Presentations	ID#2	Status of Resolution (Dec 16, 2021)	Intervenor Comment (Dec 16, 2021)	Commitments
140	QIA	ID# QIA-35.1	Attachment 22 Surface Water, Aquatic Ecosystem Management Plan BAF-PH1-830-P16-0026 Phase 2 Proposal Revisions for Review Purposes Only Rev G Section 2.1 Objectives Table 2.1 Objectives and Performance Indicators page 11 of 109	SWAEMP	It is recommended that Baffinland include discharge in the list of performance indicators for the mitigation of potential impacts to water, the protection of aquatic ecosystems and maintaining receiving environment water quality.		Status Update New		Discharge volumes from surface water management ponds are recorded in accordance with Water Licence requirements and this allows for Baffinland or reviewers to determine mass loadings as referenced. Baffinland does not consider discharge volume to be a useful performance indicator as the volumes of effluent discharged from surface water management ponds are a function of the amount of runoff reporting to these facilities, which is largely dependent on precipitation levels which are out of Baffinland's control. The effluent is discharged in accordance with Baffinland's management plans governed under the Water Licence.			QIA-35.1	Unresolved	To resolve these concerns, QIA requests the following: It is recommended that Baffinland include discharge in the list of performance indicators for the mitigation of potential impacts to water, the protection of aquatic ecosystems and maintaining receiving environment water quality.	
141	QIA		Attachment 22 Surface Water, Aquatic Ecosystem Management Plan BAF-PH1-830-P16-0026 Phase 2 Proposal Revisions for Review Purposes Only Rev G Section 2.4.4 Preventative Design Measures for Ground Disturbances. Table 2.4 Comparison of Soil Spoils Volumes with Available Capacities at Borrow Pits and Quarries Page 19 of 109		indicate where additional storage will be provided and the volume of extra storage available in the event that estimates of spoils generated are greater than anticipated or volume of available storage is underestimated.		New		The priority is to place soil spoils in borrow pits along the Tote Road and exhausted quarries adjacent the railway. Section 4.9 of the Updated Application discusses the volumes of soil spoils requiring disposal in relation to the available space in quarries. It is expected that all the soil spoils generated along the railway (estimated to be 1.8 Mm3) can be placed in borrow pits and quarries (available capacity "5.5 Mm3). Therefore there is more than enough capacity available with contingencies. This approach will reduce the use of dedicated disposal sites that would occupy additional land.			QIA-36.1	Resolved	QIA is satisfied by Baffinland's response included in their November 4, 2021 submission.	
142	QIA	QIA-36.2	Same as above	SWAEMP	Clarify if spoils will be stored in such a way as to permit access to promote revegetation at closure.		New		Soil spoils disposal areas will be constructed for closure and will naturally revegetate. Future access will not be required.			QIA-36.2	Resolved	QIA is satisfied by Baffinland's response included in their November	
143	QIA	QIA-37.1	Attachment 22 Surface Water, Aquatic Ecosystem Management Plan BAF-PH1-830-P16-0026 Phase 2 Proposal Revisions for Review Purposes Only Rev G Section 3.3.2 Working Near Waters page 30 of 109 and Section 3.3.4 Quarries page 40 of 109 Section 5.3 Monitoring During Construction page		Baffinland develop and implement a monitoring program for all stages of the project including background, construction and operational monitoring and provide a parameter list that is indicative of all potential parameters of concern.		New		Reference to contractors developing general construction monitoring procedures in no way relinquishes Baffinlandr's responsibility for environmental compliance. Contractors will be required to develop their own procedures and processes to meet the requirements of the Water Licence, legislation, and Baffinlandr's own management plans (which are approved under the Water Licence). The QIA stated, "all components of the aquatic environment monitoring program and Surveillance Network Program (SNP) must be presented for each stage of the project." Not all components of the Project at all stages will form part of the SNP. Temporary construction fronts are an example of this, and why the terminology is included in the management plans. The QIA requested, "Baffinland develop and implement a monitoring program for all stages of the project including background, construction and operational monitoring and provide a parameter list that is indicative of all potential parameters of concern." This monitoring programs. These programs and management plans have been in place since 2013, and thus do not require development.	It is recommended that Baffinland commit to submitting the monitoring plans for these temporary construction fronts 90 days prior to the start of construction for review and approval inclusive of QIA.		QIA-37.1	Resolved with commitment	information sharing regarding construction plans and ad hoc water quality monitoring with QJA environmental monitors. BIM further commits to provide all ad hoc water quality monitoring locations to QIA to	Once Phase 2 construction begins, BIM commits to a weekly information sharing regarding construction plans and ad hoc water quality monitoring with QIA environmental monitors. BIM further commits to provide all ad hoc water quality monitoring locations to QIA to support the QIA's environmental monitor biweekly reporting.
144	QIA	QIA-38.1	Attachment 22 Surface Water, Aquatic Ecosystem Management Plan BAF-PH1-830-P16-0026 Phase 2 Proposal Revisions for Review Purposes Only Rev G Section 3.3.3.2 Fish Protection	Quarry Mgnt Plan	Baffinland clarify the criteria they will use to determine if quarries have the "potential" for acid rock drainage or metal leaching.		New		Thresholds for acid rock drainage and metal leaching are presented in Table 3.1 of the Borrow Pit and Quarry Management Plan (Attachment 26).			Q)A-38.1	Resolved	QIA is satisfied by Baffinland's response included in their November 4, 2021 submission.	
145	QIA	QJA-38.2	Same as above	Borrow Pit and Quarry Mgnt Plan	Baffinland should also describe what measures will be used to prevent and manage ARD/ML at source so that the integrity of vegetation in the 100m buffer is not damaged.		New		The first preventative measure is regular testing of rock in quarries against the ARD/ML testing thresholds in Table 3.1 of the Borrow Pit and Quarry Management Plan (Attachment 26). Base on testing of quarry rock along the railway to date, the likelihood of ARD or ML is low. However small pockets of potentially acid generating or metal leaching rock could still be encountered. This material will be handled in accordance with Section 3.4 of the Borrow Pit and Quarry Management Plan (Attachment 26).	Management Plan, page 20 of 62 Baffinland states, "Uncertain or confirmed PAG material that is present in small quantities (i.e., less than 2,000 BCM of a 10,000 BCM blast) will be tracked as to the location of its final placement." This management strategy does not indicate how ARD/ML at the source will be managed to ensure		QJA-38.2	Resolved with commitment	of uncertain or confirmed PAG material as per Section 3.4 of the Borrow Pit and Quarry management	BIM commits removal of PAG material as per Section 3.4 of the Borrow Pit and Quarry management Plan within 30 days of receipt of third party analytical results. BIM to update Section 3.4 of the Plan accordingly prior to the NWB hearing.
146	QIA	QIA-39.1	Attachment 22 Surface Water, Aquatic Eccosystem Management Plan BAF-PH1-830-P16-0026 Phase 2 Proposal Revisions for Review Purposes Only Rev G Section 5.0 Monitoring Table 5.1 Monitoring Program		It is recommended that the table and monitoring programs be updated to include: A defined period of record that will be used as baseline data to compare with for monitoring programs for Phase 2.		New		Baseline data for monitoring is presented in the FEIS as well as the AEMP. Baffinland has accumulated baseline (pre-rail construction) water quality through implementation of the Tota Road Monitoring Program.	Use of the Tote Road Monitoring program is not	tote road and rail in comparison to project	QIA-39.1	Resolved	QIA is satisfied by Baffinland's response included in their November 4, 2021 submission.	

Iten	Agency	y Technical	Document Reference	Subject Area		Baffinland's Aug 2019 Response	Intervenor's		Baffinland's November 4, 2021 Response	Intervenor Nov 12, 2021 Presentations		ID#2	Status of Resolution	Intervenor Comment	Commitments
No.		Comment ID#			Recommendation/Request		October 2021 Status Update	Recommendation /Request			Presentations		(Dec 16, 2021)	(Dec 16, 2021)	
147	QIA	QIA-39.2	Same as above	SWAEMP	Dates or timelines to determine when each phase is expected to take place to understand how much data will be collected for each phase of the mine. A definition of the "post-construction verification phase" and how it differentiates from the operations phase		New		Baffinland is in Year 7 of operations, and the management plans reflect this. It is not clear what he QIA is requesting in terms of dates or timelines when each phase is expected to take place. The mine is currently operating, and will temporarily enter a combined construction phase (Phase 2 construction) while the mine continues to operate. Baseline water quality monitoring began at the site in 2004 and has been ongoing through implementation of the existing Water Licence SNP program and the various other monitoring programs since 2013. Post-construction verification specifically refers to the period immediately following completion of construction of a given project component (i.e., water crossing).			QIA-39.2	Resolved	QIA is satisfied by Baffinland's response included in their November 4, 2021 submission.	
148	QIA	QIA-39.3	Same as above	SWAEMP	Collection of data for the SNP, NCMP, snow management monitoring, groundwater monitoring, Type B Water Licence Monitoring and AEMP during all four phases of the mine (baseline, construction, post-construction verification and operation)		New		Each of the referenced monitoring programs (SNP, NCMP, snow management monitoring, groundwater monitoring, Type B Water Licence Monitoring and AEMP) are already established and will continue through construction of Phase 2 components of the Project and the Project's entire operation phase, in accordance with Water Licence and Commercial Lease requirements.			QIA-39.3	Resolved with commitment	the AEMP to address QIA's concerns.	BIM confirmed AEMP includes when baseline was collected. Other monitoring programs will not be compared to baseline and will be US/DS comparison to determine project related effects. BIM to update Table 5.1 to indicate mechanisms of comparison.
