

2022 WORK PLAN

DECEMBER 31, 2021

REV 1



Dec 31, 2021	1	Issued for Use	Sust. Development	<i>Megan Lord-Hoyle</i>	<i>T. Eldem</i>	<i>B. Penny</i>
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1 INTRODUCTION

The following document presents the 2022 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 2022 Work Plan, Rev. 1 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 2022 Work Plan, Rev. 1 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. Since submission of the 2022 Work Plan, Rev. 0 on November 1, 2021, Baffinland has updated the 2022 Work Plan, Rev. 1 to include the outcomes of the Disturbed Areas Analysis and third party Equipment Inventory Audit conducted in November 2021. Baffinland has also incorporated the 2021 Work Plan Addendum for the Mary River Project into the 2022 Work Plan, Rev. 1.

Please refer to Section 5 of the 2022 Marginal Closure and Reclamation Financial Security Estimate, Revision 1 (Appendix B), for the 'global' closure and reclamation security estimate for 2022. Appendix B, Table 5.2 outlines the closure and reclamation security estimated to be required based on the Global Estimate from 2021 Work Plan with the adjustment based on the 2021 Work Plan Addendum and the 2022 Marginal Estimate including 2021 Reconciliation.

Baffinland continues to expand the operation of the Mary River Project, both through the 6 million tonne per annum (Mtpa) increase approved in 2021 and the submission of the Phase 2 Environmental Impact Statement (EIS) in 2018. Activities outlined in this 2022 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 2022 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 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 2022 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-MRY2131	Nunavut Water Board	16-Apr-31
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 – 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
Navigable Waters - Crossings	8200-07-10273, 10267, 10269, 10268, 10274, 10272, 10266, 10271	Transport Canada	Until work completed
Marine Facility	Statement of Compliance of a Marine Facility #1000000660	Transport Canada	27-May-2025
Scientific Permit ¹	02 065 20R-M	Government of Nunavut	31-Dec-21

Permit Name	Permit Number	Regulatory Agency	Expiry
Factory Licence ²	F1-076068/E	National Resources Canada	-

NOTE:

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

2 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 2022, 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 2022 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; and,
- Authorization or Letter of Advice from DFO for fish habitat.

In addition to the above noted activities proposed for the Project in 2022, Table 3.2 summarizes the activities to take place in 2022.

Table 3.1: Scope of Work for 2022

Item No.	Property Section	Land Use Area	Approximate Location	Description	Description of Effect on Feature(s)	Anticipated Completion Year	Required Permit Applications	Other Information
Scope of Work for 2022								
2022-1	Mine Site	Impact Area	(A) N7912718 E560727 (B) N7912733 E560724	Construction of Landfarm Cell 4 (4,611 m ²) and expansion of Cell 3 (1,288 m ²).	Leveling and grading within Potential Development Area	2022	Security	None
2022-2	Mine Site	Impact Area	N7912959 E5630983	Ore stockpiling area at KM 105.5 (114,847 m ²)	Leveling and grading within Potential Development Area	2022	Security	None
2022-3	Mine Site	Impact Area	(A) N7912740 E562483 (B) N7912825 E562090	Expansion to KM 105 Equipment Laydown east (27,509 m ²) and west (36,332 m ²)	Leveling and grading within Potential Development Area	2022	Security	Layout drawings
2022-4	Mine Site	Impact Area	N7913097 E561423	Mobile equipment laydown and tire facility (14,108 m ²).	Leveling and grading within Potential Development Area	2022	Security	Layout drawings
2022-5	Mine Site	Impact Area	N7915327 E563264	New Fuel tank (250,000L) to be mobilized on existing pad KM110.5	Leveling and grading within Potential Development Area	2022	Security	Layout drawings
2022-6	Mine Site	Impact Area	(A) N7914411 E562618 (B) N7914082 E563981 (C) N7914060 E563600 (D) N7915942 E563665	Construction of a west perimeter road to bypass pit (74,577 m ²), 510 Hillside Road (11,423 m ²), 470 Hillside Road (2,429 m ²) and Bypass road from cross-cut road towards waste dump (24,534 m ²).	Leveling and grading within Potential Development Area	2022	Security	Layout drawings
2022-7	Mine Site	Impact Area	N7913001 E562371	Expansion to the sedimentation pond at KM 105 to manage surface water runoff - 6687m ² (lined) and 19238 m ² (unlined)	Leveling and grading within Potential Development Area	2022	Security Water Licence Modification	IFCs
2022-8	Mine Site	Impact Area	N7916803 E563181	Replacement of inflatable building with rigid building	No effect, will occur on developed laydown within Potential Development Area	2022	Security	IFCs
2022-9	Mine Site	Impact Area	N7915138 E563442	Bit shack (container building)	Leveling and grading within Potential Development Area	2022	Security	Layout drawings
2022-10	Mine Site	Impact Area	N7914460 E558050	15,000 L bulk diesel storage at Weatherhaven to support drilling operations	No effect, will be placed on developed lined containment facility within Potential Development Area	2022	N/A	N/A
2022-11	Mine Site	Impact Area	N7915411 E563242	Installation of power distribution cabling from the new KM110 building to the mine water treatment facility (500m)	No effect, will be placed on developed laydown within Potential Development Area	2022	Security	None
2022-12	Mine Site	Impact Area	N7913182 E561074	Construction of new Sedimentation Pond SDLT-1 - 20678 m ² (lined), 58324 m ² (unlined)	Leveling and grading within Potential Development Area	2022	Security, IFC submittal	IFCs
2022-13	Mine Site	Impact Area	N7914459 E563934	Communication tower KM 108	No effect, will occur on developed laydown within Potential Development Area	2022	Security	Layout drawings

Item No.	Property Section	Land Use Area	Approximate Location	Description	Description of Effect on Feature(s)	Anticipated Completion Year	Required Permit Applications	Other Information
2022-14	Mine Site	Impact Area	N7913383 E560600	Construction of a new COVID-19 PCR testing lab building at the Mine Site.	No effect, will occur on developed laydown within Potential Development Area	2022	Security	None
2022-15	Mine Site	Impact Area	N7913226 E561516	New building and expansion of Mary River HD Maintenance Shop (878 m ²)	Leveling and grading within Potential Development Area	2022	Security	None
2022-16	Mine Site	Impact Area	N7916685 E563277	Expansion to the Water Treatment Plant pad (10,500 m ²)	Minor leveling and grading within Potential Development Area	2022	Security	None
2022-17	Milne Port and Mine Site	Impact Area	(A) Mine Site - N7915165 E556824 (B) Milne Port - N7973585 E504524	Enhancement of training grounds for the Emergency Response Team with fire retardant infrastructure and secondary spill containment.	Minor leveling and grading within Potential Development Area	2022	Security	None
2022-18	Milne Port and Mine Site	Impact Area	(A) Mine Site - N7914557 E558095 (B) Milne Port - N7976001 E503826	Addition of offices/ trailers at the Environment Department work areas	No effect, will occur on developed laydown within Potential Development Area	2022	Security	None
2022-19	Milne Port	Impact Area	N7976055 E503688	Installation of power distribution cabling and distribution equipment for a new service from the Port Power house area to CV-001 on the shiploader	No effect, will be placed on developed laydown within Potential Development Area	2022	Security	None
2022-20	Mine Site/ Milne Port	Impact Area	N7914347 E558102	Construction of new Sedimentation Pond Camp Lake (10,000 m ²) – lined	Leveling and grading within Potential Development Area	2022	Security IFC submittal	IFCs
Work Carried over from Prior Years								
2021-1	Mine Site	Impact Area	(A) N7913243 E561233 (B) N7913358 E561547	Installation of power distribution cabling at the Mine Site 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)	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 (seacantent structure) on laydown LP2 x 1127 m ²	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 (x 208 m ²)	No effect, will be placed on developed laydown within Potential Development Area	2021	Security	None
2021-5	Mine Site	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. (assumed each 100 m ²)	No effect, will be placed on developed laydown within Potential Development Area	2021	Security	None
2021-8	Milne Port	Impact Area	N7975343 E503420	New thaw and wash bay facility for mobile vehicle maintenance. Footprint of 1,250 m ² .	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

