
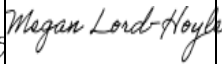



# 2021 WORK PLAN

NOVEMBER 6, 2020

REV 0



2020-11-06	0	Issued for Use	 C. Murray	 M. Lord-Hoyle	Via Email 6 Nov. 2020 T.Eldem	Via Email 6 Nov. 2020 D.Henkleman	 B. Penny
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## 1 INTRODUCTION

The following document presents the 2021 Work Plan for the Mary River Project as required under Section 6.1 of Commercial Lease No. Q13C301 (the Lease) agreed between Baffinland Iron Mines Corporation (Baffinland) and the Qikiqtani Inuit Association (QIA). Additionally, this document is a requirement under Amendment No. 1 of the Type 'A' Water Licence 2AM-MRY1325 for the purposes of an Annual Security Review (ASR). In the event the Project does not advance, the work items as described and constructed in the 2021 Work Plan will be subject to reclamation, as per the Mary River Project Interim Closure and Reclamation Plan (BAF-PH1-830-P16-0012, refer to Appendix C) and relevant regulatory and permit obligations.

The 2021 Work Plan has been prepared in accordance with the Lease Operations Guide for the "Annual Work Plan Submission" finalized in 2018. The Operations Guide is a set of procedures developed jointly by QIA and Baffinland to guide the on-going administration of the Lease.

Baffinland continues to expand the operation of the Mary River Project, both through the 6 million tonne per annum (Mtpa) increase approved in 2020 and the submission of the Phase 2 Environmental Impact Statement (EIS) in 2018. Activities outlined in this 2021 Work Plan represent planned works, improvements, infrastructure and equipment required to execute the currently approved phase of the project.

An overview of the on-going mining operations and works planned for 2021 is provided below, with further details presented in subsequent sections of the document.

1. Development and operation of the mine, ore crushing and land transportation, stockpiling and marine shipment of ore;
2. The continued development and construction of infrastructure required at Milne Port and the Mary River Mine Site (Mine Site) and along the Tote Road for the Mary River Project;
3. Continued operation of Mine Site and Milne Port Camps to support ongoing operations and construction activities which will include the use of water and deposition of waste as authorized under existing permits;
4. On-going operation and expansion of permitted quarry and borrow sources;
5. At Milne Port, vessels carrying fuel, equipment and supplies for use at the Mine Site and Milne Port will arrive during open water. Material, fuel and supplies required for operational and construction activities will be transported to the Mine Site year round via the Tote Road;
6. Ongoing environmental effects studies and baseline data collection will continue to support the construction and operation of the Project as well as for future engineering requirements;
7. Continued environmental monitoring in accordance with the approved Project Certificate, licenses, authorizations, management plans and environmental effects monitoring plans;



8. On-going exploration activities including drilling, mapping, prospecting, sampling, and geophysics. Planning of the details of the summer drilling and/or trenching program is not yet finalized;
9. Tote Road improvements to address safety concerns, freshet runoff issues and poor road conditions during the spring and summer periods;
10. Continued construction of additional fuel storage at the project;
11. Site grading and laydown construction for supplies and equipment to support future construction activities and remove ponding and permafrost degradation issues around current infrastructure; and
12. Erection of additional maintenance facilities to safely service equipment.

## 2 LIST OF CURRENT PERMITS

The Work Plan is presented within the context of the applicable regulatory authorizations. The main regulatory instruments that allow for the 2021 Work Plan activities are presented in Table 2.1 below.

**Table 2.1: Existing Environmental Permits**

Permit Name	Permit Number	Regulatory Agency	Expiry
Project Certificate and Amended Project Certificate	005	Nunavut Impact Review Board	No Expiry
Inuit Impact Benefit Agreement	N/A	Qikiqtani Inuit Association	No Expiry
Commercial Lease	Q13C301	Qikiqtani Inuit Association	31-Dec-43
Amendment No.1 Type A Water Licence	2AM-MRY1325	Nunavut Water Board	10-Jun-25
Type B Water License – Exploration	2BE-MRY1421	Nunavut Water Board	16-Apr-21
Land Use Permit - Steensby	N2019C0009	Crown Indigenous Relations and Northern Affairs Canada	29-Jun-24
Land Use Permit – Tote Road	N2019Q0011	Crown Indigenous Relations and Northern Affairs Canada	29-Jun-24
Land Use Permit - Bruce Head	N2019J0010	Crown Indigenous Relations and Northern Affairs Canada	29-Jun-24
Quarrying Permit - Tote Road (Borrow P1 at Km 63)	Under Review	Crown Indigenous Relations and Northern Affairs Canada	N/A
Land Lease - Milne Foreshore	47H/16-1-2	Crown Indigenous Relations and Northern Affairs Canada	30-Jun-35
Permitted Quarries and Borrows on Inuit Owned Land: Quarries Q1, QMR2,Q7, Q11, Q19, Borrows Km 104, Km 2, and Km 97	N/A	Qikiqtani Inuit Association	N/A
Fisheries Authorization - Ore Dock	14-HCAA-00525	Fisheries and Oceans Canada	31-Dec-20
Fisheries Authorization – Freight Dock	18-HCAA-00160	Fisheries and Oceans Canada	N/A
Fisheries Authorization - Tote Road	NU-06-0084	Fisheries and Oceans Canada	No Expiry
Fisheries Authorization – Crossings	06-HCAA-CA7-00084	Fisheries and Oceans Canada	N/A
Fisheries Crossings along Tote Road and Quarries, culvert extensions and replacements	Various Letters of Advice	Fisheries and Oceans Canada	No Expiry
Licence to Fish for Scientific Purposes and Animal Use Protocol <sup>1</sup>	S-20/21-1011-NU, FW-ACC-2020-46	Fisheries and Oceans Canada	30-Sept-20

Permit Name	Permit Number	Regulatory Agency	Expiry
Navigable Waters - Crossings	8200-07-10273, 10267, 10269, 10268, 10274, 10272, 10266, 10271	Transport Canada	Until work completed
Marine Facility	4306-2-6- P/B	Transport Canada	24-June-20
Scientific Permit <sup>2</sup>	02 065 20R-M	Government of Nunavut	31-Dec-20
Factory Licence <sup>3</sup>	F1-076068/E	National Resources Canada	-

**NOTE:**

1 Held by Minnow Environmental Inc. and North/South Consulting for Licence to Fish for Scientific Purposes associated with the Project.

2 Held by Baffinland for data collection and analysis for environmental monitoring and management with the Project.

3 Held by Dyno Nobel, the explosives contractor on behalf of the Project.

### 3 ANNUAL SCOPE OF OPERATIONS AND WORK

Table 3.1 below provides a description of Baffinland's proposed operation and work for 2021, with an emphasis on changes from the previous year, and the anticipated effects that this work would have on the Property and the infrastructure of the mine.

While the activities outlined in this 2021 Work Plan represent planned works, improvements, infrastructure and equipment required to execute the currently approved phase of the project, it is anticipated that additional approvals from the NIRB, NWB, QIA, and DFO will be required for select activities, and may include;

- Amendments to the Project Certificate No. 005 and Type 'A' Water Licence 2AM-MRY1325 as a result of the Phase 2 Project;
- Modifications to the existing Type 'A' Water Licence 2AM-MRY1325;
- An Options Exercise Notice (OEN) to modify the boundaries of the Commercial Lease, or to reclassify lands in accordance the terms and conditions of the Commercial Lease;
- A Tote Road Adjustment Notice (TRAN) for changes to the alignment, grade or design of the Tote Road as described in the Lease Operations Guide for the Tote Road Adjustment Notice and in accordance with the terms and conditions of the Commercial Lease;
- Quarry Management Plans (QMPs) will be required for the newly proposed quarries in 2021. Additionally, existing plans may need to be revised to reflect changes in the quarry footprint proposed for 2021; and,
- Authorization or Letter of Advice from DFO for fish habitat.

In addition to the above noted activities proposed for the Project in 2021, Table 3.2 summarizes the activities to take place in 2021 if the Phase 2 Project Certificate amendment is approved. Reclamation security proposed for Phase 2 activities was outlined in a separate estimate submitted with the Phase 2 application in May 2019, however details are included here for clarity on the scope of the 2021 Project activities. Activities listed in Table 3.2 will only be undertaken following approval of the Project Certificate amendment and posting of additional securities for Phase 2 related activities.

Table 3.1: Scope of Work for 2021

Item No.	Property Section	Land Use Area	Approximate Location	Description	Description of Effect on Feature(s)	Anticipated Completion Year	Required Permit or QIA Applications	Other Information
	<i>e.g. Milne Inlet/ Tote Road/ Mine Site</i>	<i>e.g. Impact Area /Exploration Area</i>	<i>Approximate UTM (if known) (NAD83 Zone 17W)</i>	<i>Provide a detailed description of the activity.</i>	<i>A description of how the feature(s) (topographical and/or manmade) will be affected</i>	<i>N/A</i>	<i>List any associated permit applications if applicable.</i>	<i>e.g. Issued for construction documentation</i>
<b>Scope of Work for 2021</b>								
2021-1	Milne Port and Mine Site	Impact Area	(A) N7913243 E561233 (B) N7913358 E561547	Installation of power distribution cabling at the Mine Site and Milne Port facilities, including; a) Mary River Powerhouse to Dyno Nobel explosives facility (500 m) b) Mary River E-House 3 to KM 104 laydown (300 m) c) Milne Port 'Steensby Camp' power line (100 m).	No effect, will be placed on developed laydown within Potential Development Area	2021	Security	None
2021-2	Milne Port	Impact Area	N7975847 E503630	Construction of new warehouse facility (seacan tent structure) on laydown LP2 (1,127 m²).	No effect, will be placed on developed laydown within Potential Development Area	2021	Security	None
2021-3	Milne Port	Impact Area	N7976579 E503313	Construction of offices and workshops at the stockpile and shiploader (208 m²).	No effect, will be placed on developed laydown within Potential Development Area	2021	Security	None
2021-4	Mine Site	Impact Area	N7913787 E560270	Construction of new offices and trailers at the OHT Laydown and expansion of the OHT laydown (400 m²).	No effect, will be placed on developed laydown within Potential Development Area	2021	Security	None
2021-5	Mine Site and Milne Port	Impact Area	(A) Mine Site - N7914254 E559146 (B) Milne Port - N7975987 E503795	Construction of one (1) quonset hut structure at the aerodrome, and one (1) quonset hut structure adjacent to the Milne Port Fire Hall for emergency equipment storage (100 m² each).	No effect, will be placed on developed laydown within Potential Development Area	2021	Security	None
2021-6	Mine Site	Impact Area	N7913203 E561491	Construction of concrete pad apron exterior to the HD Shop (1,020 m²).	No effect, will be placed on developed laydown within Potential Development Area	2021	Security	Layout Drawings
2021-7	Mine Site	Impact Area	N7915503 E563241	Additional maintenance facilities at the KM 110 laydown to support maintenance of Deposit 1 equipment. Facilities include two heated structures for mobile equipment storage (60 m² and 120 m²), a concrete pad for tire maintenance (60 m²), and welding shop (540 m²).	No effect, will be placed on developed laydown within Potential Development Area	2021	Security	Layout Drawings
2021-8	Milne Port	Impact Area	N7975343 E503420	New thaw and wash bay facility for mobile vehicle maintenance (1,250 m²).	No effect, will be placed on developed laydown within Potential Development Area	2021	Security	Layout Drawings

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	<i>e.g. Milne Inlet/ Tote Road/ Mine Site</i>	<i>e.g. Impact Area /Exploration Area</i>	<i>Approximate UTM (if known) (NAD83 Zone 17W)</i>	<i>Provide a detailed description of the activity.</i>	<i>A description of how the feature(s) (topographical and/or manmade) will be affected</i>	<i>N/A</i>	<i>List any associated permit applications if applicable.</i>	<i>e.g. Issued for construction documentation</i>
2021-9	Milne Port	Impact Area	N7976186 E503506	Warehouse/parts staging area facility upgrades, including a new seacan tent building (540 m <sup>2</sup> ).	No effect, will be placed on developed laydown within Potential Development Area	2021	Security	Layout Drawings
2021-10	Mine Site	Impact Area	N7912392 E560965	Development of Landfill Cell #4.	Fill placed on undisturbed tundra, erection of perimeter fencing.	2021	None	IFCs
2021-11	Mine Site	Impact Area	N7914033 E559601	Construction of seacan tent structure at the aerodrome for freight and equipment sorting and storage (1,127 m <sup>2</sup> ).	No effect, will be placed on developed laydown within Potential Development Area	2021	Security	None
2021-12	Mine Site	Impact Area	N7913305 E560832	Relocation of the Mine Site Complex (MSC) sewage treatment plant to be in line with the Sailiivik Camp sewage treatment plant.	No effect, will be placed on developed laydown within Potential Development Area	2021	None	Layout Drawings
2021-13	Milne Port	Impact Area	N7976464 E504126	Desalination Plant.	No effect, will be placed on developed laydown within Potential Development Area	2021	Security Water Licence Modification	IFCs
2021-14	Mine Site	Impact Area	(A) N7914430 E562938 (B) N7914454 E563497	Modification to roadways within the ultimate pit limit of Deposit 1, including pit perimeter road and expansion of the cross cut road. All ground disturbance and road construction within the ultimate Deposit 1 pit limits.	Leveling and grading within Potential Development Area and the ultimate pit limit	2021	None	Layout Drawings
2021-15	Mine Site	Impact Area	(A) N7913312 E561706 (B) N7912874 E562191	Expansion of the area east of the Mine Site workshops and crushing area for improved traffic management - 104 to MSC (19,424 m <sup>2</sup> ) and 104.5 to Crusher (18,308 m <sup>2</sup> ).	Leveling and grading within Potential Development Area	2020	Security	Layout Drawings
2021-16	Mine Site	Impact Area	N7913479 E561406	Expansion of MSC laydown for vehicle parking (5,243 m <sup>2</sup> ).	Leveling and grading within Potential Development Area	2021	Security	Layout Drawings
2021-17	Mine Site	Impact Area	(A) N7913688 E563838 (B) N7914037 E564237 (C) N7914863 E564377	Construction of three (3) laydown areas for road aggregate storage on the mine haul road 106 Km (4,843 m <sup>2</sup> ), 107 Km (2,159 m <sup>2</sup> ), 108 Km (3,703 m <sup>2</sup> ).	Leveling and grading within Potential Development Area	2021	Security	Layout Drawings
2021-18	Mine Site	Impact Area	N7915782 E563132	Waste Rock Facility Expansion to approved footprint (265,000 m <sup>2</sup> ).		2021	Security Modification Request 8 (approved)	Layout Drawings