149	QIA		Attachment 22 Surface Water, Aquatic Ecosystem Management Plan BAF-PH1-830-P16-0026 Phase 2 Proposal Revisions for Review Purposes Only Rev G Section 5.0 Monitoring Table 5.2 Surface Water and Aquatic Ecosystems Trigger Action Response Plan pages 57 through 60 of 109	SWAEMP	Propose more conservative thresholds for their low, moderate and high-risk thresholds. Add fish health measures including fish length, fork length, lesions and injuries into their response-action framework for road operation activities. Add iron and chloride to the response-action framework for road operation activities and add total ammonia nitrogen, nitrate and total nitrogen to the response-action framework for quarry and borrow pit operations activities.		New		low, moderate and high risk thresholds, Baffinland will continue to adhere to Water Licence discharge limits as the moderate risk threshold, an approach requested by the QIA during refinement of these management plans over the past two years. More conservative thresholds are not necessarily constrain construction activities without necessarily providing additional environmental protection. With respect to adding fish health measures to	amalgamating power of fish is important and provides the mine with another line of evidence to help inform their management mitigation options that may be required as a result of dynamic mine conditions. We will address this with Baffinland in 2022. With regards to the inclusion of iron and chloride response-action framework for road operation it is noted that Baffinland has under predicted the distance mine related dust travels. The dust produced by the mine contains concentrations of iron that alters the quality of atmospheric deposition and can impact water quality further from the mine. Therefore, we reiterate the recommendation that Baffinland include iron in the response-action framework for road operation. As noted earlier chloride is a conservative ion that does not break down and even if it is applied as a dust suppressant intermittently it may still build up in the aquatic environment. Myll ew applaad Baffinland in their attempts to find an alternate road suppressant calcium chloride is still being used intermittently, therefore the recommendation to			Unresolved	To resolve these concerns, QIA requests the following: Propose more conservative thresholds for their low, moderate and high-risk thresholds. Add fish health measures including fish length, fork length, lesions and injuries into their response-action framework for road operation activities. Add iron and chloride to the response-action framework for road operation activities and add total ammonia nitrogen, nitrate and total nitrogen to the response-action framework for quarry and borrow pit operations activities.	incorporate NIRG Commitment #201 (fish health monitoring along tote road) into the SWAEMP
150	QJA	QIA-41.1	Attachment 22 Surface Water, Aquatic Ecosystem Management Plan BAF-PH1-830-P16-0026 Phase 2 Proposal Revisions for Review Purposes Only Rev G Section 5.2 Routine Inspections Table 5.3 Routine Inspections and Monitoring Requirements page 61 of 109		QIA requests the aforementioned items be included in the inspection routine or an explanation be provided for their absence.		New		With respect to adding flow meter readings to monitoring under the SWAEMP, effluent discharge volumes are recorded as required by the Water Licence but under the Fresh Water Supply, Sewage and Wastewater Management Plan (not the SWAEMP). Land disturbance and spill kit inspections are covered under the Environmental Protection Plan (Attachment 29).	BIM provided an explanation for the lack of flow meter readings however did not explain why land disturbance and spill kits were missing from routine inspections. It is recommended that BIM provide an explanation for the absence of land disturbance and spill kits from routine inspections.	Routine inspections are covered under the EPP		Resolved	Baffinland has confirmed that the inspection of land disturbance and spill kit is included in the EPP.	
151	QIA		Attachment 22 Surface Water, Aquatic Ecosystem Management Plan BAF-PH1-830-P16-0026 Phase 2 Proposal Revisions for Review Purposes Only Rev G Section 5.4 Monitoring at Project Quarries and Borrow	SWAEMP	Provide the criteria Baffinland utilizes to determine when a berm or other drainage control measure is considered necessary.		New		Selection of the appropriate erosion and sedimen control measure is site-specific and is based on professional judgement. The TARP provides the triggers that prompt a response to take action.			QIA-42.1	Resolved	QIA is astisfied by Baffinland's response included in their November 4, 2021 submission.	
1152	QIA	Q/A-43.1	Attachment 22 Surface Water, Aquatic Ecosystem Management Plan BAF-PH1-830-P16-0026 Phase 2 Proposal Revisions for Review Purposes Only Rev G Section 5.6 Northern Corridor Monitoring Program Figure 5.1 Northern Corridor Monitoring Program Adaptive Management Framework page 66 of 109 Appendix H Northern Corridor Monitoring Program Section 5. TSS Water Quality Criteria and Response-Action Framework page 48 of 52 Figure H.4 TSS Response-		Baffinland propose a more conservative threshold for action with regard to the Northern Corridor Monitoring Program.		New		The existing thresholds in the Northern Corridor Monitoring Program were agreed upon jointly by Baffinland and the QIA.			QJA-43.1	Resolved	QIA is satisfied by Baffinland's response included in their November 4, 2021 submission.	

Item No.	Agenc	y Technical Comment ID#	Document Reference	Subject Area	Intervenor July 2019 Recommendation/Request	Baffinland's Aug 2019 Response	Intervenor's October 2021 Status Update	Intervenor's October 25, 2021 Updated Recommendation /Request	Baffinland's November 4, 2021 Response	Intervenor Nov 12, 2021 Presentations	Baffinland Response to Nov 12, 2021 Presentations	ID#2	Status of Resolution (Dec 16, 2021)	Intervenor Comment (Dec 16, 2021)	Commitments
153	QIA	QIA-44.1	Attachment 22 Surface Water, Aquatic Ecosystem Management Plan BAF-PH1-830-P16-0026 Phase 2 Proposal Revisions for Review Purposes Only Rev G Section 5.7 Fish Passage Monitoring page 67 of 109	SWAEMP	Baffinland include fish health data including fish presence, catch per unit effort, fish length, fork length, lesions and injuries in their adaptive management plan.		New		Baffinland made this commitment to the QIA in the NIRB review process. Commitment No. 20.1 was developed jointly and was agreed upon by both parties: Baffinland collects and reports data on fish presence, catch per unit effort, and fork length from 30-60 crossing sites along the Tote Road annually. Baffinland commits to adding observations regarding physical condition of fish (e.g., lesions, injuries, activity level). Baffinland and QIA will determine an appropriate approach to analysis and development of a metric for monitoring fish health for the 2022 reporting period. The program will be evaluated every three (3) years to determine if monitoring locations may be reduced due to no observations of project related-imparts.	Responses observed in fish represent the amalgamation of water chemistry and exposure to varied stressors throughout their lives. A response framework that incorporates fish is important and provides the mine with another line of evidence to help inform their management mitigation options that may be required as a result of dynamic mine conditions. It is important for this to be presented as part of the current application for review.		QJA-44.1	Resolved with commitment	See NIRB Commitment 201. Baffinland has committed to address this concern in 2022 and include the metric in the next iteration of the plan.	ee commitment for QIA-40.1.
154	QIA	QIA-45.1	Attachment 22 Surface Water, Aquatic Ecosystem Management Plan BAF-PH1-830-P16-0026 Phase 2 Proposal Revisions for Review Purposes Only Rev G Section 5.7 Fish Passage Monitoring page 69 of 109	FAA Application	Request commitment to annual inspections for life of mine.		New		Annual inspections will be conducted by a Professional Fisheries Biologist for five years following installation of the culverts at high risk locations on the North Railway. The need for further monitoring will be determined following the 5-year program based on the monitoring results. This commitment will be incorporated to the draft Fisheries Act Authorization (FAA) scheduled for completion in May 2022 and shared for review and comment.			QIA-45.1	Resolved	QIA is satisfied by Baffinland's response included in their November 4, 2021 submission.	
155	QIA		Surface Water, Aquatic Ecosystem Management Plan BAF-PH1-830-P16-0026 Phase 2 Proposal Rewisions for Review Purposes Only Rev G Appendix C Site Drainage and Monitoring Figures 6.1 and 6.2 pages 108 and 109 of 109 Appendix G Surveillance Network Program Schedule Schedule G.1 – Construction Phase SNP Stations – Milne Port page 23 of 52		Clarify what is considered a significant precipitation event and update maps to ensure all sites are included and have been labelled for evaluation of the SNP monitoring program.		New		The term "significant precipitation event" is specified in the Water Licence but it is not defined. Baffinland interprets this to mean heavy rainfall. With respect to SNP stations MS-C-C and MS-C-D, these SNP stations will disappear once the SDLT-I Pond shown on the figure and approved under Modification Request No. 13 is constructed. These stations will continue to be monitored until the pond is constructed to stations of the control o			Q(A-46.1	Resolved	QIA is satisfied by Baffinland's response included in their November 4, 2021 submission.	
156	QIA	QIA-47.1	Attachment 22 Surface Water, Aquatic Ecosystem Management Plan BAF-PH1-830-P16-0026 Phase 2 Proposal Revisions for Review Purposes Only Rev G Appendix F Environmental Guidelines for Project Water Crossing Repairs and/or Installations Section 4. Water Sampling and Monitoring Frequency Table C-1 – Summary of Water Quality Monitoring Frequency oase 9 of 52.		Baffinland commit to sampling for three years after water crossing construction or disturbance with monitoring during operations considered acceptable.		new		Baffinland will conduct post-construction monitoring as described in the fivinonmental Guidelines for Water crossing Repairs, Installations and Modifications (Appendix F in the SWAEMP), which was developed jointly with and approved by the QIA. The Northern Corridor Monitoring Program will also be ongoing at select crossings. Routine inspections both during construction and operation are specified in the TARP in the SWAEMP, and if visual evidence of erosion or sedimentation is observed, this triggers notification of the Environmental Department, which will undertake sampling, as well as action by the relevant department to mitigate the issue.			QIA-47.1	Unresolved	To resolve these concerns, QIA requests the following: Baffinland commit to sampling for three years after water crossing construction or disturbance with monitoring during operations considered acceptable.	
157	QIA	QIA-48.1	Surface Water, Aquatic Ecosystem Management Plan BAF-PH1-830-16-0026 Phase 2 Proposal Revisions for Review Purposes Only Rev G Appends F Environmental Guidelines for Project Water Crossing Repairs and/or Installations Section 5. Water Quality Action Levels Table C-1 – Water Quality Action Levels page 11 of 52 Section 7. Action Response Framework During Construction		Identify a single exceedance as a trigger to investigate mitigative actions (i.e., sediment control fencing or rip rap placement).		New		The QIA is incorrectly interpreting Section 7 of the Construction Monitoring section in the Environmental Guidelines for Water crossing Repairs, Installations and Modifications. The trigger is 75% of the threshold (i.e., 75% of a maximum increase of 100 mg/L TSS, which is a maximum increase of 107 mg/L TSS, which is a maximum increase of 75 mg/L). This is articulated a different way in Table 5.2 in the SWAEMP the low risk condition is when downstream turbidity and/or TSS are between 75% and 100% of the applicable water quality action level (±25 MTU turbidity and/or +100 mg/L TSS over background).			Q(A-48.1	Resolved	QIA is satisfied by Baffinland's response included in their November 4, 2021 submission.	
158	QIA		Surface Water, Aquatic Ecosystem Management Plan BAF-PH1-830-P16-0026 Phase 2 Proposal Revisions for Review Purposes Only Rev G Appendix G Surveillance Network Program Schedule Schedule 6.3 – Operation Phase SNP Stations – Miline Port page 26 through 30 of 52 Schedule 6.4 – Operation Phase SNP Stations – Miles Pite pages 31 through 38 of 52		Weekly monitoring of water discharge volume from the Mine and Miline Port contaminated snow dumps during freshet and monthly during the remainder of the open water season.		New		Water collected in the landfarm (including snow dump) are controlled discharges. This water is only discharged after testing has shown the effluent is below applicable discharge limits. Due to the intermittent nature of the discharge and pre-discharge testing, weekly testing is not required.			QIA-49.1	Resolved	QIA is satisfied by Baffinland's response included in their November 4, 2021 submission.	
159	QIA	QIA-49.2	Same as above	FWSSWMP	Iron be added to the parameter list for contaminated snow dumps.		New		Hydrocarbon-impacted snow is disposed of in this facility, and not snow containing ore. Therefore, Baffinland proposes the monitoring requirements outlined in Schedule I remain for the landfarm.		BIM does not agree with the addition of iron as a parameter of concern in the snow dumps. This is not what the NWB prescribes in its water licences.	QIA-49.2	Unresolved	To resolve these concerns, QIA requests: Iron be added to the parameter list for contaminated snow dumps.	