Item No.	Property Section	Land Use Area	Approximate Location	Description	Description of Effect on Feature(s)	Anticipated Completion Year	Required Permit Applications	Other Information
2021-12	Mine Site	Impact Area	N7913305 E560832	Relocation of the Mine Site Complex (MSC) sewage treatment plant to be in line with the Sailivik 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 (C) N7914907 E563755	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) N7912785 E562266	Expansion of the area east of the Mine Site workshops and crushing area for improved traffic management - 104 to MSC (19,424 m²), 104.5 to Crusher (18,308 m²).	Leveling and grading within Potential Development Area	2020	Security Water Licence Modification	IFCs
2021-16	Mine Site	Impact Area	N7913479 E561406	Expansion of MSC laydown for vehicle parking (5,243 m²).	Leveling and grading within Potential Development Area	2021	Security	Layout Drawings
2021-17	Mine Site	Impact Area	(A) N7913688 E563838 (B) N7914037 E564237	Construction of laydown areas for road aggregate storage on the mine haul road 106 Km (4,843 m²), 107 Km (2,159 m²)	Leveling and grading within Potential Development Area	2021	Security	Layout Drawings
2021-18	Mine Site	Impact Area	N7915782 E563132	WRF Expansion to approved footprint (265,000 m²)		2021	Security Modification Request 8 (approved)	Layout Drawings
2021-19	Mine Site	Impact Area	N7915574 E564180	Explosives plant secondary storage location TBD (20,000m² - laydown grade and recontour)	Leveling and grading within Potential Development Area	2021	Security NRCAN Approval	Layout Drawings
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 250m 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 Sailivik Camp.	No effect, will be placed on developed laydown within Potential Development Area	2021	Security	Layout drawings
2020-3	Mine site/ 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 m³.	Leveling and grading within Potential Development Area	2021	Security Water Licence Modification	IFCs
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 m².	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 the ultimate limit of Deposit 1	2021	None	IFCs

Item No.	Property Section	Land Use Area	Approximate Location	Description	Description of Effect on Feature(s)	Anticipated Completion Year	Required Permit Applications	Other Information
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 ² MR Shop - 120 m ² Wash Bay - 120 m ² 110 Laydown - 144 m ²	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 ² .	Leveling and grading within Potential Development Area	2020	Security	Layout Drawings
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-A	Milne Port	Impact area	(A) Q1 - N7974810 E503970	Development of quarry Q1	Leveling and grading within Potential Development Area and Tote Road	2020	Quarry Management Plans	Surveys
2019-1-E	Tote Road	Impact Area	(E) PQ6A - N7929733 E528240 (194,000 m ²)	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-D	Tote Road	Impact Area	(C) Laydown 9 - N7929681 E527833 (92,500 m ²)	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 ²)	Expansion of the Milne Port Ore Stockpile and water management facilities to optimize stockpiling and ship loading operations, resulting in an additional 140,000 m ² of stockpile area and 15,000 m ² lined sedimentation pond.	Leveling and grading within Potential Development Area	2020	Water Licence Modification No. 12 (Approved)	IFCs

Item No.	Property Section	Land Use Area	Approximate Location	Description	Description of Effect on Feature(s)	Anticipated Completion Year	Required Permit Applications	Other Information
2019-7	Milne Port	Impact Area	N7974938 E503109 (6,000 m2)	Construction of berm and linear steel support structure on laydown LP3 for receipt and storage of stacker/reclaimer equipment. Berm dimensions are 200m 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)
2019-8	Milne Port	Impact Area	N7976033 E503590 (4,180 m2)	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 m2)	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 m2) (B) Milne Port - N7976251 E503915 (360 m2)	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 m2)	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 m2)	New KM110.5 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 m2)	Heated maintenance shop for pit equipment at Km 110.5 Laydown. Tent structure with lined floor. Footprint is approximately 1,500 m ² .	No effect, will occur on developed laydown within Potential Development Area	2020	None	Layout drawing(s)
2019-15	Mine Site	Impact Area	N7914500 E558150 (area m2)	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 m2)	Expansion of the 800 person camp pad to the north by approximately 12,000 m ² 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 m2)	Addition of offices/trailers/buildings at the 800p Camp. Total footprint is 925 m ² , including approximately 500 m ² 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 m2)	Construction of a landfarm at the Mine Site landfill facility, with an estimated footprint of 9,000 m ² . 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
2019-20	Mine Site	Impact Area	N7913446 E561080	Construction of one (1) arctic diesel fuel tank (Tk6) 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 ²) and sedimentation pond (10,600 m ² disturbed, 7,500 m ² lined).	Leveling and grading within Potential Development Area	2020	Notification to NWB (Completed)	IFCs

Item No.	Property Section	Land Use Area	Approximate Location	Description	Description of Effect on Feature(s)	Anticipated Completion Year	Required Permit Applications	Other Information
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
2018-27	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
Progressive Reclamation								
	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
	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

3.1 INFRASTRUCTURE LAYOUT AT END OF 2022

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 2022 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 2022 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 2022. 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 2022 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 2022 is provided in Table 4.1 below.

Table 4.1: Mine Forecast 2022

Month	Ore Mined (wmt)	Waste Mined (wmt)	Total Mined (wmt)
January	690,000	1,100,000	1,800,000
February	580,000	1,000,000	1,600,000
March	730,000	1,200,000	1,900,000
April	706,000	900,000	1,600,000
May	709,000	1,000,000	1,700,000
June	690,000	1,000,000	1,700,000
July	730,000	900,000	1,600,000
August	760,000	700,000	1,500,000

Month	Ore Mined (wmt)	Waste Mined (wmt)	Total Mined (wmt)
September	680,000	800,000	1,500,000
October	620,000	1,000,000	1,600,000
November	640,000	1,100,000	1,800,000
December	720,000	1,200,000	1,900,000
Total	8,255,000	11,900,000	20,200,000

4.3 AMOUNT AND TYPE OF ORE TO BE SHIPPED EACH MONTH

Ore shipping during 2022 will occur during the open water season from end of July to approximately mid-October. The expected total shipping quantities for 2022 are shown in Table 4.2 below.

Table 4.2: Ore Shipping Forecast 2022

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	-	-	365,750	-	365,750	-
August	731,500	-	146,3000	-	2,194,500	-
September	438,900	-	1,536,150	-	1,975,050	-
October	365,750	-	1,097,250	-	1,463,000	-
November	-	-	-	-	-	-
December	-	-	-	-	-	-
Total	1,536,150	-	4,462,150	-	5,998,300	-

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 2022 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: 2022 Quarry and Borrow Pit Quantities

Quarry Summary	Km Location	Permitted	Q1	Q2	Q3	Q4	Total	Estimated Breakdown Of Specified Substances
UNITS			m ³	m ³	m ³	m ³	m ³	
Q1	1	Permitted	-	20,000	40,000	20,000	80,000	Rock
Q5	4	Proposed	-	-	-	-	-	Rock
Q7	7	Permitted	-	-	-	-	-	Rock
Q11	21	Permitted	-	-	-	-	-	Rock
Q19	93.5	Permitted	-	-	-	-	-	Rock
QMR2	102	Permitted	-	-	15,000	15,000	30,000	Rock
Km 2	2	Permitted	-	-	-	-	-	Granular
Km 97	97	Permitted	-	-	-	-	-	Granular
Total	-	-	-	-	-	-	-	-

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 2022 is established from survey volumes measured in 2015 through 2021, 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 2022

Property Section	Waste Storage Area	Volume of Solid Waste to be disposed of (m ³)
<i>e.g. Milne Port/Tote Road/Mine Site</i>	-	-
Mine Site	Landfill	10,000
Total		10,000

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 ³)
Milne Port (Milne Inlet)	Phillips Creek (Summer)	71° 52' 53.3" N 80° 56' 04.0" W	134,130 m ³ /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 ³ /year
Steensby Port (Steensby Inlet)	ST 347 km Lake	N/A	0 m ³ /year
	3 km Lake	N/A	
TOTAL			371,130 m³/year

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 m³/day to a maximum of 547,500 m³ 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 ³ /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 ³ /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 2022 are detailed in Table 7.1 below.

Table 7.1: Materials to be Shipped Out in 2022

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	83	83
Milne Port	Hydro Carbon Contaminated Material	BIMC	191	191
Milne Port	Waste Oil	BIMC	1150	1150
Milne Port	Waste Fuels	BIMC	85	85
Milne Port	Waste Grease	BIMC	30	30
Milne Port	Waste Hazardous Liquids	BIMC	373	373
Milne Port	Waste Aerosol Canisters	BIMC	2.4	2.4
Milne Port	Contaminated Containers/Solids	BIMC	297	297
Milne Port	Misc Hazardous Materials	BIMC	233	233

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 2022 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 2022

	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 2022 will arrive on the 2022 sea lift include the following items provided below in Table 8-2.