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2021-19	Mine Site	Impact Area	N7915574 E564180	Explosives plant secondary storage location TBD (20,000 m <sup>2</sup> - laydown grade and recontour).	Leveling and grading within Potential Development Area	2021	Security NRCan Approval	Layout Drawings
<b>Work Carried over from 2020 &amp; Prior – Security in Place</b>								
2020-1	Mine Site	Impact Area	N7913348 E561121	Installation of fuel line and associated piping between the mine site fuel storage areas and gensets. Total of 250 m pipe.	Minor leveling and grading within Potential Development Area.	2020	Security	IFCs
2020-2	Mine Site	Impact area	N7913321 E560631	Installation of a mine dry facility at the Sailiivik Camp.	No effect, will be placed on developed laydown within Potential Development Area	2021	Security	Layout drawings
2020-3	Mine Site and Milne Port	Impact area	A) Mine Site - N7914780 E558420 (B) Milne Port - N7975973 E503774	Installation of two (2) new waste incineration units; one (1) at the Mine Site, one (1) at Milne Port.	No effect, will be placed on developed laydown within Potential Development Area	2021	Security Water Licence Modification	IFC's
2020-4	Mine Site	Impact Area	N7916744 E563228	Expansion of the Waste Rock Facility Water Treatment Plant to include an additional geotube settling containment area. Total footprint of new lined area is 3,000 m <sup>3</sup> .	Leveling and grading within Potential Development Area	2021	Security Water Licence Modification	IFCs
2020-5	Mine Site	Impact Area	N7915730 E563348	Installation of a hard line for transfer of water from Deposit 1 to the Waste Rock Facility sedimentation pond. Hard line will replace current use of layflat hose. Total length of line is 3,500 m.	Positive environmental effect, focus on improving water management and reduction of spill potential. Minor leveling eveling and grading within Potential Development Area	2021	Security	Layout drawings
2020-6	Mine Site	Impact Area	N7915529 E564028	Construction of a sedimentation pond at the Mine Haul Road to manage surface water runoff. Pond will be lined and have a footprint of 10,000 m <sup>2</sup> .	Leveling and grading within Potential Development Area	2021	Security Water Licence Modification	IFCs
2020-7	Mine Site	Impact Area	N7914428 E563192	Implementation of a water management plan for Deposit 1, including berms and ditching to manage surface water.	Leveling and grading within ultimate limit of Deposit 1	2021	None	IFCs
2020-8	Mine Site	Impact Area	(A) HD Shop - N7913209 E561467 (B) MR Shop - N7913295 E5612525 (C) Wash Bay - N7913213 E561645 (D) 110 Laydown - N7915177 E563454	Construction of a waste containment cells exterior to workshop facilities, for temporary storage of materials prior to longer term storage in the Hazardous Waste Berms and eventual backhaul. HD Shop - 72 m <sup>2</sup> MR Shop - 120 m <sup>2</sup> Wash Bay - 120 m <sup>2</sup> 110 Laydown - 144 m <sup>2</sup>	Lined area on developed laydown within the Potential Development Area	2020	Security Water Licence Modification OEN	IFCs
2020-10	Mine Site	Impact Area	N7914047 E559584	Expansion of the warehouse laydown area for additional storage of seacans and equipment. Total area of 3,200 m <sup>2</sup> .	Leveling and grading within Potential Development Area	2020	Security	Layout Drawings

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	<i>e.g. Milne Inlet/ Tote Road/ Mine Site</i>	<i>e.g. Impact Area /Exploration Area</i>	<i>Approximate UTM (if known) (NAD83 Zone 17W)</i>	<i>Provide a detailed description of the activity.</i>	<i>A description of how the feature(s) (topographical and/or manmade) will be affected</i>	<i>N/A</i>	<i>List any associated permit applications if applicable.</i>	<i>e.g. Issued for construction documentation</i>
2020-11	Mine Site	Impact area	N7914137 E559330	Installation of permanent lighting for port and logistics. Total of 600m of electrical cabling.	No effect, will be placed on developed laydown within Potential Development Area	2020- August/Sept ember	Security	Layout drawings
2020-13	Tote Road	Impact area	Various	Continued work to repair and replace culverts along the Tote Road, including those with identified fish passage issues. All culverts will be repaired or replaced to the 2013 Hatch design.	Positive environmental effect, focus on improving water management and fish passage	2021	None - Security in Place	N/A
2020-14	Tote Road	Impact area	A) KM 26 - N7959689 E518576 B) KM 80 - N7922308 E542130	Addition of washroom facilities/refuge stations at KM26 and KM80 IT Towers.	Minor leveling and grading within Potential Development Area.	2021	Security	Layout drawings
2019-1	Rail/ Tote Road/ Milne Port	Impact Area	(A) Q1 - N7974810 E503970 (B) Q5 - N7972300 E506000 (650,000 m <sup>2</sup> ) (C) PQ2A - N7955289 E522130 (345,500 m <sup>2</sup> ) (D) PQ4A - N7942972 E523552 (105,000 m <sup>2</sup> ) (E) PQ6A - N7929733 E528240 (194,000 m <sup>2</sup> ) (F) PQ12A - N7920935 E539158 (232,300 m <sup>2</sup> )	Development and expansion of quarries, consisting of; four (4) new quarries along the Tote Road with 8m wide access roads, expansion of previously proposed but not constructed quarry Q5, and expansion of the working limits of existing quarry Q1.	Leveling and grading within Potential Development Area and Tote Road	2020	Quarry Management Plans	Surveys
2019-2	Rail/Tote Road	Impact Area	(A) Laydown 4 - N7960605 E518164 (66,300 m <sup>2</sup> ) (B) Laydown 7 - N7940427 E524119 (28,900 m <sup>2</sup> ) (C) Laydown 9 -N7929681 E527833 (92,500 m <sup>2</sup> ) (D) Laydown 10 - N7921358 E540249 (34,500 m <sup>2</sup> ) (E) Laydown 13 - N7915170 E557599 (7,000 m <sup>2</sup> )	Development of six (6) laydowns adjacent to the existing Tote Road for material stockpiling and storage. The laydowns will be constructed by filling directly over undisturbed ground and 31m away from the high water mark of local waterbodies. The laydowns will be constructed of 500 mm thickness quarried rock with granular surfacing, free draining to appropriate ditches and water courses. All laydowns to cover approximately 2 ha, with one laydown at km 7 laydown covering approximately 7.5 ha.	Leveling and grading within Potential Development Area	2020	OEN (Approved)	Layout Drawing(s)
2019-3	Tote Road	Impact Area	(A) KM8 N7971327 E506536 (B) KM97 N7914750 E554750	Grade adjustments at KM8 and KM97 to improve safety and drainage. No new culvert installations required.	Leveling and grading within Potential Development Area.	2019	TRAN	IFCs
2019-6	Milne Port	Impact Area	N7975763 E502984 (155,000 m <sup>2</sup> )	Expansion of the Milne Port Ore Stockpile and water management facilities to optimize stockpiling and shiploading operations, resulting in additional 140,000 m <sup>2</sup> of stockpile area and 15,000 m <sup>2</sup> lined sedimentation pond.	Leveling and grading within Potential Development Area	2020	Water Licence Modification No. 12 (Approved)	IFCs
2019-7	Milne Port	Impact Area	N7974938 E503109 (6,000 m <sup>2</sup> )	Construction of berm and linear steel support structure on laydown LP3 for receipt and storage of stacker/reclaimer equipment. Berm dimensions are 200 m x 30m x 2m, constructed on existing disturbed area.	No effect, will occur on developed laydown within Potential Development Area	2019	None - on existing disturbed area	Layout Drawing(s)



Item No.	Property Section	Land Use Area	Approximate Location	Description	Description of Effect on Feature(s)	Anticipated Completion Year	Required Permit or QIA Applications	Other Information
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2019-8	Milne Port	Impact Area	N7976033 E503590 (4,180 m <sup>2</sup> )	Construction of new polishing waste stabilization pond (PWSP) at 380 Person camp to manage off-spec effluent from the 380p camp waste water treatment plant.	No effect, will occur on developed laydown within Potential Development Area	2020	OEN Water Licence Modification	IFCs
2019-9	Milne Port	Impact Area	N7975481 E503779 (2700 m <sup>2</sup> )	New contaminated water/snow containment pond adjacent to existing pond at Milne Port.	Leveling and grading within Potential Development Area	2020	OEN Water Licence Modification	IFCs
2019-11	Mine Site / Milne Port	Impact Area	(A) Mine Site - N7914539 E558228 (360 m <sup>2</sup> ) (B) Milne Port - N7976251 E503915 (360 m <sup>2</sup> )	Construction of new hazardous waste berm at the Mine site and at Milne Port. Decommissioning of select existing berms to consolidate waste management.	Environmental optimization. Leveling and grading within Potential Development Area	2020	OEN Water Licence Modification	IFCs
2019-12	Mine Site	Impact Area	N7914015 E564007 (91,000 m <sup>2</sup> )	Laydown area for parking and equipment storage at Km 107.5.	Leveling and grading within Potential Development Area	2020	None	Layout drawing(s)
2019-13	Mine Site	Impact Area	N7915590 E563181 (180,000 m <sup>2</sup> )	New Km 110.5 Laydown for additional equipment storage and maintenance shop installation.	Leveling and grading within Potential Development Area	2020	None	Layout drawing(s)
2019-14	Mine Site	Impact Area	N7915283 E563133 (1,500 m <sup>2</sup> )	Heated maintenance shop for pit equipment at Km 110.5 Laydown. Tent structure with lined floor. Footprint is approximately 1,500 m <sup>2</sup> .	No effect, will occur on developed laydown within Potential Development Area	2020	None	Layout drawing(s)
2019-15	Mine Site	Impact Area	N7914500 E558150	Decommissioning and repurposing of Weatherhaven structures for storage and workspace.	No effect, will occur on developed laydown within Potential Development Area	2020	None	Layout drawing(s)
2019-16	Mine Site	Impact Area	N7913450 E560450 (12,000 m <sup>2</sup> )	Expansion of the 800 person camp pad to the north by approximately 12,000 m <sup>2</sup> to accommodate additional support offices and buildings.	Leveling and grading within Potential Development Area	2020	None	Layout drawing(s)
2019-17	Mine Site	Impact Area	N7913450 E560450 (925 m <sup>2</sup> )	Addition of offices/trailers/buildings at the 800p Camp. Total footprint is 925 m <sup>2</sup> , including approximately 500 m <sup>2</sup> for a new fire hall and emergency response building.	No effect, will occur on developed laydown within Potential Development Area	2019	None	Layout drawing(s)
2019-18	Mine Site	Impact Area	N7912328 E561111 (9,000 m <sup>2</sup> )	Construction of a landfarm at the Mine Site landfill facility, with an estimated footprint of 9,000 m <sup>2</sup> . Disturbed area included in 2018 Addendum, new lined area requires security allocation.	Leveling and grading within Potential Development Area. Area already allocated as disturbed.	2020	Water Licence Modification No. 10 (Approved) Security in place Notification to NWB	IFCs

Item No.	Property Section	Land Use Area	Approximate Location	Description	Description of Effect on Feature(s)	Anticipated Completion Year	Required Permit or QIA Applications	Other Information
	<i>e.g. Milne Inlet/ Tote Road/ Mine Site</i>	<i>e.g. Impact Area /Exploration Area</i>	<i>Approximate UTM (if known) (NAD83 Zone 17W)</i>	<i>Provide a detailed description of the activity.</i>	<i>A description of how the feature(s) (topographical and/or manmade) will be affected</i>	<i>N/A</i>	<i>List any associated permit applications if applicable.</i>	<i>e.g. Issued for construction documentation</i>
2019-20	Mine Site	Impact Area	N7913446 E561080	Construction of one (1) arctic diesel fuel tank (Tank 6) with 15ML capacity, and associated fuel piping. The fuel tank will be constructed on a pad within the existing Mine Site fuel storage facility.	No effect, will be placed on developed lined containment facility within Potential Development Area	2020	Phase 2 Project Certificate	IFCs
2019-23	Mine Site	Impact Area	N7913284 E563431 (133,400 m2)	Construction of a Run of Mine (ROM) Stockpile at KM 106 (previously KM 107) (76,600 m <sup>2</sup> ) and sedimentation pond (10,600 m <sup>2</sup> disturbed, 7,500 m <sup>2</sup> lined).	Leveling and grading within Potential Development Area	2020	Notification to NWB ( Completed)	IFCs
2019-25	Milne Port	Impact Area	N7976389 E503422 (4,400 m2)	Installation of East Sedimentation Pond Expansion (2a) approved with Modification No. 9, but for which security has not been allocated.	Leveling and grading within Potential Development Area	2020	Water Licence Modification No. 9 (Approved) Submission of IFC Drawings (Submitted)	IFCs
2018-A1	Mine Site	Impact Area	N7914560 E563904	Construction of the Mine Haul Road Cross Cut, and widening of the existing Mine Haul Road for safety purposes and to permit larger truck traffic.	Minor levelling and grading within Potential Development Area	2020	Water Licence Modification No.7 (Approved) Submission of IFC Drawings (Submitted)	IFCs
2018-27	Milne Port	Impact Area	N7976483 E504119	Relocation of effluent discharge point to barge offload area.	Positive effect. Reduced environmental spill risk.	2021	Water Licence Modification No. 7 (Approved)	IFCs
2018-28	Milne Port	Impact Area	N7976491 E504122	Marine manifold building relocation - moving from current location north of fuel tank farm to upgraded freight dock location.	Positive effect. Reduced environmental spill risk.	2020	Water Licence Modification No. 7 (Approved)	Layout drawing
<b>Progressive Reclamation</b>								
-	Milne Port	-	N7975568 E503745	Management of hydrocarbon impacted soils within the existing landfarm facility.	N/A	Ongoing	N/A	N/A
-	Milne Port	-	N/A	Demobilization of equipment and supplies not required for near term activities as well as current inventory of hazardous waste and other materials by means of sealift from Milne Port.	N/A	2018	N/A	N/A
-	Milne Port and Mine Site	-	N/A	Discharge and treatment of residual treated sewage effluent stored in PWSP at Mary River Exploration Camp and Milne Port Site.	N/A	Ongoing	N/A	N/A
-	Tote Road	-	N/A	Continue the development and implementation of a long term multi-year plan to address localized areas of permafrost degradation associated with the current borrow areas including Km 97.	N/A	Ongoing	N/A	N/A

