Hamlet of Tuktoyaktuk, Town of Inuvik
Government of Northwest Territories

ISSUED FOR USE

ERRATUM IN SUPPLEMENTAL CUMULATIVE EFFECTS ASSESSMENT ANALYSIS ENVIRONMENTAL IMPACT REVIEW BOARD FOR CONSTRUCTION OF THE INUVIK TO TUKTOYAKTUK HIGHWAY, NWT

EIRB FILE NO. 02/10-05

September 12, 2012

The Developer transmitted to the EIRB (on September 4, 2012) a series of figures depicting potential areas within which residual effects may occur (conservatively set at 1 km around all past and proposed projects assessed), and a complementary series of tables which summarize the estimated area of each type of vegetation cover (based on the EOSD land cover classes developed by the Canadian Forest Service – Wulder et al. 2004).

This erratum is filed to adjust information presented in the figures and tables to reflect the current configuration of the primary borrow sources.

The list of updated figures and tables is shown below. Please note that the term "zone of influence" used in the figures and tables is defined in this document to mean the area in which residual effects may occur.

Figures

Figure 1: 1 km Zone of Influence of Past and Proposed Future Projects Assessed in the Cumulative Effects Study Area.

Figure 2: Boreal Caribou Northern Range Relative to the 1 km Zone of Influence of Past and Proposed Future Projects Assessed in the Cumulative Effects Study Area.

Figure 3: Winter Caribou Observations and Herd Ranges (December to March 31)

Figure 4: Spring, Spring Migration and Pre-Calving Caribou Observations and Herd Ranges (April 1 to May 31)

Figure 5: Calving/Post Calving Caribou Observations and Herd Ranges (June 1 to 25)

Figure 6: Early Summer Caribou Observations and Herd Ranges (June 26 to July 15)

Figure 7: Mid Summer Caribou Observations and Herd Ranges (July 16 to August 7)

Figure 8: Late Summer Caribou Observations and Herd Ranges (August 8 to October 7)

Figure 9: Fall/Rut Caribou Observations and Herd Ranges (October 8 to 31)

Figure 10: Fall/Post Rut Caribou Observations and Herd Ranges (November 1 to 30)

Figure 11: Grizzly and Polar Bear Denning Areas

Tables

FIGURES

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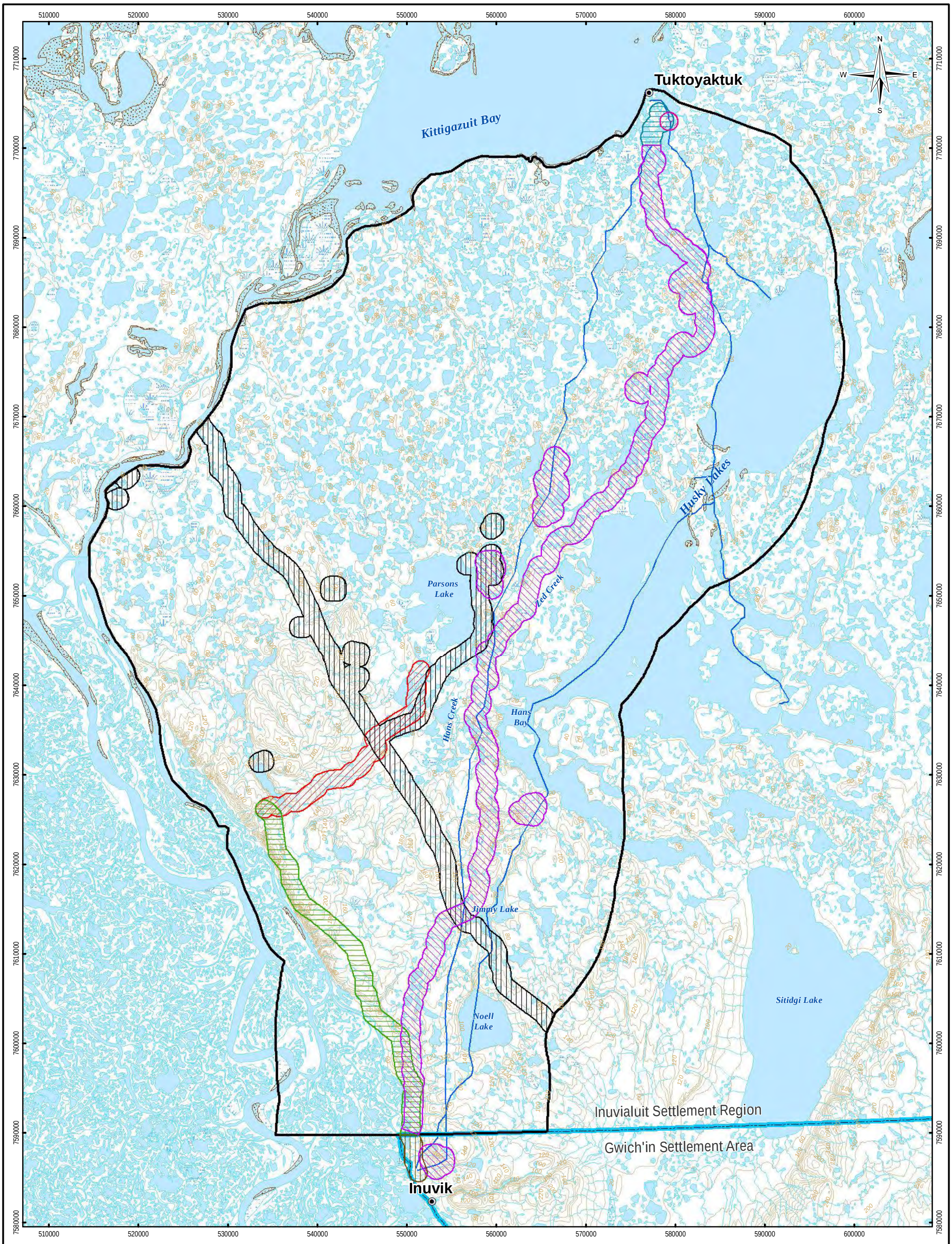