Table 8.2: Mobile and Mechanical Equipment to be Received During 2022

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	Jet A truck	Baffinland	1	32
Mine Site	Fuel Tanker	Baffinland	1	32
Mine Site	Cube Truck	Baffinland	2	18
Mine Site	Bus	Baffinland	2	32
Mine Site/Milne Port	Service Truck	Baffinland	4	53
Mine Site/Milne Port	Vac Truck	Baffinland	2	42
Mine Site	18M Graders	Baffinland	3	315
Mine Site	Light Vehicles (F-250 or similar)	Baffinland	9	218
Mine Site	Dewatering Pumps	Baffinland	3	3
Mine Site	Production Drill	Baffinland	1	23
Mine Site	992 Loader	Baffinland	1	90
Mine Site	374 Excavator	Baffinland	2	96
Mine Site	D10 Dozer	Baffinland	1	27
Mine Site	Steam Truck	Baffinland	1	22
Mine Site	Lowboy Float	Baffinland	1	14
Mine Site	Hydraulic Ripper	Baffinland	1	4

Property Section	Material Item	Owner	Quantity	Revenue Tonne
Mine Site	Ford 15 Passenger Vans (or similar)	Baffinland	2	16
Mine Site	All Terrain Vehicle (Prinoth or similar)	Baffinland	1	26
Mine Site	Skid steer (for drilling support)	Baffinland	1	5
Mine Site	Large Water Pump	Baffinland	2	2
Mine Site	Commissioning of small mobile gensets ranging in size from 20kW - 60kW	Baffinland	10	40
Mine Site	Hydraulic Hammer	Baffinland	1	10
Mine Site	777 Fuel & Lube body	Baffinland	1	14
Milne Port	Snowmobile	Baffinland	2	24
Mine Site	Snowmobile	Baffinland	2	24
Milne Port	Side by Side	Baffinland	1	12
Mine Site	Communication Tower	Baffinland	1	10
Mine Site	Service Truck	Baffinland	1	15
Mine Site	Vac Truck	Baffinland	1	21
Mine Site	Genie Skylift Z-135	Baffinland	1	7
Mine Site	Genie S85	Baffinland	1	7
Mine Site	Genie S125	Baffinland	1	7
Milne Port	Yukon 14ft Boat	Baffinland	1	11
Milne Port	Boat Trailer	Baffinland	1	8
Milne Port	Trailer	Baffinland	1	8

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

- Delivery of ammonium nitrate (AN), up to 7,102,871 kg to be stored on-site in 2022;
- 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 2022.

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 2021 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	Current Revision Date
BAF-PH1-300-P16-0002	Snow Management Plan	Mar-21
BAF-PH1-830-P16-0001	Surface Water Sampling Program - Quality Assurance and Quality Control Plan	Mar-21
BAF-PH1-830-P16-0002	Air Quality and Noise Abatement Management Plan	Apr-21
BAF-PH1-830-P16-0004	Borrow Pit and Quarry Management Plan	Mar-14
BAF-PH1-830-P16-0006	Cultural Heritage Resource Protection Plan	Mar-16
BAF-PH1-830-P16-0008	Environmental Protection Plan	Apr-21
BAF-PH1-830-P16-0010	Fresh Water Supply, Sewage and Wastewater Management Plan	Mar-21
BAF-PH1-830-P16-0011	Hazardous Materials and Hazardous Waste Management Plan	Mar-17
BAF-PH1-830-P16-0012	Interim Closure and Reclamation Plan	Oct-18
BAF-PH1-830-P16-0013	Oil Pollution Emergency Plan - Milne Inlet (OPEP)	May-20
BAF-PH1-830-P16-0017	Q1 Quarry Management Plan	May-19
BAF-PH1-830-P16-0023	Roads Management Plan	Feb-20
BAF-PH1-830-P16-0024	Shipping and Marine Wildlife Management Plan	July-20
BAF-PH1-830-P16-0025	Stakeholder Engagement Plan	Mar-16
BAF-PH1-830-P16-0026	Surface Water and Aquatic Ecosystems Management Plan	Mar-21
BAF-PH1-830-P16-0027	Terrestrial Environmental Management and Monitoring Plan	Mar-16
BAF-PH1-830-P16-0028	Waste Management Plan	Mar-20
BAF-PH1-830-P16-0029	Phase 1 Waste Rock Management Plan	June-20
BAF-PH1-830-P16-0030	Borrow Source Management Plan – Kilometre 2	Oct-14
BAF-PH1-830-P16-0031	Life of Mine Waste Rock Management Plan	Apr-14
BAF-PH1-830-P16-0032	Borrow Source Management Plan - Kilometre 97	Oct-14
BAF-PH1-830-P16-0035	Borrow Source Management Plan - Kilometre 104	Mar-14
BAF-PH1-830-P16-0036	Spill Contingency Plan	Feb-21

Document Number	Plan Name	Current Revision Date
BAF-PH1-830-P16-0037	Exploration Spill Contingency Plan	Jan-21
BAF-PH1-830-P16-0038	Exploration Closure and Reclamation Plan	Jan-21
BAF-PH1-830-P16-0039	Aquatic Effects Monitoring Plan	Oct-15
BAF-PH1-830-P16-0040	QMR2 Quarry Management Plan	Jul-17
BAF-PH1-830-P16-0041	Polar Bear Safety Plan	Mar-16
BAF-PH1-830-P16-0042	Spill at Sea Response Plan	Aug-15
BAF-PH1-830-P16-0046	Marine Environmental Effects Monitoring Plan	Mar-16
BAF-PH1-830-P16-0047	MDMER Emergency Response Plan	Feb-19
BAF-PH1-830-P16-0050	Ballast Water Management Plan	Mar-19
BAF-PH1-830-P16-0056	Diesel Environmental Emergency (E2) Plan - Milne Port	Feb-20
BAF-PH1-830-P16-0057	Diesel Environmental Emergency (E2) Plan – Mine Site	Feb-20
BAF-PH1-830-P16-0058	Oil Pollution Prevention Plan - Milne Inlet (OPEP)	May-20
BAF-PH1-840-P16-0002	Emergency Response Plan	Dec-20
H349000-3000-07-245-0001	Q7 Quarry Management Plan	Oct-13
H349000-3000-07-245-0002	Q11 Quarry Management Plan	Oct-13
H349000-3000-07-245-0003	Q19 Quarry Management Plan	Oct-13
H349000-4200-07-245-0001	D1Q1 Quarry Management Plan	Oct-13
H349000-4200-07-245-0002	D1Q2 Quarry Management Plan	Oct-13

Notes:

- 1 Discontinued and incorporated into the March 2014 Borrow Pits and Quarry Management Plan.
2 The Explosives Management Plan is a contractor document.

A copy of Baffinland's Environmental Management Plans are available on the document web portal:

<https://www.baffinland.com/media-centre/document-portal/>.

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.

9.4 TOTAL CLOSURE AND RECLAMATION SECURITY SUMMARY – 2022 WORK PLAN

The provision of additional securities for the 2022 Work Plan is summarized in Table 9.2 and Table 9.3 below.

Baffinland presented the 2021 Work Plan Addendum for the Mary River Project in June 2021, with a revision to securities for the 2021 Work Plan Addendum divided into two (2) tranches. The total marginal reduction in reclamation security was \$17,595,771, with the following breakdown per tranches:

- Tranche 1 – Marginal reduction in reclamation security of \$16,099,200.
- Tranche 2 – Marginal reduction in reclamation security of \$1,496,571.

In preparing the 2022 Work Plan, Rev 1, Baffinland has incorporated the 2021 Work Plan Addendum for the Mary River Project. The 2021 Work Plan Addendum has been included as Appendix F for reference.

The 2022 Marginal Estimate accounts for the difference between 2021 Work Plan Addendum (Tranche 1 plus Tranche 2) and the 2022 Marginal Estimate including 2021 reconciliation, disturbed areas analysis and the 2021 Equipment Inventory Audit. This results in a marginal reduction in reclamation security of \$17,455,116.