Item No.	Property Section	Land Use Area	Approximate Location	Description	Description of Effect on Feature(s)	Anticipated Completion Year	Required Permit or QIA Applications	Other Information
	<i>e.g. Milne Inlet/ Tote Road/ Mine Site</i>	<i>e.g. Impact Area /Exploration Area</i>	<i>Approximate UTM (if known) (NAD83 Zone 17W)</i>	<i>Provide a detailed description of the activity.</i>	<i>A description of how the feature(s) (topographical and/or manmade) will be affected</i>	<i>N/A</i>	<i>List any associated permit applications if applicable.</i>	<i>e.g. Issued for construction documentation</i>
-	Tote Road	-	N/A	Reclamation of sections of the exploration phase Tote Road no longer in use by means of scarifying and culvert removals.	N/A	Ongoing	N/A	N/A
-	Mine Site	-	N7912845 E560922	Continued development of the Mine Site landfill and deposition of non-hazardous waste in accordance with the Landfill Maintenance and Operations Manual.	N/A	Ongoing	N/A	N/A
-	Site Wide	-	N/A	Ongoing removal from site, or safe disposal on-site of infrastructure, equipment and supplies no longer required for ongoing construction and operations.	N/A	Ongoing	N/A	N/A
-	Site Wide	-	N/A	Unless otherwise identified within the approved interim Closure and Reclamation Plan, where roads are no longer in use - removal of culvert and open/restore the natural drainage channel. Measures will be taken to minimize erosion and sedimentation.	N/A	Ongoing	N/A	N/A
-	Site Wide	-	N/A	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. Use of reclamation soils for purpose of back fill or general site grading may be carried out with approval of applicable inspectors and agencies.	N/A	Ongoing	N/A	N/A

Table 3.2: Post Project Approval Activities

Item No.	Property Section	Land Use Area	Approximate Location	Description	Description of Effect on Feature(s)	Anticipated Completion Year	Required Permit or QIA Applications	Other Information
	<i>e.g. Milne Inlet/ Tote Road/ Mine Site</i>	<i>e.g. Impact Area /Exploration Area</i>	<i>Approximate UTM (if known) (NAD83 Zone 17W)</i>	<i>Provide a detailed description of the activity.</i>	<i>A description of how the feature(s) (topographical and/or manmade) will be affected</i>	<i>N/A</i>	<i>List any associated permit applications if applicable.</i>	<i>e.g. Issued for construction documentation</i>
<b>Scope of Work for 2021</b>								
2021-20	Milne Port	Impact Area	Southern Bypass - N7975495 E503078 Access Road No.3 - N7974700 E503254 Access Road No.4 - N7974829 E503419 Access Road No.5 - N7974700 E503463	Construction of up to 2.5 km of Southern Bypass and access roads.	Minor leveling and grading within Potential Development Area	2021	Phase 2 Project Certificate Amendment Phase 2 Water Licence Amendment	
2021-21	Milne Port	Impact Area	N7974900 E503450	Excavation and backfill of Crushing Feed Stockpile pad foundation and installation of Conical Stockpile feeder modules.	Excavation, levelling and grading within Potential Development Area.	2021		

Item No.	Property Section	Land Use Area	Approximate Location	Description	Description of Effect on Feature(s)	Anticipated Completion Year	Required Permit or QIA Applications	Other Information
	<i>e.g. Milne Inlet/ Tote Road/ Mine Site</i>	<i>e.g. Impact Area /Exploration Area</i>	<i>Approximate UTM (if known) (NAD83 Zone 17W)</i>	<i>Provide a detailed description of the activity.</i>	<i>A description of how the feature(s) (topographical and/or manmade) will be affected</i>	<i>N/A</i>	<i>List any associated permit applications if applicable.</i>	<i>e.g. Issued for construction documentation</i>
2021-22	Northern Transportation Corridor	Impact Area	KM 0 to 110	Construction of rail bed earthworks from km 0 to 50.	Excavation, levelling and grading within Potential Development Area.	2021	Phase 2 Project Certificate Amendment Phase 2 Water Licence Amendment	
2021-23	Milne Port	Impact Area	N7975000 E503900	Construction of Rail workshop including foundations , steel structure building enclosures and building services.	No effect, will be placed on developed quarry footprint within Potential Development Area	2021	Phase 2 Project Certificate Amendment Phase 2 Water Licence Amendment	
2021-24	Mine Site	Impact Area	N7913400 E561400	Dismantling of the Mine Site Camp (MSC) and transport camp modules to Port Site Camp (PSC).	No effect, will be placed on developed quarry footprint within Potential Development Area	2021		
2021-25	Milne Port	Impact Area	N7975950 E504000	PSC expansion from 120 beds to 330 beds - Re-assemble MSC at the PSC including water, sewage and electrical, kitchen, dining, and locker installation.	No effect, will be placed on developed quarry footprint within Potential Development Area	2021	Phase 2 Project Certificate Amendment Phase 2 Water Licence Amendment	
2021-26	Milne Port	Impact Area	N7975150 E503350	Expansion of 380-person temporary camp to a 536-person camp, washroom facilities, and lockers to support additional project personnel.	No effect, will be placed on developed quarry footprint within Potential Development Area	2021	Phase 2 Project Certificate Amendment Phase 2 Water Licence Amendment	
2021-27	Tote Road	Impact Area	Km 55 (9,000m2) Km 85 (9,000 m2)	Installation of 2 x 64 person temporary camps along Tote Road right of way. Camps consist of hardwall kitchen and wash cars and soft wall accommodation units, all constructed on wood block foundations. Camps will be installed on 75mx120m pads, located adjacent to the tote road with 8 m wide access roads. Installation of mobile camps will reduce worker vehicle traffic on Tote road and improve working conditions. No local water or waste treatment infrastructure required.	Minor leveling and grading within Potential Development Area	2021	Phase 2 Project Certificate Amendment Phase 2 Water Licence Amendment	
2021-28	Milne Port	Impact Area	N7975725 E503540	Installation of temporary concrete foundations for storage of shiploader.	No effect, will be placed on developed quarry footprint within Potential Development Area	2021		
2021-29	Milne Port	Impact Area	N7974815 E503300	Construction of Crusher workshop including foundations, steel structure building enclosures and building services.	No effect, will be placed on developed quarry footprint within Potential Development Area	2021	Phase 2 Project Certificate Amendment Phase 2 Water Licence Amendment	

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	<i>e.g. Milne Inlet/ Tote Road/ Mine Site</i>	<i>e.g. Impact Area /Exploration Area</i>	<i>Approximate UTM (if known) (NAD83 Zone 17W)</i>	<i>Provide a detailed description of the activity.</i>	<i>A description of how the feature(s) (topographical and/or manmade) will be affected</i>	<i>N/A</i>	<i>List any associated permit applications if applicable.</i>	<i>e.g. Issued for construction documentation</i>
2021-30	Mine Site	Impact Area	N7912900 E561300	Construction of Crusher terrace including excavation, rockfill, culverts and lined settlement ponds.	Excavation, levelling and grading within Potential Development Area.	2022	Phase 2 Project Certificate Amendment Phase 2 Water Licence Amendment	
2021-31	Milne Port	Impact Area	N7975750 E503000	Construction of Stockpile 2 including ditches , culverts, berms , rail , drainage trenches. Approximately 1.5 km of berm construction planned for 2021.	Excavation, levelling and grading within Potential Development Area.	2022	Phase 2 Project Certificate Amendment Phase 2 Water Licence Amendment	
2021-32	Milne Port	Impact Area	N7976475 E503600	Construction of Access causeways for Ore dock includes rock fill and road topping. Dredging and disposal of material.	Foreshore development	2021	Phase 2 Project Certificate Amendment Phase 2 Water Licence Amendment Fisheries Act Authorization	
2021-33	Tote Road	Impact Area	(A) Km 32 - N7954509 E521363 (85 m <sup>2</sup> ) (B) Km 35.8 - N7950750 E521959 (200 m <sup>2</sup> ) (C) Km 36 - N7950576 E521927 (35 m <sup>2</sup> ) (D) Km 43 - N7944189 E523113 (200 m <sup>2</sup> ) (E) Km 45.9 - N7941020 E523709 (130 m <sup>2</sup> ) (F) Km 47 - N7940449 E524031 (80 m <sup>2</sup> ) (G) Km 47.8 - N7939861 E524464 (30 m <sup>2</sup> ) (H) Km 50 - N7937850 E525251 (65 m <sup>2</sup> ) (I) Km 51 - N7937101 E525661 (60 m <sup>2</sup> ) (J) Km 51.25 - N7936755 E525891 (80 m <sup>2</sup> ) (K) Km 53 - N7935497 E526585 (200 m <sup>2</sup> ) (L) Km 54 - N7935075 E526769 (190 m <sup>2</sup> ) (N) Km 75 - N7920267 E537408 (210 m <sup>2</sup> ) (P) Km 91 - N7916903 E551191(215 m <sup>2</sup> ) (Q) Km 96 - N7915009 E554732 (75 m <sup>2</sup> )	Widening of Tote Road at narrow locations including culvert extension and berming of the Tote Road to ensure safe traffic.	Minor leveling and grading within Potential Development Area	2021	Phase 2 Project Certificate Amendment Phase 2 Water Licence Amendment	
2021-34	Milne Port	Impact Area	N7974600 E503200 (15,000 m <sup>2</sup> )	Relocation of the OHT laydown at Milne Port to accommodate future development. New laydown will be constructed of 500 mm thick quarried rock with granular surfacing.	No effect, will be placed on developed quarry footprint within Potential Development Area	2021	Phase 2 Project Certificate Amendment Phase 2 Water Licence Amendment	
2021-35	Milne Port	Impact Area	N7975200 E502800	Relocation of Milne Port Heli-pad to accommodate access road construction.	Minor leveling and grading within Potential Development Area	2021		

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	<i>e.g. Milne Inlet/ Tote Road/ Mine Site</i>	<i>e.g. Impact Area /Exploration Area</i>	<i>Approximate UTM (if known) (NAD83 Zone 17W)</i>	<i>Provide a detailed description of the activity.</i>	<i>A description of how the feature(s) (topographical and/or manmade) will be affected</i>	<i>N/A</i>	<i>List any associated permit applications if applicable.</i>	<i>e.g. Issued for construction documentation</i>
2021-36	Northern Transportation Corridor	Impact Area	(A) LD-1 - N7974598 E504031.7 (34,300 m <sup>2</sup> ) (B) LD-5 - N7971792 E505809.5 (11,700 m <sup>2</sup> ) (C) LD-6 - N7971592 E506308.6 (14,500 m <sup>2</sup> ) (D) LD-7 - N7967353 E510801.9 (10,500 m <sup>2</sup> ) (E) LD-8 - N7965208 E514586.3 (82,000 m <sup>2</sup> ) (F) LD-9 - N7961896 E517314.1 (16,300 m <sup>2</sup> ) (G) LD-10 - N7953050 E521698.1 (6,400 m <sup>2</sup> ) (H) LD-11 - N7945107 E522987 (3,900 m <sup>2</sup> ) (I) LD-13 - N7932775 E527204.4 (10,100 m <sup>2</sup> ) (J) LD-14 - N7932595 E527169.2 (9,600 m <sup>2</sup> ) (K) LD-15 - N7928987 E528177.1 (28,800 m <sup>2</sup> ) (L) LD-17 - N7929018 E528353.3 (37,200 m <sup>2</sup> ) (M) LD-19 - N7928223 E528375 (25,000 m <sup>2</sup> ) (N) LD-20 - N7916986 E528571 (35,300 m <sup>2</sup> ) (O) LD-21 - N7921431 E540500.9 (19,800 m <sup>2</sup> ) (P) LD-22 - N7921907 E542504.3 (24,700 m <sup>2</sup> ) (Q) LD-23 - N7921484 E542998.7 (15,500 m <sup>2</sup> ) (R) LD-24 - N7921431 E543185.7 (3,400 m <sup>2</sup> ) (S) LD-25 - N7919695 E547057.5 (17,400 m <sup>2</sup> ) (T) LD-26 - N7914864 E554770.8 (25,000 m <sup>2</sup> ) (U) LD-27 - N7914686 E555311.4 (28,200 m <sup>2</sup> ) (V) LD-28 - N7915289 E556192.5 (17,400 m <sup>2</sup> ) (W) LD-29 - N7914997 E558173.9 (14,600 m <sup>2</sup> ) (X) LD-30 - N7913726 E560009.9 (23,300 m <sup>2</sup> ) (Y) LD-31 - N7913354 E560886.5 (13,900 m <sup>2</sup> ) (Z) LD-32 - N7913258 E560829.4 (17,200 m <sup>2</sup> ) (AA) R3 Expansion - N7972423 E505189 (73,275 m <sup>2</sup> )	Development of twenty-six (26) laydowns adjacent to the Tote Road for material stockpiling and storage. Laydowns will be constructed of 500 mm thick quarried rock with granular surfacing, and free draining.	Leveling and grading within Potential Development Area	2021	Phase 2 Project Certificate Amendment Phase 2 Water Licence Amendment	