160	QIA	QIA-49.3	Same as above	FWSSWMP	Confirm water being transferred between water control ponds is being measured.		New		Discharge volumes are monitored only during final discharge to the receiving environment. There is no regulatory basis for monitoring and reporting effluent volumes transferred between ponds prior to final discharge, and the OLIA's concern is in regard to final discharges to the receiving environment. Baffinland may record the volumes of water being transferred between ponds for its own information.			QIA-49.3	Unresolved	To resolve these concerns, QIA requests: Confirm water being transferred between water control ponds is being measured.	

lte No	m Agency	Technical Comment ID#	Document Reference	Subject Area	Intervenor July 2019 Recommendation/Request	Baffinland's Aug 2019 Response	Intervenor's October 2021 Status Update	Intervenor's October 25, 2021 Updated Recommendation /Request	Baffinland's November 4, 2021 Response	Intervenor Nov 12, 2021 Presentations	Baffinland Response to Nov 12, 2021 Presentations	ID#2	Status of Resolution (Dec 16, 2021)	Intervenor Comment (Dec 16, 2021)	Commitments
161		QIA-49.4	Same as above	FWSSWMP	Increase monitoring of stockpile surface runoff to weekly to confirm compliance.		New		Regarding SNP stations MS-07 (ROM ore stockpile) and MS-10 (future SDLT-1 pond), these ponds are sampled prior to discharge, as well as during discharge, as described in Section 3.5 and on Figure 3.3 of the Fresh Water Supply, Sewage and Wastewater Management Plan (Attachment 23). Weekly sampling would be appropriate if these were flow-through ponds that continuously discharged, but they are controlled discharge ponds. Baffinland's practice of sampling prior to and during discharge, and pausing discharge in a discharge, and pausing discharge in Sampling detects parameters above Internal Discharge Limits (less than the Water Licence Discharge Limits) is highly protective of the environment.		Sampling frequency for SNP stations are indicated in Appendix L. MDMER monitoring frequency is described in Table 5.3.	QIA-49.4	Resolved	QIA is satisfied by Baffinland's response included in their November 4, 2021 submission.	
162		QIA-50.1	Surface Water, Aquatic Ecosystem Management Plan BAF-PH1-830-P16-0026 Phase 2 Proposal Revisions for Review Purposes Ohly Rev G Appendix H Northern Corridor Monitoring Program Section 4. Monitoring Frequency page 46 of 52	SWAEMP	Group 3 parameters be collected at the same frequency as Group 4 and allow a lab technician who is trained in the detection of oil and grease to determine its presence.		New		In the preamble of this technical comment, the OLA states the following: "While water quality is not considered a VEC, Article 20 of the Nunavut Land Claims Agreement Ithe Nunavut Agreement) states that Inuit are entitled to unaltered water quality, quantity and flow." This is not accurate. Section 20.3.1 of Article 20 states: "No project or activity within the Nunavut Settlement Area which may substantially affect the quality of water flowing through Inuit Owned Lands, or the quantity of such water, or its flow, shall be approved by the NWB unless the applicant for a licence has entered into a compensation agreement with the DIo for any loss or damage which may be caused by the change in quality, quantity or flow of the water or the NWB has made a determination in accordance with Section 20.3.2." The Northern Corridor Monitoring Program has been adapted from the Tote Road Monitoring Program developed jointly between the QIA and Baffinland. The QIA approved this sampling program. The focus was on managing erosion and sedimentation, and monitoring of oil and grease when visual evidence warrants is appropriate adaptive management.			QIA-50.1	Unresolved	To resolve this concern, QIA requests: Group 3 parameters be collected at the same frequency as Group 4 and allow a lab technician who is trained in the detection of oil and grease to determine its presence.	
163	QIA	QIA-51.1	Attachment 22 Surface Water, Aquatic Ecosystem Management Plan BAF-PH1-830-P16-0026 Phase 2 Proposal Revisions for Review Purposes Only Rev G Section 5.6 Northern Corridor Monitoring Program page 65 of 109 Appendix H Northern Corridor Monitoring Program Section 5. TSS Water Quality Criteria and Response-Action Framework page 48 of 52 Figure H.4 TSS Response- Action Framework page 49 of 52 Action Framework page 49 of 52	SWAEMP	Include iron and chloride in addition to TSS in the adaptive management framework and response- action framework for the Northern Corridor Monitoring Program.		New		Baffinland agrees to establish thresholds for iron and chloride as part of the Northern Corridor Monitoring Program. This will be reflected in the next update of the SWAEMP.			QIA-51,1	Resolved	response included in their November 4, 2021 submission. Baffinland has	BIM will consider incorporating thresholds for iron and chloride into the Northern Corridor Monitoring Program (Appendix H of the SWAEMP) as part of its discussions regarding management plans with the QIA.
			Attachment 13.2 North Railway Freshwater Habitat Survey: 2018 – Part 1 Section 2.1.1.1 North Rail Crossings – page 11 of 62	FAA Application	Provide a reference to the specific protocols that were developed.		New		The reference (Baffinland, 2012a) is provided in the references section of the report: Baffinland. 2012a. Mary River Project - Final Environmental Impact Statement. Volume 7: Freshwater Environment. February 2012. Volume 7 references Appendix 7C for the			QIA-52.1	Resolved	QIA is satisfied by Baffinland's response included in their November 4, 2021 submission.	
165	QIA	QIA-53.1	Attachment 13.2 North Railway Freshwater Habitat Survey: 2018 – Part 1 Section 1.0 Introduction – page 8 of 62	FAA Application	Provide site specific data for each crossing					Habitat Survey Report 'there have been changes	2019 and 2021 at the latest railway crossings, so the 2018 dataset is only part of the body of information that BIM will use. Site-specific data will be provided in the FAA Application for all permanent and temporary crossings.	QIA-53.1	Resolved with commitment	complete habitat evaluations for each	BIM will provide site-specific data for all fish- bearing permanent and temporary crossings in its FAA Application
166		QIA-54.1	Attachment 13.2 North Railway Freshwater Habitat Survey: 2018 – Part 1 Section 2:1.2 North Rail Bridges – page 12 of 62		Provide rationale for this change in methodology.				Electrofishing was not undertaken at the North Railway bridges in 2018 as flow conditions were too high for the river to be sampled effectively. Previous field studies have established the presence of fish in each river and that all are important, fish-bearing waterbodies. The habitat survey transect length was 120 m (60 m upstream and downstream). This survey length was considered adequate to assess local habitat conditions.			Q)A-54.1	Resolved	QIA is satisfied by Baffinland's response included in their November 4, 2021 submission.	
167	QIA	QIA-55.1	Attachment 13.2 North Railway Freshwater Habitat Survey: 2018 – Part 1 Section 2.1.1.1 North Railway – 13.0f 62		Provide explanation on how barriers greater than 15' were classified, such as how the gradient measured (i.e. clinometer, visual observation, surveyor, using desktop analysis such as digital				Potential stream barriers were assessed in the field using a clinometer.			QIA-55.1	Resolved	QIA is satisfied by Baffinland's response included in their November 4, 2021 submission.	

Item No.	Agency	Technical Comment ID#	Document Reference	Subject Area	Intervenor July 2019 Recommendation/Request	Baffinland's Aug 2019 Response	Intervenor's October 2021 Status Update	Intervenor's October 25, 2021 Updated Recommendation /Request	Baffinland's November 4, 2021 Response	Intervenor Nov 12, 2021 Presentations	Baffinland Response to Nov 12, 2021 Presentations	ID#2	Status of Resolution (Dec 16, 2021)	Intervenor Comment Commitments (Dec 16, 2021)
168	QIA	QIA-55.2	Same as above		Provide references that indicate that a stream gradient of 15" is difficult or impassable for Arctic Char.		New		field experience from working in the region since 2008. There are no published references that support this value.	Based on past field experiences - can you expand on what that means? i.e. for all sites that had a stream gradient of 15° or greater that no fish were observed upstream? Please provide rationale.	aIM needs to correct its response in addition to further substantiating it. Its consultant has adopted a gradient of 10 degrees, or 18%, for impassable gradients. This is based on over a decade of fisheries surveys in the study area. Char have not been observed upstream of a gradient of 10 degrees (accepting where there is overwintering habitat upstream in which case fish can access the area upstream of the barrier). These are juvenile landlocked arctic char that are mostly <100 mm. Smaller juveniles are unable to pass at even lower gradients. The other aspect is that high gradients also present high velocities or low water (depending on flow conditions) which combined contribute to fish passage barriers.	QIA-55.2	Unresolved	QIA requests: Provide references that indicate that a stream gradient of 15* is difficult or impassable for Arctic Char.
169	QIA		Attachment 13.2 North Railway Freshwater Habitat Survey: 2018 – Part 1 2.1.3 North Rail Lake/Pond Encroachments/Infilling – page 13 of 62	·	Was the waterbody classified as non-fish bearing if fish were not captured after completing the 100 m long section using the backpack electrofisher? Were other capture methods utilized?				No fish captured after sampling a 100 m long section was combined with other field data before designating a stream section as non fish bearing. This work was conducted by a Professional Biologist. In general we are confident that non fish bearing stream sections were			QIA-56.1	Resolved	QIA is satisfied by Baffinland's response included in their November 4, 2021 submission.
	QIA	QIA-57.1	Attachment 13.2 North Railway Freshwater Habitat Survey: 2018 – Part 1 2.1.4 North Rail Stream Diversions – page 14 of 62		What additional studies were completed to address the reduction in flow to the unnamed lake downstream of CV-90-4?				The unnamed lake downstream of CV-90-4 was assessed with a sidescan echosounder to determine bathymetry and substrate distribution. The lake is assumed to include seasonal use by Arctic char but may include overwintering. The railway design has changed and there currently is no expected flow reduction downstream of CV-90			QIA-57.1	Resolved	QIA is astisfied by Baffinland's response included in their November 4, 2021 submission.
	T		Same as above		How will water levels in the unnamed lake be mitigated from the diversion at CV-90-4?				The railway design has changed and there currently is no expected flow reduction downstream of CV-90-4. The affected tributary includes a barrier at its mouth and the crossing location is non fith hearing.			QIA-57.2	Resolved	Qu'A is satisfied by Baffinland's response included in their November 4, 2021 submission.
	QIA		Same as above		Have studies been completed to understand the contribution of water from this upper reach to the lake?				90-4.	Please ensure that if plans change and a diversion of water is required at this location that the appropriate studies are completed to ensure there are no impacts to downstream waterbodies and fish habitat		QIA-57.3	Resolved	QIA is satisfied by Baffinland's response included in their November 4, 2021 submission.
173	QIA	QIA-57.4	Same as above	FAA Application	Will the diverted water ultimately flow back into the unnamed lake or a different receiving waterbody?				The railway design has changed and there currently is no expected flow reduction downstream of CV-90-4.			QIA-57.4	Resolved	QIA is satisfied by Baffinland's reasonse included in their November 4. 2021 submission
174	QIA	QIA-58.1	Attachment 13.2 North Railway Freshwater Habitat Survey: 2018 – Part 1 3.2.1 North Rail Crossings – page 19 of 62	FAA Application	Confirm if fish sampling surveys were completed at these sites.		New		Fish sampling surveys were completed at all stream crossings along the North Railway. More recent study results are provided in Appendix 4 of this response.	Appendix 1 of the North Railway Freshwater Habitat Survey: 2018 – Part 1. These sites should be afforded the same protection and mitigation	survey; some streams were surveyed prior to that work and were subsequently surveyed in 2019 and 2021. Additionally, the railway alignment changed since that report. As such, it is no longer an accurate representation.	QIA-58.1	Path forward identified	QIA and Baffinland are actively engaged on addressing this concern.