Table 9.3 presents the ‘global’ closure and reclamation security estimated to be required based on the Global Estimate from 2021 Work Plan (Column C) compiled with the adjustment based on the 2021 Work Plan Addendum (Column D and E) and the 2022 Marginal Estimate including 2021 Reconciliation (Column F), compared to the amount already posted (Column G).

Table 9.2: Summary of 2022 Work Plan Marginal Increase with 2021 Reconciliation

Component	Global Estimate	Inuit Owned Land Allocation	Crown Land Allocation	Water Allocation	Land Allocation
DIRECT COST SUB-TOTAL	\$3,533,688	\$3,531,751	\$1,937	-	\$3,533,688
Off-Site Disposal of Waste & Material	-	-	-	-	-
Fuel	\$217,000	\$217,000	-	-	\$217,000
Ammonium Nitrate	-	-	-	-	-
Contaminated Soil Treatment	-	-	-	-	-
Mobilization of Workers Required for Reclamation	\$206,000	\$206,000	-	-	\$206,000
Worker Accommodation & Camp Operation	\$564,000	\$563,000	\$1,000	-	\$564,000
Demobilization of Phase 2 Modules	-	-	-	-	-
Demobilization of 3rd Party Equipment	-\$2,222,000	-\$2,222,000	-	-	-\$2,222,000
Mobilization and Demobilization of Equipment and Materials	\$354,000	\$354,000	\$1,000	-	\$354,000
Closure & Post Closure Monitoring	\$7,307	\$7,307	-	-	\$7,307
Engineering Fees	\$138,000	\$138,000	-	-	\$138,000
Supervision, Project Management & Contract Administration	\$333,000	\$333,000	-	-	\$333,000
Contingency	\$709,000	\$708,000	\$1,000	-	\$709,000
INDIRECT SUB-TOTAL	\$306,307	\$304,306.62	\$3,000.00	-	\$306,306.62
TOTAL	\$3,837,000	\$3,837,000	\$5,000	-	\$3,840,000
Inflation	\$124,541	\$124,443.24	\$162.16	-	\$124,540.54
INFLATION ADJUSTED TOTAL	\$3,964,541	\$3,961,443.24	\$5,162.16	-	\$3,964,540.54

Table 9.3: Mary River Project ‘Global’ Closure and Reclamation Security Summary– 2022 Work Plan

	A	B	C	D	E	F	G	H	I
	Authorizatio n	Liabilit y	Global Estimate from 2021 Work Plan (\$)	2021 Work Plan Addendum tranche 1 ⁵ (\$)	2021 Work Plan Addendum tranche 2 ⁵ (\$)	2022 Marginal Estimate Including 2021 Reconciliation (\$)	Total ‘Global’ Estimated Security for 2022 (\$) C + D + E + F	Total Posted as of Jan. 2021 (\$)	Marginal Adjustment to be Posted ⁶ (\$) F
1	Type A 2AM- MRY1325	IOL ²	117,651,846	-16,099,200	-1,496,571	3,959,482	104,015,557	120,999,500	-16,983,943
2		Crown	2,317,866	-	-	1,962	2,319,828	2,788,000	-468,172
3		Water	2,127,917	-	-	-	2,127,917		
4		Land	117,841,795	-16,099,200	-1,496,571	3,961,443	104,207,467		
5	Subtotal Type A		119,969,712	-16,099,200	-1,496,571	\$3,533,688	106,335,384	123,787,500	-17,452,116
6	Type B Exploration 2BE- MRY1421 ³	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 ²	-	-	-	-	-	-	-
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 ²	-	-	-	-	-	-	-
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	-

	A	B	C	D	E	F	G	H	I
	Authorization	Liability	Global Estimate from 2021 Work Plan	2021 Work Plan Addendum tranche 1 ⁵	2021 Work Plan Addendum tranche 2 ⁵	2022 Marginal Estimate Including 2021 Reconciliation	Total 'Global' Estimated Security for 2022	Total Posted as of Jan. 2021	Marginal Adjustment to be Posted ⁶
			(\$)	(\$)	(\$)	(\$)	(\$)	(\$)	(\$)
							C + D + E + F		F
20	AANDC Land Lease 47H/16-1-2 ⁴	IOL ²	-	-	-	-	-	-	-
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		131,004,712	-16,099,200	-1,496,571	3,961,443	117,370,384	134,825,500	-17,455,116

NOTES:

1) Totals rounded to nearest '000 in CAD

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

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

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

5) 2021 Work Plan Addendum see report "2021 Marginal Closure and Reclamation Financial Security Estimate Addendum" rev 0, June 7, 2021

6) Marginal Adjustment to be posted due to 2022 Work Plan

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 2022. 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 2022 Work Plan are summarized in Table 11.1 below.

Table 11.1: Additional Reports, Information or Data

Title	Organization	Date	Annex
<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 additional 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, Rev. 1 <ul style="list-style-type: none"> • Milne Port • Mine Site • Tote Road 	Baffinland	December 30, 2021	Appendix A
2022 Marginal Closure and Reclamation Financial Security Estimate, Rev. 1	Baffinland	December 30, 2021	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
2021 Work Plan Addendum	Baffinland	June 7, 2021	Appendix F

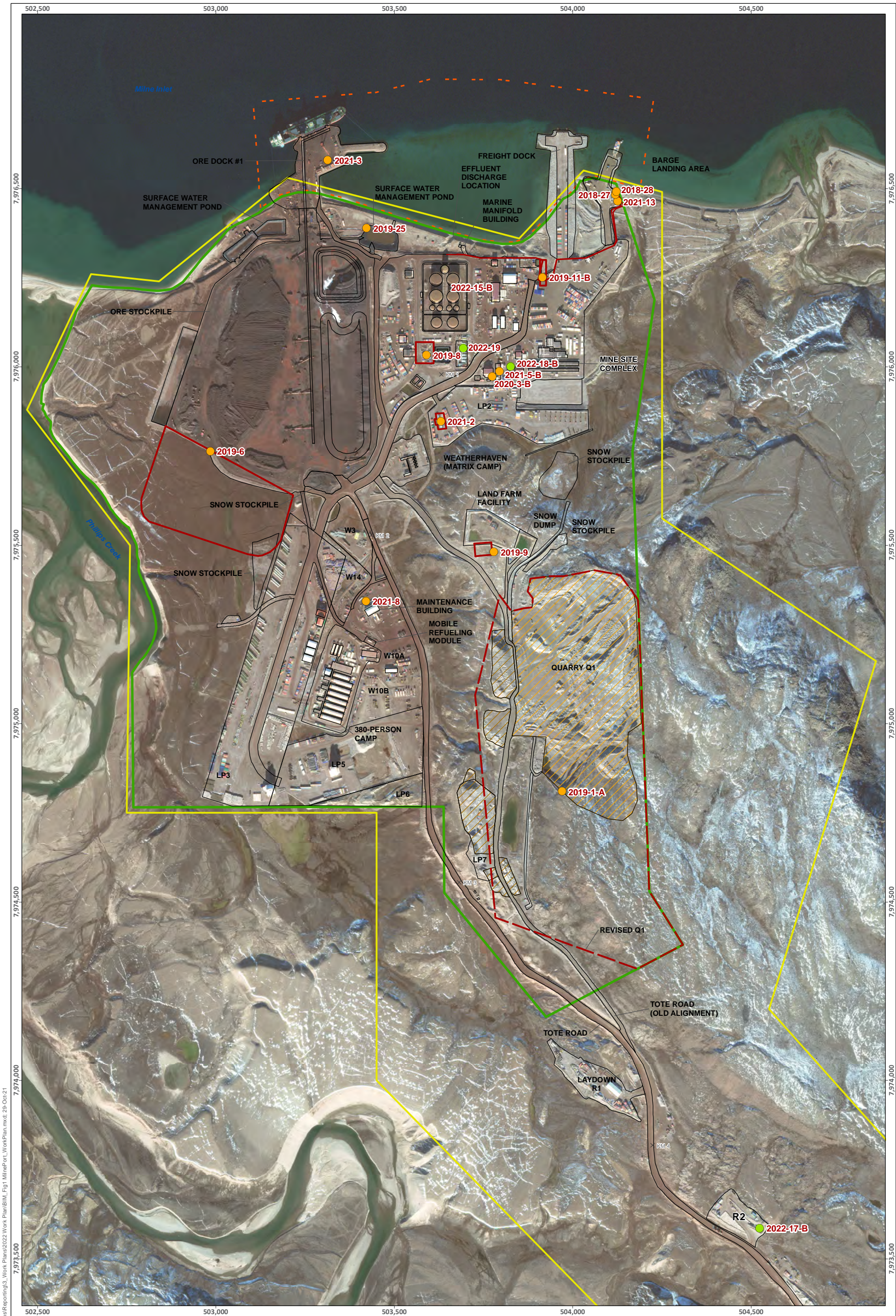
APPENDIX A

2022 WORK PLAN SITE LAYOUTS

2022 Work Plan – Milne Port Site Layout

2022 Work Plan – Mine Site Layout

2022 Work Plan – Tote Road



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LEGEND

- Scope of Work for 2022 - Pre-Project Certificate Approval

Work Carried over from 2021 & Prior - Security in Place

Milne Inlet Tote Road Km Marking

Foreshore Lease Boundary

Project Development Area
- Commercial Lease Boundary

Infrastructure

Borrow Area

Quarry Area

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MARY RIVER PROJECT

Milne Port 2022 Work Plan

Projection: NAD 1983 UTM ZONE 17N.
Base Map: © 2021 Digital Globe, Inc.
Imagery and Infrastructure are representative as of July-September 2021.

