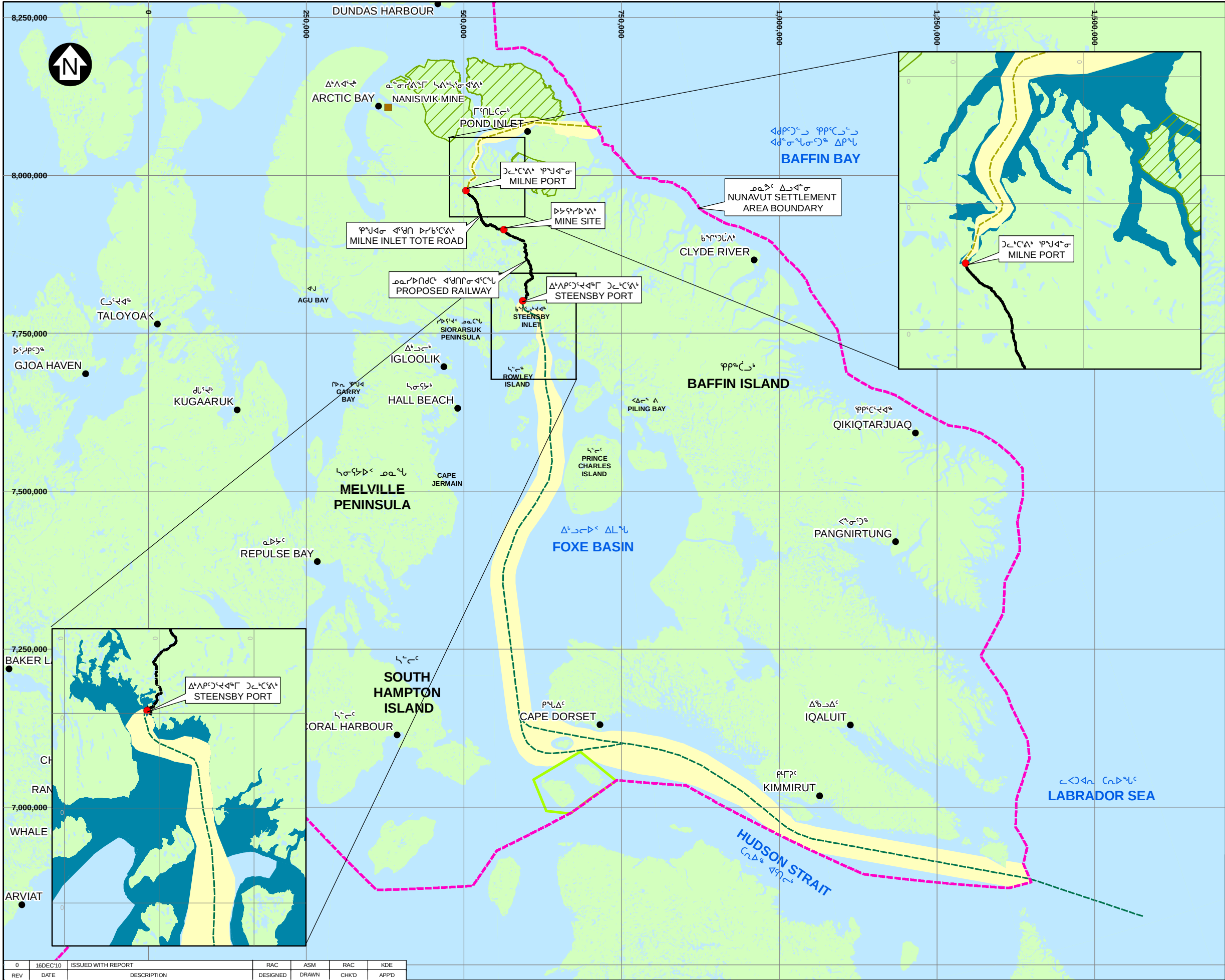


APPENDIX 1A

KEY FIGURES

Figure 2-1.1	Communities in the Vicinity of the Mary River Project
Figure 3-1.1	Project Location Map
Figure 3-1.2	Location of Project Activities
Figure 3-2.1	Milne Port Layout
Figure 3-2.2	Milne Inlet Tote Road
Figure 3-2.3	Mine Site Layout
Figure 3-2.4	Railway Layout Construction Phase
Figure 3-2.5	Railway Construction Potential Development Area (Sheet 1 of 4)
Figure 3-2.6	Railway Construction Potential Development Area (Sheet 2 of 4)
Figure 3-2.7	Railway Construction Potential Development Area (Sheet 3 of 4)
Figure 3-2.8	Railway Construction Potential Development Area (Sheet 4 of 4)
Figure 3-2.9	Steensby Port Layout
Figure 3-3.1	Road Operation Process Flow Diagram Milne Port
Figure 3-3.2	Road Operation - Example Ore Truck
Figure 3-3.3	Road Operation Process Flow Diagram - Mine Site
Figure 3-3.4	Railway Operation Overall Process Flow Diagram
Figure 3-3.7	Example Railway Locomotive and Ore Car
Figure 3-3.9	Ice Breaking Ore Carrier - Conceptual Design
Figure 3-6.1	Transportation Route Alternatives
Figure 3-6.5	Alternative Rail Routes Between Mine Site and Steensby Port

SAVED: I:\1102001\B125\ANG\IS\AcView\figures\B1.05_10.mxd; Dec. 21, 2010 9:36:56 AM amoor



Legend:

- COMMUNITY
- NANISIVIK MINE (DECOMMISSIONED)
- MILNE INLET TOTE ROAD
- PROPOSED RAILWAY ALIGNMENT
- NUNAVUT SETTLEMENT AREA BOUNDARY
- NOMINAL SHIPPING ROUTE - YEAR-ROUND
- NOMINAL SHIPPING ROUTE - OPEN WATER SHIPPING ONLY
- AREA OF EQUAL USE AND OCCUPANCY
- NUNAVUT AND NUNAVIK
- PROBABLE EXTENT OF YEAR-ROUND SHIPPING
- WATER
- SIRMILUK NATIONAL PARK
- MAXIMUM EXTENT OF LANDFAST ICE (SEE NOTE 3)

Notes:

- BASE MAP: © HER MAJESTY THE QUEEN IN RIGHTS OF CANADA, DEPARTMENT OF NATURAL RESOURCES (2004). ALL RIGHTS RESERVED.
- COORDINATE GRID IS SHOWN IN UTM (NAD83) ZONE 17 AND IS IN METRES.
- ICE EXTENTS: CANADIAN ICE SERVICE

Scale: 50 25 0 50 100 150 200 250 km

BAFFINLAND IRON MINES CORPORATION

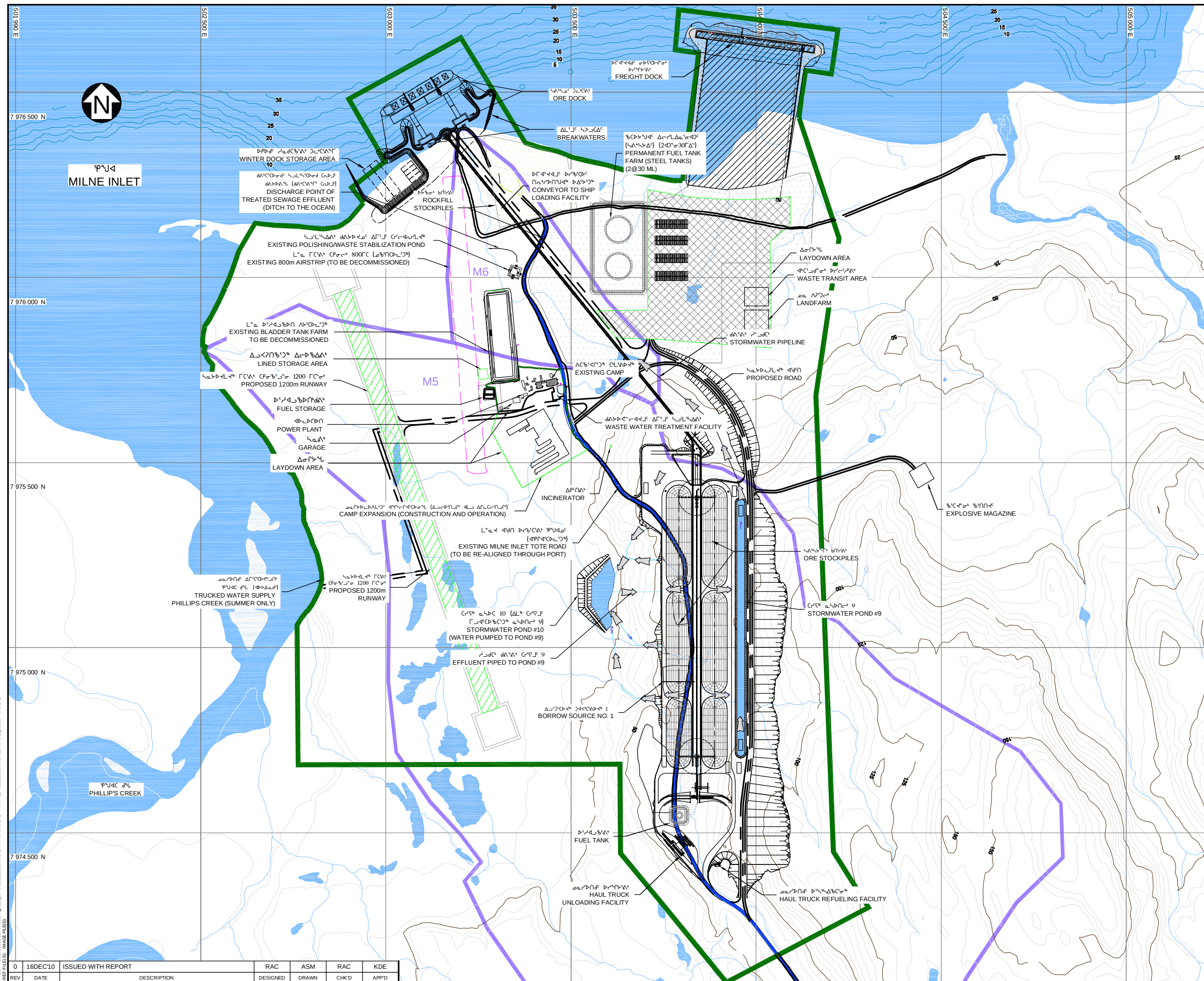
MARY RIVER PROJECT

PROJECT LOCATION MAP

Knight Piésold CONSULTING

PIA NO. NB102-181/25	REF NO. 8
FIGURE	3-1.1

0	16DEC10	ISSUED WITH REPORT	RAC	ASM	RAC	KDE
REV	DATE	DESCRIPTION	DESIGNED	DRAWN	CHK'D	APP'D



ACCT 1010	
CR	DR
20.129	269.487

POTENTIAL DEVELOPMENT AREA (ha)	
MARINE	LAND
20,129	269,487

LEGEND:

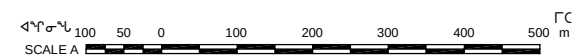
-  Δf°
 WATER
 $\Delta \sigma f^{\circ}$
 LAYDOWN AREA
 σf°
 RIVER/STREAM/DRAINAGE
 σf°
 MILNE INLET TOTE ROAD
 σf°
 POTENTIAL DEVELOPMENT AREA
 σf°
 CATCHMENT AREA
 σf°
 FLOW DIRECTION

$${}^{\circ}\mathbf{b} \triangleright \mathbf{L} \mathbf{L}^{\circ} \mathbf{L} \Delta^{\circ}$$

1. ዴቪዲዮ ላይ ያለው EAGLE MAPPING (2005)
2. ዴቪዲዮ በባህር ዳር ለውጥ UTM (NAD83) ZONE 17
3. በባህር ዳር ለውጥ የፍልጣጣን 5 ርዕስ
4. ኢሳኤል ምርመራ ለውጥ በባህር ዳር AMEC-ድምር A1-165926-000-121-0900, A1-165926-7000-121-6AD-0100.
5. የፍልጣጣን ምርመራ ለውጥ Enterprises Normand Inneun Inc. ሪፖርት 9. 2010

NOTES:

1. TOPOGRAPHY PROVIDED BY EAGLE MAPPING (2005).
2. COORDINATE GRID IS SHOWN IN UTM (NAD83) ZONE 17 AND IS IN METRES.
3. CONTOURS ARE IN METRES. CONTOUR INTERVAL IS 5 METRES.
4. SITE INFRASTRUCTURE PROVIDED BY AMEC DRAWING NO. A1-165926-000-121-0900, A1-165926-7000-121-GAD-0100.
5. CONTOURED BATHYMETRY PROVIDED BY ENTERPRISES NORMAND JEUANEU INC., DATED SEPTEMBER 9, 2010 (CONTOUR INTERVAL 1m).



