



2014 QIA and NWB Annual Report

March 31, 2015

# APPENDIX A CONCORDANCE TABLES



	Concordance Table with Type	A Water Licence 2/	AM -MRY1325	
	Type A 2AM-MRY 1325		The 2014 QIA and NWB Annual Report	
Condition No.	Condition	Report Reference/Response		
	eral Conditions rt referred to in Part B, Item 4 shall include:			
1	The Licensee shall file with the Board, no later than March 31st of the year following the calendar year being reported, an Annual Report on the appurtenant undertaking which shall contain the following information:	See below	Annual Report submitted on March 31, 2015	
a.	WATER			
i.	The monthly and annual volumes, in cubic meters, of all fresh Water withdrawn for domestic and industrial purposes from each source in, on, or flowing through Inuit-owned land in accordance with Part E, Items 3 and 4 of the License;	Section 2.1 Table 2.1	Water Use Daily, Monthly and Annual Quantities of Water for Camps Mary River Project form Inuit-Owned Land and Crown Land	
ii	The monthly and annual volumes, in cubic meters, of all freshwater obtained for domestic and industrial purposes from each source in, on, or flowing through Crown Lands in accordance with Part E, Items 3 and 4 of the Licence;	Section 2.1 Table 2.1	Water Use Daily, Monthly and Annual Quantities of Water for Camps Mary River Project form Inuit-Owned Land and Crown Land	
iii	The combined monthly and annual volumes in cubic meters of all fresh Water withdrawn for domestic and industrial purposes from sources in, on, or flowing through both Inuit-Owned Land and Crown Lands	Section 2.1 Table 2.1	Water Use Daily, Monthly and Annual Quantities of Water for Camps Mary River Projection Inuit-Owned Land and Crown Land	
iv	The monthly and annual volumes of reclaimed or recycled Water used and the purposes for which it is used;	N/A	No reclaimed or recycled water was used during 2014	
b	WASTE			
i	The monthly and annual volume in cubic meters of treated Sewage effluent discharged from each Sewage Treatment Facility including each Polishing Waste Stabilization Pond;	Section 2.2.2 Table 2.3	Treated Sewage Effluent Discharged at Wastewater Treatment Facilities(WWTF's) and Any Water Discharged from PWSP's Monthly and Annual Quantities of Treated Sewage Effluent and Sludge Removed	
ii	The monthly and annual volume in cubic meters of treated wastewater discharged from each Oily Water/Wastewater Treatment Facility;	Section 2.3.3 Table 2.2	Treated Sewage Effluent Discharged at Wastewater Treatment Facilities(WWTF's) Monthly and Annual Quantities of Treated Oily Waste Effluent	
iii	Monthly and annual quantities of all Effluent discharged from each Surface Water Management (SWM) Pond	N/A	No discharge from SWM Ponds during 2014	
iv	The monthly and annual volumes in cubic meters of Sludge removed from each Sewage Treatment Facility and disposed of at each Landfill Facility or any approved alternative disposal facility	Table 2.3	Monthly and Annual Quantities of Treated Sewage Effluent and Sludge Removed	



Concordance Table with Type A Water Licence 2AM -MRY1325				
	Type A 2AM-MRY 1325		The 2014 QIA and NWB Annual Report	
Condition No.	Condition	Report Reference/Response		
V	The monthly and annual volume in cubic meters of hazardous waste generated and transported from the Project sites to Licensed facility outside of Nunavut for treatment	Section 2.2.4 Appendix E.1 Appendix E.4	Solid Non-Hazardous and Hazardous Waste Management Waste Management Program 2014 Shipping Manifest (Onsite and Offsite)  Hazardous Waste Management Plan (BAF-PH1-830-P16-0011) (provides monthly and annual details on quantities)	
vi	The monthly and annual volume in cubic meters of any wastes backhauled to communities in Nunavut for treatment	N/A	No wastes were backhauled to communities in Nunavut for treatment in 2014	
vii	The monthly and annual volume in cubic meters of waste deposited at each Landfill Facility	Section 2.2.4 Table 2.4.1	Solid Non-Hazardous and Hazardous Waste Management Monthly and Annual Quantities of Waste Disposed in a Non Hazardous Landfil Facility	
	Monthly and annual volume in cubic meters of hydrocarbon impacted soil and water deposited at each Landfarm Facility	Section 2.2.4 Table 2.4.1	Solid Non-Hazardous and Hazardous Waste Management Monthly and Annual Quantities of Hydrocarbon Impacted Soils and Snow Disposed at the Landfarm	
ix	The monthly and annual volume in cubic meters of Sewage transported for treatment from the Railway camps to the Mine Site and Steensby Port Site Sewage Treatment Facilities	N/A	No Railway Camps were used in 2014	
х	The monthly and annual quantities of waste rock generated and used or disposed of	Table 2.4.3 Section 2.2.5	Monthly and Annual Quantities of Ore and Waste Rock Generated and Disposed of Ore and Waste Rock Quantities	
xi	Summary of quantities and analysis of seepage and runoff monitoring from the Landfill Facilities, Landfarm facilities, and any other relevant facilities including ponds embankment dam	Section 2.3.4 Table 2.6	Seepage Water Quality Results for Water Quality Monitoring	
xii	A summary report of solid waste disposal activities including monthly and annual quantities in cubic meters of waste generated and location of disposal	Section 2.2.4 Appendix E.1	Solid Non-Hazardous and Hazardous Waste Management Waste Management Program 2014  Waste Management Plan (BAF-PH1-830-P16-0028) (provides monthly and annual details on quantities and disposal locations)	
С	SPILLS			
i	A list and description of all unauthorized discharges, including volumes and spill report line identification number and summaries of follow-up action taken	Section 6.0 Table 6.1	Unauthorized Discharges Summary of Unauthorized Discharges	
ii	A list of unauthorized discharges and a summary of follow-up action(s) taken	Section 6.0 Table 6.1	Unauthorized Discharges Summary of Unauthorized Discharges	



	Concordance Table with Type A Water Licence 2AM -MRY1325					
	Type A 2AM-MRY 1325	The 2014 QIA and NWB Annual Report				
Condition No.	Condition	Report Reference/Response				
iii	A summary of any updates or revisions to the Spill Contingency Plan	Section 8	Updates to Management Plans  Spill Contingency Plan (BAF-PH1-830-P16-0036)			
d	MODIFICATIONS					
i	A summary of modifications and/or major maintenance work carried out on all water and waste related structures and facilities;	Section 1.2 Section 3 Appendix D.1	Summary of Project Activities for 2014 Construction Activities Construction Summary Report Status			
е	MONITORING					
i	The results of monitoring under the AEMP framework and other monitoring requirements	Section 2.3.7 Appendix E.10	Aquatic Effects Monitoring Program (AEMP) Aquatic Effects Monitoiring Reports			
ii	Results of thermal monitoring and/or research carried out in conjunction with the Waste Rock Management Plan and disposal of potentially acid generating and metal leaching materials, permafrost integrity along the railway alignment and other project sites;	Section 4.0 Appendix E.5	Geochemical Waste Rock Studies and Operational Testing Results Waste Rock Geochemistry Report			
iii	Tabular summaries of the results and interpretation of all data generated under the Monitoring Program in Part I and Schedule I	Table 2.5 Table 2.6 Section 2 Section 2.3.7	Water Licence Water Quality Monitoring Locations Water Quality Results for Water Licence Monitoring Locations Water Use and Waste Disposal Activities Aquatic Effects Monitoring Program (AEMP)			
f	CLOSURE					
i	A summary of any progressive closure and reclamation work undertaken including photographic records of site conditions before and after completion of operations, and an outline of any work anticipated for the next year, including any changes to implementation and scheduling	Section 9 Appendix D.3 Appendix E.1 Appendix E.4 Appendix E.8	Progressive Reclamation Work Photo Journal Waste Management Program 2014 Shipping Manifest (Onsite and Offsite) Decommissioning Milne Inlet Fuel Bladder Farm			
ii	An updated estimate of the current restoration liability required under part C, Item, 1b, based upon the results of progressive restoration, restoration research, project development monitoring, and any changes or modifications to the project	Appendix E.9	2014 Marginal Reclimation and Closure Security Estimate			
g	PLANS/REPORTS/STUDIES					
i	A summary of any studies requested by the Board that relate to Waste disposal, Water use or Reclamation, and a brief description of any future studies planned	Section 2 Section 9	Water Use and Waste Disposal Activities Progressive Reclamation Work			
ii	Where applicable, revisions provided as Addendums with an indication of where changes have been made for Plans, Reports, and Manuals	Section 8	Updates to Plans			



	Concordance Table with Type A Water Licence 2AM -MRY1325					
	Type A 2AM-MRY 1325		The 2014 QIA and NWB Annual Report			
Condition No.	Condition	Report Reference/Response				
iii	An executive summary in English, Inuktitut and French of all plans, reports, or studies conducted under this Licence	Foreword	Executive Summary (English) (Inuktitut) (French)			
iv	A summary, including photographic records before, during and after construction activities, of any modifications and/or major maintenance work carried out on facilities and Infrastructure designed to contain, withhold, divert or retain Water or Wastes, and an outline of any work anticipated for the next year	Section 3 Appendix D.1 Appendix D.3	Construction Activities Status of Construction Summary Report Photo Journal			
v	A summary of the results of any geochemical analyses conducted on materials used to construct facilities and infrastructure under Part D, Item 13	Appendix E.6	Quarry Geochemistry Analytical Sampling Results			
vi	A detailed discussion on the performance, installation, and evaluation, including the use of photographic records, of the primary and secondary containment structure used in fuel storage to safeguard impacts to freshwaters	Section 5.0 Appendix D.2 Appendix D.3	Fuel Storage Geotechnical Inspection Photo Journal			
vii	The results of chemical analyses conducted on residue generated from each incinerator system prior to disposing of in any landfill	Section 2.2.4 Appendix E.2	Solid Non Hazardous and Hazardous Waste Management Incinerator Ash Testing Results 2014 (Historical and Current)			
viii	A brief description of follow-up action(s) taken to address concerns presented within any inspection and compliance reports prepared by the Inspector	Section 7 Appendix E.7	Inspection and Compliance Report Concerns Inspection Reports			
ix	An update, where required under Part B, Item, 18, in the form of an addendum or revision to the Plans approved under the relevant sections of this Licence	Section 8.0	Updates to Plans			
х	Monthly and annual quantities of aggregates excavated and used from Quarries and Borrow Pits associated with the Licence	Table 3.1	Monthly and Annual Quantities of Specified Substances used from Borrows Quarries			
хi	The results of any further acid/base accounting conducted on potential acid generating and non-potential acid generated waste rock(PAG and NPAG)	Section 4.0 Appendix E.5 Appendix E.6	Geochemical Waste Rock Studies and Operational Testing Results Waste Rock Geochemistry Reports and Status update on Wast Rock Geochemistry Program.  Quarry Geochemistry Analytical Sampling Results			
xii	A summary of any specific studies or reports requested by the Board, and a brief description of any future studies planned or proposed;	Section 2 Section 9	Water Use and Waste Disposal Activities Progressive Reclamation Work			



	Concordance Table with Type A Water Licence 2AM -MRY1325					
	Type A 2AM-MRY 1325	The 2014 QIA and NWB Annual Report				
Condition No.	Condition	Report Reference/Response				
xiii	All monitoring data with respect to geochemical analyses conducted on material used to construct roads, quarries, and other infrastructure;	Section 4.0 Appendix E.5 Appendix E.6	Geochemical Waste Rock Studies and Operational Testing Results Waste Rock Geochemistry Reports and Status update on Wast Rock Geochemistry Program.  Quarry Geochemistry Analytical Sampling Results			
h	GENERAL					
i	A summary of actions taken to address concerns or deficiencies listed in the inspection reports and/or compliance reports filed by an Inspector	Section 7 Appendix E.7	Inspection and Compliance Report Concerns Inspection Reports			
ii	A summary of public consultation and participation with local organizations and the residents of the nearby communities, including a schedule of upcoming community events and information sessions	Section 10 Table 10.1 Table 10.2	Summary of Consultation Meetings with Public, Government and Inuit Organizations Stakeholder Site Visits to Mary River			
iii	Monthly and annual volume of iron ore generated by the project	Table 2.4.3 Section 2.2.5	Monthly and Annual Quantities of Ore and Waste Rock Generated and Disposed of Ore and Waste Rock Quantities			
i	OTHER					
	Any other details on Water use or Waste Disposal requested by the Board by November 1st of the year being reported.	N/A	No other details on Water use or Waste Disposal was requested by the Boa by November 1, 2013			



#### Concordance Table with Type B Water Licence 8BC-MRY1416 Type B 8BC-MRY1416 The 2014 QIA and NWB Annual Report **Condition No** Condition Report Reference Part B The Licensee shall file an Annual Report on the Appurtenant Undertaking with the Board no later than See below Annual Report submitted on March 31, 2015 6 March 31st of the year following the calendar year being reported, containing the following information: Summaries for all data and information generated under the Monitoring Program; Section 1.2 Summary of Project Activities for 2014 Section 2 Water Use and Waste Disposal Activities Section 9 Progressive Reclamation Work Table 1.1 Summary of 2014 Activities and Submissions Table 2.6 Water Quality Results for Water Licence Monitoring Locations Table 2.7 Toxicity Monitoring Results for Water Licence Monitoring Locations Appendix E.2 Incinerator Ash Testing Results 2014 (Historical and Current) а Waste Rock Geochemistry Reports and Status upddate on Waste Rock Appendix E.5 Geochemistry Program Quarry Geochemistry Analytical Sampling Results Appendix E.6 Aquatic Effects Monitoring Reports Appendix E.10 2014 Nunavut Impact Review Board (NIRB) Annual Report Summary of Project Activities for 2014 Section 1.2 A review and analysis of data collected during the Monitoring Program and a brief description of any future studies planned by the Licensee Section 2 Water Use and Waste Disposal Activities Section 9 Progressive Reclamation Work Table 1.1 Summary of 2014 Activities and Submissions Table 2.6 Water Quality Results for Water Licence Monitoring Locations h Table 2.7 Toxicity Monitoring Results for Water Licence Monitoring Locations Appendix E.6 Quarry Geochemistry Analytical Sampling Results Aquatic Effects Monitoring Reports Appendix E.10 2014 Nunavut Impact Review Board (NIRB) Annual Report A summary of contaminated or hazardous materials stored for future disposal as required by Part D. Item Section 2.2.4 Solid Non-Hazardous and Hazardous Waste Management Appendix E.8 Decommissioning Reports C. Hazardous Waste Management Plan (BAF-PH1-830-P16-0011) The results of any review conducted and any recommendations regarding any changes to the Monitoring Section 7 Inspection and Compliance Report Concerns d. Program and/or remediation requirements Appendix E.7 Inspection Reports A summary of any abandonment and restoration work undertaken during the year and an outline of any Section 9 Progressive Reclamation work anticipated for the next year Appendix C 2015 Work Plan and 2015 Work Plan Addendum Appendix E.8 **Decomissioning Reports** e Interim Closure and Reclamation Plan (BAF-PH1-830-P16-0012) Rev 3 **Unauthorized Discharges** A list of unauthorized discharges and summary of follow-up actions taken Section 6 f. Table 6.1 Summary of Unauthorized Discharges N/A If applicable, a description of any trenches and sumps excavated, including the following: GPS No sumps or trenches were excavated in 2014 g. coordinates, dimensions, depth below active layer, and secondary containment features A description of all progressive and or final reclamation work undertaken, presented with photographic Section 9 Progressive Reclamation Work records of site conditions before, during and after completion of operations Appendix D.3 Photo Journal Appendix E.1 Waste Management Program 2014 h. Shipping Manifest (Onsite and Offsite) Appendix E.4 Appendix E.8 Decommissioning Reports Inspection and Compliance Report Concerns A brief summary of work done to address concerns or deficiencies listed in the inspection reports and/or Section 7 compliance reports prepared by an Inspector Inspection Reports Appendix E.7

j.	A public consultation/participation report describing consultation with local organizations and the residents of the nearby communities	Section 10 Table 10.1 Table 10.2	Summary of Consultation Meetings with Public, Government and Inuit Organizations Stakeholder Site Visits to Mary River
k.	An executive summary in English and Inuktitut of all plans, reports, or studies conducted under this Licence	Foreword	Executive Summary (English) (Inuktitut) (French)
l.	Any other details on water use or waste disposal requested by the Board by November 1st of the year being reported.	N/A	No other details on Water use or Waste Disposal was requested by the Board by November 1, 2014
m.	Any updates to Management Plans approved under this Licence are to be submitted as an addendum together with the annual report.	Section 8	Update to Plans



