Appendix 1

Type "B" Water Licence Renewal and Amendment Application



General Water Licence Application (Application for a new Water Licence)

Document Date: May 2011

Application Submission Date: 04/24/2014

Month/Day/Year

P.O. BOX 119 GJOA HAVEN, NUNAVUT XOB 1J0

Tel: (867)360-6338 Fax: (867)360-6369 אבת איי באבי האביר האביר האביר אוניים. איי באביר האביר האביר אוניים אוניים איי באביר האביר וואביר האביר האביר האביר של האביר האביר

DOCUMENT MANAGEMENT

Original Document Date: April 2010

DOCUMENT AMENDMENTS

	Description	Date
(1)	Updated for public distribution as separate document from NWB Guide 4	June 2010
(2)	Updated NWB logos and reformatted table to allow rows to break across page	May 2011
(3)	-	
(4)		
(5)		
(6)		
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(8)		
(9)		
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P.O. Box 119 GJOA HAVEN, NU X0B 1J0 Tel: (867) 360-6338 FAX: (867) 360-6369 NUNAVUT WATER BOARD
NUNAVUT IMALIRIYIN KATIMAYIT
OFFICE DES EAUX DU NUNAVUT

GENERAL WATER LICENCE APPLICATION (APPLICATION FOR NEW WATER LICENCE)

The applicant is referred to the NWB's Guide 4: <u>Guide to Completing and Submitting a Water Licence Application for a New Licence</u> for more information about this application form.

LICENCE NO:

(for NWB use only)

1. APPLICANT (PROPOSED LICENSEE)
CONTACT INFORMATION (name, address)

Name: Erik Madsen, Vice President, Sustainable Development, Health, Safety and Environment

Baffinland Iron Mines Corporation Suite 300, 2275 Upper Middle Rd East Oakville, ON L6H 0C3

Phone 416.364.8820 (Main) 416.814.3980 (Direct)

Fax: 416-364-0193

e-mail: erik.madsen@baffinland.com (cc jim.millard@baffinland.com)

2. APPLICANT REPRESENTATIVE CONTACT INFORMATION if different from Block 1 (name, address)

n/a

3. NAME OF PROJECT (including the name of the project location)

Mary River Site Preparation, Milne Port, Baffin Island

4. LOCATION OF UNDERTAKING

Project Extents

NW: Latitude: (72 ° 05 '00 " N) Longitude: (77 °45'00 " W)
NE: Latitude: (72 °05 00 " N) Longitude: (81 °00'00 " W)
SE: Latitude: (69 °49'00 " N) Longitude: (81 °00'00 " W)
SW: Latitude: (69 °49' 00" N) Longitude: (77 °45' 00" W)

Camp Location(s)

Mary River Mine Site Camp Latitude: (71 °19 '30 " N) Longitude: (79 ° 22 ' 40" W) Milne Port Camp Latitude: (71 °53 '00 " N) Longitude: (80 ° 54 ' 15" W)

5. MAP - Please see the site layout presented in Appendix 5.

6.	NATURE OF INTEREST IN THE LAND - Check any of the following that are applicable to the proposed undertaking (at least one box under the 'Surface' header must be checked).
	Sub-surface
	Mineral Lease from Nunavut Tunngavik Incorporated (NTI) Date (expected date) of issuance: Date of expiry:
	X Mineral Lease from Indian and Northern Affairs Canada (INAC) Date (expected date) of issuance:
	Surface
	X Crown Land Use Authorization from Indian and Northern Affairs Canada (INAC)
	Land Use Permit N2007F0004 expiry: July 4, 2014 Quarry Permit 2012QP0065 expiry: July 4, 2014 Quarry Permit 2013QP0086 expiry: July 4, 2014 Water Licence – Type B – 2BE- MRY1421 expiry: April 16, 2021 Water Licence – Type B – 8BC-MRY1314, (subject of this renewal application) Water Licence – Type A – 2AM-MRY1325 expiry: June 10, 2025
	☐ Inuit Owned Land (IOL) Authorization from Kitikmeot Inuit Association (KIA) Date (expected date) of issuance: Date of expiry:
	☐ IOL Authorization from Kivalliq Inuit Association (KivIA) Date (expected date) of issuance: Date of expiry:
	X IOL Authorization from Qikiqtani Inuit Association (QIA) Inuit Land Use Lease and Quarry Concession (Commercial Lease Q13C301) – September 6, 2013 no expiry
	Commissioner's Land Use Authorization Date (expected date) of issuance: Date of expiry:
	X Other: Exploration agreement with NTI for a land package surrounding Mining Leases 2483, 2484 and 2485 Date (expected date) of issuance: 1992 Date of expiry: 2034
	Name of entity(s) holding authorizations: Baffinland Iron Mines Corporation
7.	NUNAVUT PLANNING COMMISSION (NPC) DETERMINATION
	Indicate the land use planning area in which the project is located.
	X North Baffin
	Is a land use plan conformity determination required?
	X Yes
	If Yes, indicate date issued and attach copy: NPC decision issued in April 2014, see attached –