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Scale 1:10,000

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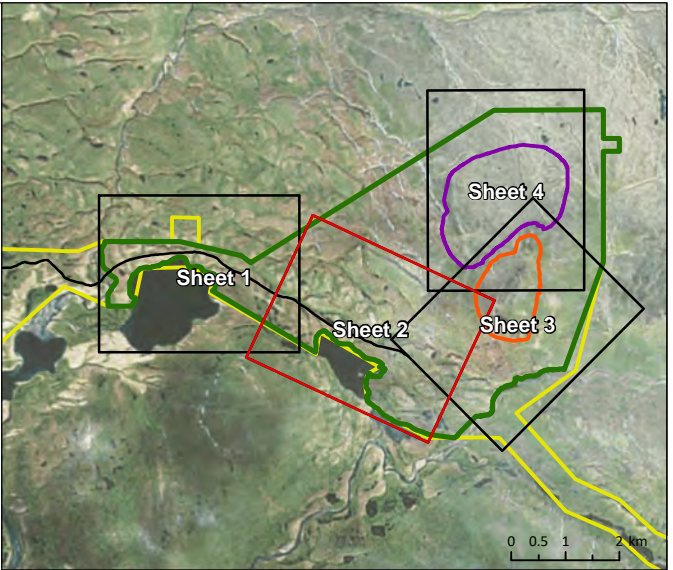
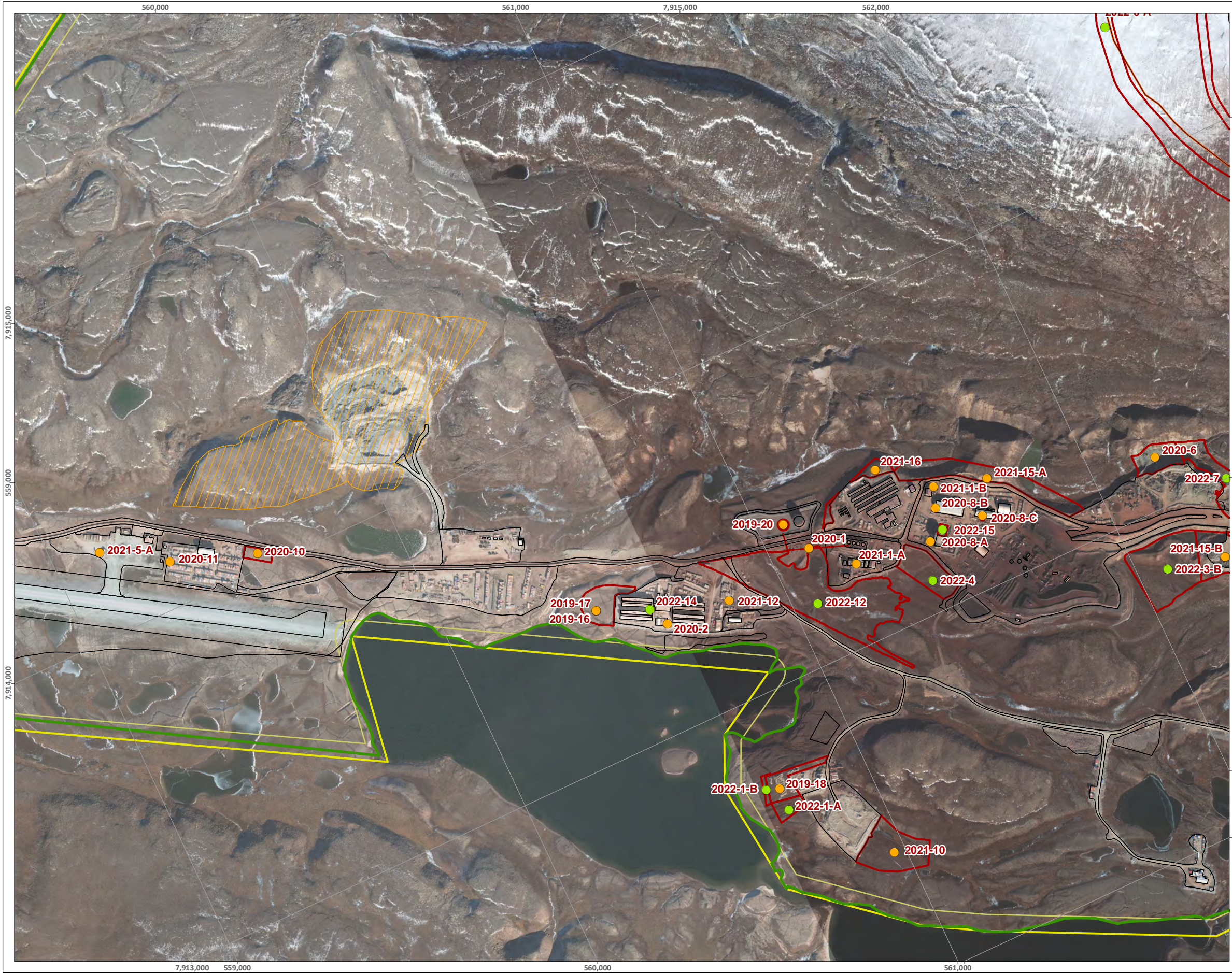
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FIGURE

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LEGEND

- Scope of Work for 2022 - Pre-Project Certificate Approval
- Work Carried over from 2021 & Prior - Security in Place
- × Milne Inlet Tote Road Km Marking
- Milne Inlet Tote Road
- Infrastructure
- Proposed Infrastructure
- Undisturbed 50 m Buffer From Commercial Lease Boundary
- Commercial Lease Boundary
- Project Development Area
- Borrow Area
- Quarry Area

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MARY RIVER PROJECT

**Mine Site 2022 Work Plan
(Sheet 2 of 4)**

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

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Scale 1:12,000

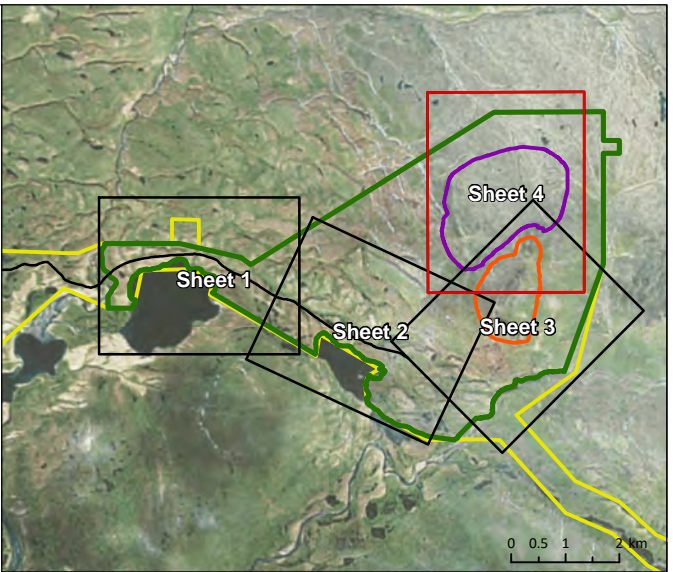


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FIGURE

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LEGEND

- Scope of Work for 2022 - Pre-Project Certificate Approval
- Work Carried over from 2021 & Prior - Security in Place
- × Milne Inlet Tote Road Km Marking
- Milne Inlet Tote Road
- Infrastructure
- Proposed Infrastructure
- Undisturbed 50 m Buffer From Commercial Lease Boundary
- Commercial Lease Boundary
- Project Development Area
- Borrow Area
- Quarry Area

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MARY RIVER PROJECT

**Mine Site 2022 Work Plan
(Sheet 4 of 4)**

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

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FIGURE

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LEGEND

- Scope of Work for 2022 - Pre-Project Certificate Approval

Work Carried over from 2021 & Prior - Security in Place

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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 2022 Work Plan
(Sheet 1 of 12)

Projection: NAD 1983 UTM ZONE 17N.
Base Map: © 2021 Digital Globe, Inc.
Imagery and Infrastructure are representative as of July-September 2021.