Concordance Table with Type B Water Licence 8BC-MRY1314				
	Type B 8BC-MRY1314		The 2014 QIA and NWB Annual Report	
Condition No.	Condition		Report Reference	
Part B				
6	The Licensee shall file an Annual Report on the Appurtenant Undertaking with the Board no later than March 31st of the year following the calendar year being reported, containing the following information:	See below	Annual Report submitted on March 31, 2015	
a.	Summaries for all data and information generated under the Monitoring Program;	Section 1.2 Section 2 Section 9 Table 1.1 Table 2.6 Table 2.7	Summary of Project Activities for 2014 Water Use and Waste Disposal Activities Progressive Reclamation Work Summary of 2013 Activities and Submissions Water Quality Results for Water Licence Monitoring Locations Toxicity Monitoring Results for Water Licence Monitoring Locations	
b.	A review and analysis of data collected during the Monitoring Program and a brief description of any future studies planned by the Licensee	Section 1.2 Section 2 Section 9 Table 1.1 Table 2.6 Table 2.7	2014 Nunavut Impact Review Roard (NIRR) Annual Report Summary of Project Activities for 2014 Water Use and Waste Disposal Activities Progressive Reclamation Work Summary of 2013 Activities and Submissions Water Quality Results for Water Licence Monitoring Locations Toxicity Monitoring Results for Water Licence Monitoring Locations	
c.	A summary of contaminated or hazardous materials stored for future disposal as required by Part D, Item 8;	Section 2.2.4 Appendix E.8	Solid Non-Hazardous and Hazardous Waste Management Decommissioning of Milne Inlet Fuel Bladder Farm	
	The results of any review conducted and any recommendations regarding any changes to the	Section 7	Hazardous Waste Management Plan (BAF-PH1-830-P16-0011) Inspection and Compliance Report Concerns	
d.	Monitoring Program and/or remediation requirements	Appendix E.7	Inspection Reports	
e.	A summary of any abandonment and restoration work undertaken during the year and an outline of any work anticipated for the next year	Section 9 Appendix C	Progressive Reclamation 2015 Work Plan and 2015 Work Plan Addendum	
		0 11 0	Interim Closure and Reclamation Plan (BAF-PH1-830-P16-0012) Rev 3	
f.	A list of unauthorized discharges and summary of follow-up actions taken	Section 6 Table 6.1	Unauthorized Discharges Summary of Unauthorized Discharges	
g.	If applicable, a description of any trenches and sumps excavated, including the following: GPS coordinates, dimensions, depth below active layer, and secondary containment features	N/A	No sumps or trenches were excavated in 2014	
h.	A description of all progressive and or final reclamation work undertaken, presented with photographic records of site conditions before, during and after completion of operations	Section 9 Appendix D.3 Appendix E.1 Appendix E.4 Appendix E.8	Progressive Reclamation Work Photo Journal Waste Management Program 2014 Shipping Manifest (Onsite and Offsite) Decommissioning Reports	
i.	A brief summary of work done to address concerns or deficiencies listed in the inspection reports and/or compliance reports prepared by an Inspector	Section 7 Appendix E.7	Inspection and Compliance Report Concerns Inspection Reports	
j.	A public consultation/participation report describing consultation with local organizations and the residents of the nearby communities	Section 10 Table 10.1 Table 10.2	Summary of Consultation Meetings with Public, Government and Inuit Organizations Stakeholder Site Visits to Mary River	
k.	An executive summary in English and Inuktitut of all plans, reports, or studies conducted under this Licence	Foreword	Executive Summary (English) (Inuktitut) (French)	
l.	Any other details on water use or waste disposal requested by the Board by November 1st of the year being reported.	N/A	No other details on Water use or Waste Disposal was requested by the Board by November 1, 2014	
m.	Any updates to Management Plans approved under this Licence are to be submitted as an addendum together with the annual report.	Section 8	Update to Plans	



#### Concordance Table with Type B Water Licence 2BB-MRY1114 Type B 2BB-MRY1114 The 2014 QIA and NWB Annual Report Condition No. Condition Report Reference Part B The Licensee shall file with the Board no later than March 31st of the year following the calendar See below Annual Report submitted on March 31, 2015. year being reported, an Annual Report on the appurtenant undertaking which shall contain the following information: The monthly and annual volumes, in cubic metres, of all fresh water obtained from Camp Lake at Section 2.1 Water Use a. Monitoring Station MRY-1, Phillips Creek at Monitoring Station MRY-2, Km 99 Lake at Monitoring Table 2.1 Daily, Monthly and Annual Quantities of Water for Camps Mary River Project form Station MRY-3, and additional sources of water identified for camp use under Part C, Item 1 Inuit-Owned Land and Crown Land The monthly and annual volumes in cubic metres of all freshwater obtained for the purpose of Table 2.1 Daily, Monthly and Annual Quantities of Water for Camps Mary River Project form b. drilling and other associated uses Inuit-Owned Land and Crown Land The monthly and annual volume in cubic meters of treated Sewage effluent discharged at Section 2.2.2 Treated Sewage Effluent Discharged at Wastewater Treatment Facilities(WWTF's) c. Monitoring Station MRY-4, Mary River Camp WWTF at Monitoring Station MRY-5, and at Milne Inlet Monthly and Annual Quantities of Treated Sewage Effluent and Sludge Removed Camp WWTF Monitoring Station at MRY-5 along with any waters discharged from the respective Table 2.3 PWSPs Section 2 2 3 d. The monthly and annual volumes in cubic metres of Sludge removed from the Waste Water Sludge Removed from Wastewater Treatment Facilities (WWTF's) Treatment Facilities at Mary River Camp and Milne Inlet Camp and details on the storage and/or Table 2.3 Monthly and Annual Quantities of Treated Sewage Effluent and Sludge Removed disposal A summary, including photographic records before, during and after construction activities, of any Section 3 Construction Activities e. modifications and/or major maintenance work carried out on the Water Supply and the Wastewater Appendix D.1 Status of Construction Summary Report Treatment Facilities, including all associated structures, and an outline of any work anticipated for Appendix D.3 Photo Journal The geochemical analysis of drill cores as per Part F, Item 3 Section 4.0 Geochemical Waste Rock Studies and Operational Testing Results Appendix E.5 Waste Rock Geochemistry Report Appendix E.6 Quarry Geochemistry Analytical Sampling Results A detailed discussion on the performance, installation, and evaluation, including the use of Section 5 Fuel Storage g. photographic record, of the primary and secondary containment functions used in fuel storage to Appendix D.2 Geotechnical Inspection safeguard impacts to freshwaters Appendix D.3 Photo Journal h. A list of unauthorized discharges and a summary of follow-up action(s) taken Section 6 Unauthorized Discharges Table 6.1 Summary of Unauthorized Discharges A brief description of follow-up action(s) taken to address concerns presented within inspection and Section 7 Inspection and Compliance Report Concerns compliance reports prepared by the Inspector Appendix E.7 Inspection Reports An update, where required under Part B, Item 11, in the form of an addendum or revision to the Section 8 Updates to Plans Abandonment and Restoration Plan, Emergency Spill Response Plan, Site Water Management Plan, Waste Water Management Plan, Waste Rock and Ore Storage Plan, QA/QC, Landfill Operations and Maintenance Plan, and Landfarm Plan



#### Concordance Table with Type B Water Licence 2BB-MRY1114 The 2014 QIA and NWB Annual Report Type B 2BB-MRY1114 Condition No. Condition Report Reference Part B A description of all progressive and or final reclamation work undertaken, including drill sites, Section 9 Progressive Reclamation Work presented with photographic records of site conditions before, during and after completion of Appendix D.3 Photo Journal Appendix E.1 Waste Management Program 2013 operations Appendix E.4 Shipping Manifest (Onsite and Offsite) Appendix E.8 **Decommissioning Reports** An updated estimate of the current restoration liability required under Part B, Item 2, based upon the Appendix E.9 2014 Marginal Reclimation and Closure Security Estimate results of progressive restoration, restoration research, project development monitoring, and any changes or modifications to the project Tabular summaries of all data generated under the Monitoring Program, Part I; Table 2.5 Water Licence Water Quality Monitoring Locations Table 2.6 Water Quality Results for Water Licence Monitoring Locations Section 2 Water Use and Waste Disposal Activites Section 2.3.7 Aquatic Effects Monitoring Program (AEMP) n. A summary of public consultation/participation, describing consultation with local organizations and Section 10 Summary of Consultation Meetings with Public, Government and Inuit Organizations residents of the nearby communities, if any were conducted Table 10.1 Table 10.2 Stakeholder Site Visits to Mary River ο. A summary of any specific studies or reports requested by the Board, and a brief description of any Section 7 Inspection and Compliance Report Concerns future studies planned or proposed Section 9 Progressive Reclamation Work Appendix E.7 Inspection Reports Any other details on water use or waste disposal requested by the Board by November 1 of the p. No other details on Water use or Waste Disposal was requested by the Board by N/A year being reported November 1, 2014



	Concordance Table with Type B Water Licence 8BE-MRY1421				
	Type B 8BE-MRY1421	The 2014 QIA and NWB Annual Report			
Condition No.	Condition		Report Reference		
Part B					
6	The Licensee shall file an Annual Report on the Appurtenant Undertaking with the Board no later than March 31st of the year following the calendar year being reported, containing the following information:	See below	Annual Report submitted on March 31, 2015.		
i.	the monthly and annual volumes, in cubic metres, of freshwater used for all purposes under the Licence and obtained from sources located on, in or flowing through Crown Lands;	Section 2.0 Table 2.1	Water Use and Waste Disposal Activities Daily, Monthly and Annual Quantities of Water for Camps Mary River Project form Inuit-Owned Land and Crown Land		
ii.	the monthly and annual volumes, in cubic metres, of freshwater used for all purposes under the Licence and obtained from sources located on, in or flowing through Inuit-owned lands;	Section 2.0 Table 2.1	Water Use and Waste Disposal Activities Daily, Monthly and Annual Quantities of Water for Camps Mary River Project form Inuit-Owned Land and Crown Land		
iii.	A summary, including photographic records before, during and after any relevant construction activities or modifications and/or major maintenance work carried out on facilities under this Licence and an outline of any work anticipated for the next year	Section 1.2 Section 3 Appendix C Appendix D.1 Appendix D.3 Appendix E.8	Summary of Project Activites for 2014 Construction Activities 2015 Work Plan Status of Construction Summary Report Photo Journal Decomissioning Reports		
iv.	. The geochemical analysis of drill cores as per Part F, Item 3	Section 4.0 Appendix E.5 Appendix E.6	Geochemical Waste Rock Studies and Operational Testing Results Waste Rock Geochemistry Report Quarry Geochemistry Analytical Sampling Results		
v.	Detailed discussion on the performance, installation, and evaluation, including the use of photographic record, of the primary and secondary containment functions used in fuel storage to safeguard impacts to freshwaters	Section 5.0 Appendix D.1 Appendix D.2 Appendix D.3	Fuel Storage Status of Construction Summary Report Geotechnical Inspection Photo Journal		
vi.	Report all artesian flow occurrences as required under Part F, Item 6	N/A	None Reported		
vii	A list of unauthorized discharges and a summary of follow-up action(s) taken	Section 6 Table 6.1	Unauthorized Discharges Summary of Unauthorized Discharges		
viii	A brief description of follow-up action(s) taken to address concerns presented within inspection and compliance reports prepared by the Inspector	Section 7 Appendix E.7	Inspection and Compliance Report Concerns Inspection Reports		
ix	Updates in the form of an addendum or revisions to the Abandonment and Restoration Plan, and Spill Contingency Plan;	Section 8	Updates to Plans		
х	A description of all progressive and/or final reclamation work undertaken, including drill sites, presented with photographic records of site conditions before, during and after completion of operations	Section 9 Appendix D.3 Appendix E.1 Appendix E.4 Appendix E.8	Progressive Reclamation Work Photo Journal Waste Management Program 2014 Shipping Manifest (Onsite and Offsite) DecommissioningReports		
xi	An updated estimate of the current restoration liability required under Part B, Item 2, based upon the results of restoration assessment, project development monitoring, and any changes or modifications to the project;	Appendix E.9	2014 Marginal Closure Cost Summary and 2014 Marginal Closure Cost Summary Addendum		
xii	A summary of public consultation/participation, describing consultation with local organizations and residents of the nearby communities, if any were conducted Licence No. 2BE-MRY1421 6	Section 10 Table 10.1 Table 10.2	Summary of Consultation Meetings with Public, Government and Inuit Organizations Stakeholder Site Visits to Mary River		
xiii	A summary of any specific studies or reports requested by the Board, and a brief description of any future studies planned or proposed; and	Section 7 Section 9 Appendix E.7	Inspection and Compliance Report Concerns Progressive Reclamation Work Inspection Reports		
xiv	Any other details on Water use or Waste disposal requested by the Board by November 1 of the year being reported.	N/A	No other details on Water use or Waste Disposal was requested by the Board by November 1, 2014		



	Concordance Table with Commercial Lease No. Q13C301				
	Commercial Lease No. Q13C301		The 2014 QIA and NWB Annual Report		
Condition No.	Condition		Report Reference		
Annual Reportin	g Requirements				
Part 6.4	For informational purposes, by no later than March 31 in each Year during the Term, the Tenant shall deliver to the Landlord an Annual Report for the preceding Year which shall include the following:	See below	Annual Report submitted on March 31, 2015.		
a.	A report of activities conducted relative to what was described in the Work Plan submission for the Previous Year;	Section 1.2 Section 3.0 Section 8.0 Table 1.1	n Summary of Project Activities for 2014 Construction Activities Updates to Plans Summary of 2014 Activities and Submissions		
b.	A description of construction and infrastructure changes, additions or removals located within the boundaries of all Land Use Areas;	Section 1.2 Section 3.0 Section 8.0 Table 1.1 Appendix D.1 Appendix E.8	Summary of Project Activities for 2014 Construction Activities Updates to Plans Summary of 2014 Activities and Submissions Construction Summary Report Status Decommissioning Reports		
C.	All "As Built" reports available, signed and stamped by an Engineer, for all works completed as per (b) above;	Appendix D.1	Status of Construction Summary Reports		
d.	Description of any and all mining and exploration activities, and the results and outcomes thereof including:	Section 1.2	Summary of Project Activities in 2014		
	exploration activity and drilling summary	Table 1.2	Summary of Exploration Drilling		
	II. amount and type of ore and waste mined in each month	Table 2.4.3	Monthly and yearly quantities of ore and waste rock generated and used or disposed of		
	III. amount and type of ore shipped each month	N/A	No ore was shipped in 2014		
	IV. quantities of each Specified Substance including sand, gravel, construction stone, and ice, quarried each month, broken down by individual quarry site or borrow location	Table 3.1	Breakdown of Monthly and Annual Quantities of Specified Substance from Borrows and Quarries		
e.	Quantities of waste deposited in the landfill, landfarm and or other approved waste storage areas each calendar quarter	Section 2.2.4 Table 2.4 Table 2.4.1 Table 2.4.2	Solid Non-Hazardous and Hazardous Waste Management Location of Temporary and Permanent Storage Areas for Wastes Monthly and Annual quantities of waste disposed in non- hazardous waste landfill facility Monthly and Annual Quantities of Hydrocarbon Impacted Soil and Snow Disposed at Landfarm Facility		
			Waste Management Plan (BAF-PH1-830-P16-0028) (provides additional details on quantities and disposal locations)		
f.	Type and quantities of materials the were shipped off the Lands	Section 9 Appendix E.1 Appendix E.4 Appendix E.8	Progressive Reclamation Work Waste Management Program 2014 Shipping Manifest (Onsite and Offsite) Decommissioning Reports		
g.	Type and quantities of materials that were shipped to and stored on the Lands	Appendix E.4	Shipping Manifest (Onsite and Offsite)		