Item No.	Property Section	Land Use Area	Approximate Location	Description	Description of Effect on Feature(s)	Anticipated Completion Year	Required Permit or QIA Applications	Other Information
	<i>e.g. Milne Inlet/ Tote Road/ Mine Site</i>	<i>e.g. Impact Area /Exploration Area</i>	<i>Approximate UTM (if known) (NAD83 Zone 17W)</i>	<i>Provide a detailed description of the activity.</i>	<i>A description of how the feature(s) (topographical and/or manmade) will be affected</i>	<i>N/A</i>	<i>List any associated permit applications if applicable.</i>	<i>e.g. Issued for construction documentation</i>
2021-37	Northern Transportation Corridor	Impact Area	(A) PQ2 - N7926119 E527843 (187,738 m <sup>2</sup> ) (B) Q27 - N7923196 E527160 (110,000 m <sup>2</sup> ) (C) Q42 - N7912660 E561672 (70,000 m <sup>2</sup> ) (D) PQ5A - N7938861 E525359 (230,000 m <sup>2</sup> ) (E) PQ9A - N7920451 E527512 (90,000 m <sup>2</sup> ) (F) PQ9B - N7920446 E527652 (30,000 m <sup>2</sup> ) (G) PQ10B - N7917633 E531977 (100,000 m <sup>2</sup> ) (H) PQ13 - N7923675 E542584 (460,000 m <sup>2</sup> ) (I) PQ14B - N7917407 E550988 (110,000 m <sup>2</sup> ) (J) PQ15A - N7915621 E555856 (90,000 m <sup>2</sup> ) (K) PQ15B - N7915580 E555270 (70,000 m <sup>2</sup> ) (L) PQ4B - N7941891 E523628 (130,000 m <sup>2</sup> ) (M) PQ5B - N7937814 E525986 (580,000 m <sup>2</sup> ) (N) PQ6B - N7928993 E528901 (230,000 m <sup>2</sup> ) (O) PQ10A - N7917528 E531565 (130,000 m <sup>2</sup> ) (P) PQ12B - N7921782 E539876 (200,000 m <sup>2</sup> ) (Q) PQ14A - N7917828 E550825 (50,000 m <sup>2</sup> ) (R) PQ2B - N7961972 E517663 (240,000 m <sup>2</sup> ) (S) P2 - N7927792 E528496 (80,000 m <sup>2</sup> )	Development and expansion of quarries, consisting of; nineteen (19) new quarries with 8 m wide access roads, and expansion of the working limits of existing quarry QMR2.	Leveling and grading within Potential Development Area	2021	Phase 2 Project Certificate Amendment Phase 2 Water Licence Amendment	Quarry Management Plans
2021-38	Northern Transportation Corridor	Impact Area	N7928978 E528394	Contractor offices, garages and workshops installed on LD-15.	No effect, will be placed on developed laydown within Potential Development Area	2021		

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	<i>e.g. Milne Inlet/ Tote Road/ Mine Site</i>	<i>e.g. Impact Area /Exploration Area</i>	<i>Approximate UTM (if known) (NAD83 Zone 17W)</i>	<i>Provide a detailed description of the activity.</i>	<i>A description of how the feature(s) (topographical and/or manmade) will be affected</i>	<i>N/A</i>	<i>List any associated permit applications if applicable.</i>	<i>e.g. Issued for construction documentation</i>
2021-39	Northern Transportation Corridor	Impact Area	(A) Access Road # 8 N7969297 E508433 (1,993 m <sup>2</sup> ) (B) Access Road # 10 N7967092 E511899 (1,686 m <sup>2</sup> ) (C) Access Road # 11 N7966368 E513452 (1,871 m <sup>2</sup> ) (D) Access Road # 13 N7964026 E515251 (2,969 m <sup>2</sup> ) (E) Access Road # 14 N7962230 E517078 (1,784 m <sup>2</sup> ) (F) Access Road # 15 N7961140 E518043 (16,883 m <sup>2</sup> ) (G) Access Road # 18 N7955315 E520875 (2,027 m <sup>2</sup> ) (H) Access Road # 19 N7954685 E521307 (1,481 m <sup>2</sup> ) (I) Access Road # 20 N7953657 E521645 (1,750 m <sup>2</sup> ) (J) Access Road # 22 N7952168 E521800 (1,400 m <sup>2</sup> ) (K) Access Road # 23 N7951626 E521937 (2,215 m <sup>2</sup> ) (L) Access Road # 24 N7949482 E521764 (2,241 m <sup>2</sup> ) (M) Access Road # 26 N7947121 E522503 (3,121 m <sup>2</sup> ) (N) Access Road # 27 N7945575 E522751 (2,090 m <sup>2</sup> ) (O) Access Road # 28 N7944802 E523193 (2,052 m <sup>2</sup> ) (P) Access Road # 29 N7943298 E523343 (2,548 m <sup>2</sup> ) (Q) Access Road # 32 N7940436 E524160 (3,054 m <sup>2</sup> ) (R) Access Road # 33 N7939046 E524963 (1,909 m <sup>2</sup> ) (S) Access Road # 34 N7938433 E525354 (12,378 m <sup>2</sup> ) (T) Access Road # 36 N7935442 E526828 (21,106 m <sup>2</sup> ) (U) Access Road # 37 N7934959 E526872 (5,241 m <sup>2</sup> ) (V) Access Road # 38 N7933761 E527063 (2,506 m <sup>2</sup> ) (Q) Access Road # 40 N7932185 E527300 (9,973 m <sup>2</sup> ) (X) Access Road # 41 N7931722 E527210 (3,221 m <sup>2</sup> ) (Y) Access Road # 43 N7930177 E527702 (1,370 m <sup>2</sup> ) (Z) Access Road # 46 N7919035 E536803 (100,444 m <sup>2</sup> ) (AA) Access Road # 48 N7920772 E539715 (30,076 m <sup>2</sup> ) (AB) Access Road # 49 N7921682 E541000 (3,392 m <sup>2</sup> ) (AC) Access Road # 58 N7915200 E553389 (24,462 m <sup>2</sup> ) (AD) Access Road # 62 N7915177 E557651 (893 m <sup>2</sup> ) (AE) Access Road # 64 N7914834 E558433 (13,861 m <sup>2</sup> ) (AF) Access Road # 66 N7914526 E558957 (11,983 m <sup>2</sup> ) (AG) Access Road # 67 N7914340 E559250 (2,477 m <sup>2</sup> ) (AH) Access Road # 68 N7914064 E559644 (13,321 m <sup>2</sup> ) (AI) Access Road # 69 N7913896 E559885 (1,979 m <sup>2</sup> ) (AJ) Access Road # 70 N7913726 E560234 (1,970 m <sup>2</sup> ) (AK) Access Road # 73 N7913338 E560847 (2,551 m <sup>2</sup> )	These access roads have an interface with a waterbody. Construction of access roads to adjacent rail alignment. This activity includes the grading, leveling and compaction of fill material for the construction of access roads that will connect the rail alignment with the existing Tote Road. Local rock quarries shall be utilized for all base and fill materials.	Minor to moderate leveling and grading within Potential Development Area.	2021	Phase 2 Project Certificate Amendment Phase 2 Water Licence Amendment	
2021-40	Milne Port	Impact Area	N7975731 E504637	Construction of service access road circling around the rail alignment and terminating at KM 0.	Leveling and grading within the revised Potential Development Area	2021	Phase 2 Project Certificate Amendment Phase 2 Water Licence Amendment	



Item No.	Property Section	Land Use Area	Approximate Location	Description	Description of Effect on Feature(s)	Anticipated Completion Year	Required Permit or QIA Applications	Other Information
	<i>e.g. Milne Inlet/ Tote Road/ Mine Site</i>	<i>e.g. Impact Area /Exploration Area</i>	<i>Approximate UTM (if known) (NAD83 Zone 17W)</i>	<i>Provide a detailed description of the activity.</i>	<i>A description of how the feature(s) (topographical and/or manmade) will be affected</i>	<i>N/A</i>	<i>List any associated permit applications if applicable.</i>	<i>e.g. Issued for construction documentation</i>
2021-41	Milne Port	Impact Area	(A)N7974894 E503434 (6,000 m <sup>2</sup> ) (B)N7974963 E503800 (1,000 m <sup>2</sup> )	Foundation excavation for future material handling infrastructure. Car dumper and reclaim tunnel basement with precast concrete footings (2,235 m <sup>2</sup> ) and a new disturbed area (15,300 m <sup>2</sup> ), and Conical Stockpile tunnel with precast concrete footings (1,040 m <sup>2</sup> ) on existing disturbed area. Including piling, foundations, Mechanical and Electrical works.	Excavation, leveling and grading within the Potential Development Area.	2021	Phase 2 Project Certificate Amendment Phase 2 Water Licence Amendment	
2021-42	Northern Transportation Corridor	Impact Area	(A) Km 1+992 - N7974232 E504070 (B) Km 9+460 - N7968767 E508869 (C) Km 12+420 - N7967205 E511246 (D) Km 23+286 - N7959869 E518477 (E) Km 55+343 - N7930406 E527623 (F) Km 86+941 - N7921378 E543209 (G) Km 91+750 - N7919838 E546889 (H) Km 95+957 - N7917490 E550623	Realignment of the Tote Road for a safe level crossing point over future rail superstructure.	Leveling and grading within the revised Potential Development Area	2021	Phase 2 Project Certificate Amendment Phase 2 Water Licence Amendment	
2021-43	Northern Transportation Corridor	Impact Area	(A) Km 13 - N7967458 E512157 (32,628 m <sup>2</sup> ) (B) Km 52 - N7933575 E527399 (19,619 m <sup>2</sup> ) (C) Km 59.3 - N7927590 E528440 (27,646 m <sup>2</sup> ) (D) Km 75.7 - N7921938 E540698 (10,657 m <sup>2</sup> )	Installation of pre-fabricated explosives magazine to store packaged explosives, detonators and charges.	Leveling and grading within the revised Potential Development Area	2021	Phase 2 Project Certificate Amendment NRCan Factory Licence?	

### 3.1 INFRASTRUCTURE LAYOUT AT END OF 2021

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

## 4 MINING AND EXPLORATION ACTIVITIES

### 4.1 EXPLORATION ACTIVITIES AND DRILLING PLANS

The scope of Baffinland's Type 'B' Licence (2BE-MRY1421) and Commercial Lease with QIA allows for Baffinland to continue/undertake the exploration activities and drilling programs on its mineral leases in the Qikiqtani Region of Nunavut. This includes the exploration land use areas as defined in Section 2.2 of Commercial Lease. The types of exploration activities planned for 2021 are included within the scope of the Type 'B' Water Licence, with the exception the Ege Bay exploration program which holds a separate Type 'B' Water Licence (2BE-EQE1926) for the operation of the exploration camp and activities.

At this time when the Work Plan is required to be submitted, the exploration and drilling programs for 2021 have not yet been finalized. However, as a minimum, activities will include:

- Drilling;
- Mapping;
- Sampling; and
- Geophysical and geochemical surveys.

Operation of the Steensby Inlet Camp and Mid Rail Camp are not at this time anticipated to be required during 2021. A new exploration camp at the Ege Bay location is being evaluated, and Baffinland has engaged QIA in a new land lease for this camp.

It is anticipated that exploration activities will continue in 2021 with a drilling program on Deposits 1, 2, and 3. Once proposed drilling locations are finalized, this information will be provided to QIA, NWB, CIRNAC, and others.

### 4.2 AMOUNT AND TYPE OF ORE AND WASTE TO BE MINED

An estimate of the breakdown of ore vs. waste mined from Deposit No. 1 by month during 2021 is provided in Table 4.1 below. Note that the volume of ore to be mined is contingent on the approval of the Phase 2 Project, and is subject to change based on the outcome of the Project Certificate amendment.

**Table 4.1: Mine Forecast 2021**

Month	Ore Mined (wmt)	Waste Mined (wmt)	Total Mined (wmt)
January	800,000	400,000	1,200,000
February	743,643	600,000	1,343,643
March	714,339	685,661	1,400,000
April	731,895	649,062	1,380,957
May	779,906	610,578	1,390,484
June	726,513	595,505	1,322,018
July	726,468	775,000	1,501,468
August	746,385	750,000	1,496,385
September	630,084	800,449	1,430,533
October	550,931	900,000	1,450,931

Month	Ore Mined (wmt)	Waste Mined (wmt)	Total Mined (wmt)
November	540,173	1,038,234	1,578,408
December	561,506	1,000,000	1,561,506
<b>Total</b>	<b>8,251,843</b>	<b>8,804,490</b>	<b>17,056,333</b>

#### 4.3 AMOUNT AND TYPE OF ORE TO BE SHIPPED EACH MONTH

Ore shipping during 2021 will occur during the open water season from end of July to approximately mid-October. The expected total shipping quantities for 2021 are shown in Table 4.2 below. Note that the forecasted volume of ore to be shipped outlined in the below table is contingent on the approval of the Phase 2 Project, and is subject to change based on the outcome of the Project Certificate amendment process.

**Table 4.2: Ore Shipping Forecast 2021**

Month	Lump Ore Shipped (wmt)		Fines Shipped (wmt)		Total Shipped (wmt)	
	Milne Inlet	Steensby Inlet	Milne Inlet	Steensby Inlet	Milne Inlet	Steensby Inlet
January	-	-	-	-	-	-
February	-	-	-	-	-	-
March	-	-	-	-	-	-
April	-	-	-	-	-	-
May	-	-	-	-	-	-
June	-	-	-	-	-	-
July	146,300	-	658,350	-	804,650	-
August	731,500	-	1,389,850	-	2,121,350	-
September	365,750	-	1,682,450	-	2,048,200	-
October	73,150	-	950,950	-	1,024,100	-
November	-	-	-	-	-	-
December	-	-	-	-	-	-
<b>Total</b>	<b>1,316,700</b>	<b>-</b>	<b>4,681,600</b>	<b>-</b>	<b>5,998,300</b>	<b>-</b>

#### 4.4 SPECIFIED SUBSTANCES TO BE QUARRIED AND EXPEDITED USES

A summary of the expected quantities of quarried and borrow materials to be extracted during 2021 are provided in Table 4.3, below. The expected quarterly quantities of each specified substance per quarry site and borrow location is provided also in Table 4.3, below. Note that quarry volumes are subject to change based on timeline for additional Quarry Management Plan submission and approval.