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	Appendix 2 If No, provide written confirmation from NPC confirming that a land use plan conformity review is not required.	
8.	NUNAVUT IMPACT REVIEW BOARD (NIRB) DETERMINATION	_
	Is an Article 12 Part 4 screening determination required?	
	Yes X No	
	Positive recommendation to amend Mary River Project Certificate No. 005 for activities applied for under the Early Revenue Phase was received on March 18, 2014. The document can be viewed on NIRB's public website, document titled: Nunavut Impact Review Board, Public Hearing Report, Mary River Project: Early Revenue Phase Proposal, Baffinland Iron Mines Corporation, NIRB File No. 08MN053, March 2014.	
9.	DESCRIPTION OF UNDERTAKING - List and attach plans and drawings or project proposal.	
	Baffinland Iron Mines Corporation is applying for the renewal and amendment of Type B Water Licence 8BC-MRY1314 to include water use of up to 299 m3/day from two water sources already approved under Baffinland's Type "A" Licence. The additional water use is a temporary requirement whilst infrastructure of the ERP is constructed. The average camp occupancy and water use predicted on an annual basis by Baffinland and assessed by the Nunavut Impact Review Board remains unchanged. However, climatic conditions necessitate a compressed construction schedule during the summer months where daily water take may exceed water allowance under Baffinland's Type "A" Licence. The amendment to this Licence would enable Baffinland to draw up to 299 m3/day of water from Philips Creek or km 32 Lake along the Tote Road. The hydrology assessment provided in Appendix 4 indicates that this additional water use is negligible given water flows and that both water sources will not be negatively impacted as a result of the proposed additional water use. This amendment would also enable Baffinland to install and operate, if required for contingency,	
	an additional polishing waste stabilization pond (PWSP) at Milne Port for handling effluent generated during peak capacity at the construction camp.	
	For a more detailed description of the undertaking, please refer to Appendix 3 and drawings in Appendix 5 of the application.	
10.	OPTIONS – Provide a brief explanation of the alternative methods or locations that were considered to carry out the project.	
	The alternative consists of housing the construction crews at the Mary River camp (100 km from Milne Port) with daily transportation of construction workers to and from Milne Port along the Milne Inlet Tote Road. This alternative would result in a longer construction period, more cost and increased health and safety risk to workers being transported along the Tote Road. Further, this option would not reduce the overall required water use in the region or enable Baffinland to utilize the more localized water source at Phillips Creek or km 32 Lake.	
11.	CLASSIFICATION OF PRIMARY UNDERTAKING - Indicate the primary classification of undertaking by checking one of the following boxes.	
	X Industrial (Milne Port Construction)	
	☐ Municipal (includes camps/lodges) ☐ Recreational	