Concordance Table with Commercial Lease No. Q13C301  Commercial Lease No. Q13C301  The 2014 QIA and NWB Annual Report				
nnual Reportin	g Requirements	<u> </u>		
h.	A detailed description of any and all Reclamation Work on the Property	Section 9	Progressive Reclamation Work	
		Appendix D.3	Photo Journal	
		Appendix E.1	Waste Management Program 2014	
		Appendix E.4	Shipping Manifest (Onsite and Offsite)	
		Appendix E.8	Decommissioning Reports	
i.	Any and all information related to a finding of non-compliance or breach of environmental	Section 7.0	Inspection and Compliance Report Concerns	
	standards as discovered by any Governmental Authority	Appendix E.7	Inspection Reports	
j.	A listing and compilations of reports associated with any accident, spill, release of	Section 6.0	Unauthorized Discharges	
•	hazardous material in the environment, fire, emergency or loss of life	Table 6.1	Summary of Unauthorized Discharges	
k.	Information respecting the Tenant's compliance with the terms of this Lease and any	Section 7.0	Inspection and Compliance Report Concerns	
	permits or licenses required in respect of its Operations on the Property, together with	Table 10.1	Meetings with Public, Government and Inuit Organizations	
	details of any incidents of non-compliance, the results of any inspection reports or orders	Table 10.2	Stakeholder Visits to Mary River	
	prepared or issued by or fines levied by any competent regulatory authority and any remedial action relating thereto	Appendix E.7	Inspection Reports	
l.	Any further reports, information or data reasonably requested by the Landlord from time to	N/A	No other relevant reports, information or data was requested by the	
	time, including Inuktitut language summary versions of such material at the request of the Landlord, acting reasonably		Landlord in 2014	





2014 QIA and NWB Annual Report

March 31, 2015

# APPENDIX B NWB ANNUAL REPORT FORMS

NWB Annua	I Report	Yea	r being reported:	2014				
License No:	2AM-MRY1325		ed Date: June 10					
		Ехр	iry Date: June 10	1 2025				
	Project Name:	Mary River Project	ct					
	Licensee: Baffi	nland Iron Mines	land Iron Mines					
	Mailing Address:		2275 Upper Middle Road East, Suite 300 Oakville ON, Canada L6H 0C3					
	Name of Company relationship between th	•	•	Name of Licensee please cl	arify			
	Baffinland Iron Mir	nes Corporation						
General Bac	kground Information	n on the Project (	optional):					
	Refer to Section 1.0	0 of the 2014 QIA	and NWB Annual R	Report				
with	Part B		-	ormation in accodance				
	ater; sewage and gre			ding, but not limited to nanagement; solid and				
	Water Source(s):	Various - Refer	to Table 2.5 of the	Report				
	Water Quantity:	580000	Quantity Allowable	e Domestic (cu.m)				
		cu.m/year Various - Refer to Table 2.1 of the Report	Actual Quantity Us	sed Domestic (cu.m)				
			Quantity Allowable Total Quantity Use					
	Waste Management  Solid Waste Dis  Sewage  Drill Waste  Greywater  Hazardous  Other:  Additional Details:	•						
	Refer to Section 2 of	of the 2014 QIA an	d NWB Annual Rer	oort				
			· · · · ·					

A list of unau	uthorized discharges and a summary of follow-up actions taken.
	Spill No.: See Table 6.1 (as reported to the Spill Hot-line)
	Date of Spill: See Table 6.1
	Date of Notification to an Inspector:  See Table 6.1
	Additional Details: (impacts to water, mitigation measures, short/long term monitoring, etc)
	See Table 6.1, Section 6 and Appendix E.7.4 of the 2014 QIA and NWB Annual
	Report
<b>Revisions to</b>	the Spill Contingency Plan
	Other: (see additional details)
	Additional Details:
	Additional Details.
	Refer to updated Emergency Response Plan and Spill Contingency Plan
Revisions to	the Abandonment and Restoration Plan
	Other: (see additional details)
	Additional Details:
	Refer to updated Interim and Abandonment Reclamation Plan
	Refer to aparted interim and Abandonment Reciamation Flan
Progressive	Reclamation Work Undertaken
Trogressive	Additional Details (i.e., work completed and future works proposed)
	Refer to Section 9 of the 2014 QIA and NWB Annual Report
Results of th	e Monitoring Program including:
	The GPS Co-ordinates (in degrees, minutes and seconds of latitude and longitude) of
	each location where sources of water are utilized;
	Details described below  ▼
	Additional Details:
	Refer to Table 2.5 and Figures 1.3 to 1.9 (Inclusive) of 2014 QIA and NWB Annual
	Report
	The GPS Co-ordinates (in degrees, minutes and seconds of latitude and longitude) of
	each location where wastes associated with the licence are deposited;
	Details described below
	Additional Details:
	Refer to Table 2.4 and Figures 1.3 to 1.9 (Inclusive) of 2014 QIA and NWB Annual
	Report

	No additional samp	oling requested by an Inspector or the Board	•
	Additional Deta	ils: (date of request, analysis of results, data attached, etc)	
Any other de being reporte		use or waste disposal requested by the Board by November 1	of the year
	Select		•
ı	Additional Deta	ils: (Attached or provided below)	
Any respons		actions on inspection/compliance reports	
	Select		
,	Additional Details: (Dates of Report, Follow-up by the Licensee)		
	Refer to Section	on 7 and Appendix E.7.1 of the 2014 QIA and NWB Annual Repor	t
Any addition	al comments o	r information for the Board to consider	
	waste disposa unauthorized	and NWB Annual Report provides further details on water use all, constuction activites, geochemcial anaylais of core, fuel storag dishcares, inspection and compliance reprot concerns, updates t siver reclimation work and consulations.	e,
Date Submitt Submitted/Pi Contact Info	repared by: rmation: 1	March 31, 2015 im Millard  Tel: site (647)253-0596 Ext.6016 cell (902)403-1337  Fax: (647)494-3619 email: jim_millard@baffin.com	

NWB Annual	Report	Year being reported: 2014 ▼	
License No:	GÓÓÉT ÜŸFFFI	Issued Date: C☐ ¦Ãà ĒC€FF  Expiry Date: C☐ ¦Ãà ĒC€FI	
	Project Name:	ÁT æ}^ÁÜãç^¦ÁÚ¦[ Ŀ%&Á	
	Licensee: Baff	inland Iron Mines	
	Mailing Address:	2275 Upper Middle Road East, Suite 300 Oakville ON, Canada L6H 0C3	
		r filing Annual Report (if different from Name of Licensee please clarify the two entities, if applicable):	
	Baffinland Iron Mi	nes Corporation	
General Bacl	kground Informatio	on on the Project (*optional):	
	Refer to Section 1.	.0 of the 2014 QIA and NWB Annual Report	
Licence Required	uirements: the licer	nsee must provide the following information in accodance	
_	iter; sewage and gr	and waste disposal activities, including, but not limited to: methodelywater management; drill waste management; solid and hazardo	
	Yæc^¦ÁÛ[ˇ¦&^Q•DK Yæc^¦ÁÛˇæ)oãĉK	Xæðaj * • ÁGÄÜ^-△¦Áq ÁVæðaj /ÁQHÉ Áj -Áx@ ÁÜ^] [¦óÁ         Û * æð cáð ÁQHI [ , æða] /ÁÖ [ { ^ • cáð Ágð È È D         OBSC æð ÁQHI [ , æða] /ÁÖ [ { ^ • cáð Ágð È È D         Ú * æð cáð ÁQHI [ , æða] /ÁÖ   áll áj * Ágð È D         V[ cæð ÁÛ * æð cáð ÁW• ^ å ÁÖ   áll áj * Ágð È D	
	Yæc'Áræjæ*^{ ^}  Solid Waste Dis Sewage  Drill Waste  Greywater Hazardous  Other:  Otaåãaí }æÁÖ^cæi K  Refer to Section 2	,	

# A list of unauthorized discharges and a summary of follow-up actions taken. Ù]ā|ÁÞ[ÈBÁ Ù^^Ávæà|^ÁÎÈF Cæn Á^][¦c^å Ánf Ás@ ÁÙ]ālÁP[dËā;^D Öæz^Á ÁÚI álk Ú^^Á/æàl^Á È Öæe^Á, Áp[cãã&æeá]}Ág Ág.•]^&c|kÁ Û^^Á/æà|^ÂîÈF O Bååããã [}æ Á Ö ^ cæ Ā Þ KÁS] ]æ Sor Át Á, æ c\ É Á, ãã æ ã þ Át, ^æ \* | ^ • É Á @ | dE[] \* Ác\ { Át [}ãt | ã \* É \ c S D See Table 6.1, Section 6 and Appendix E.7.4 of the 2014 QIA and NWB Annual Report Revisions to the Spill Contingency Plan Other: (see additional details) OEååãããa }ædÁÖ∧æãa•kÁ Refer to updated Emergency Response Plan and Spill Contingency Plan **Revisions to the Abandonment and Restoration Plan** Other: (see additional details) • O Eååãããi}ækÁÖ∧æãai•kÁ Refer to updated Interim and Abandonment Reclamation Plan **Progressive Reclamation Work Undertaken** Orāåãããa[}ædÁÖ^œæðn•ÁQãAÈÈÁ[¦\Á&[{]|^e^åáÁæð)åÁ÷č¦^Á,[¦\•Á,¦[][•^åD Refer to Section 9 of the 2014 QIA and NWB Annual Report **Results of the Monitoring Program including:** The GPS Co-ordinates (in degrees, minutes and seconds of latitude and longitude) of each location where sources of water are utilized; Details described below ▼ Ođååãdãi}ædÁÖ^cæañoK Refer to Table 2.5 and Figures 1.3 to 1.9 (Inclusive) of 2014 QIA and NWB Annual Report The GPS Co-ordinates (in degrees, minutes and seconds of latitude and longitude) of each location where wastes associated with the licence are deposited; Details described below Ođååãdãi}ædÁÖ^cæañoK Refer to Table 2.4 and Figures 1.3 to 1.9 (Inclusive) of 2014 QIA and NWB Annual Report

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Any addition	al comments or information for the Board to consider
	The 2014 QIA and NWB Annual Report provides further details on water use and waste disposal, constuction activites, geochemcial anaylais of core, fuel storage, unauthorized dishcares, inspection and compliance reprot concerns, updates to plans, progressiver reclimation work and consulations.
Date Submit Submitted/P Contact Info	repared by: Rã ÁT ᆌæå

NWB Annual	Report	Year being reported: 2014 ▼	
License No:	GÓÒËT ÜŸFI GF	Issued Date: OḤ ¦āĀFÏ ĒŒFI Expiry Date: OḤ ¦āĀFÏ ĒŒŒF	
	Project Name:	ÁT æð ÁÜ ãç \ ÁÚ   [ b \ & A	
	Licensee: Baf	finland Iron Mines	
	Mailing Address:	2275 Upper Middle Road East, Suite 300 Oakville ON, Canada L6H 0C3	
	•	y filing Annual Report (if different from Name of Licensee please clarify the two entities, if applicable):	
	Baffinland Iron M	ines Corporation	
General Back	kground Informatio	on on the Project (*optional):	
	Refer to Section 1	1.0 of the 2014 QIA and NWB Annual Report	
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A list of una	uthorized discharges and a summary of follow-up actions taken.
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	Refer to Table 2.4 and Figures 1.3 to 1.9 (Inclusive) of 2014 QIA and NWB Annual

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Date Submit Submitted/P Contact Info	repared by: Rã ÁT ᆌæå

NWB Annual	Report	Year being reported: 2014 ▼
License No:	Ì ÓÔË ÜŸFHFI	Issued Date: TæÂG ĒŒFH Expiry Date: TæÂ <del>G Ē</del> ŒFI
	Project Name:	ÁT æ¦^ÁÜãç^¦ÁÚ¦[ ๒/&A
	Licensee: Baffin	nland Iron Mines
	Mailing Address:	2275 Upper Middle Road East, Suite 300 Oakville ON, Canada L6H 0C3
		filing Annual Report (if different from Name of Licensee please clarify e two entities, if applicable):
	Baffinland Iron Min	,
General Bac	kground Information	on the Project (*optional):
	Refer to Section 1.0	of the 2014 QIA and NWB Annual Report
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Date Submit Submitted/P Contact Info	repared by: Rã ÁT ᆌæå

NWB Annual	Report	Year being reported: 2014 ▼	
License No:	Ì ÓÔËT ÜŸFI FÎ	Issued Date: CE * ઁ • oĀ ĒŒFI Expiry Date: CE * ઁ • oĀ ĒŒFĪ	
	Project Name:	ÁT æ}^ÁÜ@ç^¦ÁÚ¦[ Ы%AÁ	
	Licensee: Baffi	nland Iron Mines	
	Mailing Address:	2275 Upper Middle Road East, Suite 300 Oakville ON, Canada L6H 0C3	
		filing Annual Report (if different from Name of Licensee please clarify ne two entities, if applicable):	
	Baffinland Iron Mii	, , ,	
General Bacl	kground Informatio	n on the Project (*optional):	
	Refer to Section 1.	0 of the 2014 QIA and NWB Annual Report	
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# A list of unauthorized discharges and a summary of follow-up actions taken. Ù]ā|ÁÞ[ÈBÁ Ù^^Ávæà|^ÁÎÈF Cæn Á^][¦c^å Ánf Ás@ ÁÙ]ālÁP[dËā;^D Öæz^Á ÁÚI álk Ú^^Á/æàl^Á È Öæe^Á, Áp[cãã&æeá]}Ág Ág.•]^&c|kÁ Û^^Á/æà|^ÂîÈF O Bååããã [}æ Á Ö ^ cæ Ā Þ KÁS] ]æ Sor Át Á, æ c \ É Á, æ c \ É Á, æ ā æ æ ā } Át, ^æ ` | ^ • É Á @ | d E[ } \* Ác \ { Át [ } ãt | å \* É A d S D See Table 6.1, Section 6 and Appendix E.7.4 of the 2014 QIA and NWB Annual Report Revisions to the Spill Contingency Plan Other: (see additional details) OEååãããa }ædÁÖ∧æãa•kÁ Refer to updated Emergency Response Plan and Spill Contingency Plan **Revisions to the Abandonment and Restoration Plan** Other: (see additional details) • O Eååãããi}ækÁÖ∧æãai•kÁ Refer to updated Interim and Abandonment Reclamation Plan **Progressive Reclamation Work Undertaken** Orāåãããa[}ædÁÖ^œæðn•ÁQãAÈÈÁ[¦\Á&[{]|^e^åáÁæð)åÁ÷č¦^Á,[¦\•Á,¦[][•^åD Refer to Section 9 of the 2014 QIA and NWB Annual Report **Results of the Monitoring Program including:** The GPS Co-ordinates (in degrees, minutes and seconds of latitude and longitude) of each location where sources of water are utilized; Details described below ▼ Ođååãdãi}ædÁÖ^cæañoK Refer to Table 2.5 and Figures 1.3 to 1.9 (Inclusive) of 2014 QIA and NWB Annual Report The GPS Co-ordinates (in degrees, minutes and seconds of latitude and longitude) of each location where wastes associated with the licence are deposited; Details described below Ođååãdãi}ædÁÖ^cæañoK Refer to Table 2.4 and Figures 1.3 to 1.9 (Inclusive) of 2014 QIA and NWB Annual Report

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Date Submit Submitted/P Contact Info	repared by: Rã ÁT ᆌæå





2014 QIA and NWB Annual Report

March 31, 2015

# APPENDIX C 2015 WORK PLAN 2015 WORK PLAN ADDENDUM



# **2015 WORK PLAN**

October 31, 2014



**Appendix F: Option Exercise Notice** 

Appendix H: Spill Contingency Plan

Appendix F.1: Option Exercise Notice for Aerodrome Aviation Safety

Appendix F.2: Option Exercise Notice for the Landfarm at Milne Port

Appendix G: Emergency Response Plan (BAF-PH1-830-P16-0007)

Appendix F.3: Option Exercise Notice for the Hazardous Waste Berm at Milne Port

(BAF-PH1-830-P16-0036)

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Ар	pendi	c E: Commercial Lease Q13C301 – Land Lease Drawings
Ар	pendi	c E.1: Schedule A Updated Land Lease Drawings
Аp	pendi	c E.2: Montieth & Sutherland Land Lease Drawings

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#### 1. INTRODUCTION

The following document presents the 2015 Work Plan as required under Section 6.1 of Commercial Lease No. Q13C301 agreed between Baffinland Iron Mines Corporation and the Qikiqtani Inuit Association. Additionally, this document is a requirement under the Type 'A' Water Licence 2AM-MRY1325 for the purposes of an Annual Security Review for activities undertaken on an annual basis. In the event the Project does not advance, the work items as described and constructed in the 2015 Work Plan will be subject to reclamation, as per relevant regulatory and permit obligations.