175	QIA	QIA-59.1	Attachment 13.2 North Railway Freshwater Habitat Survey: 2018 – Part 1 3.5 North Rail Stream Diversions – page 21 of 62	Water Licence	Confirm if all engineered drawings have been provided for the stream diversions.		New		diversions themselves.	It is critical that engineered drawings are provided for each of the diversion channels and that they are reviewed by QIA.		QIA-59.1	Path forward identified	NWB has confirmed that Baffinland must provide the requested requirements to provide drawings of stream requirements to confirmation from Baffinland of their intention to distribute the documents.
176	QIA	QIA-59.2	Same as above	Water Licence	Confirm if the drawings show the reconstruction channel and tie in to the downstream waterbody.		New		The engineered drawings for the diversions have not been developed.	It is critical that engineered drawings are provided for each of the diversion channels and that they are reviewed by QIA.		QIA-59.2	Path forward identified	NWB has confirmed that Baffinland must provide the requested engineering documents. QIA has not yet received confirmation from Baffinland of their intention to distribute the documents.
177	QIA		Attachment 16 Detailed Water Withdrawal Plan Part 1 of 4– page 17 of 25	FWSSWMP	What monitoring will be completed to ensure there is no impact to fish and fish habitat?		New		No monitoring of the water withdrawal streams is proposed. This is not normal practice, and nor is it required because the pumping rates and other mitigation measures identified in the Detailed Water Withdrawal Plan will be adhered to. Baffinland's Environment Department periodically audits water withdrawal operations to ensure appropriate procedures and mitigation measures are being employed.			QJA-60.1	Resolved	QJA is satisfied by Baffinland's response included in their November 4, 2021 submission.
178	QIA	QIA-60.2	Same as above	FWSSWMP	How will stream flow be measured during the time of any withdrawals to establish what the 10% flow rate is?		New		It is not practical to measure flow in streams during water withdrawals. The approach of applying flow duration curves for the 12-year period of record is a practical way of checking that the 10% threshold will not be exceeded.			QIA-60.2	Resolved	QIA is satisfied by Baffinland's response included in their November 4, 2021 submission.
179	QIA	QIA-60.3	Same as above	FWSSWMP	What is the monitoring and mitigation plan if the maximum pumping rate was over estimated for a waterbody?		New			There should always be a mitigation plan for any mining activity that has the potential to harm the natural environment.		QIA-60.3	Resolved	QIA is satisfied by Baffinland's response included in their November 4, 2021 submission.

Item No.	Agency	/ Technical Comment ID#	Document Reference	Subject Are	ra Intervenor July 2019 Recommendation/Request	Baffinland's Aug 2019 Response	Intervenor's October 2021 Status Update	Intervenor's October 25, 2021 Updated Recommendation / Request	Baffinland's November 4, 2021 Response Intervenor Nov 12, 2021 Presentation	s Baffinland Response to Nov 12, 2021 Presentations	ID#2	Status of Resolution (Dec 16, 2021)	Intervenor Comment (Dec 16, 2021)	Commitments
180	QIA	QIA-61.1	Attachment 16 Detailed Water Withdrawal Plan Part 2 of 4– pages 1& 2 of 30	FWSSWMP	Confirm if a monitoring program has been developed to monitor the pump intakes/screen for sediment, debris and impinged fish on a routine schedule (i.e. inspection frequency should be increased during periods when the maximum pumping rate is used)?		New		Baffinland adheres to DFO's Code of Practice for fish screens, as specified in Part D, Item 6 of the Water Licence. Baffinland notes that the referenced 1995 guideline has been replaced with a 2020 code of practice. This assessment is completed upon deployment of a pump, and the operator monitors the intake during pumping activities.	and	QIA-61.1	Resolved	QIA is satisfied by Baffinland's response included in their November 4, 2021 submission.	
181	QIA	QIA-61.2	Same as above	FWSSWMP	If it is determined that a site is not appropriate for pumping (i.e. sediment uptake, fish impingement) what steps will be taken to identify a new pumping location?		New		If a site is determined to be inappropriate for use, it will no longer be used. Other nearby approved stations will be used. If a viable alternate can be identified nearby, Baffinland will submit a notification to the NWB accompanied by a hydrology assessment, in accordance with Part E, Item 14 of the Water Licence.		QIA-61.2	Resolved	QIA is satisfied by Baffinland's response included in their November 4, 2021 submission.	
182	QIA	QIA-62.1	Attachment 16 Detailed Water Withdrawal Plan Part 2 of 4— pages 8 of 30	FWSSWMP	A detailed fish habitat assessment be completed and submitted for review prior to this location being used for water taking.		New		Agreed. A fish habitat assessment will be conducted at the alternate WS27.1c station if Baffinland seeks to use it during summer. Winter water withdrawals came be made offshore and depth measurements can be taken to ensure an environmentally protective water withdrawal		QIA-62.1	Resolved	QIA is satisfied by Baffinland's response included in their November 4, 2021 submission.	
183	QIA	QIA-63.1	Environmental Protection Plan Baf-Ph1-830-P16-0008 Phase 2 Proposal Revisions - for Review Purposes Only >Rev Section 4.4.3 Environmental Protection Measures – page 40 of 85		Integration of a monitoring threshold for turbidity such as CCME guidelines for the Protection of Aquatic Life. Turbidity clear flow - Maximum increase of 8 NTUs from background levels for a short-term exposure (e.g., 24-h period). Maximum average increase of 2 NTUs from background levels for a longer term exposure (e.g., 30-d period). High flow or turbid waters - Maximum increase of 8 NTUs from background levels at any one time when background levels are between 8 and 80 NTUs. Should not increase more than 10% of background levels when background levels when background levels when background levels as and 80 NTUs.				The referenced text in the EPP is dated and is superseded by the Environmental Guidelines for Water crossing Repairs, Installations and Modifications in Appendix F of the SWAEMP. This guideline was developed jointly with the QIA. Baffinland will update the EPP to be consistent with the above-mentioned guideline.		QIA-63.1	Resolved	QIA is satisfied by Baffinland's response included in their November 4, 2021 submission.	Update the turbidity thresholds in the EPP to be consistent with the Environmental Guidelines for Water Crossing Repairs, Installations and Modifications (SWAEMP Appendix F).
184	QIA	QIA-64.1	Environmental Protection Plan Baf-Ph1-830-P16-0008 Phase 2 Proposal Revisions - For Review Purposes Only >Rev Section 4.7.3.1 Environmental Protection Measures – page 44 of 85		on Confirm if culverts that contain baffles will be monitored to ensure rock movement/accumulation or winter ice build up in the culverts do not create fish barriers during low flow periods or freshet.				Confirmed. These will be monitored to ensure fish passage during freshet and summer low flows.		QIA-64.1	Resolved	QIA is satisfied by Baffinland's response included in their November 4, 2021 submission.	
185	QIA	QIA-65.1	Same as above		on Provide further details on mitigation measures to ensure that culverts >50 m do not become fish barriers.				Monitoring plans will include detailed sampling to consings that are not passable by fish 'will' for part of the Fisheries Act Authorization part of the Fisheries Act Authorization. The draft FAA Application. The draft FAA Application will be shared for review and		QIA-65.1	Resolved with commitment	the requested information in the FAA with a draft provided to QIA at least	Further details on mitigation measures so that culverts >50 m do not become fish barriers will be provided with the FAA Application, which will be provided to the QIA in draft for comment 30-days before formal submission
186	QIA	QIA-65.2	Same as above	FAA Applicati	on Confirm if a monitoring program will be developed to ensure that fish are using and able to pass through these extended culverts.				Confirmed. A fish passage monitoring program will be developed. These details will be included in the Fisheries Act Authorization (FAA) Application. The draft FAA Application will be		QIA-65.2	Resolved with commitment		A fish passage monitoring program will be presented in the FAA Application, which will be provided to the QIA in draft for comment 30- days before formal submission
187	QIA	QIA-65.3	Same as above	FAA Applicati	on Please describe means by which longer culverts can be illuminated				The illumination of culverts is a potential mitigation if culverts are determined to be impassable. The feasibility of this option is being further investigated.		QJA-65.3	Resolved with commitment	Baffinland has committed to provide the requested information in the FAA with a draft provided to QIA at least 30 days prior to formal submission.	
188	QIA	QIA-66.1	Same as above	FAA Applicati	on Provide the results of the fish passage potential for each culvert.				These details will be included in the Fisheries Act Authorization (FAA) Application. The draft FAA Application will be shared for review and comment.		QIA-66.1	Resolved with commitment	the requested information in the FAA	An updated fish passage assessment will be presented in the FAA Application, which will be provided to the QIA in draft for comment 30- days before formal submission
189	QIA	QIA-67.1	Environmental Protection Plan Baf-Ph1-830-P16-0008 Phase 2 Proposal Revisions - For Review Purposes Only >Rev Section 4.7.3.3 Environmental Protection Measures – page 45 of 85		What is Baffinland's course of action if spawning sites are identified within 20 m upstream and/or 20 m downstream of the work area?				The identification of spawning sites in proximity to construction work areas is not anticipated. No spawning sites have been identified during baseline studies. Arctic char are assumed to spawn in lakes or potentially in deep pools in rivers. The small lakes affected by the North Railway may require special construction work windows to avoid potential spawning areas.	mine vill	Q)A-67.1	Resolved with commitment		BIM will clarify in its EPP and SWAEMP that if spawning sites are identified at proposed crossings, that the company will default to the DFO's timing window for in-water work.
190	QIA	QIA-68.1	Attachment 31 - Surface Water Sampling Program - QA/QC Plan 5.2.2 River and Grab Sampling page 17 of 139	Program	Please clarify the exact procedure for sediment sampling.				The procedures for sediment sampling in streams are provided in Section 5.2 of the Sampling Program - QA/QC Plan. It should be clearly stated in your sediment sampling procedure as the second step how the sediment sample will be obtained from the river/stream bed.	he	QIA-68.1	Resolved with commitment	Baffinland has committed to investigate the wording and update the text to clarify the sampling approach in the next iteration of the plan prior to a Public Hearing.	BIM will provide its Standard Operating Procedure (SOP) for sediment sampling for QIA's review.
191	QIA	QIA-69.1	Attachment 13 Watercourse Crossings – Attachment 13.1 Phase 2 Proposed Infrastructure Interactions with Watercourses		on Clarify which Table is the most up to date with the project interaction and corresponding watercourse, pond/lake.				An updated list of watercourse crossings and project interactions is provided in Appendix 4 of this response document.		QIA-69.1	Resolved	QIA is satisfied by Baffinland's response included in their November 4, 2021 submission.	