Table 4.3: 2021 Quarry and Borrow Pit Quantities

Quarry Summary	Km Location	Permitted	Q1	Q2	Q3	Q4	Total	Estimated Breakdown Of Specified Substances
UNITS			m <sup>3</sup>	m <sup>3</sup>	m <sup>3</sup>	m <sup>3</sup>	m <sup>3</sup>	
Q1	1	Permitted		487,000	239,000	20,000	<b>746,000</b>	Rock
Q5	4	Proposed			350,000	350,000	<b>700,000</b>	Rock
PQ2B	22	Proposed			77,890		<b>77,890</b>	Rock
PQ2A	28.9	Proposed		36,000	121,000	121,000	<b>278,000</b>	Rock
PQ4A	41.6	Proposed		20,000	105,000	105,000	<b>230,000</b>	Rock
PQ4B	42.5	Proposed			90,000	90,000	<b>180,000</b>	Rock
PQ5A	45.7	Proposed			120,000	120,000	<b>240,000</b>	Rock
PQ5B	46.8	Proposed			143,000	143,000	<b>286,000</b>	Rock
PQ6A	56.2	Proposed		39,000	189,000	189,000	<b>417,000</b>	Rock
PQ12a	84.5	Proposed		21,000	121,000	121,000	<b>263,000</b>	Rock
Q7	7	Permitted					<b>0</b>	Rock
Q11	21	Permitted					<b>0</b>	Rock
Q19	93.5	Permitted					<b>0</b>	Rock
QMR2	102	Permitted	6,300	6,300	6,300	6,300	<b>25,200</b>	Rock
Km 2	2	Permitted					<b>0</b>	Granular
Km 97	97	Permitted	25,000	25,000	25,000	25,000	<b>100,000</b>	Granular
<b>Total</b>							<b>3,543,090</b>	

**Notes:**

1. The quantities from each source are approximate values and may vary based on minor changes to the schedule and scope, however, the aggregate volume to be extracted is expected to remain constant.
2. The final schedule for the issuance of Quarry and Borrow Source Management Plans for proposed new quarry and borrow areas is not finalized at the time the Work Plan was prepared.
3. It is noted D1Q1 and D1Q2 will also be used as a source of aggregate to support Mine Haul Road maintenance but is not considered a formal quarry as it is located in the Mining Lease and is anticipated to be within the LOM pit extent.

## 5 ANNUAL QUANTITIES OF SOLID WASTE

### 5.1 SOLID WASTE DISPOSAL

The expected annual quantity of solid wastes to be deposited during 2021 is established from survey volumes measured in 2015 through 2020, as well as an analysis of proposed activities. Estimated quantities of solid waste to be deposited in approved waste storage areas are shown in the Table 5.1 below.

**Table 5.1: Annual Volume of Solid Waste to be Deposited in Waste Storage Areas in 2021**

Property Section	Waste Storage Area	Volume of Solid Waste to be disposed of (m <sup>3</sup> )
<i>e.g. Milne Port/Tote Road/Mine Site</i>	-	
Mine Site	Landfill	12,000
Total		12,000

## 6 EXPECTED USES OF WATER

### 6.1 WATER USE

The Type 'A' Water Licence 2AM-MRY1325 Amendment No. 1 permits the following maximum water use for domestic and industrial purposes during construction phase of the Project, as shown in Table 6.1 below. These volumes are subject to change, consistent with the volumes provided in the application for the Type 'A' Water Licence Amendment for Phase 2, following the approval of the amendment to the Water Licence. As per Clause 22 of the QIA-Baffinland Water Compensation Agreement, Baffinland will pay a Consumptive Payment for Water Use, in connection with the Project for the maximum water volume permitted to be used or withdrawn annually as defined in the water licences issued to Baffinland by NWB.

**Table 6.1: Approved Water Use for Domestic and Industrial Purposes during Construction Phase**

Property Section	Water Source Name	Water Source Location	Annual Volume to be used (m <sup>3</sup> )
Milne Port (Milne Inlet)	Phillips Creek (Summer)	71° 52' 53.3" N 80° 56' 04.0" W	134,130 m <sup>3</sup> /year
	Km 32 (Winter)	71° 30' 39.5" N 80° 14' 54.4" W	
Mine Site (Mary River)	Camp Lake	71° 19' 38.6" N 79° 22' 57" W	240,000 m <sup>3</sup> /year
Steensby Port (Steensby Inlet)	ST 347 km Lake	N/A	0 m <sup>3</sup> /year
	3 km Lake	N/A	
<b>TOTAL</b>			<b>371,130 m<sup>3</sup>/year</b>

Source: Amendment No.1 Type 'A' Water Licence (2AM-MRY1325)

The Amendment No.1 of the Type 'A' Water Licence authorizes Baffinland to withdraw up to 1,500 m<sup>3</sup>/day to a maximum of 547,500 m<sup>3</sup> annually of water specifically for use in dust suppression or control along the Tote Road of the Project. Water for dust suppression or control shall be obtained from the sources in accordance with thresholds established and shown in Table 6-2 below. These volumes and locations are subject to change, consistent with the volumes and locations provided in the application for the Type 'A' Water Licence Amendment for Phase 2, following the approval of the amendment.

**Table 6.2: Water Use for Dust Suppression**

Property Section	Water Source Name	Water Source Location		Daily Water Take Proposed for Dust Suppression(m <sup>3</sup> /day)	Restrictions
		Latitude	Longitude		
Milne Port	Phillip's Creek	71° 52' 53.3" N	80° 56' 04.0" W	212	None
Milne Port	Km 32 Lake	71° 30' 39.5" N	80° 14' 54.4" W	364	
Tote Road	CV128	71° 47' 35.1" N	80° 36' 41.7" W	579.5	None
Tote Road	CV099	71° 38' 21.7" N	80° 22' 46.6" W	110	June-July only during low flow (<mean flow) years

Property Section	Water Source Name	Water Source Location		Daily Water Take Proposed for Dust Suppression(m <sup>3</sup> /day)	Restrictions
		Latitude	Longitude		
Tote Road	CV087	71° 34' 10.0" N	80° 19' 41.6" W	90	June-July only during low flow (<mean flow) years
Tote Road	CV078	71° 31' 51.9" N	80° 16' 07.8" W	75	June-July only during low flow (<mean flow) years
Tote Road	Katiktok Lake	71° 23' 45.7" N	79° 48' 22.0" W	318	None
Tote Road	BG50	71° 26' 29.6" N	80° 10' 27.1" W	150	None
Tote Road	BG32	71° 23' 35.1" N	79° 51' 24.9" W	130	June-July only during low flow (<mean flow) years
Tote Road	CV217	71° 23' 51.4" N	79° 48' 50.9" W	130	None
Tote Road	Muriel Lake	71° 22' 18.5" N	79° 39' 24.3" W	212	None
Tote Road	David Lake	71° 19' 38.6" N	79° 22' 57.0" W	132	June-July only during low flow (<mean flow) years
Tote Road	BG17	71° 21' 19.8" N	79° 34' 44.0" W	75	June-July only during low flow (<mean flow) years
Tote Road	CV223 (Tom River)	71° 19' 40.5" N	79° 26' 15.8" W	135	None
Mine Site	Camp Lake	71° 19' 38.6" N	79° 22' 57" W	86	None

Source: Amendment No.1 Type 'A' Water Licence (2AM-MRY1325).



## 7 MATERIALS TO BE SHIPPED OFF THE PROPERTY

### 7.1 MATERIALS SHIPPED OUT

As required by the Lease, the expected quantities of materials planned to be shipped off site in 2021 are detailed in Table 7.1 below.

**Table 7.1: Materials to be Shipped Out in 2021**

Property Section	Equipment/ Material Item	Owner	Estimated Annual Amount of Equipment and Material (tonne)	Estimated Annual Revenue Tonnes
e.g. Milne Port/Mine Site	Description of the equipment or the material*	e.g. BIM/Third Party	Estimated total annual amount of equipment and material (tonne)	Estimated amount of revenue tonnes assigned to the shipping of equipment or material
Milne Port	Batteries	BIMC	94	94
Milne Port	Hydro Carbon Contaminated Material	BIMC	217	217
Milne Port	Waste Oil	BIMC	1304	1304
Milne Port	Waste Fuels	BIMC	97	97
Milne Port	Waste Grease	BIMC	34	34
Milne Port	Waste Hazardous Liquids	BIMC	422	422
Milne Port	Waste Aerosol Canisters	BIMC	2.7	2.7
Milne Port	Contaminated Containers/Solids	BIMC	336	336
Milne Port	Misc Hazardous Materials	BIMC	264	264

**Note:**

For hazardous waste 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).

## 8 MATERIALS TO BE SHIPPED OFF THE PROPERTY

### 8.1 DELIVERY OF FUEL

At least two bulk fuel deliveries will occur during the 2021 sealift. At the onset of the shipping season, arctic diesel and Jet A fuel will be delivered to fill the tanks at the Milne Port tank farm. The anticipated fuel delivery provided in the below Table 8.1.

**Table 8.1: Anticipated Fuel Delivery During 2021**

	Diesel	Jet A
Total Bulk Fuel Delivery	63 ML	3 ML

### 8.2 MATERIALS SHIPPED TO THE PROPERTY

Materials, equipment, supplies, buildings and machinery to support construction and operations through 2021 will arrive on the 2021 sea lift include the following items provided below in Table 8-2.

**Table 8.2: Mobile and Mechanical Equipment to be Received During 2021**

Property Section	Material Item	Owner	Quantity	Revenue Tonne
<i>e.g. Milne Port or Mine Site</i>	<i>Description of the material*</i>		<i>Quantity of the material to be shipped to and stored on the Property (including unit of measurement)</i>	<i>Estimated amount of revenue tonnes (mt) assigned to the shipping of material</i>
Mine Site	1500 kW Alternators	Baffinland	2	9
Mine Site	908 Cat Loader	Baffinland	2	190
Mine Site	F-350	Baffinland	7	170.8
Mine Site	Skid steers	Baffinland	2	8
Milne Port	HPS 185 Spray Unit for Stockpile Dust suppression	Baffinland	1	2
Milne Port	Cat Excavator 374	Baffinland	1	48
Milne Port	Cat Excavator 349	Baffinland	1	42
Milne Port	Cat Excavator 320 Track	Baffinland	1	31
Milne Port	Cat D10 Dozer	Baffinland	2	53
Milne Port	Water Jet to cut Ceramics	Baffinland	1	1
Milne Port	4x4 15 passenger crew van	Baffinland	1	14
Mine Site	4x4 fire truck	Baffinland	1	19
Mine Site	F250 Light Vehicle	Baffinland	2	18
Milne Port	Dual engine 35ft marine response boat	Baffinland	1	11
Mine Site	Flat bed boom truck	Baffinland	1	14

Property Section	Material Item	Owner	Quantity	Revenue Tonne
<i>e.g. Milne Port or Mine Site</i>	<i>Description of the material*</i>		<i>Quantity of the material to be shipped to and stored on the Property (including unit of measurement)</i>	<i>Estimated amount of revenue tonnes (mt) assigned to the shipping of material</i>
Mine Site	Gensets/compressors for field maintenance applications	Baffinland	1	4
Mine Site	Pressure washing truck	Baffinland	1	18
Mine Site	MR Welding shop crane	Baffinland	1	78
Milne Port	Port Welding shop crane	Baffinland	1	78
Milne Port	Spyder cranes URW706	Baffinland	1	7
Mine Site	Spyder cranes URW295	Baffinland	1	7
Mine Site	Service Truck to match 6060	Baffinland	1	49
Mine Site	257D skid steer - HD Shop	Baffinland	1	4
Mine Site	Landcruiser service truck with tooling for Mine Support	Baffinland	2	53
Mine Site	KPM CCM200E Mixer plus accessories	Baffinland	1	2
Mine Site	740 water truck	Baffinland	1	41
Mine Site	14M Grader	Baffinland	1	105
Mine Site	Fuel Tanker	Baffinland	1	32
Mine Site	Jet A Truck	Baffinland	1	32
Mine Site	Cube truck	Baffinland	2	18
Mine Site	48p School Bus	Baffinland	2	110
Mine Site	Steam truck	Baffinland	1	22
Mine Site	Service/Fuel Truck (F550)	Baffinland	4	53
Mine Site	Vac Truck	Baffinland	2	42
Mine Site	6060 Shovel	Baffinland	1	140
Mine Site	D10 Dozer	Baffinland	2	106
Mine Site	374 Excavator	Baffinland	1	48
Mine Site	793F Haul Trucks	Baffinland	3	320
Mine Site	Spare 793 box	Baffinland	1	45
Mine Site	390 Excavator	Baffinland	1	56
Mine Site	D65 Epiroc Drill	Baffinland	1	23
Mine Site	777 Spreader Box (sanding roads)	Baffinland	1	6
Mine Site	777 Water Body (dust control roads)	Baffinland	1	14
Mine Site	Light Vehicles	Baffinland	8	72
Mine Site	AWD Hot Seating Buses	Baffinland	2	28
Mine Site	Drill Water System and Heated Water Truck Body	Baffinland	1	17

Property Section	Material Item	Owner	Quantity	Revenue Tonne
<i>e.g. Milne Port or Mine Site</i>	<i>Description of the material*</i>		<i>Quantity of the material to be shipped to and stored on the Property (including unit of measurement)</i>	<i>Estimated amount of revenue tonnes (mt) assigned to the shipping of material</i>
Mine Site	Zinex A5 Diamond Drills	Cyr Drilling International	5	170
Mine Site	Bean model 435 Water Pumps	Cyr Drilling International	10	10
Mine Site	Case TV-380 Skidsteer	Cyr Drilling International	1	5
Mine Site	Ford F-350 Pickup trucks	Cyr Drilling International	2	24

Additional supplies to support construction and operations through 2021 and 2022 will arrive on the 2021 sea lift include:

- Delivery of ammonium nitrate (AN), up to 9,900,000 kg to be stored on-site in 2021;
- Delivery of maintenance parts; and
- Delivery of consumables (lubricants, grease, detergents, boosters, EZ Dets, dry goods, food, household supplies, etc.).

No pre-packaged explosives are currently planned to be brought to site in 2021.

## 9 UPDATES TO ITEMS CONTAINED IN THE SCHEDULES OF THE LEASE

### 9.1 UPDATES TO THE EMERGENCY RESPONSE PLAN

In accordance with Clause 5.1 item H of the existing Commercial Lease Q13C031, the applicable Emergency Response Plan BAF-PH1-830-P16-0007 and Spill Contingency Plan BAF-PH1-830-P16-0036 have been provided in Appendices of this Work Plan. Please refer to Section 11 for location and details.

### 9.2 UPDATES TO ENVIRONMENTAL MANAGEMENT AND MONITORING PLANS

All updated Environmental Management and Monitoring Plans were submitted in April 2020 with the Annual Reports. Note that draft Management Plans submitted through the Project Certificate amendment and Water Licence amendment process for Phase 2 have not been included herein as they remain in draft form and will only be included as final following approval of Phase 2. An extensive list of the current plans for the project is presented in Table 9.1 below.