LEGEND

- Zone of Influence (1 km buffer)
- Preferred Route (Alternative 3)
- Mackenzie Gas Project
- IKHIL Gas Pipeline
- Proposed South Parsons Lake Gas Supply Project
- Tuktoyaktuk Harbour Project
- Tuktoyaktuk to 177 Access Road
- Navy Road
- Cumulative Effects Study Area
- Gwich'in / Inuvialuit Boundary
- Snowmobile Trails
- Contour
- Watercourse
- Waterbody
- Wetland
- Sand

NOTES
1. Zone of Influence was determined by a 1 km buffer on either side of the respective project footprint.
2. Alternative 3 buffer includes the alignment and the primary borrow sources.
3. Mackenzie Gas Project buffer includes the pipeline, MGP infrastructure and MGP borrow sources.
4. Tuktoyaktuk Harbour Project location is approximate.
5. The pipeline route of the Proposed South Parsons Lake Gas Supply Project is approximate, based on Appendix A, Figure 1 of the EIA (2012).
6. The former NCPC power pole (removed) is not shown.
7. Some buffer areas overlap, as noted by the cross-hatching.
8. Base data source: NTS 1:250,000

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PROPOSED INUVIK-TUKTOYAKTUK HIGHWAY

1 km Zone of Influence of Past and Proposed Future Projects Assessed in the Cumulative Effects Study Area