192	QIA	QIA-69.2	Same as above	FAA Applicati	on Update both tables to ensure fish habitat is correctly defined and include 'potential' habitat for Arctic Char and Ninespine Stickleback.				See response to QIA-69.1.		QIA-69.2	Resolved	QIA is satisfied by Baffinland's response included in their November 4, 2021 submission.	
193	QIA	QIA-70.1	Aquatic Effects Monitoring Plan Section 3.3.5 Benthic Invertebrates – pages 58-59	AEMP	Provide the full comments referenced above in the AEMP.		New		The QIA may be referring to the Minnow Recommendations presented in Appendix C (Appendix A era Baffinland's corporate policies). Appendix C is the Part 2 file (210917-2AM- MRY1325-Amend2-Applic-Att-28-AEMP-Part 2).		QIA-70.1	Resolved	QIA is satisfied by Baffinland's response included in their November 4, 2021 submission.	
194	QIA	QIA-71.1	Attachment 28 Aquatic Effects Monitoring Plan BAF-PH1-830- P16-0039 Phase 2 Proposal Revisions for Review Purposes Only Rev 2 Section 3.1.2 Nutrient/Eutrophication Indicators and Benchmarks page		Baffinland commit to continuing to use TP as an indicator of changes in trophic status.				Baffinland has consistently included the analysis of total phosphorus (TP) in water samples collected at all llotic and lentic waterbodies under the AEMP. Total phosphorus will continue to be assessed as part of the AEMP Rev 2 water quality monitoring program to support the evaluation of changes in trophic status.		QIA-71.1	Resolved	QIA is satisfied by Baffinland's response included in their November 4, 2021 submission.	

Item Agency No.	Technical Comment ID#		Subject Area Intervenor July 2019 Recommendation/Request	0	ntervenor's Intervenor's October 25, 20 ctober 2021 Recommendation /Re atus Update	D21 Updated Baffinland's November 4, 2021 Response equest	Intervenor Nov 12, 2021 Presentations	Baffinland Response to Nov 12, 2021 Presentations	ID#2	Status of Resolution (Dec 16, 2021)	Intervenor Comment (Dec 16, 2021)	Commitments
195 QIA	QIA-72.1	Attachment 28 Aquatic Effects / Monitoring Plan BAF-PH1-830-P16-0039 Phase 2 Proposal Revisions for Review Purposes Only Rev 2 Section 3.1.2 Nutrient/Eutrophication Indicators and Benchmarks page 47 of 105	NEMP Baffinland continue to monitor nutrients and add sampling of primary producers, in the form of periphyton, in lotic systems (such as the Mary River) receiving discharge of treated sewage effluent.			of nutrients including total ammonia, nitrate, nitrite, Total Kjeldahl Nitrogen (TKN), dissolved organic carbon (DOC), total organic carbon (TOC and total phosphorus in surface waters at all loti and lentic water quality monitoring stations und the AEMP Rev 2. In addition to monitoring nutrient concentrations in water at all AEMP loti water quality monitoring stations, Baffinland monitors chlorophyll a concentrations at these stations as a surrogate for the assessment of phytoplankton abundance and as a basis for evaluating changes in trophic status. Furthermore, because benthic invertebrate communities are sensitive to nutrient enrichmer benthic invertebrate communities are sensitive to nutrient enrichmer benthic invertebrate community monitoring conducted annually at all AEMP lotic systems (including Mary River at three areas upstream, and two areas downstream, of the primary mine camp STP discharge) provides an additional tool for assessing potential nutrient enrichment influences of the project on biota of lotic environments. The collective monitoring of nutrients, chlorophyll a as a proxy for phytoplankton abundance, and benthic invertebrate communities at AEMP lotic environments provides sufficient information (through weight-of-evidence analysis) for assessing nutrient enrichment effects and the), periphyton it is highly unlikely to be exported to copen waters (Wetzel, 2001). Therefore, to fully er understand the impacts of the discharge sewage effluent on the Mary River it is recommended that or the management of the properties of the sewage so their monitoring program. As stated in Wetzel (2001), "The phosphorus of the littoral water is very actively assimilated by the loosely attached epiphytic periphyton, incorporated into the periphyton, and intensively tt, recycled (e.g., Riber and Wetzel, 1987; Wetzel, 1993a). The periphyton, rather than the submersed macrophytes, function as the primary scavenger for limiting nutrients such as phosphorus from the water."		QIA-72.1	Resolved with commitment		BIM will complete phosphorus mass balance modeling for the Mary River system as a means of assessing whether incorporating periphyton monitoring as a tool for assessing STP effluent-related influences on primary productivity is warranted.
196 QIA	QIA-73.1	Attachment 28 Aquatic Effects / Monitoring Plan BAF-PH1-830-P16-0039 Phase 2 Proposal Revisions for Review Purposes Only Rev 2 Section 3.1.2 Nutrient/Eutrophication Indicators and Benchmarks Table 3.8 Reference Areas for the Mary Lake System page 48 of 105	not sampled at the Mary River Reference sites G0- 09-A, G0-09, G0-09-B. Given that Mary River is the primary receiver of treated sewage effluent and Baffinland wants to evaluate nutrient enrichment primarily by chlorophyll-c, it is recommended that Baffinland collect samples of phytoplankton and periphyton at the reference sites G0-09-A, G0-09 and G0-09-B.			tracking of potential changes in trophic status at Baffinland regrets that the information presente in Table 3.8 related to the sampling of phytoplankton at Mary River GO-09-A, GO-09, an GO-09-B reference stations was misrepresented. Phytoplankton sampling (based on using chlorophyll a as a proxy for phytoplankton abundance) will be included as a monitoring component of the AEMP at Mary River GO-09-A, GO-09, and GO-09-B stations. Table 3.8 will be updated accordingly. As outlined in the response to QIA comment #72.1, the sampling of nutrient: phytoplankton (chlorophyll a), and benthic invertebrates at the GO-09 series stations is deemed by Baffinland to be sufficient for evaluation of project-related enrichment and trophic status effects. Therefore, no additional measures of phytoplankton or periphyton are required at lotic stations under AEMP Rev 2.	d		Q)A-73.1	Resolved with commitment	an AEMP working group in Q1 2022 to address these concerns.	Table 3.8 of AEMP Revision 2 will be updated to indicate on-going evaluation of nutrients at the Mary River upstream reference area (60-09 series stations). In addition, the approach described in the response to QIA 7.2. will be applied to assess whether periphyton monitoring as a tool for evaluating STP effluent-related influences on primary productivity is warranted.
197 QIA	QIA-74.1	Attachment 28 Aquatic Effects Monitoring Plan BAF-PH1-330-P16-0039 Phase 2 Proposal Revisions for Review Purposes Only Rev 2 Section 3.3.3 Sediment Quality Study Design page 53 of 105 Table 3.12 Profundal Sediment Quality Stations page 55 of 105 Figure 3.3 page 57 of 105	stations in Sheardown Lake SE is being reduced to two or if profundal sediment stations are being eliminated entirely.			The maximum depth attained in Sheardown Lak SE is approximately 14 metres (m). The depth throughout the majority of this basin of Sheardown Lake (i.e., >95%) is estimated to be less than 12 m deep, which was the cut-off depth assigned to distinguish "littoral from 'profundal' lake stations under the CREMP. Therefore, a minimal amount of profundal habitat occurs in Sheardown Lake SE, and that which is present is at the threshold between classification as littora or profundal. Hence, no 'profundal' stations are proposed for sampling in Sheardown Lake SE. Figure 3.3 provided in the AEMP Rev 2 will be updated to reflect no profundal stations sample in Sheardown Lake SE. It is noteworthy that the five stations proposed for sediment sampling in Sheardown Lake SE. In so the over the sampling in Sheardown Lake SE. In six within the deepest portion of the lake. Therefore, although no profundal stations are included at Sheardown Lake SE for sediment sampling, the proposed design considers proper spatial coverage and variable water depths to ensure that sediment sampling conducted at Sheardown Lake SE meet the AEMP objectives.			QIA-74.1	Resolved	QJA is satisfied by Baffinland's response included in their November 4, 2021 submission.	
198 QJA	QIA-75.1	Attachment 28 Aquatic Effects / Monitoring Plan BAF-PH1-830-P16-0039 Phase 2 Proposal Revisions for Review Purposes Only Rev 2 Section 2.4.5.3 Tote Road and Northern Railway (Water Management Area 48) page 32	Provide further details on the anticipated discharge location, the monitoring site label, the parameters to be sampled and the frequency of sampling.	Nes	w	The temporary ore stockpiling area at KM57 was removed from the Project. References to this component were removed from the Updated Water Licence (Main Report). That reference to this project component was not removed from the AEMP is an oversight. It will be removed from the next revision of this plan.	n		QIA-75.1	Resolved with commitment	QJA is satisfied by Baffinland's response included in their November 4, 2021 submission.	Remove reference to the temporary ore stockpiling area at KM57 in the next update of the AEMP.
199 QIA	QIA-76.1	Attachment 28 Aquatic Effects / Monitoring Plan BAF-PH1-830-P16-0039 Phase 2 Proposal Revisions for Review Purposes Only Rev 2 Section 3.5.3 Fish page 65 of 105	NEMP Confirm that fish ageing structures will also be aged by an accredited laboratory with expertise in processing fish ageing structures to confirm technician results.			Baffinland confirms that fish ageing will be conducted at a qualified analytical laboratory by personnel specialized in processing and ageing o fish using scientifically accepted approaches. As part of the quality control process, Baffinland confirms that a second qualified fish ageing specialist will be used to independently evaluate ages provided by the initial specialist. The age confirmation samples will be selected at random with a total of 10% of the number of samples submitted undergoing a second, independent analysis. Results within one year of the original age estimate will be considered acceptable. In the event of discrepancies, additional (secondary) ag structures will be assessed by each ageing specialist to arrive at an assigned age for the sample(s) in question.	, , and the state of the state		QIA-76.1	Resolved	QIA is satisfied by Baffinland's response included in their November 4, 2021 submission.	

Item Ag	gency Technical Comment		Subject Area Intervenor July 2019 Recommendation/Request	Baffinland's Aug 2019 Response Intervenor's October 2021	Recommendation / Request	d Baffinland's November 4, 2021 Response Intervenor Nov 12, 2021 Presentation	ons Baffinland Response to Nov 12, 2021 Presentations	. ID#2	Status of Resolution (Dec 16, 2021)	Intervenor Comment Commitments (Dec 16, 2021)
200 QIA	ID# QIA-77.1	ICRP – 1. Plain Language Summary PROJECT AND CLOSURE SUMMARY, p. 13	IICRP How will feasibility of restoring natural drainage be assessed as reasonably possible or not and how will the decisions be documented?	Status Update New		The feasibility of restoring natural drainage will be determined by a Professional Engineer based on the level of disturbance that is required to reestablish natural drainage, and which drainage (project or natural) will be most physically stable in the long-term. The proposed approach will appear in design drawings supporting closure.		QIA-77.1	Resolved	QJA is satisfied by Baffinland's response included in their November 4, 2021 submission.