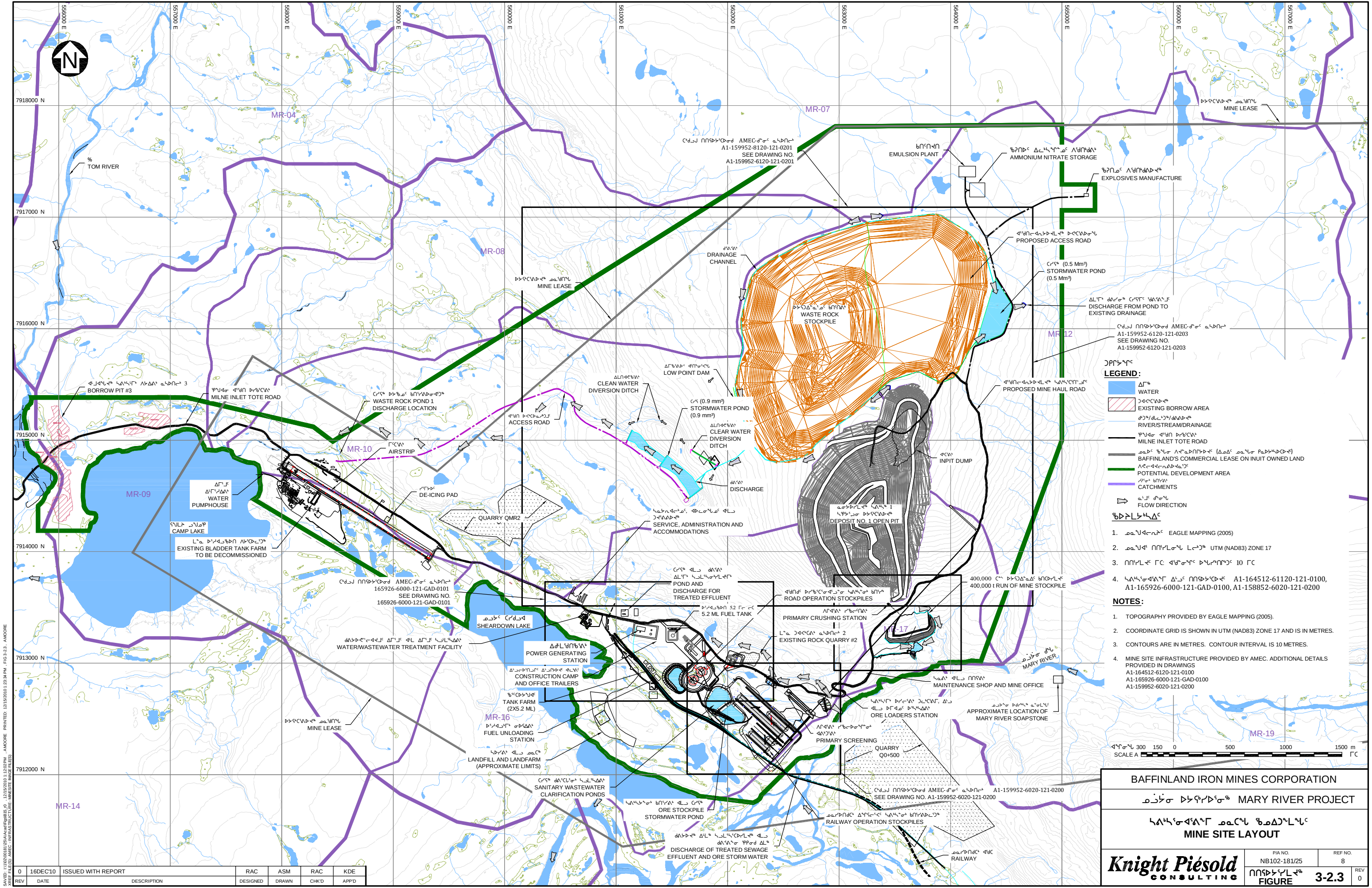
BAFFINLAND IRON MINES CORPORATION

ᑭᓪᓂᐃ ᑲᓕᑦᒃᑯᑦᑭᓪᓂᐃ MARY RIVER PROJECT

**မိုလ်ပုတ်လေ့
MILNE PORT LAYOUT**

Knight Piésold
CONSULTING

P/A NO. NB102-181/25	REF NO. 8
	3-2.1



LEGEND:

- Water
- Existing Borrow Area
- River/Stream/Drainage
- Milne Inlet Tote Road
- Baffinland's Commercial Lease on Inuit Owned Land
- Potential Development Area
- Catchments
- Flow Direction

NOTES:

- Topography provided by Eagle Mapping (2005).
- Coordinate grid is shown in UTM (NAD83) Zone 17 and is in metres.
- Contours are in metres. Contour interval is 10 metres.
- Mine site infrastructure provided by AMEC. Additional details provided in drawings A1-164512-6120-121-0100, A1-165926-6000-121-GAD-0100, A1-159952-6020-121-0200.