PROJECTION	DATUM
UTM Zone 8	NAD83

Scale: 1:400,000
5 2.5 0 5 10
Kilometres

FILE NO.
V23201322_CEA_Map001_OverviewZOI.mxd

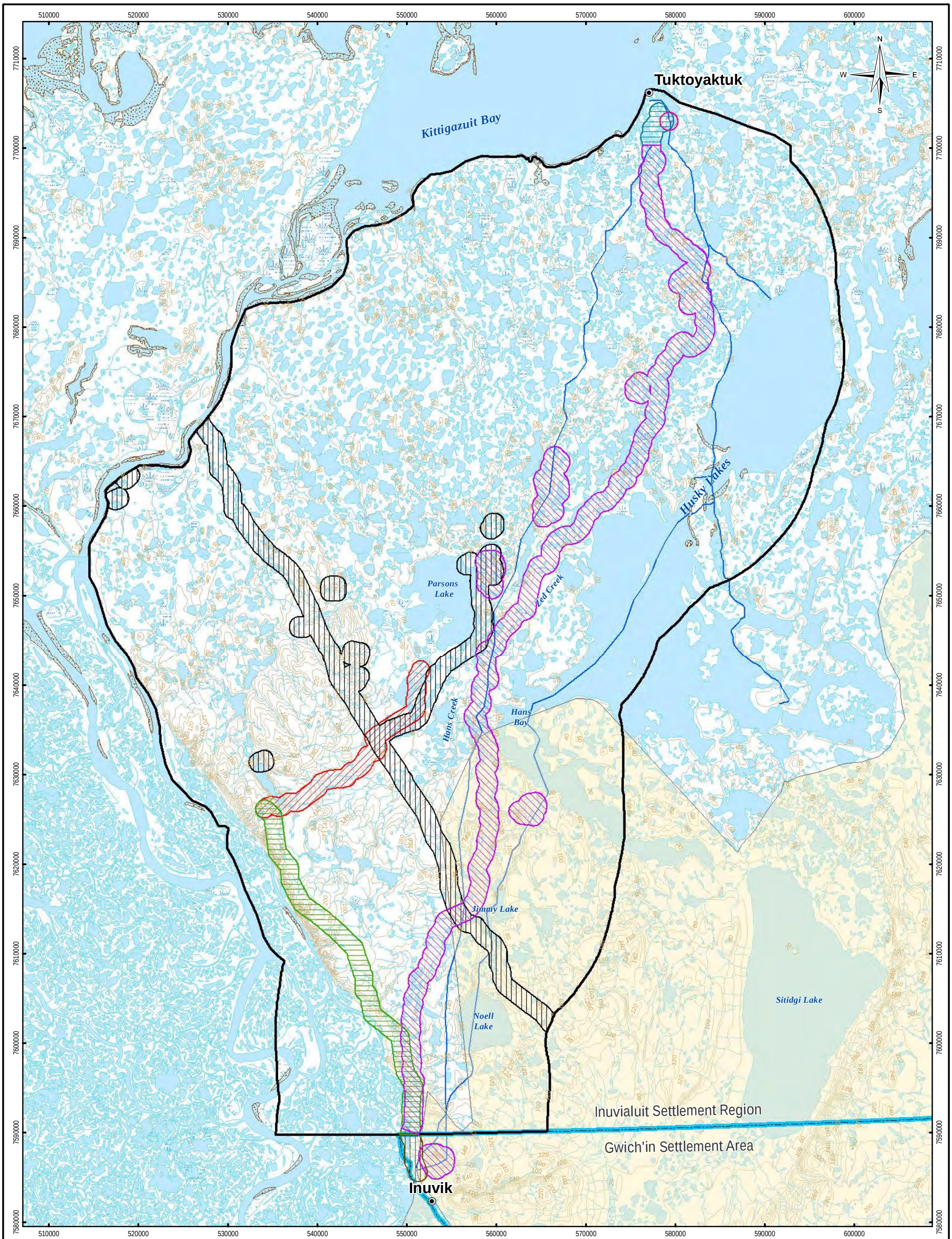
PROJECT NO.	DWN	CKD	REV
V23201322	SL	TS	0

OFFICE	DATE
EBA-VANC	September 12, 2012

Town of Inuvik
Northwest Territories
KIGGIAK - EBA

Figure 1

Q:\Vancouver\GIS\ENVIRONMENTAL\V232\V23201322_TukRoad_EIS\Maps\CEA\V23201322_CEA_Map002_BorealCaribou.mxd modified 9/12/2012 by stephanie.leusink



LEGEND

- Boreal Caribou Northern Range
- Zone of Influence (1 km buffer)
- Preferred Route (Alternative 3)
- Mackenzie Gas Project
- IKHIL Gas Pipeline
- Proposed South Parsons Lake Gas Supply Project
- Tuktoyaktuk Harbour Project
- Tuktoyaktuk to 177 Access Road
- Navy Road
- Cumulative Effects Study Area
- Gwich'in / Inuvialuit Boundary
- Snowmobile Trails
- Contour
- Watercourse
- Waterbody
- Wetland
- Sand

NOTES
1. For Zone of Influence notes, please see Figure 1, Notes 1-7.
2. Boreal Caribou Northern Range from NWT Species at Risk Committee Draft. March 2012.
3. Base data source: NTS 1:250,000

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PROPOSED INUVIK-TUKTOYAKTUK HIGHWAY

Boreal Caribou Northern Range Relative to 1 km Zone of Influence of Past and Proposed Future Projects Assessed in the Cumulative Effects Study Area