201 QIA	QIA-77.2	ICRP Section Plain Language Summary PROJECT AND CLOSURE SUMMARY, p. 14	ICRP What factors will be considered and what would prevent re-establishment of natural drainage at closure?	New		See response to QIA-77.1.		QIA-77.2	Resolved	QIA is satisfied by Baffinland's response included in their November 4, 2021 submission.
202 QIA	QIA-78.1	Same as above	Borrow Pit and Please clarify the number of quarries in the Phase Quarry Mgnt 2 project.	New		Thirty aggregate sources (29 rock quarries and one borrow pit) are proposed to support Phase 2 construction (Section 2.7 of the Updated Application Main Report). An additional 79 quarries were previously identified to support construction of the South Railway and Steensby		QIA-78.1	Resolved	QIA is satisfied by Baffinland's response included in their November 4, 2021 submission.
203 QIA	QIA-78.2	Same as above	Borrow Pit and How many are anticipated to remain as visible Quarry Mgnt landforms following closure?	New		It is likely that some evidence of each quarry will be apparent at closure. How visible a landform each will be at closure will depend on quarry designs, to be presented in the quarry-specific management plans, and whether and the degree of use for disposal of soil spoils during		QJA-78.2	Resolved	QIA is satisfied by Baffinland's response included in their November 4, 2021 submission.
ZO4 QIA	QIA-79.1	ICRP Ilain Language Summary PROJECT AND CLOSURE SUMMARY, p. 18 and Table 1.1 Section 5 – Permanent Closure and Reclamation, Table 5.1 Sect. 5.2.1.2 p.102				Section 5.2.1.5 of the ICRP (Attachment 30) states "It is currently anticipated that the discharge from the open pir will not require treatment (AMEC 2010). However, if treatment is required several effective technologies are currently available to manage metal leaching and/or acid rock drainage (ML/ARD). If ML/ARD were to develop, batch treatments will be carried out to adjust the pH and/or metal concentrations of the water in the pit so that it meets discharge requirements before overflow into the environment." Section 5.2.1.9 further states: "Although indications to-date demonstrate a low probability of ML/ARD, in the event that ongoing water quality modelling or field monitoring shows a trend toward exceedance of discharge requirements, then water treatment options will be determined and implemented. Details regarding theoretical treatment options are provided in the Life-of-Mine Waste Rock Management Plan (Section) 3.6.4, BAP-PHB30- P16-0031) and were considered for both metal and ammonia/nitrate removal. Theoretical treatment options for metals removal included: Resins Polymer Addition Sodium Hydrosuffite Treatment Ozonation Biofilters-Sulphide Precipitation		QIA-79.1	Resolved	QIA is satisfied by Baffinland's response included in their November 4, 2021 submission.
205 QIA	QIA-80.1	ICRP Sect 5.2 p. 100 Permanent Closure and Reclamation Requirements	ICRP If docks are left in place but not maintained, are they likely to deteriorate over time?	New		Activated Carbon Geotechnical analyses and monitoring of the docks at Milne Port will be undertaken prior to closure to confirm long-term stability and ver time or b) removal of dock structures a ver time or b) removal of dock structures a	ability	QIA-80.1	Unresolved	QIA requests the following: If docks are left in place but not maintained, are they likely to deteriorate over
206 QIA		Same as above	ICRP How does this fit the Closure Objective of physical stability?	New		maintenance requirements (if and) Undertaking geotechnical analyses and monitoring to confirm the long-term stability of docks at Milne Port is consistent with the Closure Objective of physical stability. It is incorrect to suggest that an absence of active maintenance will necessarily result in long-term physical stability issues for the docks at closure. Closure Chistrie Closure What is the demonstrated need for dock structures to remain after closure? The QIA Mould to be left with the potential need for Monitoring does not assure long term stabil unless there is also a committenent to maintenance. Please commit to long term maintenance of dock structures to maintain physical stability over time or b) removal of	or long ity. Itheir dock	QIA-80.2	Unresolved	Hime? QIA requests the following: How does this fit the Closure Objective of physical stability?
207 QIA	QIA-81.1	Sect. 5.2.1.4 CONSIDERATION OF CLOSURE OPTIONS AND SELECTION OF CLOSURE ACTIVITIES. Enhanced PIF Filling Alternative Table 5.2 p. 103-104 Sect. 5.2.1.7 p. 106	pit refilling that Baffinland considers to be feasible and which can be used to predict pit water quality at closure.			Research and studies on potential pit filling scenarios are ongoing. Baffinland maintains that as active mining at Deposit 1 remains a hilltop outcrop, no Open Pit has formed, and development of an Open Pit is still several years away, this should not preclude approval of the ICRP. As noted in Section 1 of the ICRP, "The Project's interim Mine Closure and Reclamation Plan (ICRP) is considered to be a "living" document, which is refined regularly throughout the life of mine until a Final Closure and Reclamation Plan is achieved." Further refinements to potential pit filling scenarios will be provided as information becomes available.	e or b) ailable ate of water oceed refill	QIA-81.1	Resolved with commitment	Baffinland has committed to provide a schedule as to when these considerations will be addressed in the next iteration of the ICRP to be submitted prior to a Public Hearing. Indicate the provided prior to a Public Hearing. Indicate the following: **uncertaintes regarding the future pit lake, indicate prior the future pit lake, and potential for meromictic conditions in the future pit lake. "Effluent discharge criteria from ponds at closure "recent climate change modelling" revised return periods for design of conveyance structures **refined runoff estimates from the waste rock stockpile based on additional geochemical testing.
208 QIA	QIA-82.1	p. 10-6 Sect. 5.2.17 Uncertaintie	s ICRP Provide feasible mitigation and closure options for the open pit that address the need for chemical stability and acceptable water quality.			Theoretical treatment options to mitigate potential pit water quality issues at closure are presented in Section S.2.1.9 of the ICRP. If a treatment option is deemed necessary, criteria for the selection of the treatment process will include feasibility, and its ability to address the need for chemical stability and acceptable water quality.		QIA-82.1	Resolved	QIA is satisfied by Baffinland's response included in their November 4, 2021 submission.

Iter No	Agency	Technical Comment ID#	Document Reference	Subject Area Intervenor July 2019 Recommendation/Request	Baffinland's Aug 2019 Response	Intervenor's I October 2021 Status Update	Intervenor's October 25, 2021 Updated Recommendation /Request	Baffinland's November 4, 2021 Response	Intervenor Nov 12, 2021 Presentations	Baffinland Response to Nov 12, 2021 Presentations	ID#2	Status of Resolution (Dec 16, 2021)	Intervenor Comment (Dec 16, 2021)	Commitments
209	ΑΙΦ	QIA-83.1	ICRP Sect 5.2.1.9 Contingencies p. 107	ICRP Are the options provided feasible for batch treatment of the pit or for ongoing treatment of pit discharge at closure?				As noted, the treatment options provided in Section 5.2.1.9 of the ICRP are theoretical, and are intended to provide a high-Level summary of treatment technologies and approaches that could be implemented if required. In the absence of a clearly defined water quality issue that would require treatment, it is premature to determine details such as whether batch treatment or ongoing treatment would be feasible. Section 5.2.1.9 of the ICRP provides information on the timeline for future work on open pit water quality: "MI/ARD will be periodically reassessed as a potential issue in the future ICRP revisions and in the Final CRP. Reclamation Research to address the uncertainty of what closure and post closure activities are required to ensure open pit runoff water quality meets closure objectives and criteria, including MI/ARD issues, is expected to commence at approximately Year 10 of Operations (when an Open Pit is expected to exist associated with the Project.) Based results of this research, the ICRP will be updated to present a time frame for the potential development of MI/ARD conditions, if any, and discuss the impact of MI/ARD release on final closure identifying the need for ongoing monitoring, treatment, and potential mitigations."			QIA-83.1	Resolved	QIA is satisfied by Baffinland's response included in their November 4, 2021 submission.	
210	QIA	QIA-83.2	Same as above	ICRP Does Baffinland foresee a scenario in which ongoing treatment of pit discharge is required over the long term at closure?				oroduction rate. Development of the open pit is Baffinland does not anticipate that ongoing treatment of pit discharge will be required over the long term at closure. However, as discussed in Section 5.2.1.7 of the ICRP, there is uncertainty as to the long-term water quality in the open pit. Baffinland has committed to addressing this uncertainty within the Reclamation Research Plan and adaptive management during operations. The ICRP addresses the potential that treatment of open pit discharge could be required, such as in Section 5.2.1.9 where theoretical treatment options are presented.			QIA-83.2	Resolved	QIA is satisfied by Baffinland's response included in their November 4, 2021 submission.	
211	QIA	QIA-84.1	ICRP Sect. 5.2.2.1 p. 108 Waste Rock and Overburden Piles	ICRP Confirmation if the overburden be isolated and used to promote revegetation of disturbed sites at mine closure.				Overburden generated during stripping of the open pit will be stockpiled for use in the construction of a closure cover over the Waste Rock Facility. Natural revegetation will be recombated by registration.			QIA-84.1	Resolved	QIA is satisfied by Baffinland's response included in their November 4, 2021 submission.	
212	QIA	QIA-85.1	ICRP Section 5.2.2. Waste Rock and Overburden Piles	ICRP What climate change scenarios have been considered in the modelling?				Climate change criteria used for modelling are from IPCC (2007). Baffinland has committed to account for climate change in the development of the thermal model for the waste rock stockpile (Appendix D.4 of the ICRP).	QIA requesting commitment to update ICRP with more recent climate change predictions		QIA-85.1	Resolved with commitment	Baffinland has committed to updating Se the ICRP prior to a Public Hearing to include the following information: o Current climate change modelling o Revised return periods for design and conveyance structures	e commitment for QIA-81.1.
213	QIA	QIA-85.2	Same as above	ICRP What sensitivity assessments have been made on rate and magnitude of permafrost and runoff?				Sensitivity assessments have not been conducted in regard to cover thickness to account for climate change, but it is not required given the conservatism in a 50 m thick cover. The proposed 50 m cover is an order of magnitude greater than approved cover thicknesses at other Nunavut mines based on the latest climate change predictions.	sensitivity assessments have been used for runoff in light of increased precipitation in a warming climate?		QIA-85.2	Resolved with commitment	Baffinland has committed to updating Se the ICRP prior to a Public Hearing to include the following information: o Current climate change modelling o Revised return periods for design and conveyance structures	e commitment for QIA-81.1.
214	QIA	QIA-85.3	Same as above	ICRP Compare the climate change predictions from 2007 that were used in the closure plan development with the most recent modelling completed in 2019 and comment on the implications to permafrost development and runoff management at closure.					The response addresses permafrost. What sensitivity assessments have been used for runoff in light of increased precipitation in a warming climate? Zhang, X., Flato, G., Kirchmeier-Young, M., Vincent, L., Wan, H., Wang, X., Rong, R., Fyfe, J., Li, G., Kharin, V.V. (2019): Changes in Temperature and Precipitation Across Canada; Chapter 4 in Bush, E. and Lemmen, D.S. (Eds.) Canada's Changing Climate Report. Government of Canada, Ottawa, Ontario, pp 112-		QIA-85.3	Resolved with commitment	Baffinland has committed to updating Se the ICRP prior to a Public Hearing to include the following information: o Current climate change modelling o Revised return periods for design and conveyance structures	e commitment for QIA-81.1.