**Table 9.1: Environmental Monitoring and Management Plans**

Document Number	Plan Name	Version
BAF-PH1-830-P16-0002	Air Quality and Noise Abatement Management Plan	March 2020
BAF-PH1-830-P16-0006	Cultural Heritage Resource Protection Plan	March 2016
SD-STD-002	Hazard Identification and Risk Assessment Procedure	December 2015
N/A	EHS Framework Standard	March 2014
H337697-0000-01-126-0002	Health and Safety Management Plan	January 2012
SD-SEMP-003	Human Resources Management Plan	December 2010
BAF-PH1-830-P16-0027	Terrestrial Environmental Management and Monitoring Plan	March 2016
BAF-PH1-830-P16-0025	Stakeholder Engagement Plan	March 2016
BAF-PH1-830-P16-0023	Roads Management Plan	February 2020
BAF-PH1-830-P16-0024	Shipping and Marine Wildlife Management Plan	March 2016
N/A	Blasting Management Plan	April 2013
BAF-PH1-830-P16-0004	Borrow Pits and Quarry Management Plan	March 2014
N/A	Borrow Source Management Plan <sup>1</sup>	October 2013
BAF-PH1-830-P16-0030	Borrow Source Management Plan - Kilometer 2	October 2014
BAF-PH1-830-P16-0032	Borrow Source Management Plan - Kilometer 97	October 2014
BAF-PH1-830-P16-0035	Borrow Source Management Plan - Kilometer 104	March 2014
H349000-4200-07-245-0001	Quarry Management Plan D1Q1	October 2013
H349000-4200-07-245-0002	Quarry Management Plan D1Q2	October 2013
BAF-PH1-830-P16-0017	Quarry Management Plan Q1	July 2017
H349000-3000-07-245-0002	Quarry Management Plan Q11	October 2013
H349000-3000-07-245-0003	Quarry Management Plan Q19	October 2013
H349000-3000-07-245-0001	Quarry Management Plan Q7	October 2013

Document Number	Plan Name	Version
BAF-PH1-830-P16-0040	Quarry Management Plan QMR2	July 2017
BAF-PH1-840-P16-0002	Emergency Response Plan	September 2018
BAF-PH1-830-P16-0036	Spill Contingency Plan	September 2018
BAF-PH1-830-P16-0008	Environnemental Protection Plan	August 2016
BAF-PH1-830-P16-0010	Fresh Water Supply, Sewage and Wastewater Management Plan	March 2020
BAF-PH1-830-P16-0011	Hazardous Materials and Hazardous Waste Management Plan	March 2017
BAF-PH1-830-P16-0012	Interim Closure and Reclamation Plan	October 2018
BAF-PH1-830-P16-0026	Surface Water and Aquatic Ecosystems Management Plan	March 2020
BAF-PHI-830-P16-0001	Surface Water Sampling Program - Quality Assurance and Quality Control Plan	March 2020
BAF-PH1-830-P16-0039	Aquatic Effects Monitoring Plan	October 2015
BAF-PH1-830-P16-0028	Waste Management Plan	March 2020
BAF-PH1-830-P16-0029	Phase 1 Waste Rock Management Plan	June 2020
BAF-PH1-830-P16-0031	Life of Mine Waste Rock Management Plan	April 2014
N/A	Explosives Management Plan <sup>2</sup>	August 2013
BAF-PH1-830-P16-0013	Milne Port Oil Pollution Emergency Plan (OPEP)	May 2019
BAF-PH1-830-P16-0041	Polar Bear Safety Plan	March 2016
BAF-PH1-830-P16-0037	Exploration Spill Contingency Plan	June 2014
BAF-PH1-830-P16-0038	Exploration Closure and Reclamation Plan	July 2014
BAF-PH1-830-P16-0042	Spill at Sea Response Plan	August 2015

**Notes:**

1 Discontinued and incorporated into the March 2014 Borrow Pits and Quarry Management Plan.

2 The Explosives Management Plan is a contractor document.

### 9.3 PROPOSED UPDATES TO THE INTERIM CLOSURE AND RECLAMATION PLAN

The Interim Closure and Reclamation Plan (ICRP) was updated in 2018 (Revision 5, 30 October 2018) and conditionally approved by QIA, and has been provided as an appendix to this Work Plan. Baffinland has continued to engage QIA on closure planning, including an update to the ICRP to integrate the Phase 2 proposal into closure planning that is currently under review by QIA, but is not included here and is not to be relied upon until approved by QIA and the approval of the Phase 2 amendment. Baffinland notes concerns regarding the generation of acid rock drainage (ARD) and metal leaching (ML) raised by CIRNAC in their review of Revision 5 of the ICRP, however these concerns have been addressed separately through the revised Phase 1 Waste Rock Management Plan issued in June 2020 and approved by the NWB on August 17, 2020. Based on a review, Baffinland does not believe an update to the ICRP to address ARD/ML issues is required at this time based on the work completed to update the Phase 1 Waste Rock Management Plan. However, the ICRP is intended to be an iterative document that will evolve over the

life of the mine. It is recognized that QIA as the land owner will provide valuable input and approval of future versions of the ICRP, including the incorporation of Inuit Qaujimajatuqangit into closure objectives and criteria.

The provision of additional securities for the 2021 Work Plan is allocated as summarized in Table 9.2 below. This security update reconciles and integrates the outcomes of the Arbitration between Baffinland and QIA regarding the 2019 Work Plan and associated estimate. Further detail can be found in Appendix B.

Table 9.2: Mary River Project Total Closure and Reclamation Security Summary<sup>1</sup> – Revised 2021 Work Plan

	A	B	C	D	E	F	G	H
	Authorization	Liability	Global Estimate from 2019 with Arbitration Outcome (\$)	2020 Marginal Estimate Adjusted for Arbitration (\$)	2021 Marginal Estimate Including 2020 Reconciliation (\$)	Total 'Global' Estimated Security for 2021 (\$)	Total Posted as of Oct 2020 (\$)	Marginal Adjustment to be Posted (\$)
						C + D + E		F - G
1	Type A 2AM-MRY1325	IOL <sup>2</sup>	113,371,000	2,429,480	1,141,005	116,941,485	104,687,658	12,253,827
2		Crown	2,014,000	0	314,934	2,328,934	1,591,000	737,934
3		Water	2,128,000	-12,158	13,080	2,128,923	-	-
4		Land	113,257,000	2,441,637	1,442,859	117,141,496	-	-
5	Subtotal Type A		115,385,000	2,429,480	1,455,939	119,270,419	106,278,658	12,991,761
6	Type B Exploration2BE-MRY1421 <sup>3</sup>	IOL	165,000	-	-	165,000	-	165,000
7		Crown	1,082,000	-	-	1,082,000	1,250,000	-168,000
8		Water	18,000	-	-	18,000	-	-
9		Land	1,229,000	-	-	1,229,000	-	-
10	Subtotal Type B Exploration		1,247,000	-	-	1,247,000	1,250,000	-3,000
11	DFO Security Associated with Ore Dock	IOL <sup>2</sup>	-	-	-	-	-	-
12		Crown	563,000	-	-	563,000	563,000	-
13		Water	563,000	-	-	563,000	563,000	-
14		Land	-	-	-	-	-	-
15	DFO Security Associated with Freight Dock	IOL <sup>2</sup>	-	-	-	-	-	-
16		Crown	4,250,000	-	-	4,250,000	4,250,000	-
17		Water	4,250,000	-	-	4,250,000	4,250,000	-
18		Land	-	-	-	-	-	-
19	Subtotal DFO		4,813,000	-	-	4,813,000	4,813,000	-
20	AANDC Land Lease 47H/16-1-2 <sup>4</sup>	IOL <sup>2</sup>	-	-	-	-	-	-
21		Crown	4,975,000	-	-	4,975,000	4,975,000	-
22		Water	-	-	-	-	-	-
23		Land	4,975,000	-	-	4,975,000	4,975,000	-
24	Subtotal AANDC Land Lease		4,975,000	-	-	4,975,000	4,975,000	-
25	GRAND TOTAL		122,170,000	2,429,480	1,455,939	130,305,419	117,316,658	12,991,761

**Notes:**
<sup>1</sup> Totals rounded to nearest '000 in CAD.

<sup>2</sup> Security relating to IOL held by Qikiqtani Inuit Association (QIA) under Commercial Lease No. Q13C301.

<sup>3</sup> As per Mary River Exploration Project Closure and Reclamation Plan (BAF-PH1-830-P16-0038, Rev 1).

<sup>4</sup> As per Closure and Reclamation Strategy and Financial Security Estimate for Nunavut Lease #47H/16-1-2 (H349001-2000-07-126-0001, Rev.0).



## **10 REQUESTED AMENDMENTS TO THE PROVISIONS OF THE LEASE**

Tote Road Adjustment Notices (TRANS) and Options Exercise Notices (OENs) will be submitted as per Table 3.1, throughout 2021. It is noted that per the Commercial Lease, review of OENs and TRANS outside of the Work Plan will require an associated fee for review.

## 11 ADDITIONAL REPORTS, INFORMATION OR DATA

Additional reports, information or data required to support the 2021 Work Plan are summarized in Table 11.1 below.

**Table 11.1: Additional Reports, Information or Data**

<b>Title</b>	<b>Organization</b>	<b>Date</b>	<b>Annex</b>
<i>Identify the title of the additional report, information or data to be included with the Annual Work Plan.</i>	<i>Disclose the name of the organization that produced the addition report, information or data.</i>	<i>Include the publish date or reference year to the additional report, information or data.</i>	<i>Identify the Annex letter/number corresponding to the additional report, information or data.</i>
Work Plan Figures <ul style="list-style-type: none"> <li>• Milne Port</li> <li>• Mine Site</li> <li>• Tote Road</li> </ul>	Baffinland	November 6, 2020	Appendix A
2021 Marginal Closure and Reclamation Financial Security Estimate	Baffinland	November 6, 2020	Appendix B
Interim Closure and Reclamation Plan	Baffinland	BAF-PH1-830-P16-0012	Appendix C
Emergency Response Plan	Baffinland	BAF-PH1-830-P16-0007	Appendix D
Spill Contingency Plan	Baffinland	BAF-PH1-830-P16-0036	Appendix E