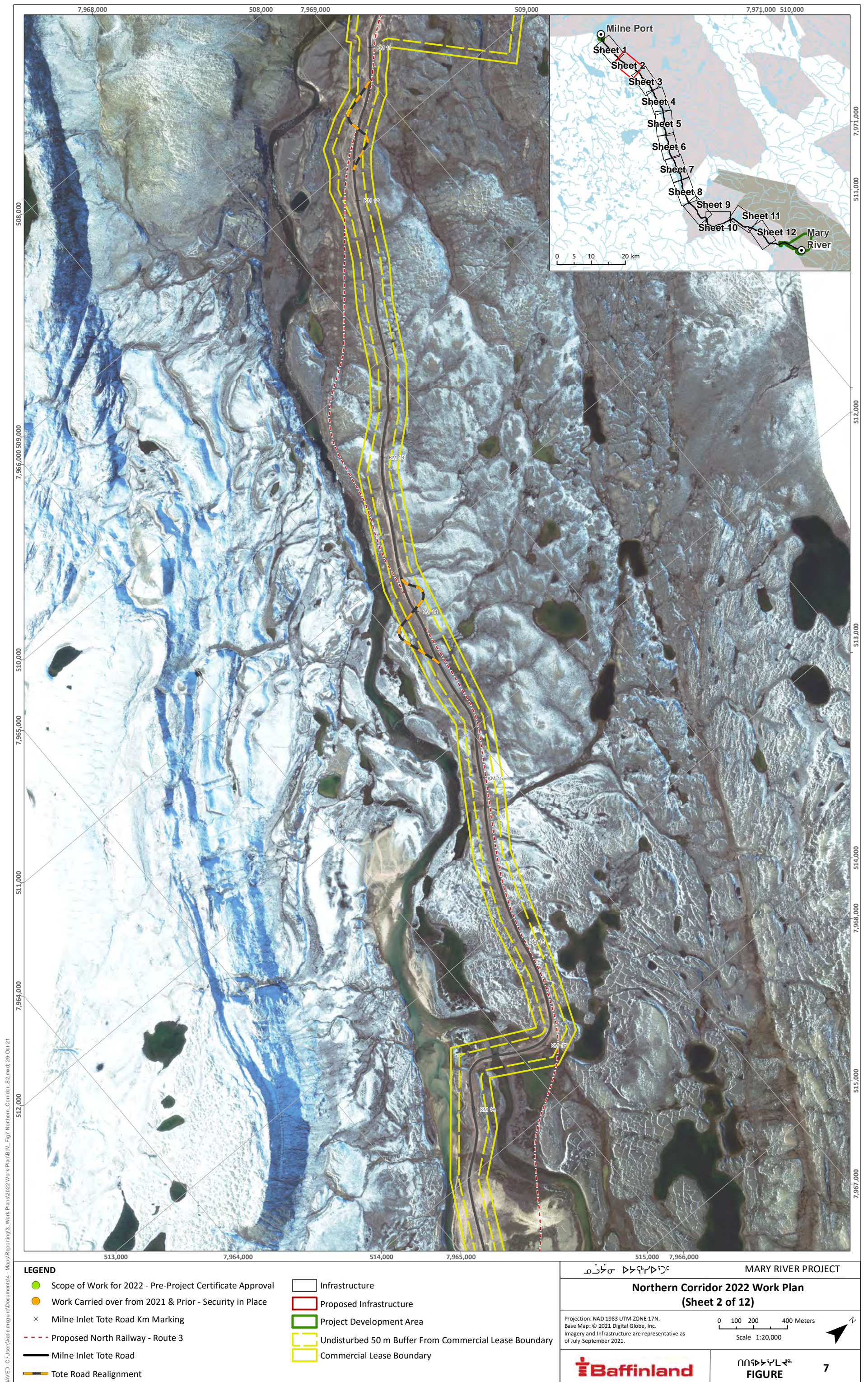
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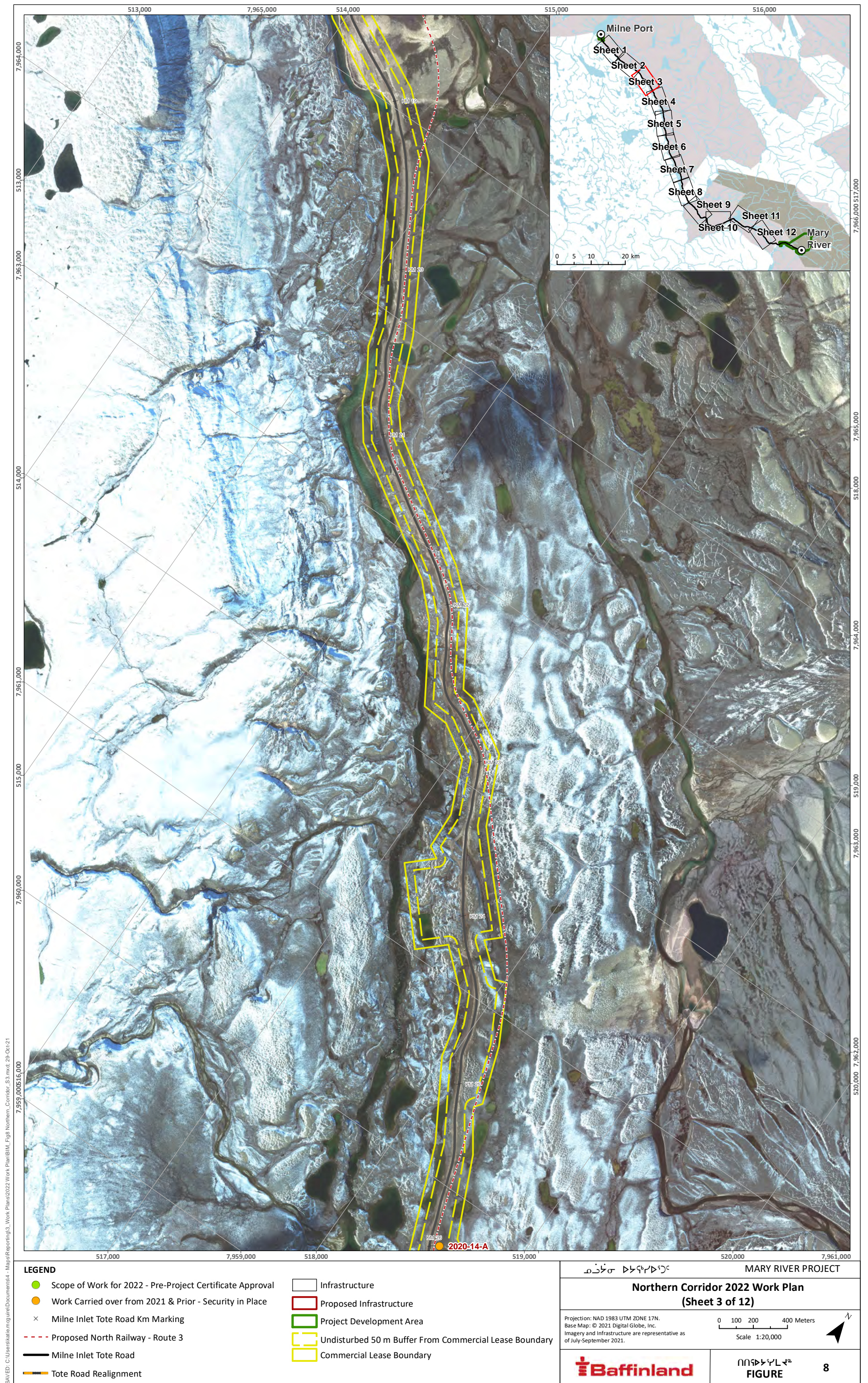