In an effort to align this document with the requirements defined in the Commercial Lease, wording highlighted by italicized blue throughout this document reflects the wording used in the Commercial Lease.

#### 2015 WORK PLAN

#### 2.1 <u>2015 SCOPE OF WORK</u>

The Tenant shall provide:

"A description of the Operations and Work that the Tenant expects to perform in the next Year, and an identification of the Lands, within existing or proposed Land Use Areas that are to be specifically identified within the Property, where such Operations and Work shall occur"

#### This 2015 Work Plan provides for:

- 1. The continued development and construction of infrastructure required at Milne Port and the Mary River Mine Site (Mine Site) for the Mary River Project.
- 2. Development and operation of the mine, ore crushing and land transportation, stockpiling and marine shipment of ore.
- 3. At Milne Port, vessels carrying fuel, equipment and supplies for both use at the Mine Site and Milne Port will arrive during open water (approximately between mid July and mid October 2015). Material, fuel and supplies required for construction and operational activities will be transported to the Mine Site year round via the Tote Road year round.
- 4. Ongoing environmental baseline data collection and geotechnical drilling will continue to support the construction and operation of the Project. These activities will resume, as required, at the Milne Port site, along the Tote Road, at the Mine Site, at numerous quarry sites and at other Project development areas.
- 5. Continued environmental monitoring in accordance with the approved Project Certificate, licences, authorizations, management plans and environmental effects monitoring plans.
- 6. Continued archaeological surveys at project component areas as required.
- 7. Operation of the aerodrome at the Mine Site, which will support year round passenger and freight service by aircraft. Adjustments to the existing aerodrome flight path to improve

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- aviation safety at Mary River Mine Site. This will involve the minor leveling out of two knolls within the planned flight path.
- 8. Continued fuel transfer from Milne tank farm to the Mine Site tank farm along the Tote Road to support ongoing construction and operations activities.

There will be continued progressive reclamation of areas of current and past use in association with exploration and construction phases of the Project. These will include:

- Ongoing long term management of calcium chloride salt storage and use at the Project Site. This
  includes waste segregation of salt bags and proper disposal of collected materials in accordance
  with Baffinland's Waste Management Plan (BAF-PH1-830-P16-0028) as well as identifying and
  containing compromised salt packages to prevent materials being distributed around the site. The
  salt is stored at both the Mary River Mine Site and Milne Port Site for use in exploration drilling,
  as well as for dust suppression on Project roads and camp pads.
- Ongoing testing, managing, and disposal of the historical inventory of incinerator bottom ash at
  the Mary River Mine Site and Milne Port. Ash that is tested and determined to be non-hazardous
  will be disposed of in the existing Mine site Landfill, and ash that is identified as hazardous will be
  sent off site for disposal in a licenced facility in Southern Canada. Ongoing ash generation,
  testing, and disposal will be conducted in accordance with Baffinland's Waste Management Plan
  (BAF-PH1-830-P16-0028).
- Completion of the decommissioning of the historical bladder farm at Milne Port. Work includes management of hydrocarbon impacted soils within the existing landfarm facility.
- Continuation of the decommissioning activities the existing bladder farm at the Mary River Mine Site. Work includes the treatment of oily water contact water and the management/storage of hydrocarbon impacted soils prior to placement in a landfarm facility. Consideration will be given to designing and constructing a new landfarm at the Mary River Mine Site during 2015, located adjacent to the existing landfill area.
- Continue the development and implementation of a long term multi-year plan to address localized areas of permafrost degradation associated with current borrow areas including Km97, and taking into consideration the longer term designs for the Tote Road upgrades and quarry development.
- Demobilization of equipment and supplies not required for near term activities, as well as the current inventory of hazardous waste and other materials by means of sealift from Milne Port Site.
- Continued development of the Mine Site landfill and deposition of non-hazardous wastes in accordance with the Landfill Maintenance and Operations Manual. Consideration will be given to designing and constructing a new landfill at the Milne Port Site if it is deemed necessary during 2015. Note that this activity would require application and approval from the NWB and QIA.
- Discharge and treatment of residual treated sewage effluent stored in PWSPs at the Mary River Exploration Camp and Milne Port Site as required.
- Consideration will be given to the construction of an additional PWSP to be located near the Mary River Mine Site sewage treatment plant. If a PWSP is deemed necessary during 2015, it will be constructed and commissioned.

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- Ongoing removal from the site, or safe disposal on-site of infrastructure, equipment and supplies
  no longer required for ongoing construction and operations. The items are defined by the Mary
  River Project Interim Closure and Reclamation Plan, and include infrastructure and site materials,
  fuel caches, drums, barrels, buildings and contents, docks, water pumps and lines, material and
  equipment prior to the expiry of applicable permits. Where required, internal roads will be regraded to restore natural drainage and to reduce erosion.
- Unless otherwise identified within the approved Interim Closure and Reclamation Plan, where
  roads are no longer in use, Baffinland will remove culverts and open/restore the natural drainage
  channel. In carrying out this activity, measures will be implemented to minimize erosion and
  sedimentation.
- Areas that have been contaminated by hydrocarbons from normal fuel transfer, handling and storage activities will be reclaimed to meet objectives as outlined in the Government of Nunavut's Environmental Guideline for Site Remediation, 2010. The use of reclaimed soils for the purpose of back fill or general site grading may be carried out upon consultation and approval by the Government of Nunavut, Department of Environment and an Inspector.

The Work Plan is presented within the context of the applicable regulatory authorizations and schedule. Baffinland holds, or will soon hold, all the permits and authorizations required to carry out the 2015 Work Plan. The main regulatory instruments that allow for the 2015 Work Plan activities include:

- Amended Project Certificate No. 005 (May 2014)
  - All works and activities proposed have been screened by the NIRB and have been considered in the amended Project Certificate issued by the NIRB.
- Type 'A' Water Licence (2AM-MRY1325) Expires June 10, 2025
  - The works and activities planned for 2015 are within the scope of the licence or the Type B Licences below, except where noted otherwise.
- Type 'B' Water Licence (8BC-MRY1416) Expires August 5, 2016
  - For additional construction works and activities at Milne Port as a result of approved Early Revenue Phase.
- Exploration Type 'B' Water Licence (2BE-MRY1421 which supersedes: 2BB-MRY1114) Expires April 16, 2021.
  - The renewed Type 'B' Water Licence authorizes Baffinland to undertake mineral exploration, geotechnical drilling programs, ongoing operation, maintenance and upgrades to existing pioneer camps at Steensby Inlet and Mid Rail camp.
- Quarry Permits
  - Schedule 'B' Quarry Concession Agreement under IOL Commercial Lease New Lease, Q13C301.
  - It is anticipated that quarrying of rock and gravel from permitted quarry locations (as shown on Schedule "A1") of the IOL Commercial Lease will continue. In addition, Baffinland may be applying for additional access and quarry permits to extract rock and gravel material adjacent

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and near the existing Milne Inlet Tote Road by means of an Amendment to the existing Schedule 'B' to the Lease.

- Currently approved quarries and borrows are as follows, note that all quarries/borrows are on QIA lease with the exception of the borrow P1 which is located on Crown Land and is under the AANDC Land Lease:
  - 1. Quarry Q7, Tote Road Km 7
  - 2. Quarry Q11, Tote Road Km 11
  - 3. Borrow P1, Tote Road Km 63
  - 4. Quarry Q19, Tote Road Km 19
  - 5. Borrow KM104, Tote Road Km 104
- New borrow sources are needed at the following locations:
  - 1. Borrow Km 2, Tote Road Km 2, (Refer to Appendix C)
  - 2. Borrow Km 97, Tote Road Km 97 (Refer to Appendix D)
- The construction of access roads from the Tote road will be necessary to access some of the quarry and borrow locations. Where it is necessary, culvert crossings will be installed along the access roads. The occurrence of fish habitat streams are not anticipated along these access roads
- DFO Authorization for the Ore Dock 14-HCAA-00525 No. 1 expires December 31, 2020
- DFO Authorization 06-HCAA-CA7-00084 for water crossings along the Tote Road
- AANDC Land Use Permits and Quarry Permit to access existing and possibly new borrow and rock quarries adjacent and near the Tote Road (currently covered under the Class A Crown Land Use Permit, 47H16-1-2 and Quarry Tote Road Land Use Permit (LUP) N2014Q0016 and Quarry Permit 2014QP0023 – expires June 30, 2016).
- Additional AANDC Land Use permits include:
  - Ore Dock Land Use Permit (LUP) N2014X0012 expires June 30, 2016
  - Steensby and Milne Inlet Land Use Permit (LUP) N2014C0013 expires June 30, 2016
  - Bruce Head Land Use Permit (LUP) N2014C0013 expires June 30, 2016

Appendix E includes Land Lease drawing layouts: H349000-1000-00-015-0001, H349000-1000-00-015-0002, H349000-1000-00-015-0003, H349000-1000-00-015-0004, H349000-1000-00-015-0006, H349000-1000-00-015-0007, H349000-1000-00-015-0008 and H349000-1000-00-015-0009.

#### 2.2 INFRASTRUCTURE AND CONSTRUCTION WORKS

#### The Tenant shall provide:

"A description of the topographical features and any natural or manmade features, structures or works that may be affected by the Tenant's Operations and Work within existing or proposed Land Use Areas that are to be specifically identified within the Property;"

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Construction activities forecast for 2015 under the amended Project Certificate No. 005 include:

## Milne Inlet

During the sealift, most of the activities at Milne Port will focus on unloading the barges and positioning received equipment and material in designated laydown areas. In addition, the following construction activities will continue:

- Continue to install and commission communication and IT infrastructure.
- Continue to construct remaining earth/rock fill for laydown areas, the ore dock, ore stockpile pad, runoff sedimentation collection ponds, and local site roads at Milne Port.
- Completion of the construction of the ore dock to support the ship loader and related ship loader facilities.
- Finalize assembly and installation of Shiploader 1 and Shiploader 2.
- Milne Ore Stacking, Reclaim and Ship Loader mechanical and electrical completion, commissioning and start-up.
- Install mooring buoys or dolphins as part of the ore dock construction.
- Install and commission trailers (offices, lunchrooms and washcars) including electrical and plumbing.
- Install and commission electrical power systems to the shiploader, trailers, causeway and dock including wharf lighting.
- Complete installation of buildings including maintenance building, workshop office and welding shop.
- Complete installation of power generation systems.
- Install power supply and distribution for buildings including maintenance shops and warehouses.
- If required, additional dredging to maintain the required vessel draft depths. Suitable dredged material will be used as backfill within the ore dock structure.
- Continued development of the Quarry Q1.

#### **Tote Road**

All equipment, material, fuel, and supplies required for construction and operation activities at the Mary River Mine Site will be transported from Milne Port to the Mine Site via the Tote Road. The upgrade of the road will continue throughout 2015. During 2015 the activities associated with the upgrade to the Tote Road will include:

 Continued Improvements including realignment of the road and offsetting of some culvert crossing locations.

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- Reduce maximum slopes.
- Increase turn radii.
- Increase road embankment width.
- Increase culvert capacities by means of new installations and/or culvert extensions where required.
- Crush material as required, haul, place and compact new rock fill as required.
- Installation and maintenance of erosion control measures.
- Construct ditches with rip rap as required.
- Continue development of Borrow P1. Commence development of Km 2 and Km 97 borrows (located near Km 2 and 97 of the Tote Road). Continue the development of other approved quarry and borrow sources to provide access to aggregate for upgrades and sand for winter sanding, minor fill, and maintenance and other approved construction projects. If required, commence the development of Quarries Q7, Q11, and Q19.
- Drill, blast, excavate, and cut and fill activities as required to reduce steep grades and improve curves where necessary and to improve sight distance and visibility along the road.
- Removal of the four (4) sea-can bridges (bin walls will remain in place).
- Install signs and reflective markers as required.
- Bridge maintenance as required.
- Installation of Ice road crossings adjacent to the existing bridges if needed to remove sea can bridges and/or to complete maintenance on new bridges.

#### **Mary River Mine Site**

Construction activities at the Mary River Mine Site will consist of:

- Complete construction of buildings and associated equipment including maintenance shops, site services building, warehouse, waste management buildings, truck wash facilities and truck weigh scale.
- Complete internal and external fit out (electrical and mechanical) of maintenance building welding shop and warehouse.
- Install offices, lunchrooms and washcars including maintenance office/washcar and pit office/washcar.
- Complete installation of the power generating equipment.
- Complete installation of power distribution to E-houses and buildings.
- Install E-house at existing Weatherhaven camp.
- Construct hazardous waste and fuel containment berms.

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- Construct roads and lay down pads.
- Construct, install and grade waste rock haul road, waste rock pad, drainage ditches and settling pond.
- Construct crusher pad settling pond.
- Finish and improve grade of the airstrip.
- Extend landfill to increase capacity based on the approved design area.
- Install approved two-50,000 L and one-75,000 L Jet-A fuel tanks at the aerodrome apron to service aircraft charters.
- Continued development of QMR2 quarry if required.
- Improvements to the aerodrome flight path to increase aviation safety; including the leveling of knolls that are within the airstrip approach and the construction of temporary access roads to those areas for the purpose of completing this work (refer to Appendix F for details).

#### 2.3 INFRASTRUCTURE LAYOUT AT END OF 2015

The Tenant shall provide:

"A detailed description of planned construction and infrastructure changes, additions or removals within the boundaries of the Impact Areas and the Exploration Areas, either permanent or temporary;"

2015 Site layouts for Milne Port and Mary River Mine Site can be found in Appendix A of this document.

#### 2.4 MINING, QUARRYING AND EXPLORATION ACTIVITIES

The Tenant shall provide:

"A description of any and all mining and exploration activities planned for the year, including:

i. Exploration activity and drilling plan,

In 2014 Baffinland received the approval for a renewal to the exploration Type 'B' Water Licence (2BE-MRY1421). All activities listed under this renewal have been permitted in the past and are common to exploration properties throughout Nunavut.

The Type 'B' Licence (2BE-MRY1421) allows for Baffinland to continue/undertake the activities on its mineral leases in the Qikiqtani Region of Nunavut. The scope of Type "B" Water Licence No. 2BE-MRY1421 "allows for the use of Waters and the deposit of Waste for a Mining undertaking, classified as per Schedule 1 of the Regulations at the Mary River Exploration Project" and includes the following activities:

- Land-based and on-ice mineral drilling.
- Mapping.
- Sampling.
- Drill core storage.
- Disposal of drilling mud.
- Geophysical and geochemical surveys.
- Mechanical trenching and stripping of surficial overburden.

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- Activities to support of scientific and engineering studies to advance the Mary River Project including geotechnical investigation and geotechnical drilling.
- Progressive reclamation programs of drilling sites.
- Fuel storage.
- Ongoing operation, maintenance and upgrades to existing pioneer camps at Steensby Inlet and Mid-Rail location:
  - Steensby Inlet Camp: Latitude 70 17' 40" Longitude 78 29 15"
  - Mid-Rail Camp: Latitude 70 58' 20" Longitude 78 22' 15"
- Equipment, personnel and supply transport.