24139.117977.CJK.8976180.2

	Power	☐ Miscellaneous (describe below):
	See Schedule II of Northwest Tel	rritories Waters Regulations for Description of Undertakings.
		oplicable Supplemental Information Guidelines (SIG) must be nce Application. Indicate which SIG(s) are applicable to your
	Hydrostatic Testing Tannery Tourist / Remote Camp Landfarm & On-Site Storage Onshore Oil and Gas Explora Mineral Exploration / Remote Advanced Exploration X Mine Development Municipal General Water Works Power	
12.		priate box(s) to indicate the type(s) of water use(s) being
	applied for.	
	X To obtain water for camp/ mun X To obtain water for industrial p To cross a watercourse To alter the flow of, or store w Other:	ourposes
13.	Block 12, provide the source of v	WATER INVOLVED - For each type of water use indicated in water, the quality of the water source and available capacity, d in cubic meters per day, method of extraction, as well as the to be returned to source.
	and summer) along the Tote Roa Phase facilities and additional do construction period. Under this Ty use up to a combined total of 299	rawn from Phillips Creek (summer only) and km 32 Lake (winter d to satisfy the requirements for construction of the Early Revenue mestic consumption due to increased workforce during the type B Licence Amendment Baffinland is requesting the flexibility to m³/day from Phillips Creek and or km 32 Lake during summer ment contained in Appendix 4 supports this request from a tandpoint.
	Describe the quality of water(s) re	eturned to source(s):
		umped to a sewage treatment plant. The discharge of treated A Water Licence 2AM-MRY1325 Water Licence effluent
14.	WASTE – Check the appropriate deposited.	e box(s) to indicate the types of waste(s) generated and

	X Sewage
	Other (describe): All waste water and wastes generated during the construction of the ERP facilities will be handled in accordance to the terms and conditions of the Type A Water Licence 2AM-MRY1325
15.	QUANTITY AND QUALITY OF WASTE INVOLVED – For each type of waste indicated in Block 14, describe its composition, quantity in cubic meters/day, method of treatment and method of disposal.
	Quantity of grey water/sewage to be treated: 50 m ³ /day Quantities of sludge produced: 750 L/day (Incinerated and ash tested, if harmless disposed at Mary River landfill site).
16.	OTHER AUTHORIZATIONS – In addition to the sub-surface and surface land use authorizations provided in Block 6, indicate any other authorizations required in relation to the proposed undertaking. No other authorizations required.
17.	PREDICTED ENVIRONMENTAL IMPACTS OF UNDERTAKING AND PROPOSED MITIGATION MEASURES - Describe direct, indirect, and cumulative impacts related to water and waste.
	No significant effects on water quantity or water quality. Refer to Appendix 4 for Hydrological Study for Philips Creek and 32 KM Lake. Treated sewage effluent will meet Type A Water Licence 2AM-MRY1325 effluent discharge criteria and will be discharged to the marine environment. No significant effects predicted.
	The water intake and discharge of treated effluent will be monitored as part of the Type A Licence 2AM-MRY1325 Aquatic Effects Monitoring Plan.
18.	WATER RIGHTS OF EXISTING AND OTHER USERS OF WATER
	Water compensation agreement with QIA as part of Commercial lease Q13C301 (Section 4.3)
19.	INUIT WATER RIGHTS
	Baffinland does not anticipate the planned activities under application will have any impact on Inuit water rights. Baffinland has a Water Compensation Agreement in place with the QIA as part of our Commercial Production Lease.
20.	CONSULTATION – Provide a summary of any consultation meetings including when the meetings were held, where and with whom. Include a list of concerns expressed and measures to address concerns.
	Activities, infrastructure and potential environmental effects were considered during the NIRB technical review process and hearings, culminating in the issuance of the NIRB Project Certificate in

December 2012, as well as the NPC and NIRB review process for the amendment process for activities and infrastructure related to the Early Revenue Phase.

21. SECURITY INFORMATION

A total Security amount, under the Type A Licence is posted in respect of the Mary River facilities. Currently \$122,000 is posted under Type B Water Licence 8BC-MRY1314. The \$122,000 accounts for the 2014 Work Plan which includes the construction camp and its associated sewage treatment facility. Refer to Submission to NWB of 2014 Work Plan and Security Estimate on 31 October, 2013. Additional security for construction of facilities such as a Polishing Waste stabilization Pond proposed under this licence amendment (for contingency purposes) is described in Appendix 8. Baffinland suggests that the additional security of \$24,807 is held with the landowner, the QIA.

22. FINANCIAL INFORMATION

Provide a statement of financial responsibility.

Baffinland Iron Mines Corporation (the "Company") is a corporation organized pursuant to the Business Corporations Act (Ontario) ("OBCA") with its registered office at 2275 Upper Middle Road East – Suite 300, Oakville, Ontario, L6H 0C3. The Company was formed following the amalgamation of 1843208 Ontario Inc. ("1843208") and Baffinland Iron Mines Corporation ("BIM"), a corporate predecessor of the Company. ArcelorMittal Mines Canada and Nunavut Iron Ore ("NIO") each hold 50% of the outstanding common shares of the Company.