## **APPENDIX A**

### **2021 WORK PLAN SITE LAYOUTS**

2021 Work Plan – Milne Port Site Layout

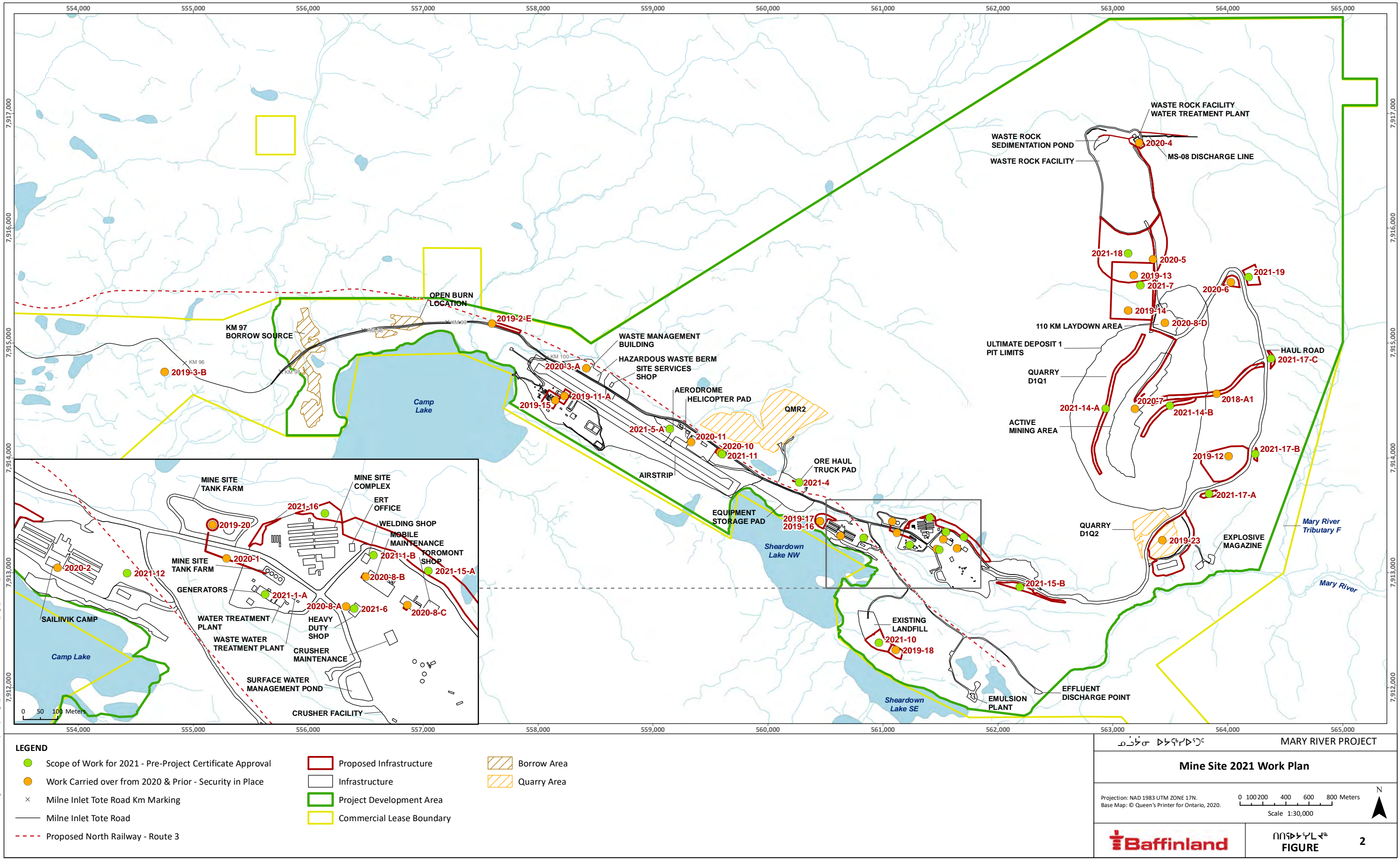
2021 Work Plan – Mine Site Layout

2021 Work Plan – Tote Road

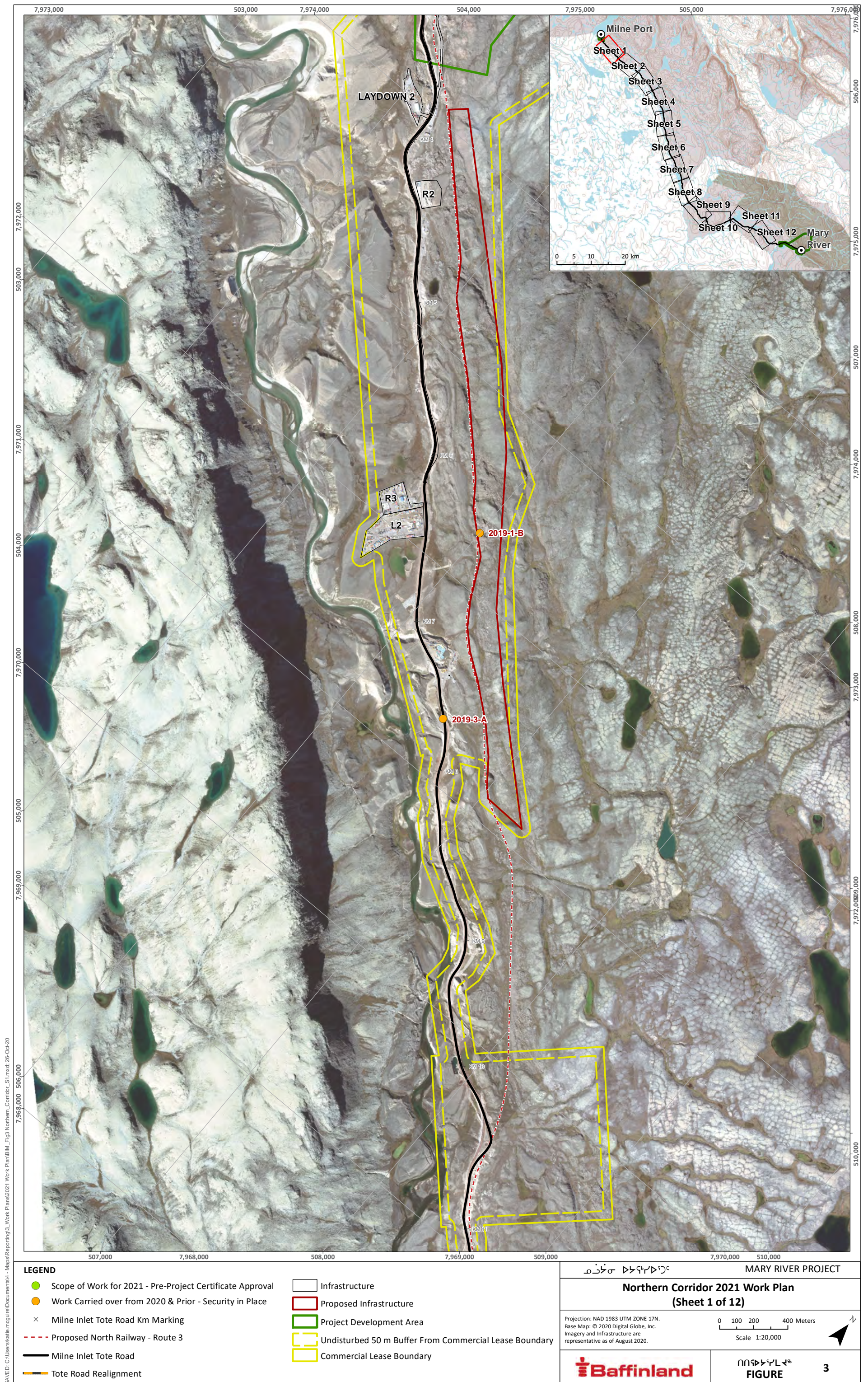




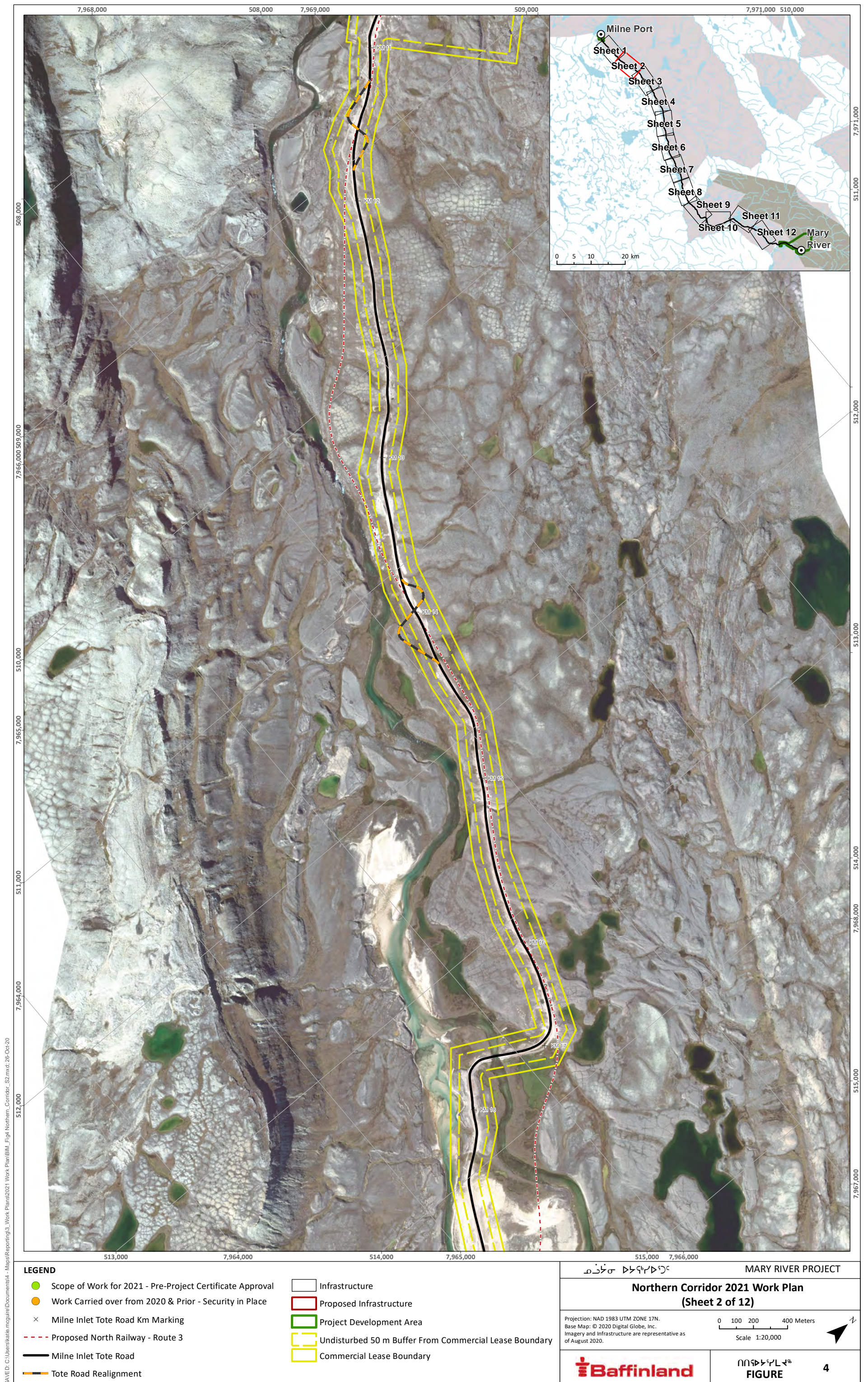
SAVED: C:\Users\katie.mcquiere\Documents\2021 Work Plans\2021 Work Plan\BIM\_Fig2\_Mine Site Work Plan.mxd; 28-Oct-20