These tasks will either be supported from the facilities and infrastructure constructed at the Mary River Mine Site, Milne Port, and eventually from the future Steensby Port facilities (once constructed), or the existing Mid-Rail Camp, Steensby Port Camp and potential satellite exploration camps on Baffinland's mineral leases. As a result of the condition and age of the Mid-Rail camp, Baffinland may decide to reclaim this Camp in 2015. If it is decided to reclaim the Mid-Rail Camp in 2015, it will be completed in accordance with Baffinland's Exploration Closure and Reclamation Plan BAF-PH1-830-P16-0038.

ii. An estimate of the amount and type of ore and waste to be mined in each month,

An estimate of the breakdown of ore vs. waste mined from Deposit No. 1 by month during 2015 is provided in Table 2-1.

Table 2-1: Mine Forecast 2015

Month	Ore Mined	Waste Mined	Total Mined
	(wmt)	(wmt)	(wmt)
January	300,000	250,000	550,000
February	300,000	250,000	550,000
March	300,000	250,000	550,000
April	300,000	250,000	550,000
May	300,000	250,000	550,000
June	300,000	250,000	550,000
July	300,000	250,000	550,000
August	300,000	250,000	550,000
September	300,000	250,000	550,000
October	300,000	250,000	550,000
November	300,000	250,000	550,000
December	300,000	250,000	550,000
Total	3,600,000	3,000,000	6,600,000

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iii. An estimate of the amount and type of ore to be shipped each month,

Ore shipping during 2015 will occur during the open water season from July to October. The expected total shipping quantities for 2015 are shown in Table 2-2 below.

Table 2-2: Ore Shipping Forecast 2015

Month	Lump Ore Shipped (wmt)	Fines Shipped (wmt)	Total Shipped (wmt)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	120,000	40,000	160,000
August	930,000	310,000	1,240,000
September	930,000	310,000	1,240,000
October	270,000	90,000	360,000
November	0	0	0
December	0	0	0
Total	2,250,000	750,000	3,000,000

iv. Expected quarterly quantities to be quarried of each Specified Substance including sand, gravel and construction stone, where possible, estimated by individual quarry site or borrow location;"

A summary of the expected quantities of quarried and borrow materials to be extracted during 2015 are provided in Table 2-3 below. The expected quarterly quantities of each specified substance per quarry site and borrow location is provided in Table 2-4 below.

Table 2-3: 2015 Quarry and Borrow Pit Quantities

Quarry and Borrow Source	Estimated Annual Volume 2015 (m³)	Estimated Annual Surface Area 2015 (m²)
Q1	100,000	107,000
Q7	0	0
Q11	0	0
P1 & other approved borrow	275,000	55,000
sources	273,000	33,000
Q19	0	0
QMR2	150,000	70,000
D1Q1	-	0
D1Q2	-	0
TOTAL	525,000	

Note: The quantities from each source are approximate values and may vary based on minor changes to the construction schedule and scope, however, the aggregate volume to be extracted is expected to remain constant.

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Table 2-4: 2015 Quarry and Borrow Pit Quarterly Quantities of Specified Substances

		Total Volume			
Material	Quarter 1 (m³)	Quarter 2 (m³)	Quarter 3 (m³)	Quarter 4 (m <sup>3</sup> )	(m³)
Organic Soil/Sand		10,000 from approved borrow sources	10,000 from approved borrow sources		20,000
Gravel	40,000 from P1 & other approved borrow sources	90,000 at P1 & other approved borrow sources	90,000 at P1 & other approved borrow sources	35,000 at P1 & other approved borrow sources	255,000
Construction Stone	40,000 at QMR2	50,000 at Q1 40,000 at QMR2	50,000 at Q1 40,000 at QMR2	30,000 at QMR2	250,000
	525,000				

#### 2.5 SOLID WASTE DISPOSAL

The Tenant shall provide:

"Expected annual quantities of Solid Waste to be deposited in approved Waste Storage Areas;"

The expected annual quantity of solid wastes to be deposited during 2014 can be found in the Waste Management Plan (BAF-PH1-830-P16-0028) for the Project and updated estimated quantities for 2015 are provided in the table below.

Table 2-5: Estimated Domestic Solid Non-Hazardous Waste Generation

Waste	aste Waste Description Disposal Method		Est. Total Annual Production (tonnes)
		2015 Work Plan	
Organic	Kitchens	Incinerator	318
Paper	Packaging/Offices	Incinerator/On-site landfill	91
Plastic	Offices/Camps	Incinerator <sup>2</sup> /On-site landfill	65
Cardboard	Packaging/Camps	Incinerator	69
Cloth	Camps	Incinerator	21
Multi-Material	Packaging/Camps	Incinerator/On-site landfill	15
Metal	Packaging	On-site landfill	9
Glass	Camps	On-site landfill	8
Wood	Packaging	Incinerator	6
Bottom Ash from Camp Incinerators	Historical Inventory of Ash plus on-going generation from new camp incinerators	On-site landfill	241

Note: For assumptions used in the calculation of the quantity of generated waste for the Project, please refer to the Waste Management Plan (BAF-PH1-830-P16-0028). The calculation assumes 590 site personnel year round.

#### 2.6 SPECIFIED SUBSTANCES

The Tenant shall provide:

"Expected uses of Specified Substances pursuant to a Quarry Concession Agreement that is existing or to be entered into by the Parties pursuant to this Lease;"

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Expected specified substances pursuant to the Quarry Concession Agreement can be seen in Table 2-3 and Table 2-4 of Section 2.4. These quarried materials will be utilized in the construction activities as detailed in Section 2.2.

#### 2.7 WATER USE

The Tenant shall provide:

"Expected uses of water pursuant to a Water Compensation Agreement that is existing or to be entered into by the Parties pursuant to this Lease;"

The existing Type 'A' Water Licence 2AM-MRY1325, and the construction Type 'B' Water Licence, 8BC-MRY1416, permits the maximum following water use for domestic and industrial purposes during construction phase of the Project as shown in the table below. As per clause 22 of the Water Compensation Agreement Baffinland will pay a Consumptive Payment for Water Use, in connection with Project for the maximum number of cubic meters of water permitted to be used or withdrawn annually as defined in the water licences issued to BIM by NWB.

Table 2-6: Water Use for Domestic and Industrial Purposes during Construction Phase

Site	Source	Volume	Combined Volume	
Milne Port (Milne Inlet)	Phillips Creek (Summer) 367.5m³/day		134,130 m³/year	
(Willia Hillet)	Km 32 (Winter)			
Mine Site (Mary River)	Camp Lake	657.5 m³/day	240,000 m³/year	
Steensby Port (Steensby	ST 347 km Lake	40.7.0	455 400 3/	
Inlet)	3 km Lake	435.8 m³/day	155,400 m³/year	
	TOTAL	1460.8 m³/day	529,530 m³/year	

Source: Type 'A' Water Licence, 2AM-MRY1325 and Type 'B' Water Licence (8BC-MRY1416)

## 2.8 <u>MATERIALS SHIPPED OUT</u>

The Tenant shall provide:

"Expected quantities of materials that will be shipped off the Property;"

Expected quantities of materials planned to be shipped off site in 2015 are detailed in Table 2-7 and Table 2-8. Table 2-7 provides estimated hazardous waste and hazardous material quantities to be shipped off site during 2015 and is based on projections detailed in the Hazardous Material and Waste Management Plan (BAF-PH1-830-P16-0011 r2) for the Project with an additional allowance for decommissioned bladder farm materials. Table 2-8 details quantities of any additional material planned to be demobilized from site in 2015.

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**Table 2-7: Hazardous Waste Generation Estimate for 2015** 

Waste Category	Waste Description	Disposal Method	2015 Est. Generation (kg/person/day)	Person Days On- Site	Est. Total Annual Production (tonnes)
		2015 Work Plan			
Batteries	Misc.	Shipped off Site	0.125		27
Hydro Carbon Contaminated Material	Sludge, Absorbents, Oil Filters etc	Incinerated/Shipped off Site	0.288		62
Waste Oil	Maintenance	Incinerated/Shipped off Site	1.732		373
Waste Fuels	Maintenance	Incinerated/Shipped off Site	0.129		28
Waste Grease	Domestic/ Maintenance	Incinerated/Shipped off Site	0.046	119082	10
Waste Hazardous Liquids	Other, Paint, Oily Water	Shipped off Site	0.561		121
Waste Aerosol Canisters	Misc.	Shipped off Site	0.004		1
Contaminated Containers/Solids	Various	Shipped off Site	0.447		96
Misc Hazardous Materials	Misc.	Shipped off Site	0.350		75

Note: For assumptions used in the calculation of the quantity of generated hazardous waste for the Project, please refer to the Waste Management Plan (BAF-PH1-830-P16-0028). The calculation assumes 590 site personnel year round.

Table 2-8: Materials to be shipped out in 2015

Description	Equipment Type	Quantity
Winch Truck	Mobile equipment	1
Pick-up F350	Mobile equipment	9
Mechanic Truck F550	Mobile equipment	2
Bus	Mobile equipment	1
Fuel Truck	Mobile equipment	2
Roll-off / Vac Truck	Mobile equipment	2
Crane - 60 ton – with jib	Mobile equipment	1
Packer CS563	Mobile equipment	1
Skid Steer	Mobile equipment	2
Crusher and Screener unit	Crushing & Screening	1
Water Truck	Mobile equipment	1
Loader with bucket	Mobile equipment	5
Dozer D8T	Mobile equipment	2

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Description	Equipment Type	Quantity
Dozer D7R	Mobile equipment	1
Grader 16H	Mobile equipment	1
Grader 14H	Mobile equipment	1
Excavator 345C	Mobile equipment	2
Rock Truck 773E	Mobile equipment	2
Shop - Norseman 40'x60'	Structure	4
Compressor 375HD PQ - Trailer Mounted (S/B C250)	Mobile equipment	1
Light Tower 8 KW	Structure	8
Tanker Trailer 50,000L	Mobile equipment	2
Scissor Deck	Mobile equipment	1
Welder mounted on Trailer - Ideal Arc DC600	Mobile equipment	1
Office Trailer	Structure	2
49 Person Accommodation Complex	Structure	1
Sewage Treatment Plant	Structure	1
Duel Burner Incinerator	Structure	1
Sewage Holding Tank	Tank	1
Washroom / Lunchroom (Wheeled) (survival shack)	Shop / maintenance equipment	2
Seacan 20'	Container	36
Generator	Generator	3

#### 2.9 MATERIALS SHIPPED IN

The Tenant shall provide:

"Expected quantities of materials that will be shipped to and stored on the Property;"

At least two bulk fuel deliveries will occur during the 2015 sealift. At the onset of the shipping season, arctic diesel and Jet A fuel will be delivered to fill the tanks at the Milne tank farm.

The anticipated fuel delivery is as follows:

Table 2-9: 2015 Anticipated Fuel Delivery

	Diesel	Jet A
Total Bulk Fuel Delivery	45 ML	2 ML

Source: FEIS ERP Addendum Key Project Facts Table, Volume One

To the extent practicable, all materials and supplies required to execute the 2015 Work Plan and the work scheduled for January to June 2015 were received during the 2014 sealifts. Additional materials and supplies to support operations through the remainder of 2015 and 2016 will arrive on the 2015 sea lift including:

Delivery of ammonium nitrate (AN): 520,000 kg.

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- Delivery of pre-packaged explosives: 83,000 kg.
- Delivery of maintenance parts.
- Delivery of consumables (lubricants, grease, detergents, boosters, EZ Dets, dry goods, food, household supplies, etc.).

## 2.10 CLOSURE AND RECLAMATION COSTS

The Tenant shall provide:

"A description of the applicable provisions of the Closure and Reclamation Plan for the upcoming Year, a report of the estimated costs to be incurred to implement the Closure and Reclamation Plans for the Year and the balance of the Term;"

The provision of additional securities for the 2015 work is allocated as summarised in Table 2.10 below. Further detail can be found in Appendix B, document H349000-1000-07-126-0019.

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Table 2-10: Mary River Project Total Closure and Reclamation Security Summary<sup>1</sup>

	Α	В	С	D	E	F	G	Н
	Authorization	Liability	Pre-baseline Liability (\$)	2014 Re-Baseline (\$)	Difference (\$)	Marginal 2015 (\$)	Total (\$)	Adjustment to be posted (\$)
					D-C		D+F	E+F-Type B construction
1		IOL	40,231,000	38,961,000	(1,270,000)	2,236,000	41,197,000	819,000
2	Type A	Crown	166,000	-	(166,000)	-	-	(166,000)
3	2AM-MRY1325	Water	2,172,000	2,193,000	21,000	-	2,193,000	21,000
4		Land	38,225,000	36,769,000	(1,456,000)	2,236,000	39,005,000	633,000
5		Subtotal Type A	40,397,000	38,961,000	(1,436,000)	2,236,000	41,197,000	653,000
6		IOL	147,000		-	-	-	-
7	Type B Construction	Crown	-		-	-	-	-
8	2BC-MRY1416	Water	-	See note 3	-	-	-	-
9	250 11111111	Land	147,000		-	-	-	-
10	0 Subtotal Type B Construction		147,000		-	-	-	-
11	+	IOL	165,000	165,000	-	-	165,000	-
12	Type B Exploration	Crown	1,082,000	1,082,000	-	-	1,082,000	-
13	2BE-MRY1421	Water	18,000	18,000	-	-	18,000	-
14		Land	1,229,000	1,229,000	-	-	1,229,000	-
15	Subtotal Typ	pe B Exploration	1,247,000	1,247,000	-	-	1,247,000	-
16		IOL	-	-	-	-	-	-
17	DFO	Crown	3,566,000	3,566,000	-	-	3,566,000	-
18	ы	Water	3,566,000	3,566,000	-	-	3,566,000	-
19		Land	-	-	-	-	-	-
20		Subtotal DFO	3,566,000	3,566,000	-	-	3,566,000	-
21	A A NIDC L and	IOL	_	=	-	-	_	-
22	AANDC Land Lease	Crown	-	5,856,000	5,856,000	-	5,856,000	5,856,000
23	47H/16-1-2	Water	-	-	-	-	-	-
24		Land	-	5,856,000	5,856,000	-	5,856,000	5,856,000
25	Subtotal AAI	NDC Land Lease	-	5,856,000	5,856,000	-	5,856,000	5,856,000
27		GRAND TOTAL	45,357,000	49,630,000	4,420,000	2,236,000	51,866,000	6,509,000

<sup>&</sup>lt;sup>1</sup> All totals rounded to nearest '000 in CAD

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<sup>&</sup>lt;sup>2</sup> 2014 Re-baseline refers to 2014 Complete Project Financial Security Assessment, H349000-1000-07-126-0018, Rev. 1

<sup>&</sup>lt;sup>3</sup> The reclamation costs associated to the Type B' Water Licence 2BC-MRY1416 was captured under 2014 Complete Project Financial Security Assessment. The current sum of \$147,000 posted under this licence is proposed to be relocated under Type A' Water licence 2AM-MRY1325 upon amendment.



#### 2.11 OPTION EXERCISE NOTICES

The Tenant shall provide:

"All Option Exercise Notices;"

Refer to Appendix F for details.