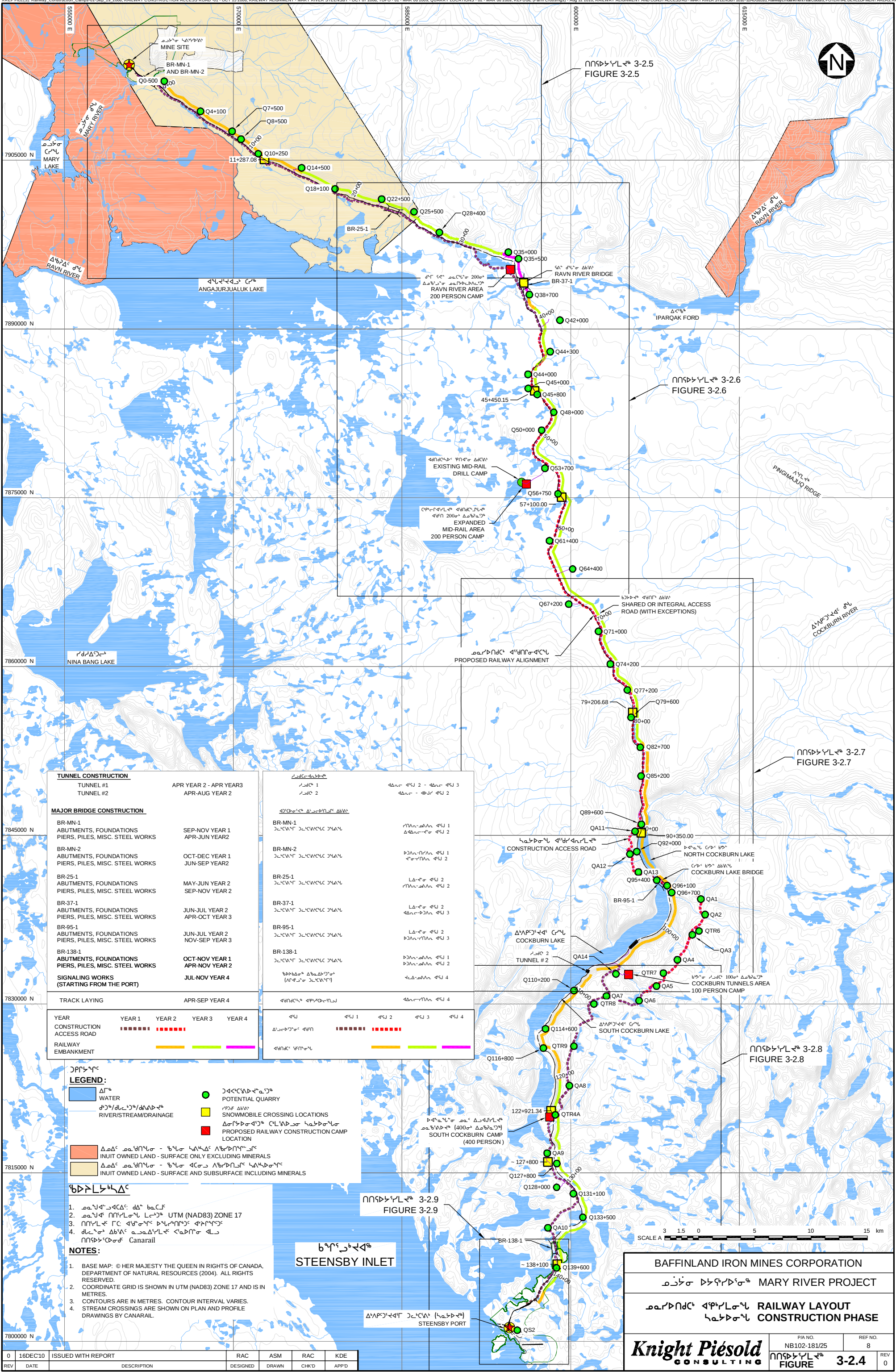
BAFFINLAND IRON MINES CORPORATION

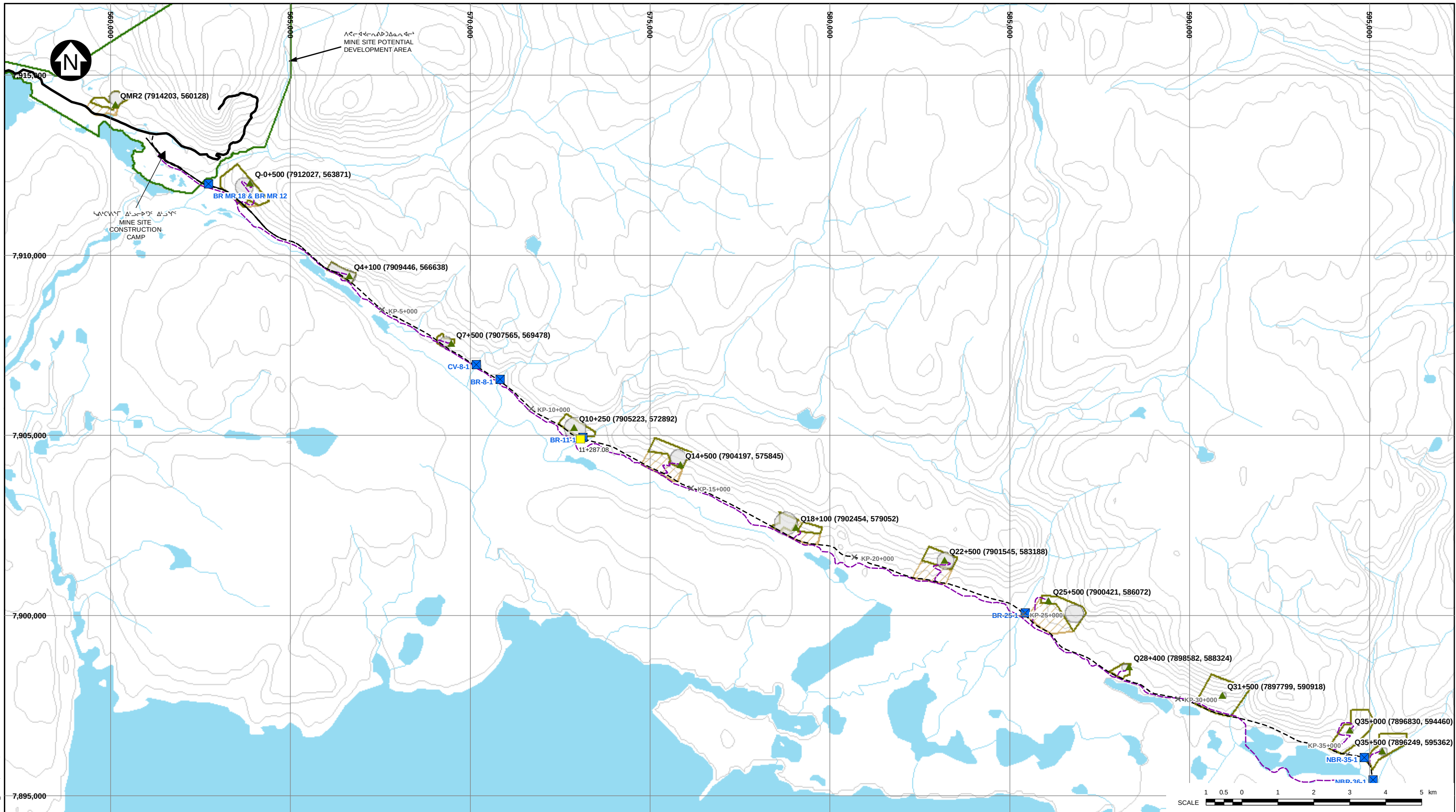
MARY RIVER PROJECT

MINE SITE LAYOUT

Scale: 1:50,000

REV	DATE	DESCRIPTION	DESIGNED	DRAWN	CHK'D	APP'D
0	16DEC10	ISSUED WITH REPORT	RAC	ASM	RAC	KDE





LEGEND:

	WATER		QUARRY SITE
	RIVER/STREAM/DRAINAGE		EXISTING CAMP LOCATION
	PROPOSED QUARRY LEASE BOUNDARY AREA		POTENTIAL RAILWAY CONSTRUCTION CAMP LOCATION
	AREA OF POTENTIAL ACCESS (PRELIMINARY)		SNOWMOBILE CROSSING LOCATION
	POTENTIAL DEVELOPMENT AREA		EXPECTED QUARRY FOOTPRINT (ASSUMED 1-10 m BENCH QUARRY)

NOTES:

- BASE MAP 1:250,000 © HER MAJESTY THE QUEEN IN RIGHTS OF CANADA, DEPARTMENT OF NATURAL RESOURCES (2004).