PROJECTION	DATUM
UTM Zone 8	NAD83

Scale: 1:400,000
5 2.5 0 5 10
Kilometres

FILE NO.
V23201322_CEA_Map002_BorealCaribou.mxd

PROJECT NO.	DWN	CKD	REV
V23201322	SL	TS	0

OFFICE	DATE
EBA-VANC	September 12, 2012

Town of Inuvik
Northwest Territories
KIGGIAK - EBA

Figure 2

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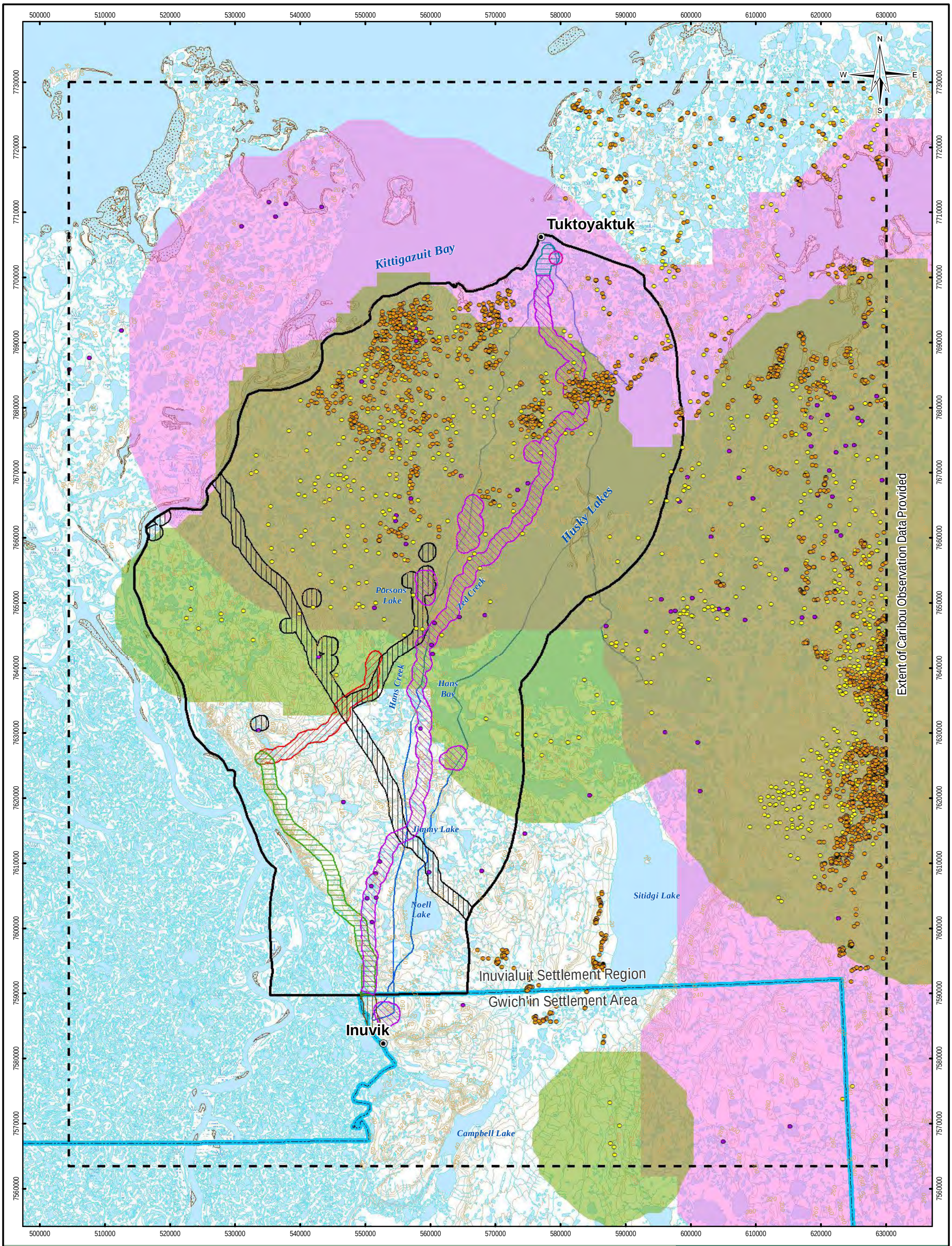

LEGEND

- Bluenose West Herd
- Cape Bathurst Herd
- Both Herds

Barren-ground Caribou Observations

- GPS Telemetry
- Satellite Telemetry
- Spring Composition Surveys
- Extent of Caribou Observation Data

Zone of Influence (1 km buffer)