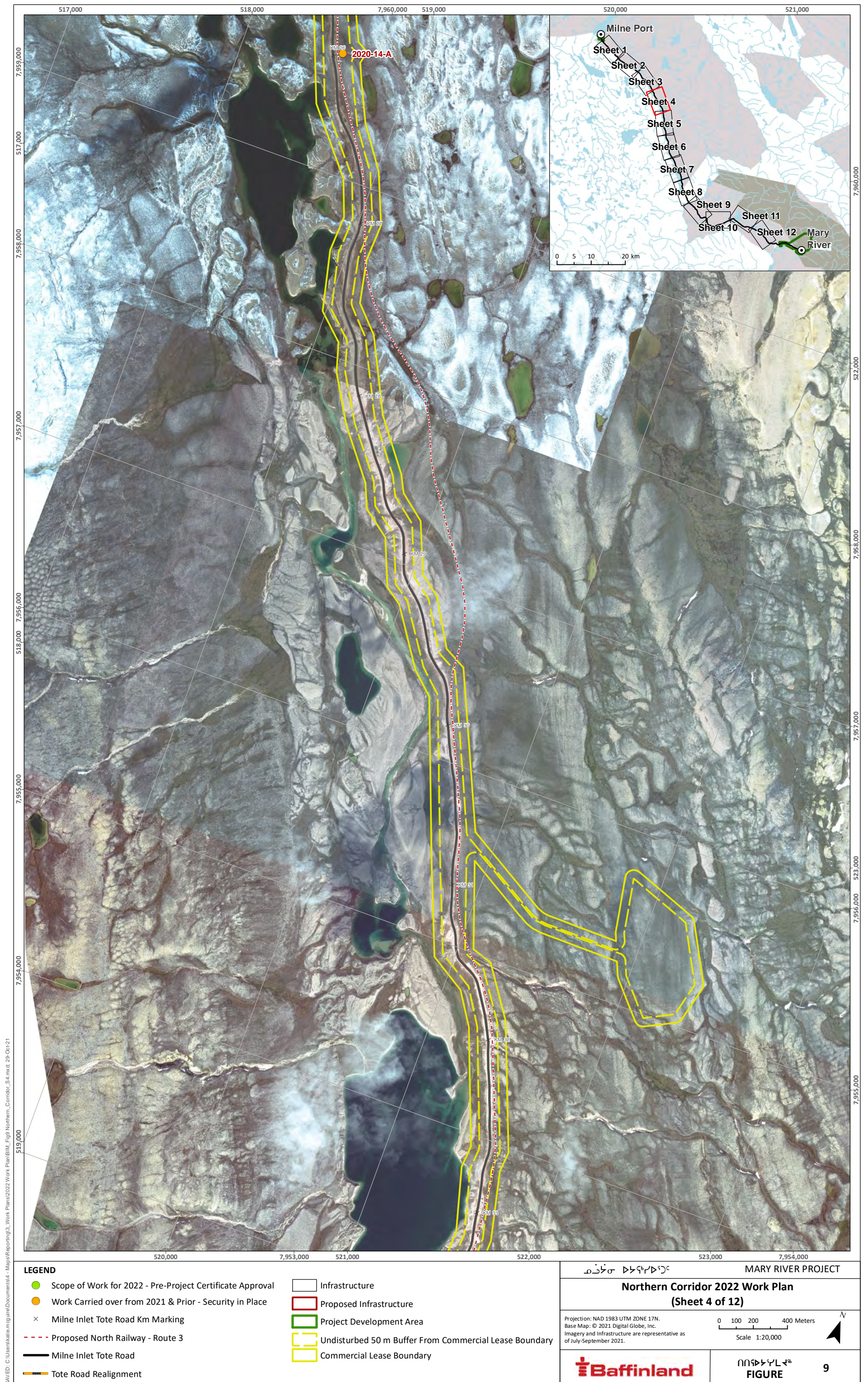
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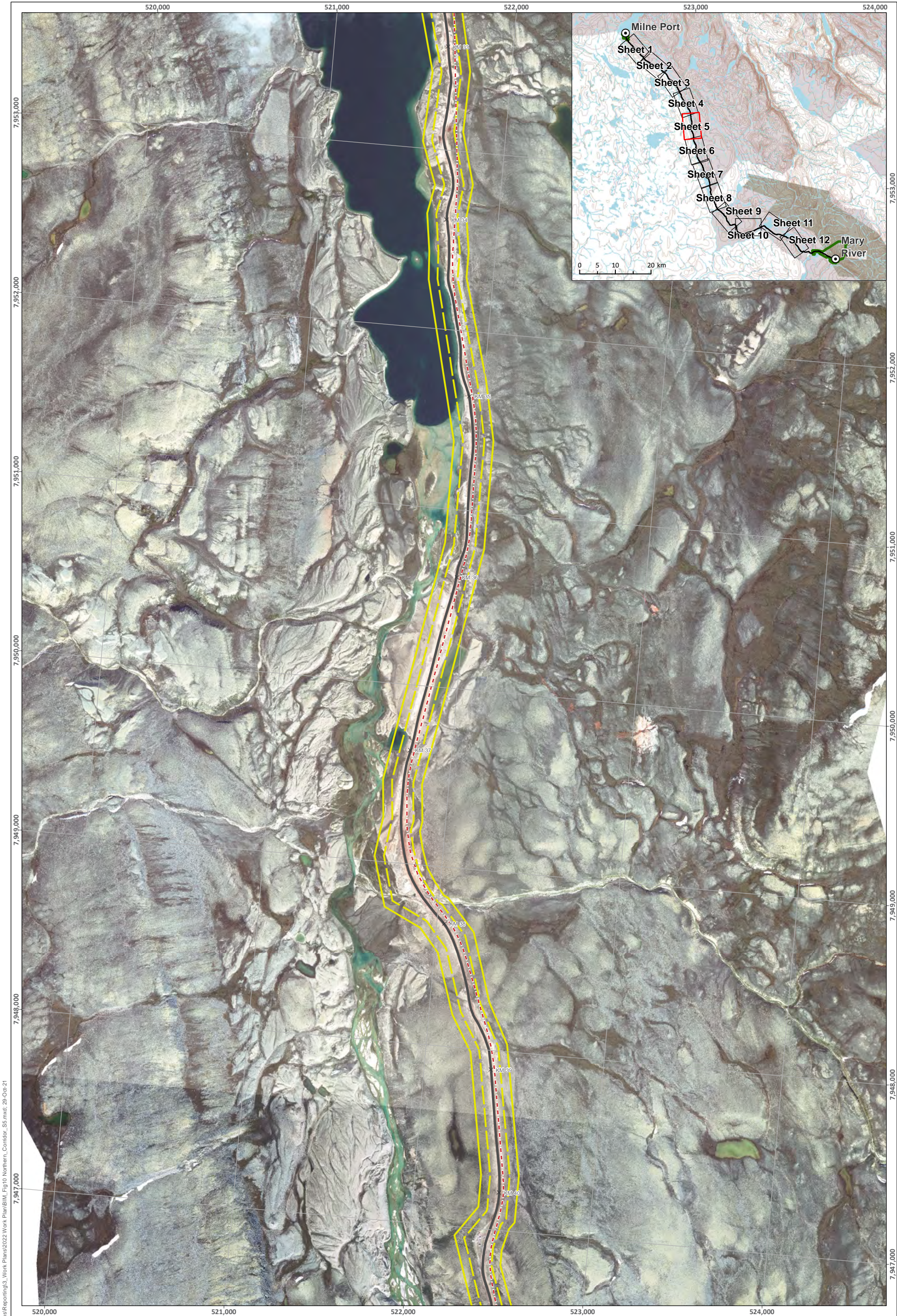
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FIGURE

6









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LEGEND

- Scope of Work for 2022 - Pre-Project Certificate Approval

Work Carried over from 2021 & 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 2022 Work Plan
(Sheet 5 of 12)