- COORDINATE GRID IS SHOWN IN UTM (NAD83) ZONE 17 AND IS IN METRES.
- CONTOURS ARE IN METRES. CONTOUR INTERVAL VARIES.
- RAILWAY ALIGNMENT PROVIDED BY CANARAIL CONSULTANTS INC. (AUGUST 12, 2010).
- THE RAILWAY AND CONSTRUCTION ACCESS ROAD PRELIMINARY DESIGNS, INCLUDING THE LOCATION OF ALL WATERCOURSE CROSSINGS, ARE PRESENTED AS PLAN AND PROFILE DRAWINGS BY CANARAIL IN VOLUME 3 APPENDICES.

0 **16DEC10** **ISSUED WITH REPORT**

REV	DATE	DESCRIPTION	RAC	ASM	RAC	KDE
			DESIGNED	DRAWN	CHK'D	APP'D

BAFFINLAND IRON MINES CORPORATION

MARY RIVER PROJECT

RAILWAY CONSTRUCTION

POTENTIAL DEVELOPMENT AREA

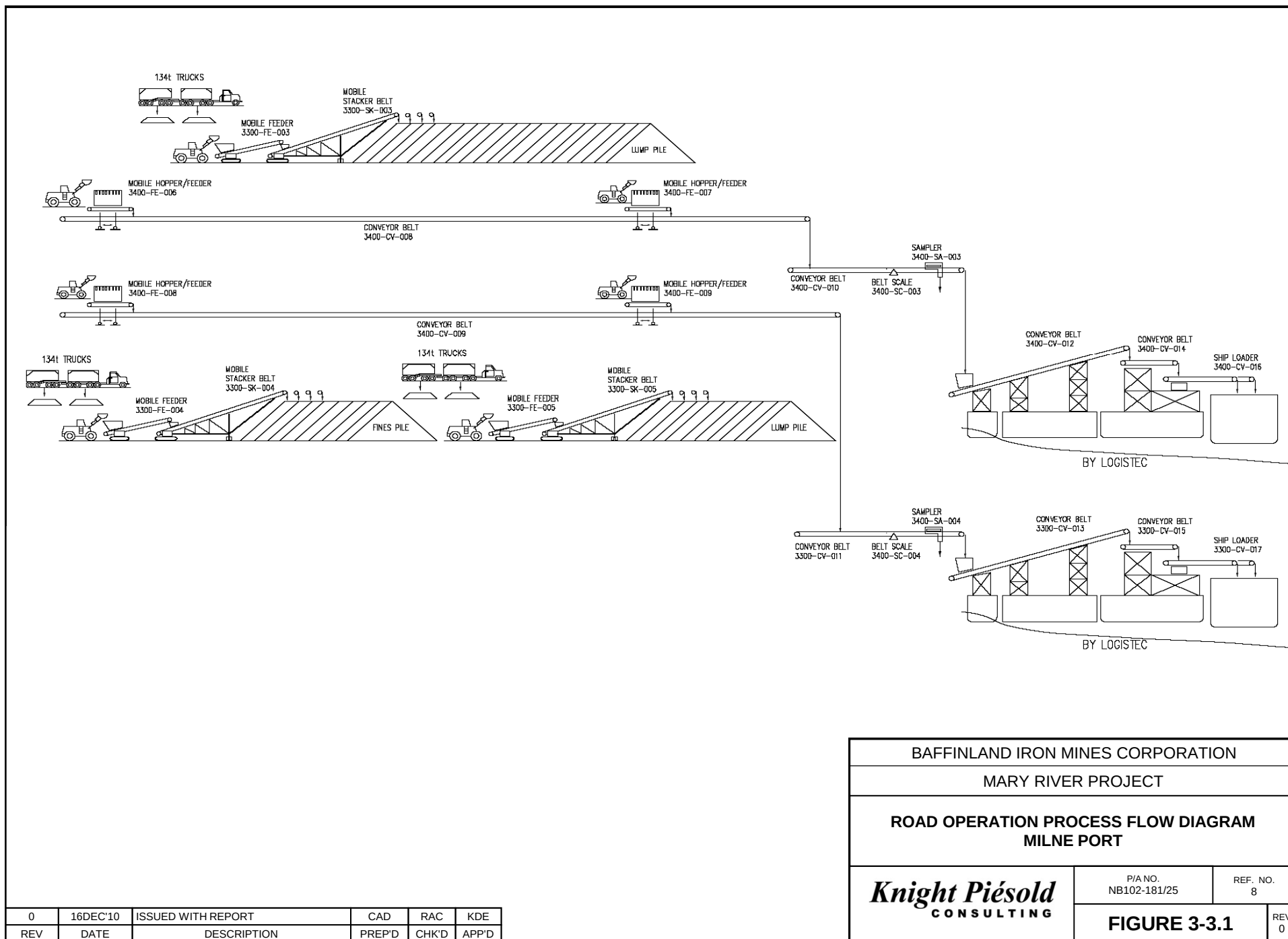
(SHEET 1 OF 4)