- Preferred Route (Alternative 3)
- Mackenzie Gas Project
- IKHIL Gas Pipeline
- Proposed South Parsons Lake Gas Supply Project
- Tuktoyaktuk Harbour Project
- Tuktoyaktuk to 177 Access Road
- Navy Road

- Cumulative Effects Study Area
- Gwich'in / Inuvialuit Boundary
- Snowmobile Trails
- Contour
- Watercourse
- Waterbody
- Wetland
- Sand

NOTES

1. For Zone of Influence notes, please see Figure 1, Notes 1-7.
2. Caribou Herd Ranges: GNWT ENR, February 2011.
3. Caribou Observations: GNWT ENR 2011. NWT Wildlife Management Information System (Projects 02, 44 & 46).
4. Base data source: NTS 1:250,000

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PROPOSED INUVIK-TUKTOYAKTUK HIGHWAY

Winter Caribou Observations and Herd Ranges (December 1 to March 31)

PROJECTION: UTM Zone 8	DATUM: NAD83
Scale: 1:550,000 (5 2.5 0 5 10 15 Kilometres)	
FILE NO.: V23201322_CEA_Map003_CaribouWinter.mxd	
PROJECT NO.: V23201322	DWN: SL / CKD: TS / REV: 0
OFFICE: EBA-VANC	DATE: September 12, 2012

Figure 3

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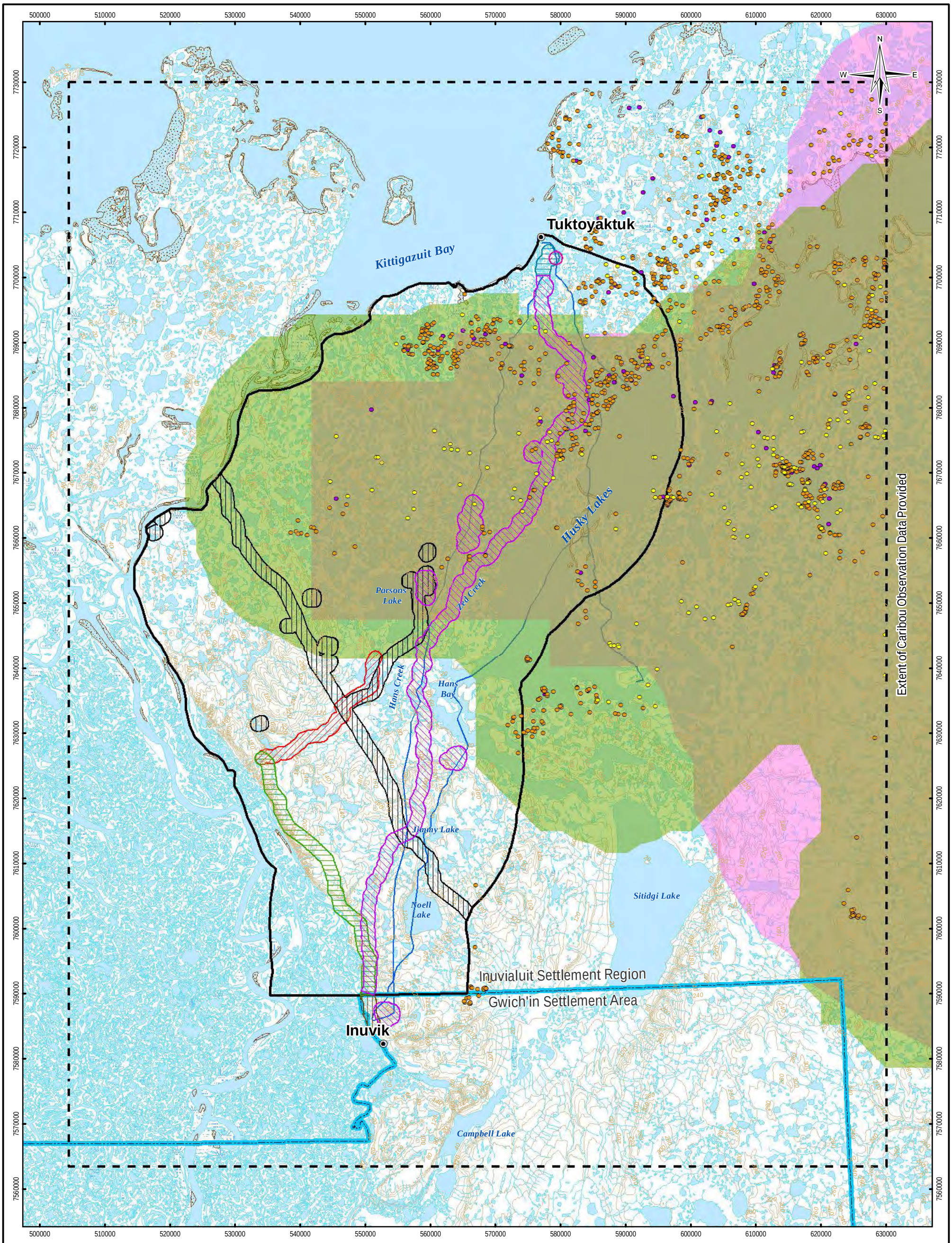