#### 2.12 LEASE SCHEDULE UPDATES

The Tenant shall provide:

"Updates to items contained in the Schedules of this Lease (if applicable), including without limitation the Closure and Reclamation Plan, the Contingency and Emergency Response Plan, and the Environmental Management and Monitoring Plans;"

With the exception of the updated Interim Closure and Reclamation Plan (BAF-PH1-830-P16-0012) submitted to NWB on June 27<sup>th</sup> 2014, and Environmental Protection Plan (BAF-PH1-830-P16-0008) submitted to NIRB, NWB and QIA on July 24<sup>th</sup> 2014, all other updated Environmental Management and Monitoring Plans were submitted in March 2014 with the Annual Reports. An extensive list of these plans that were submitted can be seen in the table below:

**Table 2-11: Environmental Monitoring and Management Plans** 

Document Number	Plan Name
BAF-PH1-830-P16-0001	Surface Water Sampling Program - Quality Assurance and Quality Control Plan
BAF-PH1-830-P16-0002	Air Quality and Noise Abatement Management Plan
BAF-PH1-830-P16-0003	Blasting Management Plan
BAF-PH1-830-P16-0004	Borrow Pits and Quarry Management Plan
BAF-PH1-830-P16-0005	Borrow Source Management Plan
BAF-PH1-830-P16-0006	Cultural and Heritage Resource Protection Plan
BAF-PH1-830-P16-0009	Explosives Management Plan
BAF-PH1-830-P16-0010	Fresh Water, Sewage and Wastewater Management Plan
BAF-PH1-830-P16-0011	Hazardous Materials and Hazardous Waste Management Plan
BAF-PH1-830-P16-0013	Oil Pollution Emergency Plan - Milne Port (OPEP)
BAF-PH1-830-P16-0014	Oil Pollution Emergency Plan - Steensby Port (OPEP)
BAF-PH1-830-P16-0015	Quarry Management Plan D1Q1
BAF-PH1-830-P16-0016	Quarry Management Plan D1Q2
BAF-PH1-830-P16-0017	Quarry Management Plan Q1
BAF-PH1-830-P16-0018	Quarry Management Plan Q11
BAF-PH1-830-P16-0019	Quarry Management Plan Q19
BAF-PH1-830-P16-0020	Quarry Management Plan Q7
BAF-PH1-830-P16-0021	Railway Emergency Management Plan
BAF-PH1-830-P16-0022	Railway Maintenance Management Plan

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Document Number	Plan Name
BAF-PH1-830-P16-0023	Roads Management Plan
BAF-PH1-830-P16-0024	Shipping and Marine Wildlife Management Plan
BAF-PH1-830-P16-0025	Stakeholders Involvement Plan
BAF-PH1-830-P16-0026	Surface Water, Aquatic Ecosystems, Fish and Fish Habitat Management Plan
BAF-PH1-830-P16-0027	Terrestrial Environmental Management and Monitoring Plan
BAF-PH1-830-P16-0028	Waste Management Plan
BAF-PH1-830-P16-0029	Waste Rock Management Plan
BAF-PH1-830-PRO-0001	Hazard Identification and Risk Assessment Procedure
BAF-PH1-830-STD-0001	EHS Framework Standard
BAF-PH1-810-P16-0001	Health and Safety Management Plan
BAF-PH1-830-P16-0007	Emergency Response Plan
BAF-PH1-830-P16-0036	Spill Contingency Plan
BAF-PH1-700-P16-0001	Human Resources Management Plan

In accordance with Clause 5.1 item H of the existing Commercial Lease Q13C031, the updated Emergency Response Plan BAF-PH1-830-P16-0007 and Spill Contingency Plan BAF-PH1-830-P16-0036 have been provided in Appendix G and F of this Work Plan.

## 2.13 <u>LEASE AMENDMENT PROVISIONS</u>

The Tenant shall provide:

"Requested amendments to the provisions of this Lease (if applicable);"

Appendix E.1 includes Schedule A Land Lease drawing layouts:

- H349000-1000-00-015-0001
- H349000-1000-00-015-0002
- H349000-1000-00-015-0003
- H349000-1000-00-015-0004
- H349000-1000-00-015-0006
- H349000-1000-00-015-0007
- H349000-1000-00-015-0008
- H349000-1000-00-015-0009

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# Appendix A: 2015 Work Plan Site Layouts

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# **2015 WORK PLAN ADDENDUM**

**December 12, 2014** 



#### **Preamble**

On October 31, 2014, Baffinland Iron Mines Corporation (Baffinland) submitted the 2015 Work Plan for the Mary River Project. The following document presents the 2015 Work Plan Addendum ('Addendum') which is an update to the 2015 Work Plan submitted on October 31, 2014. The purpose of this Addendum is to include additional work scope for 2015 that was not captured in the October 31, 2014 submission.

#### Overall Structure of the Addendum to 2015 Work Plan (Addendum)

As this document is an Addendum to the 2015 Work Plan, its structure follows that of the original 2015 Work Plan submitted on October 31st 2014.

The approach has been to update 2015 Work Plan with red typeface to indicate where new information or discussion is introduced. Where the Addendum introduces a change to the 2015 Work Plan, the corresponding section, table or figure title is indicated as "Change" in the Addendum and corresponding text, figures or tables are included to address the changes. Where no change to the original content of the 2015 Work Plan occurs, the corresponding section, table or figure title is indicated as "No Change" in the Addendum and corresponding sections, tables and figures are not repeated.



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## **MARY RIVER PROJECT**



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Appendix I: 2015 Marginal Closure and Reclamation Financial Security Estimate Addendum (H349000-1000-07-126-0020) (Change)

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## 1. INTRODUCTION (CHANGE)

The following document presents the 2015 Work Plan Addendum ('Addendum') which is an update to the 2015 Work Plan submitted on October 31, 2014. The purpose of this Addendum is to include the additional scope of work for 2015 that was not captured in the October 31, 2014 submission.

The annual work plan is submitted on October 31 of the preceding year under Section 6.1 of Commercial Lease No. Q13C301 agreed between Baffinland Iron Mines Corporation and the Qikiqtani Inuit Association and under Part J, Item 3 of Type 'A' Water Licence 2AM-MRY1325 for the purposes of an Annual Security Review. Based on project requirements that have been identified and developed subsequent to the original 2015 Work Plan submission on October 31, 2014 and due to the requirement of a Work Plan submission four (4) months prior to anticipated commencement of activities, additional work activities have been identified as being required in 2015 that are intended to be conducted by Baffinland to maintain operational performance. These additional work activities are therefore captured in this 2015 Work Plan Addendum in order fulfill requirements outlined in Commercial Lease No. Q13C301 and Type 'A' Water Licence 2AM-MRY1325 and to facilitate communication of these changes with relevant stakeholders. In the event the Project does not advance, the work items as described and constructed in this addendum to the 2015 Work Plan will be subject to reclamation, as per relevant regulatory and permit obligations.

In an effort to align this document with the requirements defined in the Commercial Lease, wording highlighted by italicized blue throughout this document reflects the wording used in the Commercial Lease.

#### 2015 WORK PLAN

#### 2.1 2015 SCOPE OF WORK (NO CHANGE)

#### The Tenant shall provide:

"A description of the Operations and Work that the Tenant expects to perform in the next Year, and an identification of the Lands, within existing or proposed Land Use Areas that are to be specifically identified within the Property, where such Operations and Work shall occur"

#### This 2015 Work Plan provides for:

- 1. The continued development and construction of infrastructure required at Milne Port and the Mary River Mine Site (Mine Site) for the Mary River Project.
- 2. Development and operation of the mine, ore crushing and land transportation, stockpiling and marine shipment of ore.
- 3. At Milne Port, vessels carrying fuel, equipment and supplies for both use at the Mine Site and Milne Port will arrive during open water (approximately between mid July and mid October 2015). Material, fuel and supplies required for construction and operational activities will be transported to the Mine Site year round via the Tote Road year round.
- 4. Ongoing environmental baseline data collection and geotechnical drilling will continue to support the construction and operation of the Project. These activities will resume, as

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required, at the Milne Port site, along the Tote Road, at the Mine Site, at numerous quarry sites and at other Project development areas.

- 5. Continued environmental monitoring in accordance with the approved Project Certificate, licences, authorizations, management plans and environmental effects monitoring plans.
- 6. Continued archaeological surveys at project component areas as required.
- 7. Operation of the aerodrome at the Mine Site, which will support year round passenger and freight service by aircraft. Adjustments to the existing aerodrome flight path to improve aviation safety at Mary River Mine Site. This will involve the minor leveling out of two knolls within the planned flight path.
- 8. Continued fuel transfer from Milne tank farm to the Mine Site tank farm along the Tote Road to support ongoing construction and operations activities.

There will be continued progressive reclamation of areas of current and past use in association with exploration and construction phases of the Project. These will include:

- Ongoing long term management of calcium chloride salt storage and use at the Project Site. This
  includes waste segregation of salt bags and proper disposal of collected materials in accordance
  with Baffinland's Waste Management Plan (BAF-PH1-830-P16-0028) as well as identifying and
  containing compromised salt packages to prevent materials being distributed around the site. The
  salt is stored at both the Mary River Mine Site and Milne Port Site for use in exploration drilling,
  as well as for dust suppression on Project roads and camp pads.
- Ongoing testing, managing, and disposal of the historical inventory of incinerator bottom ash at
  the Mary River Mine Site and Milne Port. Ash that is tested and determined to be non-hazardous
  will be disposed of in the existing Mine site Landfill, and ash that is identified as hazardous will be
  sent off site for disposal in a licenced facility in Southern Canada. Ongoing ash generation,
  testing, and disposal will be conducted in accordance with Baffinland's Waste Management Plan
  (BAF-PH1-830-P16-0028).
- Completion of the decommissioning of the historical bladder farm at Milne Port. Work includes management of hydrocarbon impacted soils within the existing landfarm facility.
- Continuation of the decommissioning activities the existing bladder farm at the Mary River Mine Site. Work includes the treatment of oily water contact water and the management/storage of hydrocarbon impacted soils prior to placement in a landfarm facility. Consideration will be given to designing and constructing a new landfarm at the Mary River Mine Site during 2015, located adjacent to the existing landfill area.
- Continue the development and implementation of a long term multi-year plan to address localized areas of permafrost degradation associated with current borrow areas including Km97, and taking into consideration the longer term designs for the Tote Road upgrades and guarry development.
- Demobilization of equipment and supplies not required for near term activities, as well as the current inventory of hazardous waste and other materials by means of sealift from Milne Port Site.
- Continued development of the Mine Site landfill and deposition of non-hazardous wastes in accordance with the Landfill Maintenance and Operations Manual. Consideration will be given to

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designing and constructing a new landfill at the Milne Port Site if it is deemed necessary during 2015. Note that this activity would require application and approval from the NWB and QIA.

- Discharge and treatment of residual treated sewage effluent stored in PWSPs at the Mary River Exploration Camp and Milne Port Site as required.
- Consideration will be given to the construction of an additional PWSP to be located near the Mary River Mine Site sewage treatment plant. If a PWSP is deemed necessary during 2015, it will be constructed and commissioned.
- Ongoing removal from the site, or safe disposal on-site of infrastructure, equipment and supplies
  no longer required for ongoing construction and operations. The items are defined by the Mary
  River Project Interim Closure and Reclamation Plan, and include infrastructure and site materials,
  fuel caches, drums, barrels, buildings and contents, docks, water pumps and lines, material and
  equipment prior to the expiry of applicable permits. Where required, internal roads will be regraded to restore natural drainage and to reduce erosion.
- Unless otherwise identified within the approved Interim Closure and Reclamation Plan, where
  roads are no longer in use, Baffinland will remove culverts and open/restore the natural drainage
  channel. In carrying out this activity, measures will be implemented to minimize erosion and
  sedimentation.
- Areas that have been contaminated by hydrocarbons from normal fuel transfer, handling and storage activities will be reclaimed to meet objectives as outlined in the Government of Nunavut's Environmental Guideline for Site Remediation, 2010. The use of reclaimed soils for the purpose of back fill or general site grading may be carried out upon consultation and approval by the Government of Nunavut, Department of Environment and an Inspector.

The Work Plan is presented within the context of the applicable regulatory authorizations and schedule. Baffinland holds, or will soon hold, all the permits and authorizations required to carry out the 2015 Work Plan. The main regulatory instruments that allow for the 2015 Work Plan activities include:

- Amended Project Certificate No. 005 (May 2014)
  - All works and activities proposed have been screened by the NIRB and have been considered in the amended Project Certificate issued by the NIRB.
- Type 'A' Water Licence (2AM-MRY1325) Expires June 10, 2025
  - The works and activities planned for 2015 are within the scope of the licence or the Type B Licences below, except where noted otherwise.
- Type 'B' Water Licence (8BC-MRY1416) Expires August 5, 2016
  - For additional construction works and activities at Milne Port as a result of approved Early Revenue Phase.
- Exploration Type 'B' Water Licence (2BE-MRY1421 which supersedes: 2BB-MRY1114) Expires April 16, 2021.

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 The renewed Type 'B' Water Licence authorizes Baffinland to undertake mineral exploration, geotechnical drilling programs, ongoing operation, maintenance and upgrades to existing pioneer camps at Steensby Inlet and Mid Rail camp.

#### Quarry Permits

- Schedule 'B' Quarry Concession Agreement under IOL Commercial Lease New Lease, Q13C301.
- It is anticipated that quarrying of rock and gravel from permitted quarry locations (as shown on Schedule "A1") of the IOL Commercial Lease will continue. In addition, Baffinland may be applying for additional access and quarry permits to extract rock and gravel material adjacent and near the existing Milne Inlet Tote Road by means of an Amendment to the existing Schedule 'B' to the Lease.
- Currently approved quarries and borrows are as follows, note that all quarries/borrows are on QIA lease with the exception of the borrow P1 which is located on Crown Land and is under the AANDC Land Lease:
  - 1. Quarry Q7, Tote Road Km 7
  - 2. Quarry Q11, Tote Road Km 11
  - 3. Borrow P1, Tote Road Km 63
  - 4. Quarry Q19, Tote Road Km 19
  - 5. Borrow KM104, Tote Road Km 104
  - New borrow sources are needed at the following locations:
  - 1. Borrow Km 2, Tote Road Km 2, (Refer to Appendix C)
  - 2. Borrow Km 97, Tote Road Km 97 (Refer to Appendix D)
- The construction of access roads from the Tote road will be necessary to access some of the quarry and borrow locations. Where it is necessary, culvert crossings will be installed along the access roads. The occurrence of fish habitat streams are not anticipated along these access roads
- DFO Authorization for the Ore Dock 14-HCAA-00525 No. 1 expires December 31, 2020
- DFO Authorization 06-HCAA-CA7-00084 for water crossings along the Tote Road
- AANDC Land Use Permits and Quarry Permit to access existing and possibly new borrow and rock quarries adjacent and near the Tote Road (currently covered under the Class A Crown Land Use Permit, 47H16-1-2 and Quarry Tote Road Land Use Permit (LUP) N2014Q0016 and Quarry Permit 2014QP0023 – expires June 30, 2016).
- Additional AANDC Land Use permits include:
  - Ore Dock Land Use Permit (LUP) N2014X0012 expires June 30, 2016
  - Steensby and Milne Inlet Land Use Permit (LUP) N2014C0013 expires June 30, 2016

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Bruce Head Land Use Permit (LUP) N2014C0013 – expires June 30, 2016

Appendix E includes Land Lease drawing layouts: H349000-1000-00-015-0001, H349000-1000-00-015-0002, H349000-1000-00-015-0003, H349000-1000-00-015-0004, H349000-1000-00-015-0006, H349000-1000-00-015-0007, H349000-1000-00-015-0008 and H349000-1000-00-015-0009.

#### 2.2 <u>INFRASTRUCTURE AND CONSTRUCTION WORKS (CHANGE)</u>

The Tenant shall provide:

"A description of the topographical features and any natural or manmade features, structures or works that may be affected by the Tenant's Operations and Work within existing or proposed Land Use Areas that are to be specifically identified within the Property;"

Construction activities forecast for 2015 under the amended Project Certificate No. 005 include:

#### Milne Inlet

During the sealift, most of the activities at Milne Port will focus on unloading the barges and positioning received equipment and material in designated laydown areas. In addition, the following construction activities will continue:

- Continue to install and commission communication and IT infrastructure.
- Continue to construct remaining earth/rock fill for laydown areas, the ore dock, ore stockpile pad, runoff sedimentation collection ponds, and local site roads at Milne Port.
- Completion of the construction of the ore dock to support the ship loader and related ship loader facilities.
- Finalize assembly and installation of Shiploader 1 and Shiploader 2.
- Milne Ore Stacking, Reclaim and Ship Loader mechanical and electrical completion, commissioning and start-up.
- Install mooring buoys or dolphins as part of the ore dock construction.
- Install and commission trailers (offices, lunchrooms and washcars) including electrical and plumbing.
- Install and commission electrical power systems to the shiploader, trailers, causeway and dock including wharf lighting.
- Complete installation of buildings including maintenance building, workshop office and welding shop.
- Complete installation of power generation systems.
- Install power supply and distribution for buildings including maintenance shops and warehouses.
- If required, additional dredging to maintain the required vessel draft depths. Suitable dredged material will be used as backfill within the ore dock structure.