P/A NO. NB102-181/25

REF. NO. 8

FIGURE **3-2.5**

REV 0





BAFFINLAND IRON MINES CORPORATION

MARY RIVER PROJECT

ROAD OPERATION
EXAMPLE ORE TRUCK

Knight Piésold
CONSULTING

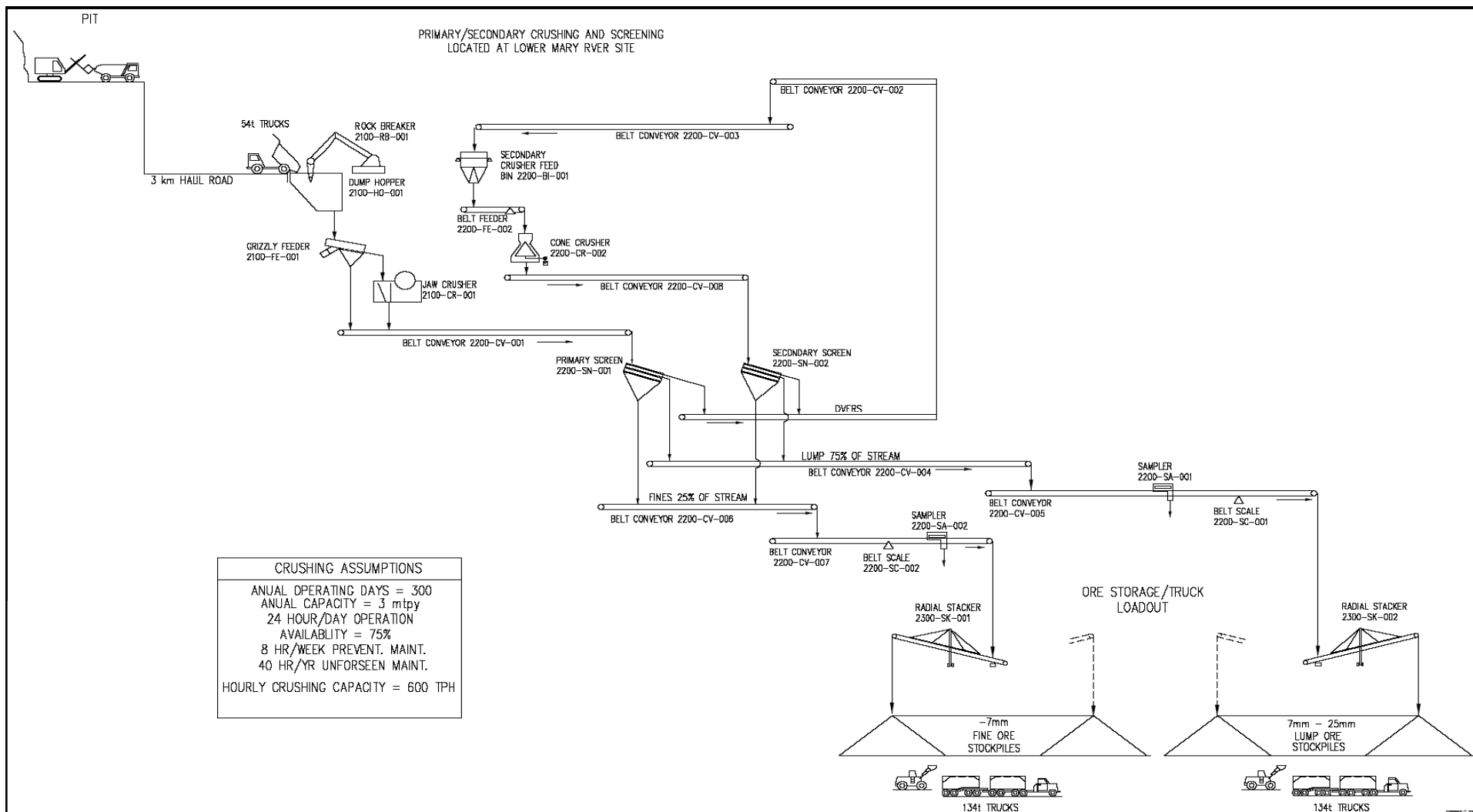
P/A NO.
NB102-181/25

REF. NO.
8

FIGURE 3-3.2

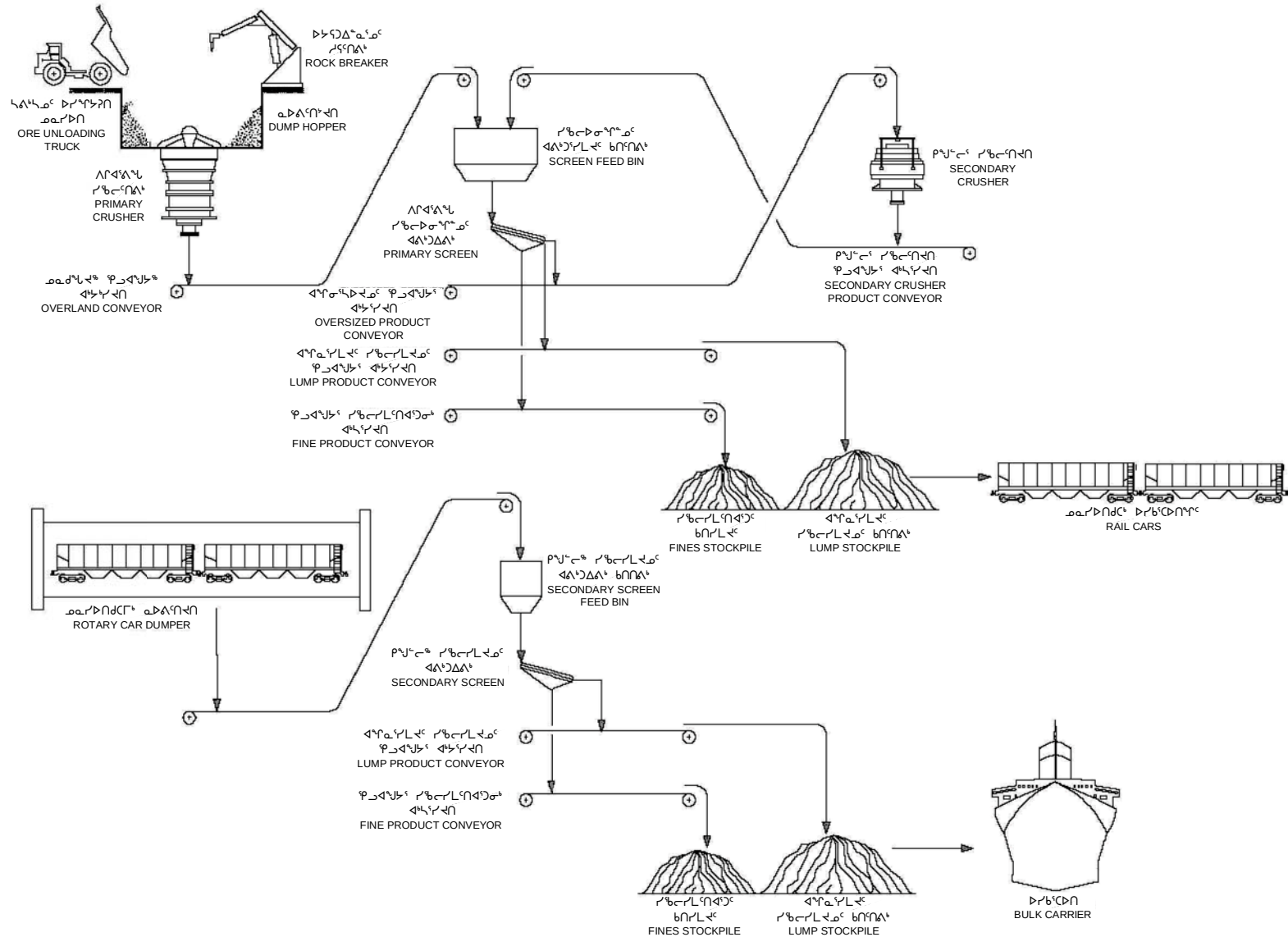
REV
0

0	16DEC'10	ISSUED WITH REPORT	RAC	MTP	WAN
REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D



BAFFINLAND IRON MINES CORPORATION	
MARY RIVER PROJECT	
ROAD OPERATION PROCESS FLOW DIAGRAM MINE SITE	
	P/A NO. NB102-181/25
	REF. NO. 8
FIGURE 3-3.3	
REV 0	

0	16DEC'10	ISSUED WITH REPORT	CAD	RAC	KDE
REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D



BAFFINLAND IRON MINES CORPORATION			
MARY RIVER PROJECT			
መደበኛ ልማት ልማት RAILWAY OPERATION OVERALL PROCESS FLOW DIAGRAM			
Knight Piésold CONSULTING		PIA NO. NB102-181/25	REF NO. 8
FIGURE 3-3.4			REV 0

REV	DATE	DESCRIPTION	DESIGNED	DRAWN	CHK'D	APP'D
0	16DEC10	ISSUED WITH REPORT	RAC	ASM	RAC	KDE



BAFFINLAND IRON MINES CORPORATION

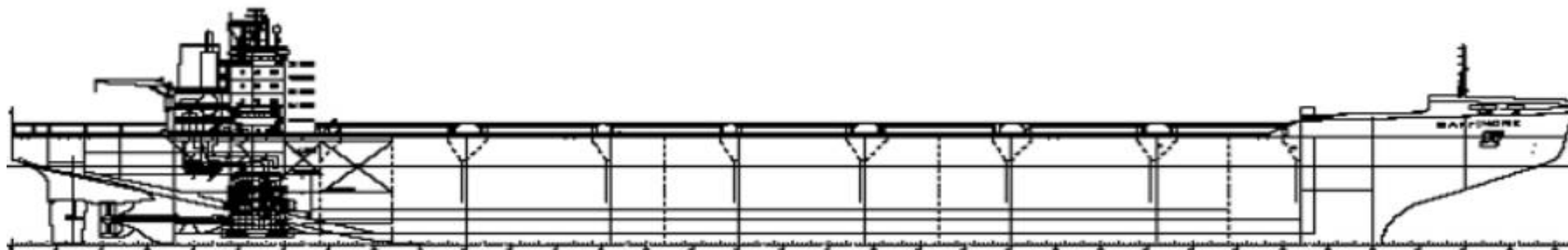
MARY RIVER PROJECT

EXAMPLE RAILWAY LOCOMOTIVE AND ORE CAR

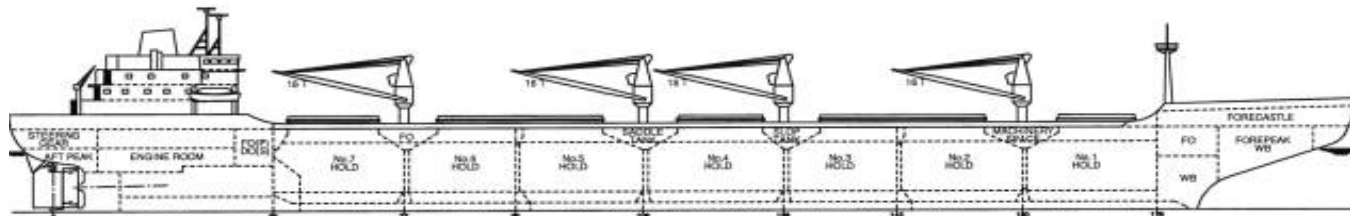
Knight Piésold
CONSULTINGP/A NO.
NB102-181/25REF. NO.
8**FIGURE 3-3.7**REV
A