LEGEND

- Bluenose West Herd
- Cape Bathurst Herd
- Both Herds

Barren-ground Caribou Observations

- GPS Telemetry
- Satellite Telemetry
- Spring Composition Surveys
- Extent of Caribou Observation Data

Zone of Influence (1 km buffer)

- Preferred Route (Alternative 3)
- Mackenzie Gas Project
- IKHIL Gas Pipeline
- Proposed South Parsons Lake Gas Supply Project
- Tuktoyaktuk Harbour Project
- Tuktoyaktuk to 177 Access Road
- Navy Road

- Cumulative Effects Study Area
- Gwich'in / Inuvialuit Boundary
- Snowmobile Trails
- Contour
- Watercourse
- Waterbody
- Wetland
- Sand

NOTES

1. For Zone of Influence notes, please see Figure 1, Notes 1-7.
2. Caribou Herd Ranges: GNWT ENR, February 2011.
3. Caribou Observations: GNWT ENR 2011. NWT Wildlife Management Information System (Projects 44, 46, 133 & 191).
4. Base data source: NTS 1:250,000

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Spring, Spring Migration and Pre-Calving Caribou Observations and Herd Ranges (April 1 to May 31)

PROJECTION	DATUM
UTM Zone 8	NAD83

Scale: 1:550,000

10 5 0 10

Kilometres

FILE NO. V23201322_CEA_Map004_CaribouSpring.mxd

PROJECT NO.	DWN	CKD	REV
V23201322	SL	TS	0

OFFICE	DATE
EBA-VANC	September 12, 2012

Figure 4

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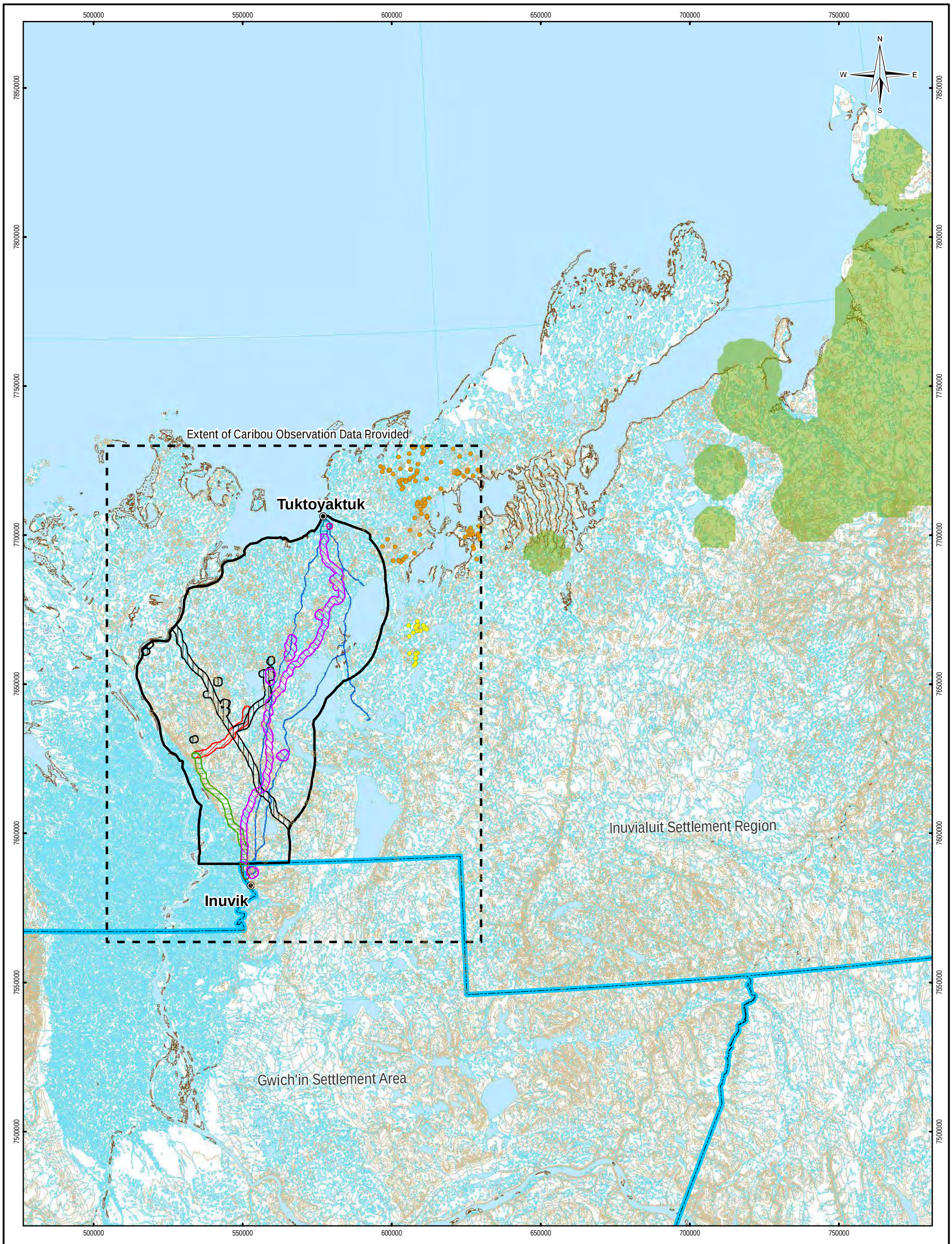