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- Continued development of the Quarry Q1.
- Earthworks including minor pads for maintenance shop, welding shop, truck wash building, as well as additional laydown area required as storage for 2015 Sealift equipment, supplies and materials.
- Construct concrete slabs and foundations for the maintenance shop and welding shop extension.
   Construct exterior concrete foundations and sump for truck wash building.
- Commence construction of the maintenance shop, welding shop extension and truck wash facility.
- Expand the existing accommodation complex with additional 120 beds, including mine dry facilities, recreational and dining facilities.
- Temporary contractor infrastructure determined and required by construction contractors
- Upgrade the existing sewage treatment plant.
- Modifications to increase capacity of existing potable water treatment plant.
- Install an additional hazardous waste containment cell (Details provided Appendix F.4).

#### **Tote Road**

All equipment, material, fuel, and supplies required for construction and operation activities at the Mary River Mine Site will be transported from Milne Port to the Mine Site via the Tote Road. The upgrade of the road will continue throughout 2015. During 2015 the activities associated with the upgrade to the Tote Road will include:

- Continued Improvements including realignment of the road and offsetting of some culvert crossing locations.
- Reduce maximum slopes.
- Increase turn radii.
- Increase road embankment width.
- Increase culvert capacities by means of new installations and/or culvert extensions where required.
- Crush material as required, haul, place and compact new rock fill as required.
- Installation and maintenance of erosion control measures.
- Construct ditches with rip rap as required.
- Continue development of Borrow P1. Commence development of Km 2 and Km 97 borrows (located near Km 2 and 97 of the Tote Road). Continue the development of other approved quarry and borrow sources to provide access to aggregate for upgrades and sand for winter sanding, minor fill, and maintenance and other approved construction projects. If required, commence the development of Quarries Q7, Q11, and Q19.

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- Drill, blast, excavate, and cut and fill activities as required to reduce steep grades and improve curves where necessary and to improve sight distance and visibility along the road.
- Removal of the four (4) sea-can bridges (bin walls will remain in place).
- Install signs and reflective markers as required.
- Bridge maintenance as required.
- Installation of Ice road crossings adjacent to the existing bridges if needed to remove sea can bridges and/or to complete maintenance on new bridges.

#### **Mary River Mine Site**

Construction activities at the Mary River Mine Site will consist of:

- Complete construction of buildings and associated equipment including maintenance shops, site services building, warehouse, waste management buildings, truck wash facilities and truck weigh scale.
- Complete internal and external fit out (electrical and mechanical) of maintenance building welding shop and warehouse.
- Install offices, lunchrooms and washcars including maintenance office/washcar and pit office/washcar.
- Complete installation of the power generating equipment and install additional generators as required.
- Complete installation of power distribution to E-houses and buildings.
- Install E-house at existing Weatherhaven camp.
- Construct hazardous waste and fuel containment berms.
- Construct roads and lay down pads.
- Construct, install and grade waste rock haul road, waste rock pad, drainage ditches and settling pond.
- Construct crusher pad settling pond.
- Finish and improve grade of the airstrip.
- Extend landfill to increase capacity based on the approved design area.
- Install approved two-50,000 L and one-75,000 L Jet-A fuel tanks at the aerodrome apron to service aircraft charters.
- Continued development of QMR2 quarry if required.
- Improvements to the aerodrome flight path to increase aviation safety; including the leveling of knolls that are within the airstrip approach and the construction of temporary access roads to those areas for the purpose of completing this work (refer to Appendix F for details).

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- Earthworks including extensions to existing accommodation pad, power generation pad and crusher pad. The expansion of the crusher pad is required to provide extra area for blending operations as well as to accommodate the second crusher train.
- Earthworks to construct pads for ore haul workshop, truck wash facility, construction office and light vehicle parking lot.
- Construct concrete slabs and foundations for the ore haul workshop and welding shop extension.
   Construct concrete foundations and sump for truck was building.
- Commence construction of the ore haul workshop, welding shop extension and ore haul truck wash building.
- Construction of a detour road around the existing facilities connecting the crusher pad to the Tote road.
- Expand the existing accommodation complex with additional 172 beds, including mine dry facilities, recreational and dining facilities.
- Install additional sewage treatment capacity.
- Temporary contractor infrastructure determined and required by construction contractors.
- Modifications to increase capacity of existing potable water treatment plant.

#### 2.3 <u>INFRASTRUCTURE LAYOUT AT END OF 2015 (CHANGE)</u>

The Tenant shall provide:

"A detailed description of planned construction and infrastructure changes, additions or removals within the boundaries of the Impact Areas and the Exploration Areas, either permanent or temporary;"

Updated 2015 Site layouts for Milne Port and Mary River Mine Site can be found in Appendix A of this document.

## 2.4 MINING, QUARRYING AND EXPLORATION ACTIVITIES (CHANGE)

The Tenant shall provide:

"A description of any and all mining and exploration activities planned for the year, including:

i. Exploration activity and drilling plan,

In 2014 Baffinland received the approval for a renewal to the exploration Type 'B' Water Licence (2BE-MRY1421). All activities listed under this renewal have been permitted in the past and are common to exploration properties throughout Nunavut.

The Type 'B' Licence (2BE-MRY1421) allows for Baffinland to continue/undertake the activities on its mineral leases in the Qikiqtani Region of Nunavut. The scope of Type "B" Water Licence No. 2BE-MRY1421 "allows for the use of Waters and the deposit of Waste for a Mining undertaking, classified as per Schedule 1 of the Regulations at the Mary River Exploration Project" and includes the following activities:

Land-based and on-ice mineral drilling.

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- Mapping.
- Sampling.
- Drill core storage.
- Disposal of drilling mud.
- Geophysical and geochemical surveys.Mechanical trenching and stripping of surficial overburden.
- Activities to support of scientific and engineering studies to advance the Mary River Project including geotechnical investigation and geotechnical drilling.
- Progressive reclamation programs of drilling sites.
- Fuel storage.
- Ongoing operation, maintenance and upgrades to existing pioneer camps at Steensby Inlet and Mid-Rail location:
  - Steensby Inlet Camp: Latitude 70 ° 17' 40" Longitude 78 ° 29 15"
  - Mid-Rail Camp: Latitude 70 °58' 20" Longitude 78 °22' 15"
- Equipment, personnel and supply transport.

These tasks will either be supported from the facilities and infrastructure constructed at the Mary River Mine Site, Milne Port, and eventually from the future Steensby Port facilities (once constructed), or the existing Mid-Rail Camp, Steensby Port Camp and potential satellite exploration camps on Baffinland's mineral leases. As a result of the condition and age of the Mid-Rail camp, Baffinland may decide to reclaim this Camp in 2015. If it is decided to reclaim the Mid-Rail Camp in 2015, it will be completed in accordance with Baffinland's Exploration Closure and Reclamation Plan BAF-PH1-830-P16-0038.

ii. An estimate of the amount and type of ore and waste to be mined in each month,

An estimate of the breakdown of ore vs. waste mined from Deposit No. 1 by month during 2015 is provided in Table 2-1.

Table 2-1: Mine Forecast 2015 (No Change)

Month	Ore Mined (wmt)	Waste Mined (wmt)	Total Mined (wmt)
January	300,000	250,000	550,000
February	300,000	250,000	550,000
March	300,000	250,000	550,000
April	300,000	250,000	550,000
May	300,000	250,000	550,000
June	300,000	250,000	550,000
July	300,000	250,000	550,000
August	300,000	250,000	550,000
September	300,000	250,000	550,000
October	300,000	250,000	550,000
November	300,000	250,000	550,000
December	300,000	250,000	550,000
Total	3,600,000	3,000,000	6,600,000

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iii. An estimate of the amount and type of ore to be shipped each month,

Ore shipping during 2015 will occur during the open water season from July to October. The expected total shipping quantities for 2015 are shown in Table 2-2 below.

Table 2-2: Ore Shipping Forecast 2015 (No Change)

Month	Lump Ore Shipped (wmt)	Fines Shipped (wmt)	Total Shipped (wmt)
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	120,000	40,000	160,000
August	930,000	310,000	1,240,000
September	930,000	310,000	1,240,000
October	270,000	90,000	360,000
November	0	0	0
December	0	0	0
Total	2,250,000	750,000	3,000,000

iv. Expected quarterly quantities to be quarried of each Specified Substance including sand, gravel and construction stone, where possible, estimated by individual quarry site or borrow location;"

A summary of the expected quantities of quarried and borrow materials to be extracted during 2015 are provided in Table 2-3 below. The expected quarterly quantities of each specified substance per quarry site and borrow location is provided in Table 2-4 below.

Table 2-3: 2015 Quarry and Borrow Pit Quantities (Change)

Quarry and Borrow Source	Estimated Annual Volume 2015 (m³)	Estimated Annual Surface Area 2015 (m²)
Q1	300,000	138,000
Q7	0	0
Q11	0	0
P1 & other approved borrow	275,000	55,000
sources	275,000	55,000
Q19	0	0
QMR2	400,000	95,000
D1Q1	-	0
D1Q2	-	0
TOTAL	975,00	

Note: The quantities from each source are approximate values and may vary based on minor changes to the construction schedule and scope, however, the aggregate volume to be extracted is expected to remain constant.

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Table 2-4: 2015 Quarry and Borrow Pit Quarterly Quantities of Specified Substances (Change)

2015			Total Volume		
Material	Quarter 1 (m³)	Quarter 2 (m³)	Quarter 3 (m³)	Quarter 4 (m³)	(m³)
Organic Soil/Sand		10,000 from approved borrow sources	10,000 from approved borrow sources		20,000
Gravel	40,000 from P1 & other approved borrow sources	90,000 at P1 & other approved borrow sources	90,000 at P1 & other approved borrow sources	35,000 at P1 & other approved borrow sources	255,000
Construction Stone	40,000 at QMR2	120,000 at Q1 125,000 at QMR2	120,000 at Q1 125,000 at QMR2	60,000 at Q1 110,000 at QMR2	700,000
TOTAL					975,000

#### 2.5 SOLID WASTE DISPOSAL (NO CHANGE)

The Tenant shall provide:

"Expected annual quantities of Solid Waste to be deposited in approved Waste Storage Areas;"

The expected annual quantity of solid wastes to be deposited during 2014 can be found in the Waste Management Plan (BAF-PH1-830-P16-0028) for the Project and updated estimated quantities for 2015 are provided in the table below.

Table 2-5: Estimated Domestic Solid Non-Hazardous Waste Generation (No Change)

Waste	Waste Description	Disposal Method	Est. Total Annual Production (tonnes)
		2015 Work Plan	
Organic	Kitchens	Incinerator	318
Paper	Packaging/Offices	Incinerator/On-site landfill	91
Plastic	Offices/Camps	Incinerator <sup>2</sup> /On-site landfill	65
Cardboard	Packaging/Camps	Incinerator	69
Cloth	Camps	Incinerator	21
Multi-Material	Packaging/Camps	Incinerator/On-site landfill	15
Metal	Packaging	On-site landfill	9
Glass	Camps	On-site landfill	8
Wood	Packaging	Incinerator	6
Bottom Ash from Camp Incinerators	Historical Inventory of Ash plus on-going generation from new camp incinerators	On-site landfill	241

Note: For assumptions used in the calculation of the quantity of generated waste for the Project, please refer to the Waste Management Plan (BAF-PH1-830-P16-0028). The calculation assumes 590 site personnel year round.

#### 2.6 SPECIFIED SUBSTANCES (CHANGE)

The Tenant shall provide:

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"Expected uses of Specified Substances pursuant to a Quarry Concession Agreement that is existing or to be entered into by the Parties pursuant to this Lease:"

Expected specified substances pursuant to the Quarry Concession Agreement can be seen in Table 2-3 and Table 2-4 of Section 2.4. These quarried materials will be utilized in the construction activities as detailed in Section 2.2.

#### 2.7 WATER USE (NO CHANGE)

The Tenant shall provide:

"Expected uses of water pursuant to a Water Compensation Agreement that is existing or to be entered into by the Parties pursuant to this Lease;"

The existing Type 'A' Water Licence 2AM-MRY1325, and the construction Type 'B' Water Licence, 8BC-MRY1416, permits the maximum following water use for domestic and industrial purposes during construction phase of the Project as shown in the table below. As per clause 22 of the Water Compensation Agreement Baffinland will pay a Consumptive Payment for Water Use, in connection with Project for the maximum number of cubic meters of water permitted to be used or withdrawn annually as defined in the water licences issued to BIM by NWB.

Table 2-6: Water Use for Domestic and Industrial Purposes during Construction Phase (No Change)

Site	Source	Volume	Combined Volume	
Milne Port (Milne Inlet)	Phillips Creek (Summer)	367.5m³/day	134,130 m³/year	
(Willie Iffiet)	Km 32 (Winter)			
Mine Site (Mary River)	Camp Lake	657.5 m³/day	240,000 m³/year	
Steensby Port (Steensby	Steensby Port (Steensby ST 347 km Lake		455 400 3/	
Inlet)	3 km Lake	435.8 m³/day	155,400 m³/year	
	TOTAL	1460.8 m³/day	529,530 m³/year	

Source: Type 'A' Water Licence, 2AM-MRY1325 and Type 'B' Water Licence (8BC-MRY1416)

#### 2.8 MATERIALS SHIPPED OUT (NO CHANGE)

The Tenant shall provide:

"Expected quantities of materials that will be shipped off the Property:"

Expected quantities of materials planned to be shipped off site in 2015 are detailed in Table 2-7 and Table 2-8. Table 2-7 provides estimated hazardous waste and hazardous material quantities to be shipped off site during 2015 and is based on projections detailed in the Hazardous Material and Waste Management Plan (BAF-PH1-830-P16-0011 r2) for the Project with an additional allowance for decommissioned bladder farm materials. Table 2-8 details quantities of any additional material planned to be demobilized from site in 2015.

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Table 2-7: Hazardous Waste Generation Estimate for 2015 (No Change)

Waste Category	Waste Description	Disposal Method	2015 Est. Generation (kg/person/day)	Person Days On- Site	Est. Total Annual Production (tonnes)
		2015 Work Plan			
Batteries	Misc.	Shipped off Site	0.125		27
Hydro Carbon Contaminated Material	Sludge, Absorbents, Oil Filters etc	Incinerated/Shipped off Site	0.288		62
Waste Oil	Maintenance	Incinerated/Shipped off Site	1.732		373
Waste Fuels	Maintenance	Incinerated/Shipped off Site	0.129		28
Waste Grease	Domestic/ Maintenance	Incinerated/Shipped off Site	0.046	119082	10
Waste Hazardous Liquids	Other, Paint, Oily Water	Shipped off Site	0.561		121
Waste Aerosol Canisters	Misc.	Shipped off Site	0.004		1
Contaminated Containers/Solids	Various	Shipped off Site	0.447		96
Misc Hazardous Materials	Misc.	Shipped off Site	0.350		75

Note: For assumptions used in the calculation of the quantity of generated hazardous waste for the Project, please refer to the Waste Management Plan (BAF-PH1-830-P16-0028). The calculation assumes 590 site personnel year round.

Table 2-8: Materials to be shipped out in 2015 (No Change)

Description	Equipment Type	Quantity
Winch Truck	Mobile equipment	1
Pick-up F350	Mobile equipment	9
Mechanic Truck F550	Mobile equipment	2
Bus	Mobile equipment	1
Fuel Truck	Mobile equipment	2
Roll-off / Vac Truck	Mobile equipment	2
Crane - 60 ton – with jib	Mobile equipment	1
Packer CS563	Mobile equipment	1
Skid Steer	Mobile equipment	2
Crusher and Screener unit	Crushing & Screening	1
Water Truck	Mobile equipment	1
Loader with bucket	Mobile equipment	5
Dozer D8T	Mobile equipment	2

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Description	Equipment Type	Quantity
Dozer D7R	Mobile equipment	1
Grader 16H	Mobile equipment	1
Grader 14H	Mobile equipment	1
Excavator 345C	Mobile equipment	2
Rock Truck 773E	Mobile equipment	2
Shop - Norseman 40'x60'	Structure	4
Compressor 375HD PQ - Trailer Mounted (S/B C250)	Mobile equipment	1
Light Tower 8 KW	Structure	8
Tanker Trailer 50,000L	Mobile equipment	2
Scissor Deck	Mobile equipment	1
Welder mounted on Trailer - Ideal Arc DC600	Mobile equipment	1
Office Trailer	Structure	2
49 Person Accommodation Complex	Structure	1
Sewage Treatment Plant	Structure	1
Duel Burner Incinerator	Structure	1
Sewage Holding Tank	Tank	1
Washroom / Lunchroom (Wheeled) (survival shack)	Shop / maintenance equipment	2
Seacan 20'	Container	36
Generator	Generator	3

## 2.9 MATERIALS SHIPPED IN (CHANGE)

The Tenant shall provide:

"Expected quantities of materials that will be shipped to and stored on the Property;"

At least two bulk fuel deliveries will occur during the 2015 sealift. At the onset of the shipping season, arctic diesel and Jet A fuel will be delivered to fill the tanks at the Milne tank farm.