0	16DEC'10	ISSUED WITH REPORT	RAC	RAC	MTP
REV	DATE	DESCRIPTION	PREP'D	CHK'	APP'D

Proposed ±190,000 DWT Capacity Ice-breaker



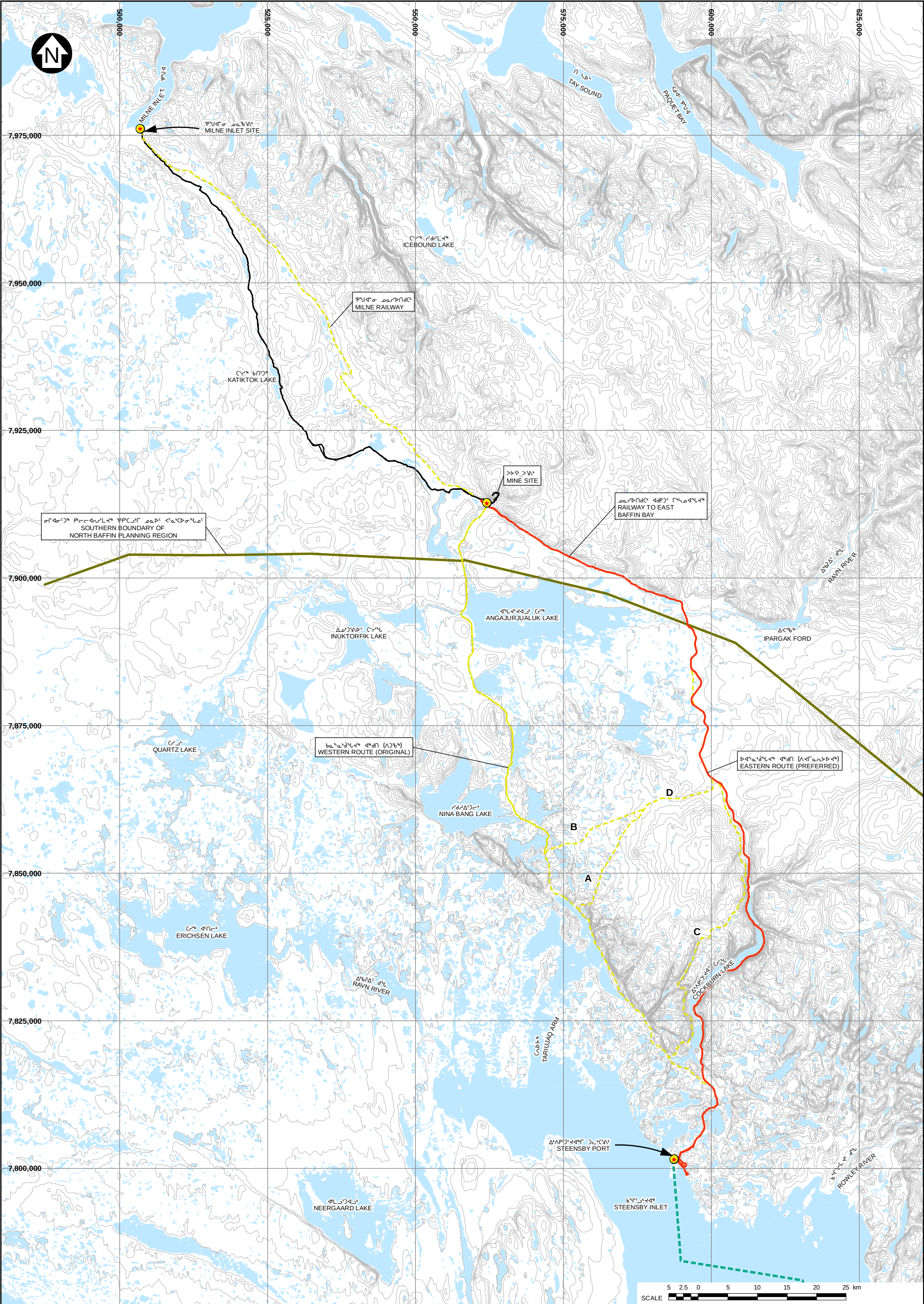
28,000 DWT Capacity MV Arctic (Owned and Operated by Fednav)



	<i>Mary River</i>	<i>MV Arctic</i>	<i>Difference</i>
Length Overall (m)	329.0	220.8	149%
Beam (m)	52.0	22.9	127%
Depth (m)	27.0	15.2	78%
Draft (m)	20.0	11.5	74%
Displacement (mt)	248,000	41,300	500%
Ore Cargo (mt)	±190,000	28,500	595%

BAFFINLAND IRON MINES CORPORATION		
MARY RIVER PROJECT		
ICE BREAKING ORE CARRIER CONCEPTUAL DESIGN		
<i>Knight Piésold</i> CONSULTING	P/A NO. NB102-181/25	REF. NO. 8
	FIGURE 3-3.9	
		REV A

0	16DEC'10	ISSUED WITH REPORT	CAD	RAC	KDE
REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D



LEGEND:

- RIVER/STREAM/DRAINAGE
- EXISTING MILNE INLET TOTE ROAD
- PROPOSED RAILWAY ALIGNMENT
- RAILWAY ALIGNMENT ALTERNATIVES
- SOUTHERN BOUNDARY OF NORTH BAFFIN PLANNING REGION
- WATER

NOTES:

- BASE MAP: © HER MAJESTY THE QUEEN IN RIGHTS OF CANADA, DEPARTMENT OF NATURAL RESOURCES (2004). ALL RIGHTS RESERVED.
- COORDINATE GRID IS SHOWN IN UTM (NAD83) ZONE 17 AND IS IN METRES.
- CONTOUR INTERVAL VARIES. CONTOUR INTERVAL IS IN METRES.
- PROPOSED RAIL ALIGNMENT PROVIDED BY CANARAIL OCTOBER 2008.

BAFFINLAND IRON MINES CORPORATION

MARY RIVER PROJECT

Alternative Rail Routes between Mine Site and Steensby Port

Knight Piésold

CONSULTING

P/A NO.
NB102-181/25

REF NO.
8

FIGURE 3-6.5

REV
0

SAVED: I:\31020018125A\GIS\ArcView\figures\B1.07 -0.mxd; Dec 22, 2010 1:45:35 PM ammore