LEGEND

- Cape Bathurst Herd
- Barren-ground Caribou Observations
  - GPS Telemetry
  - Satellite Telemetry
  - Extent of Caribou Observation Data
- Zone of Influence (1 km buffer)
  - Preferred Route (Alternative 3)
  - Mackenzie Gas Project
  - IKHIL Gas Pipeline
  - Proposed South Parsons Lake Gas Supply Project
  - Tuktoyaktuk Harbour Project
  - Tuktoyaktuk to 177 Access Road
  - Navy Road
- Cumulative Effects Study Area
- Gwich'in / Inuvialuit Boundary
- Snowmobile Trails
- Contour
- Watercourse
- Waterbody
- Wetland
- Sand

NOTES
1. For Zone of Influence notes, please see Figure 1, Notes 1-7.
2. Caribou Herd Ranges: GNWT ENR, February 2011.
3. Caribou Observations: GNWT ENR 2011. NWT Wildlife Management Information System (Projects 44 & 46).
4. Base data source: NTS 1:250,000

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PROPOSED INUVIK-TUKTOYAKTUK HIGHWAY

Calving/Post Calving Caribou Observations and Herd Ranges (June 1 to 25)

PROJECTION: UTM Zone 8	DATUM: NAD83
Scale: 1:1,200,000 (20 10 0 20 Kilometres)	
FILE NO.: V23201322_CEA_Map005_CaribouCalving.mxd	
PROJECT NO.: V23201322	DWN: SL / CKD: TS / REV: 0
OFFICE: EBA-VANC	DATE: September 12, 2012