The anticipated fuel delivery is as follows:

Table 2-9: 2015 Anticipated Fuel Delivery (No Change)

	Diesel	Jet A
Total Bulk Fuel Delivery	45 ML	2 ML

Source: FEIS ERP Addendum Key Project Facts Table, Volume One

Materials, equipment, supplies, buildings and machinery to support construction and operations through the remainder of 2015 and 2016 will arrive on the 2015 sea lift include:

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Table 2-10: Mobile and Mechanical Equipment to be received during 2015

Description	Equipment Type	Quantity
CAT 777 DUMP BOX	SPARES	2
COMPACTOR,	MOBILE EQUIPMENT	1
ORE HAUL TRUCK WORKSHOP OFFICE WASHCAR SEWAGE COLLECTION TANK,	TANK	1
POTABLE WATER STORAGE TANK,	TANK	1
POTABLE WATER STORAGE TANK,	TANK	1
POTABLE WATER TREATMENT PLANT, VENDOR PACKAGE ,	VENDOR PACKAGE	1
RAW WATER TANK ,	TANK	2
STOCKPILE RECLAIM EXTENSION CONVEYOR,	CONVEYING	1
SEWAGE TREATMENT PLANT, VENDOR PACKAGE ,	VENDOR PACKAGE	1
TRUCK WASH FACILITY, VENDOR PACKAGE,	VENDOR PACKAGE	2
GRADER,	MOBILE EQUIPMENT	2
MINE SITE GRADER,	MOBILE EQUIPMENT	1
EXCAVATOR,	MOBILE EQUIPMENT	2
MINE HAUL TRUCK ,	MOBILE EQUIPMENT	6
MOBILE CRUSHING FRONT END LOADER,	MOBILE EQUIPMENT	4
MOBILE CRUSHING FRONT END LOADER,	MOBILE EQUIPMENT	7
INTEGRATED TOOLCARRIER	MOBILE EQUIPMENT	2
EXCAVATOR,	MOBILE EQUIPMENT	1
SINGLE PASS, PRODUCTION DRILL,	MOBILE EQUIPMENT	1
COACH PASSENGER TRANSFER BUS ,	MOBILE EQUIPMENT	2
1.35 MW GENERATOR,	GENERATOR	3
PICKUP TRUCK,	MOBILE EQUIPMENT	12
FLAT DECK TRUCK,	MOBILE EQUIPMENT	2
SERVICE TRUCK,	MOBILE EQUIPMENT	1
CONTAINER HANDLER ,	MOBILE EQUIPMENT	2
JUMP CONVEYOR,	CONVEYING	2
RECLAIM MOBILE FEEDER ,	FEEDER	1
STOCKPILE MOBILE FEEDER,	FEEDER	1
STOCKPILE MOBILE STACKER,	STACKER / STOCKPILE	1
PRIMARY CRUSHING PLANT LINE 3,	CRUSHER	1
PRIMARY SCREENING PLANT LINE 3,	SCREEN	1

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SECONDARY SCREENING PLANT LINE 3,	SCREEN	1
SECONDARY CRUSHING PLANT LINE 3,	CRUSHER	1
TERTIARY CRUSHING PLANT LINE 3,	CRUSHER	1
MAINTENANCE FUEL/LUBE TRUCK ,	MOBILE EQUIPMENT	2
WATER TRUCK	MOBILE EQUIPMENT	1
SERVICE TRUCK,	MOBILE EQUIPMENT	1
ORE HAUL TRUCK WORKSHOP OFFICE WASHCAR RAW WATER PUMP,	PUMP	1
ORE HAUL TRUCK WORKSHOP OFFICE WASHCAR RAW WATER TANK,	TANK	1
TOTE ROAD ORE HAUL TRUCK - PUP TRAILER ,	MOBILE EQUIPMENT	15
TOTE ROAD ORE HAUL TRUCK - LEAD TRAILER ,	MOBILE EQUIPMENT	15
LARGE MOBILE LIGHT PLANT,	MOBILE EQUIPMENT	5
MOBILE LIGHT PLANT,	MOBILE EQUIPMENT	5
TOTE ROAD ORE HAUL TRUCK - TRACTOR ,	MOBILE EQUIPMENT	15

Additional supplies to support construction and operations through the remainder of 2015 and 2016 will arrive on the 2015 sea lift include:

- Delivery of ammonium nitrate (AN): 520,000 kg.
- Delivery of pre-packaged explosives: 83,000 kg.
- Delivery of maintenance parts.
- Delivery of consumables (lubricants, grease, detergents, boosters, EZ Dets, dry goods, food, household supplies, etc.).

#### 2.10 CLOSURE AND RECLAMATION COSTS (CHANGE)

#### The Tenant shall provide:

"A description of the applicable provisions of the Closure and Reclamation Plan for the upcoming Year, a report of the estimated costs to be incurred to implement the Closure and Reclamation Plans for the Year and the balance of the Term;"

The provision of additional securities for the 2015 work is allocated as summarised in Table 2.10 below. Further detail can be found in Appendix B, document H349000-1000-07-126-0019.

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Table 2-11: Mary River Project Total Closure and Reclamation Security Summary<sup>1</sup> (CHANGE)

	Α	В	С	D	E	F	G	Н	T.
	Authorization	Liability	Pre-baseline Liability (\$)	2014 Re- Baseline (\$) <sup>2</sup>	Difference (\$)	Marginal 2015 (\$)	2015 Security Addendum (\$)	Total (\$)	Adjustment to be posted (\$)
					D-C			D+F+G	E+F+G-Type B Construction
1	Type A	IOL	40,231,000	38,886,000	(1,345,000)	2,236,000	4,248,000	45,370,000	4,992,000
2		Crown	166,000	-	(166,000)	-	0	0	(166,000)
3	2AM-MRY1325	Water	2,172,000	2,193,000	21,000	_	21,000	2,214,000	42,000
4		Land	38,225,000	36,693,000	(1,532,000)	2,236,000	4,227,000	43,156,000	4,784,000
5	Subtotal Type A		40,397,000	38,886,000	(1,511,000)	2,236,000	4,248,000	45,370,000	4,826,000
6	T D	IOL	147,000	See note 3	-	-	-	-	-
7	Type B Construction	Crown	-		-	-	-	-	-
8	2BC-MRY1416	Water	_		_	_	-	-	
9	250 1411(11410	Land	147,000		-	-	-	-	-
10	Subtotal Type B Construction		147,000		-	-	-	-	-
11	Туре В	IOL	165,000	165,000	_	_	-	165,000	
12	Exploration	Crown	1,082,000	1,082,000	-	-	-	1,082,000	-
13	2BE-MRY1421	Water	18,000	18,000	-	- ,	-	18,000	-
14		Land	1,229,000	1,229,000	-	-	-	1,229,000	-
15	Subtotal Type B Exploration		1,247,000	1,247,000	-	-		1,247,000	
16		IOL	_	_	_		-	-	
17	DFO	Crown	3,566,000	3,566,000	-	-	-	3,566,000	-
18	DIO	Water	3,566,000	3,566,000	_	-	-	3,566,000	-
19		Land	-	-	-	-	-	-	-
20		Subtotal DFO	3,566,000	3,566,000	-	-	-	3,566,000	-
21	AANDC Land Lease 47H/16-1-2	IOL			-	-	-	-	-
22		Crown	-	5,931,000	5,931,000	-	-	5,931,000	5,931,000
23		Water	-	-	-	-	-	-	-
24		Land	-	5,931,000	5,931,000	-	-	5,931,000	5,931,000
25	Subtotal AANDC Land Lease		-	5,931,000	5,931,000	-		5,931,000	5,931,000
27		GRAND TOTAL	45,357,000	49,630,000	4,420,000	2,236,000	\$4,248,000	56,114,000	10,757,000

<sup>&</sup>lt;sup>1</sup> All totals rounded to nearest '000 in CAD

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<sup>&</sup>lt;sup>2</sup> 2014 Re-baseline refers to 2014 Complete Project Financial Security Assessment, H349000-1000-07-126-0018, Rev. 1

<sup>&</sup>lt;sup>3</sup> The reclamation costs associated to the Type 'B' Water Licence 2BC-MRY1416 was captured under 2014 Complete Project Financial Security Assessment. The current sum of \$147,000 posted under this licence is proposed to be reallocated under Type 'A' Water licence 2AM-MRY1325 upon amendment.





#### 2.11 OPTION EXERCISE NOTICES (CHANGE)

The Tenant shall provide:

"All Option Exercise Notices;"

Refer to Appendix F for details.

#### 2.12 LEASE SCHEDULE UPDATES (NO CHANGE)

The Tenant shall provide:

"Updates to items contained in the Schedules of this Lease (if applicable), including without limitation the Closure and Reclamation Plan, the Contingency and Emergency Response Plan, and the Environmental Management and Monitoring Plans;"

With the exception of the updated Interim Closure and Reclamation Plan (BAF-PH1-830-P16-0012) submitted to NWB on June 27<sup>th</sup> 2014, and Environmental Protection Plan (BAF-PH1-830-P16-0008) submitted to NIRB, NWB and QIA on July 24<sup>th</sup> 2014, all other updated Environmental Management and Monitoring Plans were submitted in March 2014 with the Annual Reports. An extensive list of these plans that were submitted can be seen in the table below:

Table 2-12: Environmental Monitoring and Management Plans (No Change)

Document Number	Plan Name
BAF-PH1-830-P16-0001	Surface Water Sampling Program - Quality Assurance and Quality Control Plan
BAF-PH1-830-P16-0002	Air Quality and Noise Abatement Management Plan
BAF-PH1-830-P16-0003	Blasting Management Plan
BAF-PH1-830-P16-0004	Borrow Pits and Quarry Management Plan
BAF-PH1-830-P16-0005	Borrow Source Management Plan
BAF-PH1-830-P16-0006	Cultural and Heritage Resource Protection Plan
BAF-PH1-830-P16-0009	Explosives Management Plan
BAF-PH1-830-P16-0010	Fresh Water, Sewage and Wastewater Management Plan
BAF-PH1-830-P16-0011	Hazardous Materials and Hazardous Waste Management Plan
BAF-PH1-830-P16-0013	Oil Pollution Emergency Plan - Milne Port (OPEP)
BAF-PH1-830-P16-0014	Oil Pollution Emergency Plan - Steensby Port (OPEP)
BAF-PH1-830-P16-0015	Quarry Management Plan D1Q1
BAF-PH1-830-P16-0016	Quarry Management Plan D1Q2
BAF-PH1-830-P16-0017	Quarry Management Plan Q1
BAF-PH1-830-P16-0018	Quarry Management Plan Q11
BAF-PH1-830-P16-0019	Quarry Management Plan Q19
BAF-PH1-830-P16-0020	Quarry Management Plan Q7
BAF-PH1-830-P16-0021	Railway Emergency Management Plan
BAF-PH1-830-P16-0022	Railway Maintenance Management Plan

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Document Number	Plan Name
BAF-PH1-830-P16-0023	Roads Management Plan
BAF-PH1-830-P16-0024	Shipping and Marine Wildlife Management Plan
BAF-PH1-830-P16-0025	Stakeholders Involvement Plan
BAF-PH1-830-P16-0026	Surface Water, Aquatic Ecosystems, Fish and Fish Habitat Management Plan
BAF-PH1-830-P16-0027	Terrestrial Environmental Management and Monitoring Plan
BAF-PH1-830-P16-0028	Waste Management Plan
BAF-PH1-830-P16-0029	Waste Rock Management Plan
BAF-PH1-830-PRO-0001	Hazard Identification and Risk Assessment Procedure
BAF-PH1-830-STD-0001	EHS Framework Standard
BAF-PH1-810-P16-0001	Health and Safety Management Plan
BAF-PH1-830-P16-0007	Emergency Response Plan
BAF-PH1-830-P16-0036	Spill Contingency Plan
BAF-PH1-700-P16-0001	Human Resources Management Plan

In accordance with Clause 5.1 item H of the existing Commercial Lease Q13C031, the updated Emergency Response Plan BAF-PH1-830-P16-0007 and Spill Contingency Plan BAF-PH1-830-P16-0036 have been provided in Appendix G and F of this Work Plan.

#### 2.13 LEASE AMENDMENT PROVISIONS (NO CHANGE)

The Tenant shall provide:

"Requested amendments to the provisions of this Lease (if applicable);"

Appendix E.1 includes Schedule A Land Lease drawing layouts:

- H349000-1000-00-015-0001
- H349000-1000-00-015-0002
- H349000-1000-00-015-0003
- H349000-1000-00-015-0004
- H349000-1000-00-015-0006
- H349000-1000-00-015-0007
- H349000-1000-00-015-0008
- H349000-1000-00-015-0009

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### Appendix A: 2015 Work Plan Site Layouts (Change)

H349000-2000-00-015-0021 Milne Port – Infrastructure Footprint – Work Plan 2015

H349000-4000-00-015-0021 Mine Site – Infrastructure Footprint – Work Plan 2015



### Appendix B: 2015 Marginal Closure and Reclamation Financial Security Estimate (H349000-1000-07-126-0019)

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# Appendix C: Borrow Source Management Plan – Km 2 (BAF-PH1-830-P16-0030)

# Appendix D: Borrow Source Management Plan – Km 97 (BAF-PH1-830-P16-0032)



# Appendix E: Commercial Lease Q13C301 – Land Lease Drawings



### Appendix E.1: Schedule A Updated Land Lease Drawings

H349000-1000-00-015-0001 Schedule A1 – The Property H349000-1000-00-015-0004 Schedule A2 - Mary River Impact and Exploration Area H349000-1000-00-015-0002 Schedule A3 – Milne Inlet Impact Area H349000-1000-00-015-0003 Schedule A4 – Deposits 4/5 Exploration Area H349000-1000-00-015-0008 Schedule A5 - Tote Road Area H349000-1000-00-015-0007 Schedule A6 - Tote Road Area H349000-1000-00-015-0006 Schedule A7 - Tote Road Area H349000-1000-00-015-0009 Schedule A8 - Mary River Rail Area



### Appendix E.2: Montieth & Sutherland Land Lease Drawings

E-1330-6 Sheet 1 of 8	Overall Impact and Exploration Areas – Mary River Project
E-1330-6 Sheet 2 of 8	Milne Inlet Impact Area – Tote Road Impact Area
E-1330-6 Sheet 3 of 8	Tote Road Impact Area Including Q8 & Q12
E-1330-6 Sheet 4 of 8	Tote Road Impact Area
E-1330-6 Sheet 5 of 8	Tote Road Impact Area Including Q17 & P2
E-1330-6 Sheet 6 of 8	Tote Road Impact Area – Exploration Area (Deposits 4/5)
E-1330-6 Sheet 7 of 8	Mary River Impact Area – Tote Road Impact Area – Exploration Area (Deposit 2/3)
E-1330-6 Sheet 8 of 8	Rail Impact Area

### Appendix F: Option Exercise Notice



# Appendix F.1: Option Exercise Notice for Aerodrome Aviation Safety



## Appendix F.2: Option Exercise Notice for the Landfarm at Milne Port



## Appendix F.3: Option Exercise Notice for the Hazardous Waste Berm at Milne Port

### Appendix G: Emergency Response Plan (BAF-PH1-830-P16-0007)



Appendix H: Spill Contingency Plan (BAF-PH1-830-P16-0036)