215	QIA	QIA-86.1	ICRP 5.2.2.2 PRE-DISTURBANCE, EXISTING, AND FINAL SITE CONDITIONS p. 116	Ph1 WRMP Was this predicted from geochemical modelling and testing?				The potential for acid rock drainage was identified in the initial testing as part of the waste rock management plan (Baffinland 2014). This initial testing indicated a longer lead time to realization of acidic drainage than was observed in the field. Further geochemical testing was completed in 2019 (Golder 2019 in the Phase 1 WRMP, which is Attachment 32 of the Updated Application) that identified the presence of soluble sulphate materials and recommended modifications to the waste rock management plan that account for the observed conditions and additional geochemical considerations. The latest WRMP presents an updated summary of the geochemical characteristics of the waste rock.			QIA-86.1	Resolved	QIA is satisfied by Baffinland's response included in their November 4, 2021 submission.	

Item No.	Co	Technical Comment ID#	Document Reference	Subject Area	Intervenor July 2019 Recommendation/Request	Baffinland's Aug 2019 Response	Intervenor's October 2021 Status Update	Intervenor's October 25, 2021 Updated Recommendation /Request	Baffinland's November 4, 2021 Response	Intervenor Nov 12, 2021 Presentations	Paffinland Response to Nov 12, 2021 Presentations	ID#2	Status of Resolution (Dec 16, 2021)	Intervenor Comment (Dec 16, 2021)	Commitments
216	QIA QIA	A-86.2 S	Same as above	Ph1 WRMP	How has this development been considered in the closure planning?				Additional work has been completed to further characterize the geochemical characteristics of the materials including evaluation of soluble sulfate minerals and a review of waste deposition practices (Golder 2019). Thermal modelling was completed and the Phase 1 Waste Rock Management Plan was subsequently updated (issued as Rev 3 in 2020 and issued as Rev 8 incorporating adaptive management in Attachment 32 of the Updated Application) to evaluate for the presence of soluble sulfate minerals, and the depositional strategy was reviewed and updated such that potentially acid generation materials are placed in thin lifts, away from the edges of the pile, to promote freezeback such that acidic conditions do not develop in the pile or in seepage or runoff from the pile, both during operations, and in closure and post closure. Details of the measures taken are			QIA-86.2	Resolved	QIA is satisfied by Baffinland's response included in their Novembe 4, 2021 submission.	
217	QIA QIA	F	ICRP 5.2.2.6 PREDICTED RESIDUAL EFFECTS p. 119	ICRP	Please describe the mitigation options available to control Hg, Se and Ag in seepage and runoff from the site and whether these are suitable for long term deployment or batch/short term mitigation.				As noted in ICRP Appendix H (page 368), the mercury, selenium and silver concentrations adopted as source terms in water quality modelling were based upon laboratory method detection limits (only 2% of the data were above MDLs). Thus the modelling is highly conservative. Baffinland's response to QIA-79.1 discusses available theoretical treatment options that could be employed for metals removal, if that was required.			QIA-87.1	Resolved with commitment	Baffinland has committed to provide in its update to the ICRP prior to the PHC, a schedule as to when the ICRP will be further updated to include refined runoff estimates from the waste rock stockpile based on additional geochemical testing.	
218			Same as above	ICRP	Please include a Response Framework, Triggers and Action Levels for implementing enhanced mitigation for site runoff and seepage in the closure and post closure environment.				The Fresh Water, Sewage and Wastewater Management Plan includes a TARP for contact water that can be applied to closure and post-closure. However, at planned closure, Baffinland will have the benefit of significant experience mitigating adverse runoff from the Waste Rock Facility. This will provide guidance as to whether seepage concerns may occur at closure, and appropriate thresholds and responses.	This issue will need to be addressed and updated as the mine progresses.		QIA-87.2	Resolved	QIA is satisfied by Baffinland's response included in their Novembe 4, 2021 submission.	
219	QIA QIA	E F	ICRP Sect. 5.2.5.2 PRE- DISTURBANCE, EXISTING, AND FINAL SITE CONDITION ICRP 5.2.8.5 p. 152 Issue / Concern	ICRP	Will infrastructure be removed from the site or disposed on site (i.e. in waste rock piles or open pits)?				Selection of the final disposal option(s) will be made after receiving input from the Mine Closure Working Group, the QIA, and other regulatory agencies and stakeholders. The selected options will be described in the Final Closure and			QIA-88.1	Resolved	QIA is satisfied by Baffinland's response included in their Novembe 4, 2021 submission.	r
220	QIA QIA	A-88.2	Same as above	ICRP	What criteria will be used to determine fate and disposal?				Criteria used to determine whether non- hazardous materials are disposed of on-site or off- site will include: - space required/available in on-site landfills or other approved waste disposal locations - logistical constraints/level of effort required for on-site vs. off-site disposal options - cost of on-site vs. off-site disposal options - input from the Mine Closure Working Group	Has the QIA expressed any preferences and how will their preferences be addressed in the discussions of disposal options?		QIA-88.2	Resolved with commitment	Baffinland has committed to update the ICRP with the criteria that will be used to determine whether non- hazardous materials are disposed of on-site or off-site.	next update to the ICRP: •the criteria that will be used to determine
		E (ICRP 5.2.6.2 PRE-DISTURBANCE, EXISTING, AND FINAL SITE CONDITIONS p. 135 ICRP 5.2.6.5 p. 136	ICRP	What community uses have been identified for structures that are >100km from any existing communities?				Group (MCWG) to best incorporate considerations for post-closure land use of the Project site. Future discussions with the MCWG will include potential future uses for remaining structures at closure.	"community use" is dependent on the community dentifying a use for the docks. This feasibility should be established at the approvals stage, in the event that Baffinland needs to plan for removal of docks and associated costs.		QIA-89.1	Resolved with commitment	Baffinland has committed to continu dialogue with QIA on the ultimate fate of the Tote Road and docks at closure.	Tote Road and project docks at closure.
222	QIA QIA	A-89.2 S	Same as above	ICRP	Has Baffinland documented whether a community has specifically identified a need for the dock post closure?				Baffinland does not recall this being mentioned up to now. This will be a key point of discussion with the future Mine Closure Working Group.			QJA-89.2	Resolved with commitment	Baffinland has committed to continu dialogue with QIA on the ultimate fate of the Tote Road and docks at closure.	e See commitment for QIA-89.1
			Same as above	ICRP	Have CIRNAC or the communities indicated any agreement to assume liability for the ore docks?				acceptable level of liability exists for transfer of these remaining structures." Similar engagement and discussions will be held with communities and CIRNAC for the Milne Port docks prior to closure.	CIRNAC or QIA to assume liability should be established at the approvals stage in order to establish if this closure option is feasible. If not, then Baffinland needs to plan for removal of		QIA-89.3	Resolved with commitment	Baffinland has committed to continu dialogue with QIA on the ultimate fate of the Tote Road and docks at closure.	
224		5	ICRP 5.2.7.2 p. 144 and 5.2.7.5 p.146 Landfills	Landfill	Confirm if the proposed depth of overburden cover incorporate predictions for a warmer climate to accommodate a deeper active layer over time?				Commitment: Baffinland will review whether or not climate change has adequately been incorporated into the landfill cover thickness, particularly in reference to the latest climate change models			QIA-90.1	Resolved	QIA is satisfied by Baffinland's response included in their Novembe 4, 2021 submission.	BIM will review whether climate change has r adequately been incorporated into the landfill cover thickness, particularly in reference to the latest climate change models.
225	QIA QIA	E	ICRP 5.2.8.5. p. 152 ENGINEERING WORK ASSOCIATED WITH CLOSURE ACTIVITY	ICRP	What are the proposed effluent criteria for closure and what is the predicted timeline to meet the criteria?				Closure water quality will need to meet Type A Water Licence effluent criteria, territorial/federal guidelines, MMDHR, and/or site-specific risk-based criteria, as relevant to the specific project areas and components (Table 5.1, Closure Objectives, Criteria and Actions by Major Project Components). As indicated in Section 9.5 of the ICRP, an important detail of the post-closure monitoring program will be the clear distinction of what closure criteria will apply to which areas, such that an appropriate monitoring schedule is developed.			QIA-91.1	Resolved	QIA is satisfied by Baffinland's response included in their Novembe 4, 2021 submission.	See commitment for QIA-81.1.

Item No.	Agency Technica Commen ID#	Document Reference	Subject Area Intervenor July 2019 Recommendation/Request	Baffinland's Aug 2019 Response Interven October 2 Status Up	021 Recommendation / Request	d Baffinland's November 4, 2021 Response Intervenor Nov 12, 2021 Presentations	Baffinland Response to Nov 12, 2021 Presentations	ID#2	Status of Resolution (Dec 16, 2021)	Intervenor Comment Commitments (Dec 16, 2021)
226	QIA QIA-92.1	ICRP 6.2.1.1. Land Farm Operation, p. 155	ICRP Explain why the CCME (2008) risk-based methodology may be preferable to guidelines that are specific to Nunavut?			Section 2.4: Application of Remediation Criteria at Contaminated Sites in the Government of Nunavut Guideline for Contaminated Site Remediation (Government of Nunavut, 2019) is based heavily on the Canada-Wide Standards for Petroleum Hydrocarbons (PHC) in Soil (CCME, 2008). The three tiers of approaches provided in the two documents (Tier 1: Criteria-Based Approach, Tier 2: Modified-Criteria Approach, and Tier 3: Risk-Based Approach) are essentially identical. The guidelines provided in the Nunavut Guideline are not specific to Nunavut, and in fact the Tier 1 Guidelines in both documents are exactly the same. Both the Government of Nunavut and CCME guidelines provide information on when a modified-criteria or risk-based approach may be suitable. Per the Government of Nunavut guideline: - "In general, this modified-criteria approach is utilized in situations where site conditions, land use, receptors or exposure pathways differ only slightly from those assumed in the development of Tier 1 criteria." - "In criteria." - "In certain circumstances, neither the criteria-based or modified-criteria approach may be suitable for a site because pathways of exposure, target chemicals, receptors or other site characteristics differ significantly from those used to develop these more generic approaches."		QIA-92.1	Resolved	QIA is satisfied by Baffinland's response included in their November 4, 2021 submission.
227	QIA QIA-92.2	Same as above	ICRP What criteria would influence a decision to use the CCME protocol?			As noted in the response to QIA 92.1, the Tier 1, Tier 2 and Tier 3 approaches in the Government of Nunavut guideline are identical to those in the CCME guideline. Using a Tier 2 modified-criteria or Tier 3 risk- based approach would be considered if there were significant issues managing hydrocarbon- impacted soil in the landfarm using the Tier 1 criteria-based approach, such as if soil treated in the landfarm was not able to consistently meet the Tier 1 guidelines. The Tier 1 guidelines were developed based on generalized assumptions for site conditions, receptors, and exposure pathways, and some of these assumptions may differ slightly or significantly from the site conditions, receptors and exposure pathways at the Mary River Project sites. Using a Tier 2 or Tier 3 approach would utilize site-specific information rather than generalized assumptions, and would generate site-specific soil quality guidelines for the Project that are protective of human health and the environment.		QIA-92.2	Resolved	QIA is satisfied by Baffinland's response included in their November 4, 2021 submission.