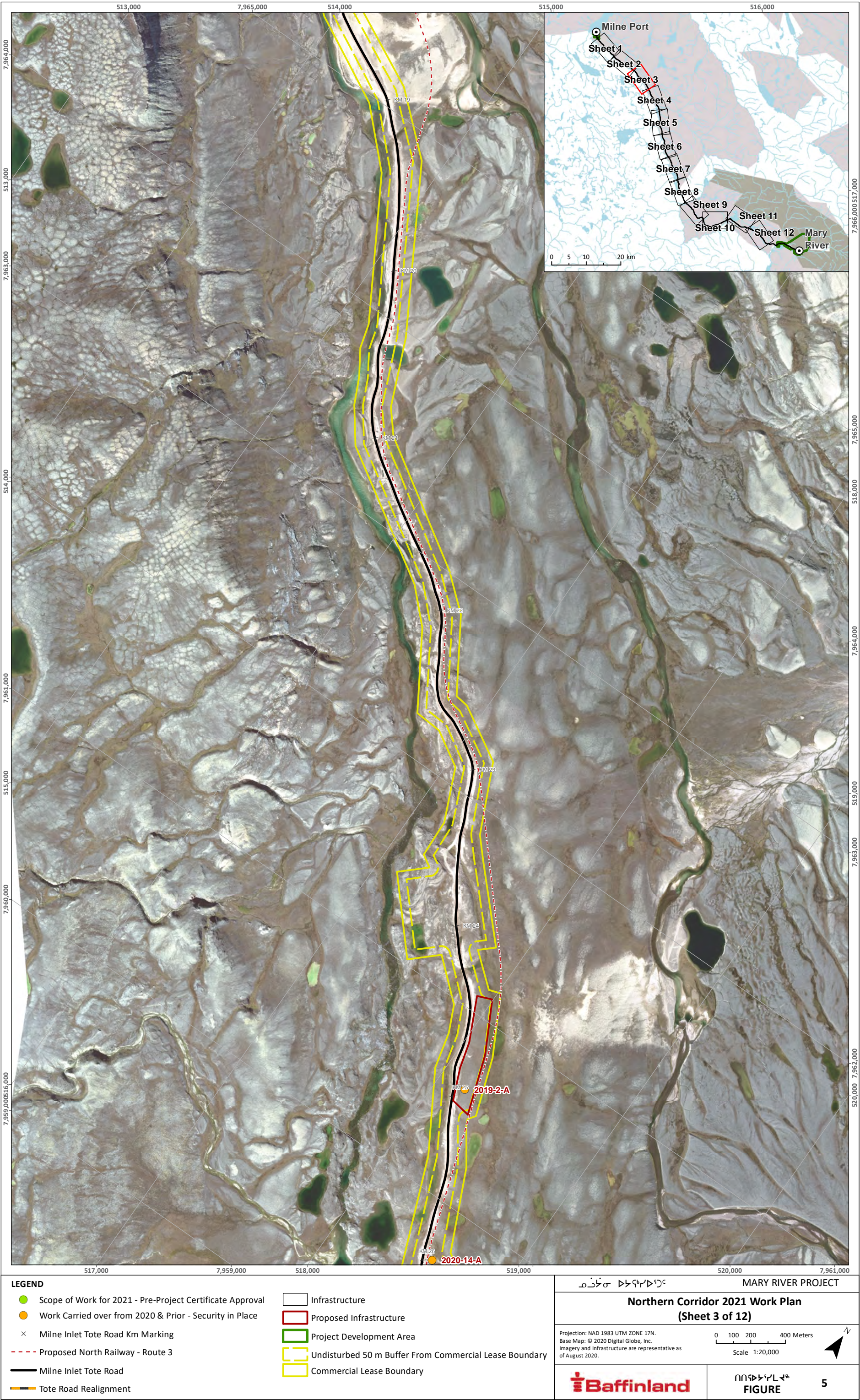




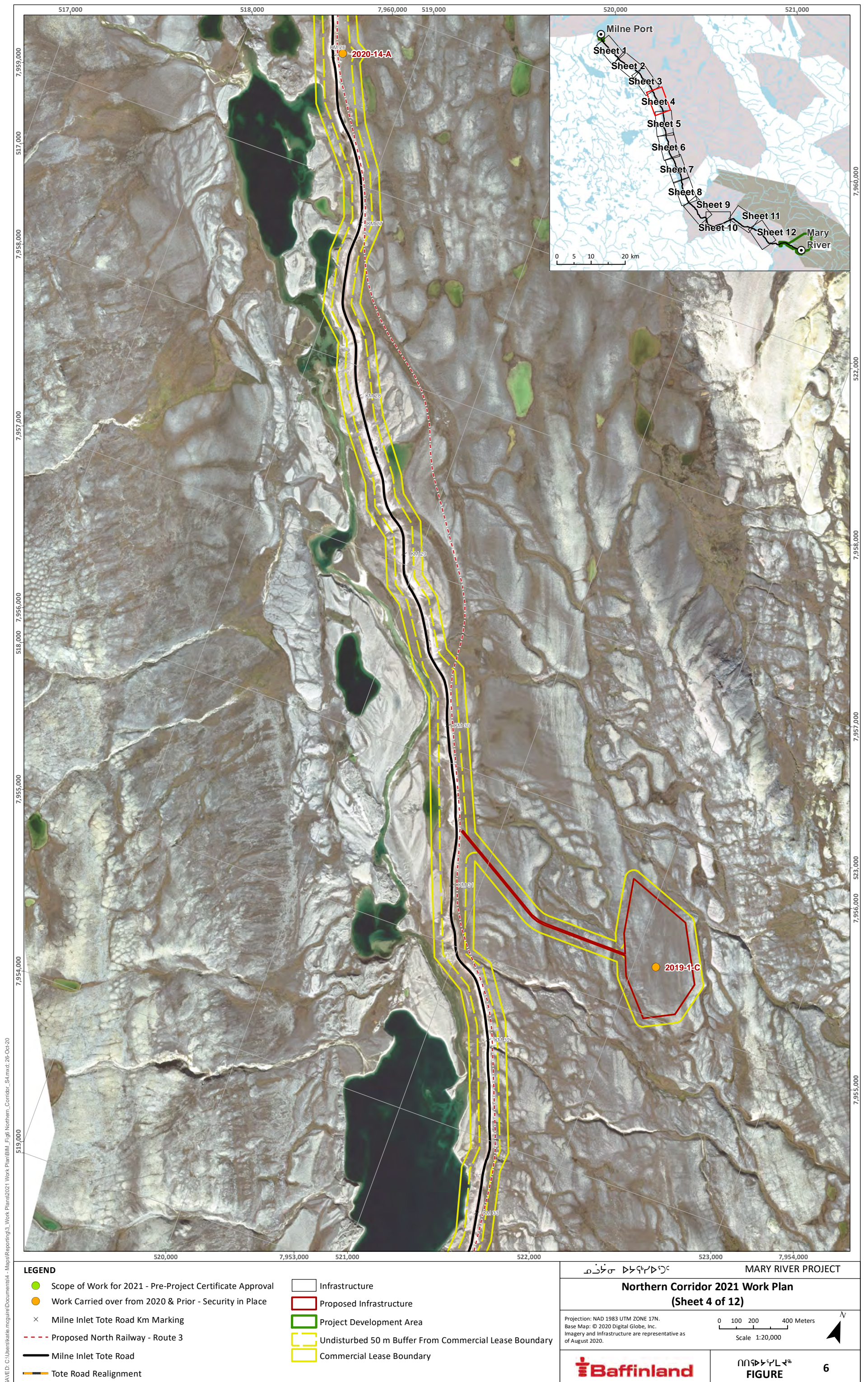




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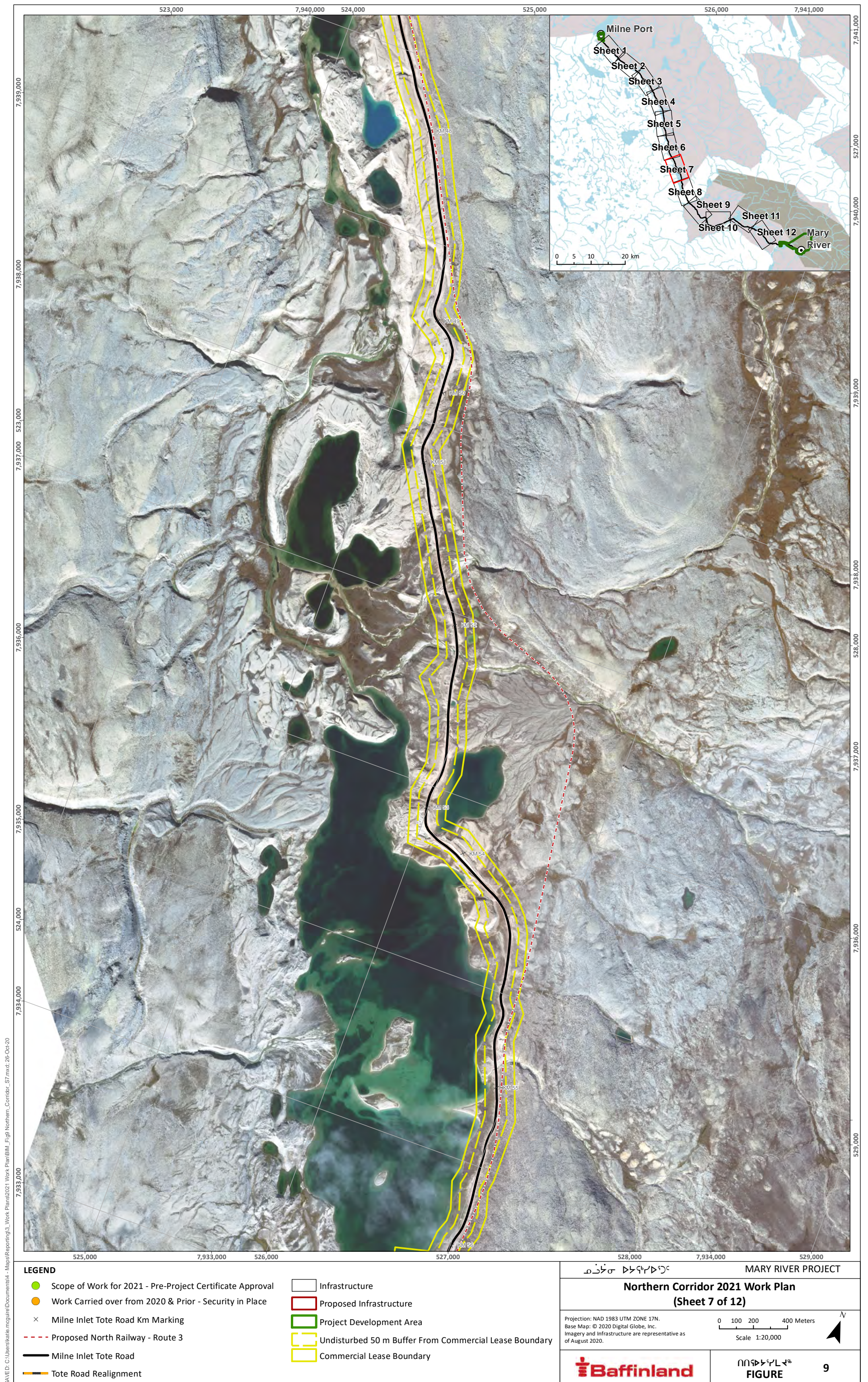




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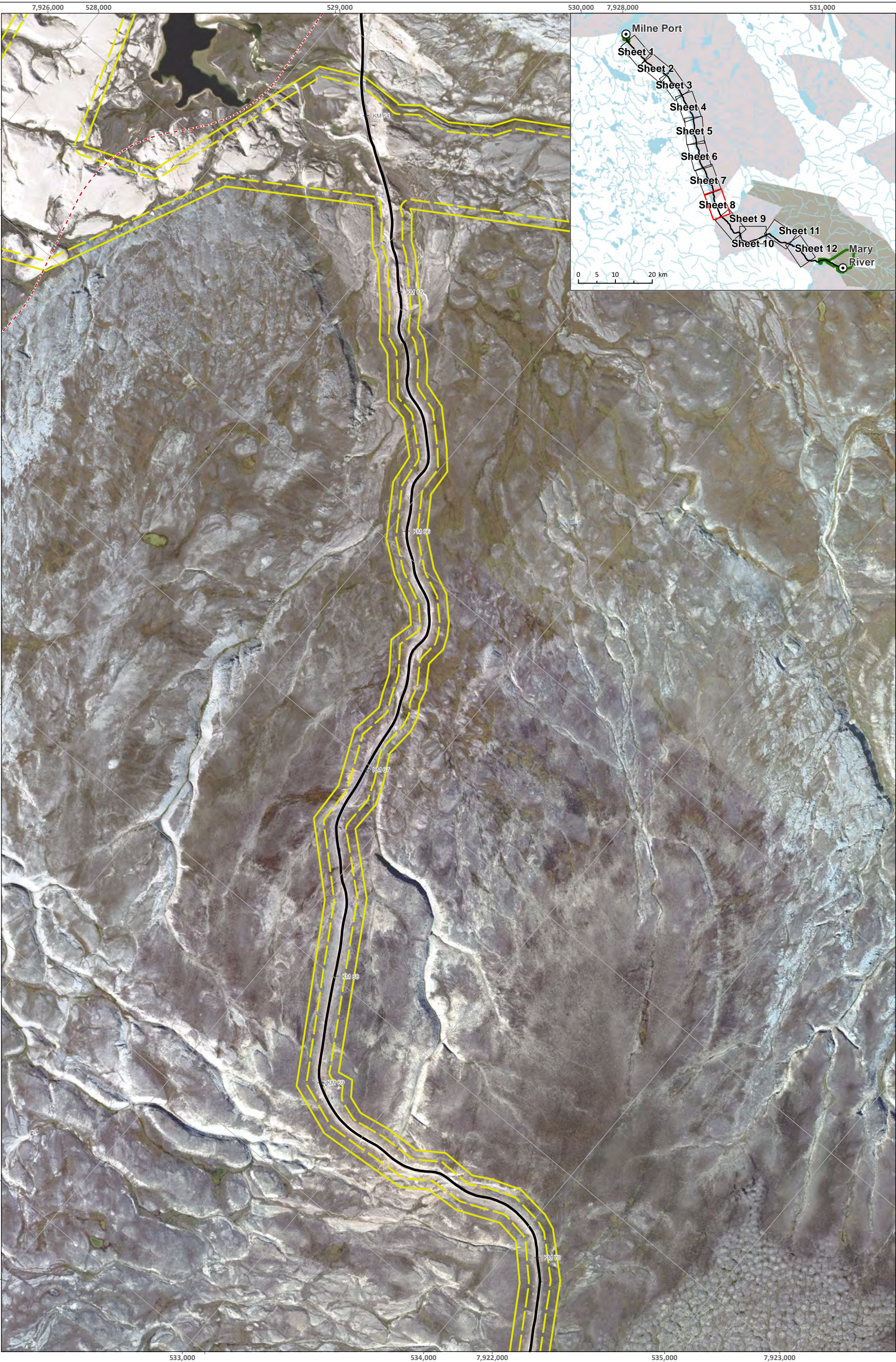


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LEGEND

- Scope of Work for 2021 - Pre-Project Certificate Approval

Work Carried over from 2020 & Prior - Security in Place

×

Milne Inlet Tote Road Km Marking

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Proposed North Railway - Route 3

Milne Inlet Tote Road

Tote Road Realignment
- Infrastructure

Proposed Infrastructure

Project Development Area

Undisturbed 50 m Buffer From Commercial Lease Boundary

Commercial Lease Boundary

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MARY RIVER PROJECT

Northern Corridor 2021 Work Plan  
(Sheet 9 of 12)

Projection: NAD 1983 UTM ZONE 17N.  
Base Map: © 2020 Digital Globe, Inc.  
Imagery and Infrastructure are representative as  
of August 2020.

0100200400 Meters

Scale 1:20,000

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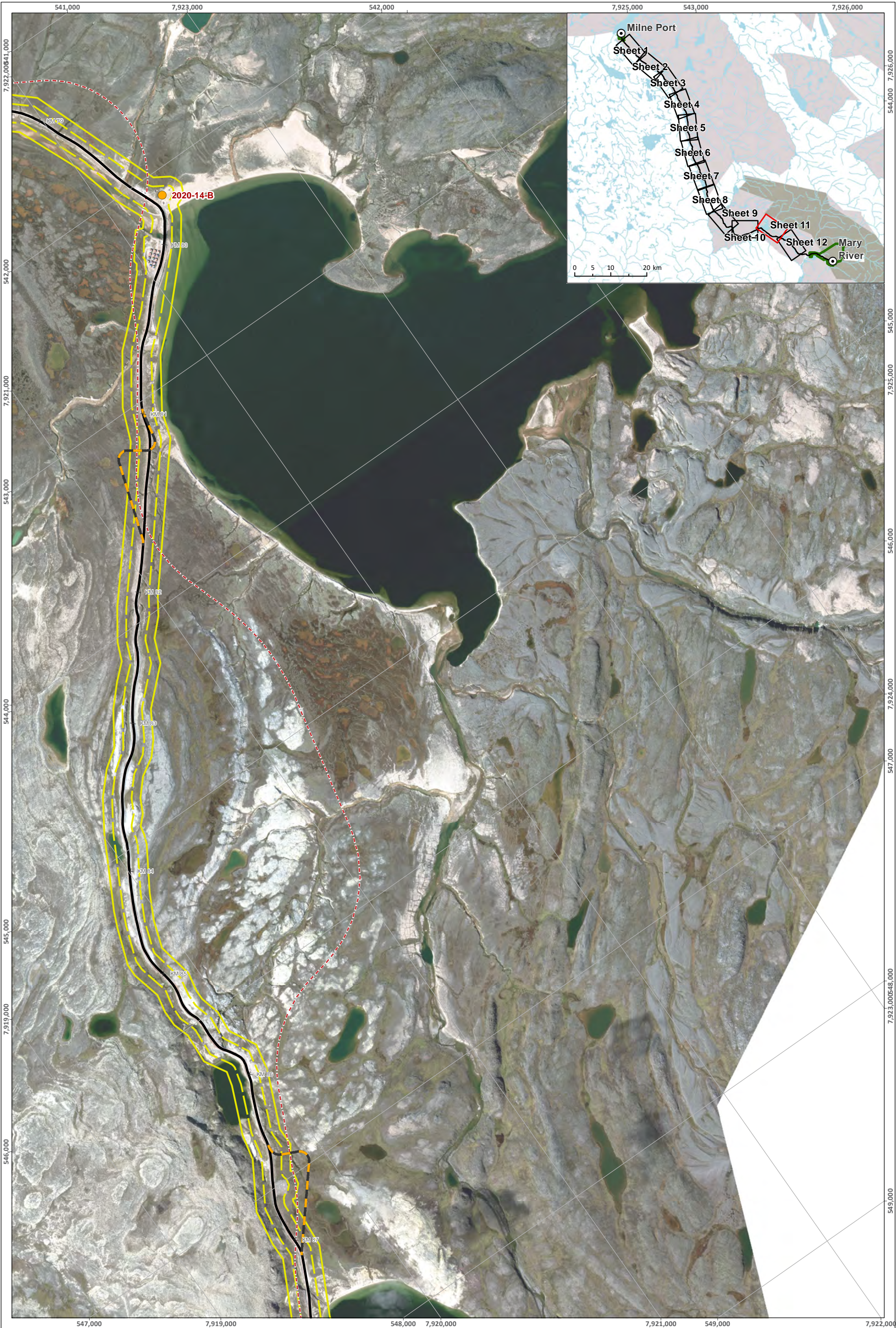
FIGURE 11







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LEGEND

- Scope of Work for 2021 - Pre-Project Certificate Approval

Work Carried over from 2020 & Prior - Security in Place

×

Milne Inlet Tote Road Km Marking

Proposed North Railway - Route 3

Milne Inlet Tote Road

Tote Road Realignment
- Infrastructure

Proposed Infrastructure

Project Development Area

Undisturbed 50 m Buffer From Commercial Lease Boundary

Commercial Lease Boundary

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MARY RIVER PROJECT

Northern Corridor 2021 Work Plan  
(Sheet 11 of 12)

Projection: NAD 1983 UTM ZONE 17N.  
Base Map: © 2020 Digital Globe, Inc.  
Imagery and Infrastructure are representative as  
of August 2020.

0 100 200 400 Meters  
Scale 1:20,000



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FIGURE

13







**APPENDIX B****2021 MARGINAL CLOSURE AND RECLAMATION FINANCIAL SECURITY  
ESTIMATE**

**Provided under separate cover.**

**APPENDIX C**

INTERIM CLOSURE AND RECLAMATION PLAN (BAF-PH1-830-P16-0012)

**Management Plans Not Available in Compressed Version.**

## **APPENDIX D**

EMERGENCY RESPONSE PLAN (BAF-PH1-840-P16-0002)

**Management Plans Not Available in Compressed Version.**

**APPENDIX E**

**Spill Contingency Plan (BAF-PH1-830-P16-0036)**



**Management Plans Not Available in Compressed Version.**