Projection: NAD 1983 UTM ZONE 17N.
Base Map: © 2021 Digital Globe, Inc.
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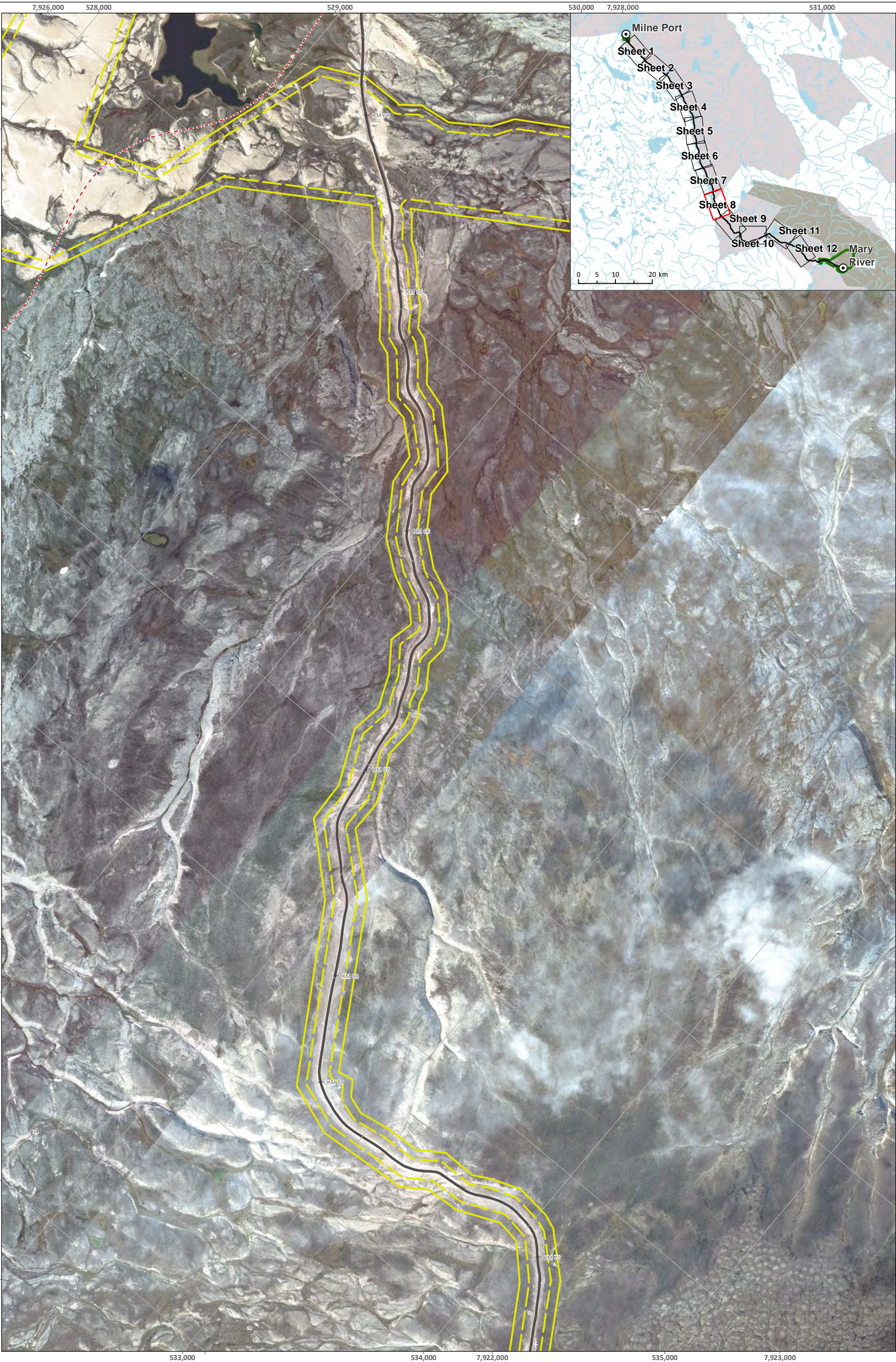


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FIGURE

10



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LEGEND

- Scope of Work for 2022 - Pre-Project Certificate Approval

Work Carried over from 2021 & 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 2022 Work Plan
(Sheet 9 of 12)

Projection: NAD 1983 UTM ZONE 17N.
Base Map: © 2021 Digital Globe, Inc.
Imagery and Infrastructure are representative as
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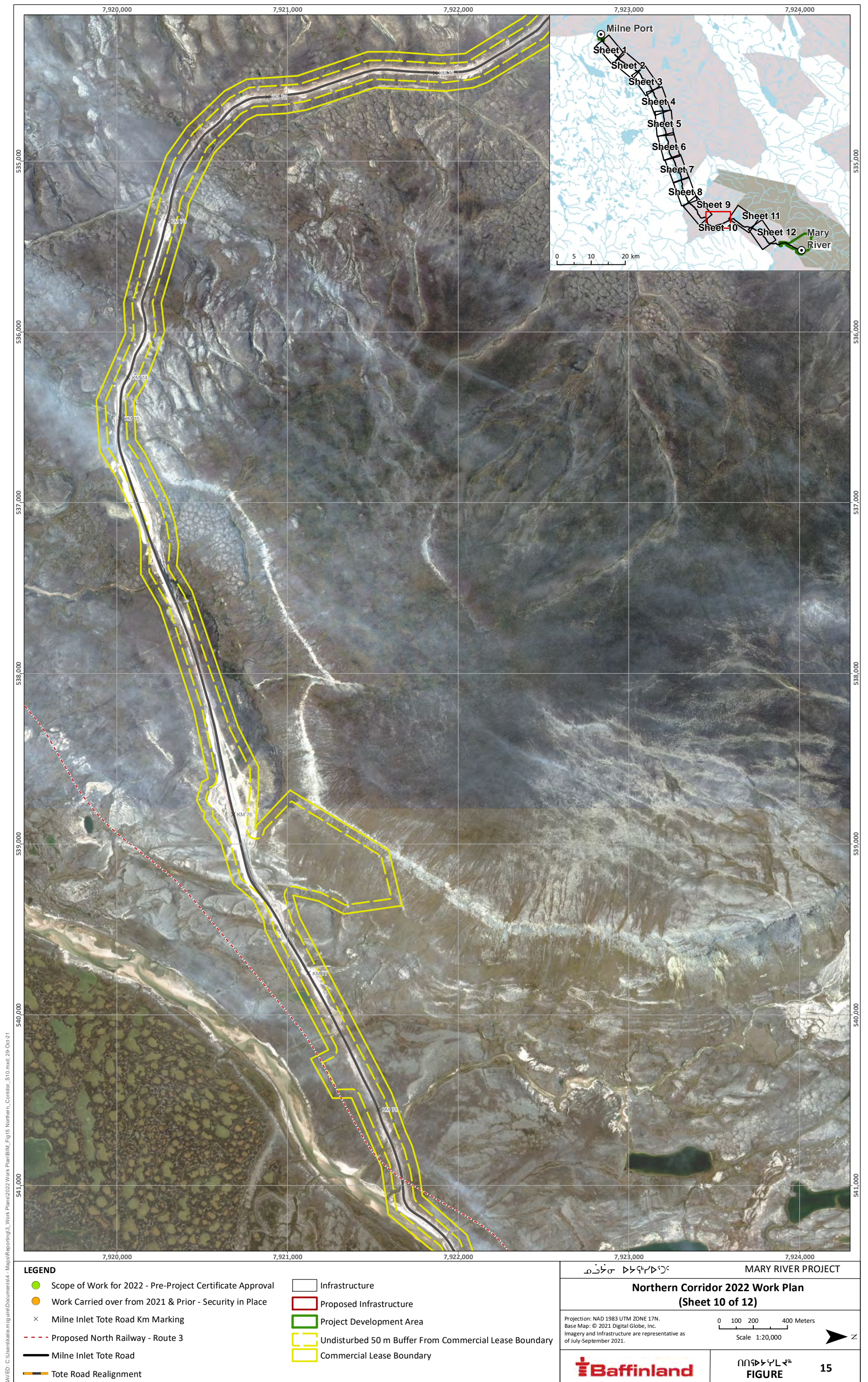
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FIGURE

14



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LEGEND

- Scope of Work for 2022 - Pre-Project Certificate Approval
- Work Carried over from 2021 & 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 2022 Work Plan
(Sheet 11 of 12)

Projection: NAD 1983 UTM ZONE 17N.
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Imagery and Infrastructure are representative as
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FIGURE

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APPENDIX B

2022 MARGINAL CLOSURE AND RECLAMATION FINANCIAL SECURITY
ESTIMATE, REV. 1

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.

APPENDIX F**2021 WORKPLAN ADDENDUM**