228	QIA QIA-93.1	ICRP 7.1 SHORT-TERM TEMPORARY MINE CLOSURE – CARE AND MAINTENANCE p. 159	ICRP Confirm if Baffinland has developed a list of all necessary temporary closure activities in order of importance to guide execution of temporary closure and inform the level of effort required.			Section 7.1 describes the activities that would be undertaken in a short-term temporary closure scenario. All of the specified activities are the minimum requirements in this scenario and will be executed.		QIA-93.1	Resolved	QIA is satisfied by Baffinland's response included in their November 4, 2021 submission.
	QIA QIA-94.1	ICRP Figure 8.1 Final Closure Schedule	disposed. Will they be disposed of on-site or off- site?			Rails and ties are inert, non-hazardous materials and would be suitable for either on-site or off-site disposal. Final determination of the disposal location will be determined closer to closure in consultation with the Mine Closure Working Group. Baffinland will update the ICRP to indicate that rails and ties will be removed and either recycled, shipped offsite to an appropriate facility for disposal, or deposited within an onsite landfill, the open pit or other approved repositories.		QIA-94.1	Resolved	QIA is satisfied by Baffinland's response included in their November 4, 2021 submission.
230	QIA QIA-95.1	IcRP Pit Flooding Also See QIA TC "Enhanced Pit Filling"	IICRP Which enhanced flooding scenario does the 10 year timeline assume and what are the associated sources and water withdrawal rates?			It is clearly stated in Section 9.2.4 of the ICRP that the 10 year timeline for enhanced pit filling was assumed solely for the purposes of devising a monitoring program. The 10-year timeline that is tentatively assumed in Section 9.5 was also flows or distances. Rate of filling has implications assumed for the purposes of determining aquatic monitoring requirements at closure. No enhanced flooding scenario associated with the 10-year timeline has been developed. Further work will be undertaken no potential enhanced pit filling timelines. When further refinements of these potential timelines are available, sections of the ICRP where pit filling timelines had been assumed will be updated.		QIA-95.1	Resolved	Baffinland committed to provide a firm schedule as to when these considerations will be addressed in the next iteration of the ICRP.
231	QIA QIA-96.1	ICRP Section 9.6 Environmental Site Assessment p. 190	ICRP Confirm which guidelines will be used in the ESA process and that the guidelines chosen are protective of the environment.			Tier 1 Guidelines provided in the Environmental Guideline for Contaminated Site Remediation will be used, however site-specific guidelines will be used if they have been developed during the life of the mine. Tier 1 Guidelines or site-specific guidelines (if available) are protective of human health and the environment.		QJA-96.1	Resolved	QIA is satisfied by Baffinland's response included in their November 4, 2021 submission.

Item No.	n Agency	y Technical Comment ID#	Document Reference	Subject Area	Intervenor July 2019 Recommendation/Request	Baffinland's Aug 2019 Response	Intervenor's October 2021 Status Update	Intervenor's October 25, 2021 Updated Recommendation / Request	Baffinland's November 4, 2021 Response	Intervenor Nov 12, 2021 Presentations	Baffinland Response to Nov 12, 2021 Presentations	ID#2	Status of Resolution (Dec 16, 2021)	Intervenor Comment (Dec 16, 2021)	Commitments
232	QIA	QIA-97.1	ICRP Appendix D1 Reclamation Research Program – Open Pit Water Quality p. 293	ICRP	Describe what elements of conservatism in the pit water quality model result in the predicted water quality at closure.				Further details on the mass balance modelling an provided in Appendix H of the ICRP (FEIS Freshwater Quality Predictions). Factors that support the modelled water quality being highly conservative include: - The model assumes near-instantaneous mixing in riverine environments due to the discharge to receiving flow ratio, and no modification of indicators due to precipitation, speciation, attenuation or degradation. (page 366) - For a number of parameters sampled in the humidity cell tests, metals were measured at or below the analytical method detection limit (MD for a large proportion of samples. Generall (Mb MDLs are high relative to the selected water quality objectives (CCME PAL or SSWQOS). For these parameters, the values assigned were set a one-half the MDL (AMEC, 2012a). The 90th percentile calculated source term was influenced by predicted water quality results based largely on the non-detect results in the humidity cells for the following metals: mercury (Hg), selenium (Se), copper (Cu), arsenic (As), cadmium (Cd), chromium (Cr), silver (Ag) and thallium (TI). Consequently, the modelled water quality for these parameters is highly conservative. (page 368)	t) r r		QIA-97.1	Resolved	QIA is satisfied by Baffinland's response included in their November 4, 2021 submission.	
233	QIA		Same as above	ICRP	Describe the origin of the conservative model inputs and compare with realistic measured values.				measured at or below the analytical method detection limit (MDL) for a large proportion of samples in both humidity cell tests (used to generate source terms) and baseline water qualitisamples in the receiving environments. In these cases, values assigned were set at one-half the MDL for the humidity cell tests, and were set at the MDL for the baseline dataset. These are conservative assumptions as they are based on realistic measured values which were in many cases below the MDL. Estimates for pit water quality assume that durin the latter portion of the mine life, pH may decrease below the lower limit of the MDMER (pH 6.0). It is therefore assumed that pH adjustment of the pit water will be required in th second half of mine life and into post-Closure. However, the source terms applied in the water quality modelling assume no treatment as a conservative measure.	e Please describe how "realistic measured values" can be "below the MDL". Values below the MDL cannot be measured y		QIA-97.2	Resolved	OJA is satisfied by Baffinland's response included in their November 4, 2021 submission.	
234	QIA	QIA-97.3	Same as above	ICRP	Provide a range of modelling outcomes based on a realistic range of pit conditions (or varying conservatism) at closure and explain which scenarios are most likely				Further modelling of pit water quality conditions will be completed as part of additional research a discribed in Appendix D of the ICRP (Reclamation Research Plans)	es		QIA-97.3	Resolved	QIA is satisfied by Baffinland's response included in their November 4, 2021 submission.	
235	QIA	QIA-97.4	Same as above	ICRP	Provide a comparison of the short term and long term water quality in the pit lake at closure and describe how the chemistry of the lake may				See response to QIA-97.3.			QJA-97.4	Resolved	QIA is satisfied by Baffinland's response included in their November 4, 2021 submission.	
236	QIA		ICRP Research Task — Pit Lake Meromikis p. 297		change once the nit is flonded Provide an update on the status of the meromixis research program, any findings to date and comment on whether meromixis is proposed as a closure option for the pit lake.				Baffinland continues to include a meromixis research program in future plans for closure research. Discussions with experts has identified need to collect meteorologic data from the top o Deposit 1 to inform future modelling on meromixis of the PIt Lake. Baffinland will be investigating strategies to collect this data given the harsh conditions atop Deposit 1 that can impact instrumentation in this location.	scientific literature relating to meromictic pit lakes in cold regions should be carried out." Has the		QJA-98.1	Resolved with commitment	firm schedule as to when these considerations will be addressed in the next iteration of the ICRP.	iee commitment for QIA-S1.1.
237	QIA	QIA-99.1	iCRP Research Task Open Pit Water Quality Research Results p. 297	Ph1 WRMP	What geochemical tests have been completed on the ore body to date?				Geochemical testing completed to date is summarized in Section 2.4.2 of the Phase 1 Wash Rock Management Plan (Attachment 32). A more detailed discussion is provided in Appendix B of the Phase 1 Waste Rock Management Plan, specifically in Appendix A1 of the Appendix B			QIA-99.1	Resolved	QIA is satisfied by Baffinland's response included in their November 4, 2021 submission.	
238	QIA		Same as above	Ph1 WRMP	ore characteristics.				Humidity cell tests have not been conducted on the ore. The focus of geochemical testing including humidity cell tests is the waste rock tha will be lieft behind. This is standard practice in characterizing mine wastes. A summary of humidity cell testing of waste rock is provided in Section 2.4.2 of the Phase 1 Waste Rock Management Plan (Attachment 32).			QJA-99.2	Resolved	QIA is satisfied by Baffinland's response included in their November 4, 2021 submission.	
239	QIA	QIA-99.3	Same as above	ICRP	Compare the above results to the inputs to the pit lake model and comment on the conservatism of the pit water quality model.				The historical geochemical testing and humidity cell tests were used to generate source inputs for the pit lake water quality model. As described in detail in the response to QIA 97.1, the use of these results contributes to the conservatism of the water lake water quality model.			QIA-99.3	Resolved	QIA is satisfied by Baffinland's response included in their November 4, 2021 submission.	

Iten	Agency	Technical Comment	Document Reference	Subject Area	Intervenor July 2019 Recommendation/Request	Baffinland's Aug 2019 Response	Intervenor's October 2021	Intervenor's October 25, 2021 Updated Recommendation /Request	Baffinland's November 4, 2021 Response	Intervenor Nov 12, 2021 Presentations	Baffinland Response to Nov 12, 2021 Presentations	ID#2	Status of Resolution (Dec 16, 2021)	Intervenor Comment (Dec 16, 2021)	Commitments
		ID#			necommendation, nequest		Status Update	necommendation, nequest					(500 10) 2021)	(500 10) 2021)	
240	QIA	QIA-99.4	Same as above	ICRP	What existing results could be used to test the				As no pit lake currently exists, there are no	Pending ongoing review as more data are		QIA-99.4	Resolved with commitment	Baffinland committed to provide a	See commitment for QIA-81.1.
					conservatism of the water quality model?				existing results that can be directly correlated to	obtained and the model is refined. Baffinland has				firm schedule as to when these	
									future pit water quality. Existing results are	identified treatment and mitigation options that				considerations will be addressed in	
									available for water quality in runoff from the	can be applied to manage water quality in the pit.				the next iteration of the ICRP.	
									Waste Rock Facility, and it is instructive to look at						
									how these results relate to the pit water quality						
									model. Elevated concentrations of some metals						
									have been observed in runoff from the Waste						
									Rock Facility that were not in agreement with						
									observations from historical humidity cell test. As						
									a result, an additional geochemistry program was						
									undertaken in 2019 as described in Appendix A1						
									of Appendix B to the Phase 1 Waste Rock						
									Management Plan (Attachment 32). Section 5.0 of						
									Appendix A1 provides a comparison of the results						
									from the 2019 geochemistry program to historical						
									geochemical data (that has informed the						
									development of the pit lake water quality model).						
									This section concludes that "All the historical						
									dataset is from areas outside the current Deposit						
									1 mining area with some samples from within the						
									planned 2021 expansion. The differences in the						
									geochemical results between the 2019 blasthole						
									data and the historical suggests that Non-AG						
									material with stored acidity may be limited to the						
									current area of Deposit 1." This suggests that						
		1							existing water quality data for runoff from the				1		
		l							Waste Rock Facility is not indicative of what will				1		
		1							occur when the pit lake is developed.				1		
		1											1		