The Company is the sole general partner of Baffinland Iron Mines LP ("BIM LP"), a limited partnership formed under the Limited Partnerships Act (Ontario) pursuant to a declaration of limited partnership made on January 1, 2013 and a limited partnership agreement entered into on January 1, 2013 between 1843208, ArcelorMittal Mines Canada Holding LP (subsequently renamed Mary River Project Manitoba Holding LP – "Holding LP") and NIO in which the Company holds a 42.5% partnership interest. Holding LP and NIO each hold a 28.75% limited partnership interest in BIM LP. BIM LP is the current beneficial owner of advanced stage, direct shipping iron ore development prospects located on its Mary River Property on Baffin Island, Nunavut (the "Project").

If the applicant is a business entity, provide a list of the officers of the company.

Please refer to Appendix 7.

If the applicant is a business entity attach a copy of the Certificate of Incorporation or evidence of registration of the company name.

Please refer to Appendix 7.

23. STUDIES UNDERTAKEN TO DATE - List and attach copies of studies, reports, research, etc.

See Mary River Final Environmental Impact Statement (FEIS), the Addendum to the FEIS and Baffinland Application for Type A Water Licence.

24. PROPOSED TIME SCHEDULE – Indicate the proposed start and completion dates for each applicable phase of development (construction, operation, closure, and post closure).

Construction Proposed Start Date:	July 1, 2014	Proposed Completion Date: September 31, 2017	
•	(month/year)	(month/year)	

	For each applicable phase of development indicate which season(s) activities occur.			
	Construction ☐ Winter ☐ Spring	Summer []Fall x All seasc	n
25.	PROPOSED TERM O	F LICENCE		
	Number of years (maxi Licence amendment or			ears (to be replaced by Type A Water
	Requested Date of Iss September/2017		•	ested Expiry Date:
		(month/y	ear)	(month/year)
	Water Licence and <u>at lear</u> processing of the Water time to complete any p applicant to prepare and	ast one (1) year from Licence application. re-licensing land us submit a Water Licen he time for the appli	the date of application. These timeframes are planning or develonce application in accordant to respond to res	from the date of application for a Type B in for a Type A Water Licence, to allow for e approximate and do not account for the poment impact requirements, time for the ordance with any project specific guidelines quests for additional information. See the primation)
26.	ANNUAL REPORTING details regarding the coreport.	G – If not using the ontent of annual re	NWB's <u>Standardize</u> ports and a propose	d Form for Annual Reporting, provide d outline or template of the annual
	Baffinland will use the	standardized form.		
27.	7. CHECKLIST – The following must be included with the application for the water licensing proceedings.			
	Written confirmation from the NPC confirming that NPC's requirements regarding land use plan conformity have been addressed.			uirements regarding land use plan
	X Yes	□No	If no, date expecte	d
	Written confirmation from the NIRB confirming that NIRB's requirements regarding development impact assessment have been addressed.			quirements regarding development
	X Yes	□No	If no, date expecte	d
	Completed General W	ater Licence Applic	ation form.	
	X Yes	□No	If no, date expecte	d
	Information addressing	Supplemental Info	rmation Guideline (SIG), where applicable (see Block 11)
	X Yes	□No	If no, date expecte	d

	English Summary o	of Application.		
	X Yes	☐ No	If no, date expected	
	Inuktitut and/or Inui	nnaqtun Summary of	Application.	
	X Yes	☐ No	If no, date expected:	2 May 2014
	Application Fee of \$	30.00 CDN (Payee R	Receiver General for Can	ada).
	X Yes	□No		Application Fee will be sent by cheque with the hard copy of this application, expected 15 May 2014
	use tee will be cal	culated by the NWB	(Payee Receiver General based upon the amour me of issuance of the lice	al for Canada). The actual water nt of water authorized for use in ence.
	X Yes	□ No	If no, date expected:	Water Use Fee Deposit will be sent by cheque with the hard copy of this application, expected 15 May 2014
28.	SIGNATURE			
		Sustainable	Development	
Enk	<u>Madsen</u> Jame (Print)	Vice Presiden Title (Print	t Cul	April 24, 20 Date