Figure 5

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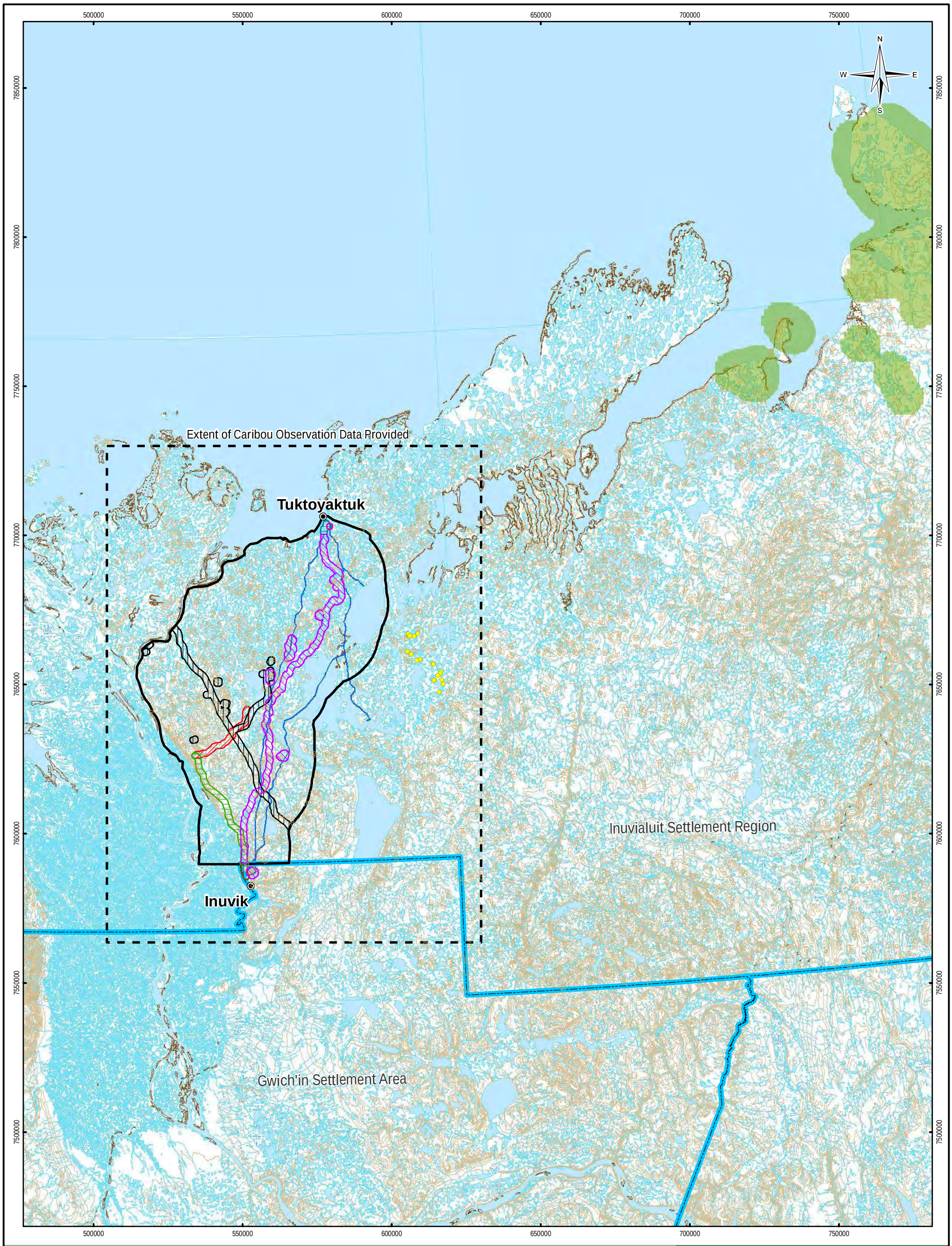

LEGEND

- Cape Bathurst Herd
- Barren-ground Caribou Observations
  - Satellite Telemetry
  - Extent of Caribou Observation Data
- Zone of Influence (1 km buffer)
  - Preferred Route (Alternative 3)
  - Mackenzie Gas Project
  - IKHIL Gas Pipeline
  - Proposed South Parsons Lake Gas Supply Project
  - Tuktoyaktuk Harbour Project
  - Tuktoyaktuk to 177 Access Road
  - Navy Road
- Cumulative Effects Study Area
- Gwich'in / Inuvialuit Boundary
- Snowmobile Trails
- Contour
- Watercourse
- Waterbody
- Wetland
- Sand

NOTES
1. For Zone of Influence notes, please see Figure 1, Notes 1-7.
2. Caribou Herd Ranges: GNWT ENR, February 2011.
3. Caribou Observations: GNWT ENR 2011. NWT Wildlife Management Information System (Project 44).
4. Base data source: NTS 1:250,000

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PROPOSED INUVIK-TUKTOYAKTUK HIGHWAY

Early Summer Caribou Observations and Herd Ranges (June 26 to July 15)

PROJECTION: UTM Zone 8	DATUM: NAD83		
Scale: 1:1,200,000 (20 10 0 20 Kilometres)			
FILE NO.: V23201322_CEA_Map006_CaribouEarlySum.mxd			
PROJECT NO.: V23201322	DWN: SL	CKD: TS	REV: 0
OFFICE: EBA-VANC	DATE: September 12, 2012		

Figure 6

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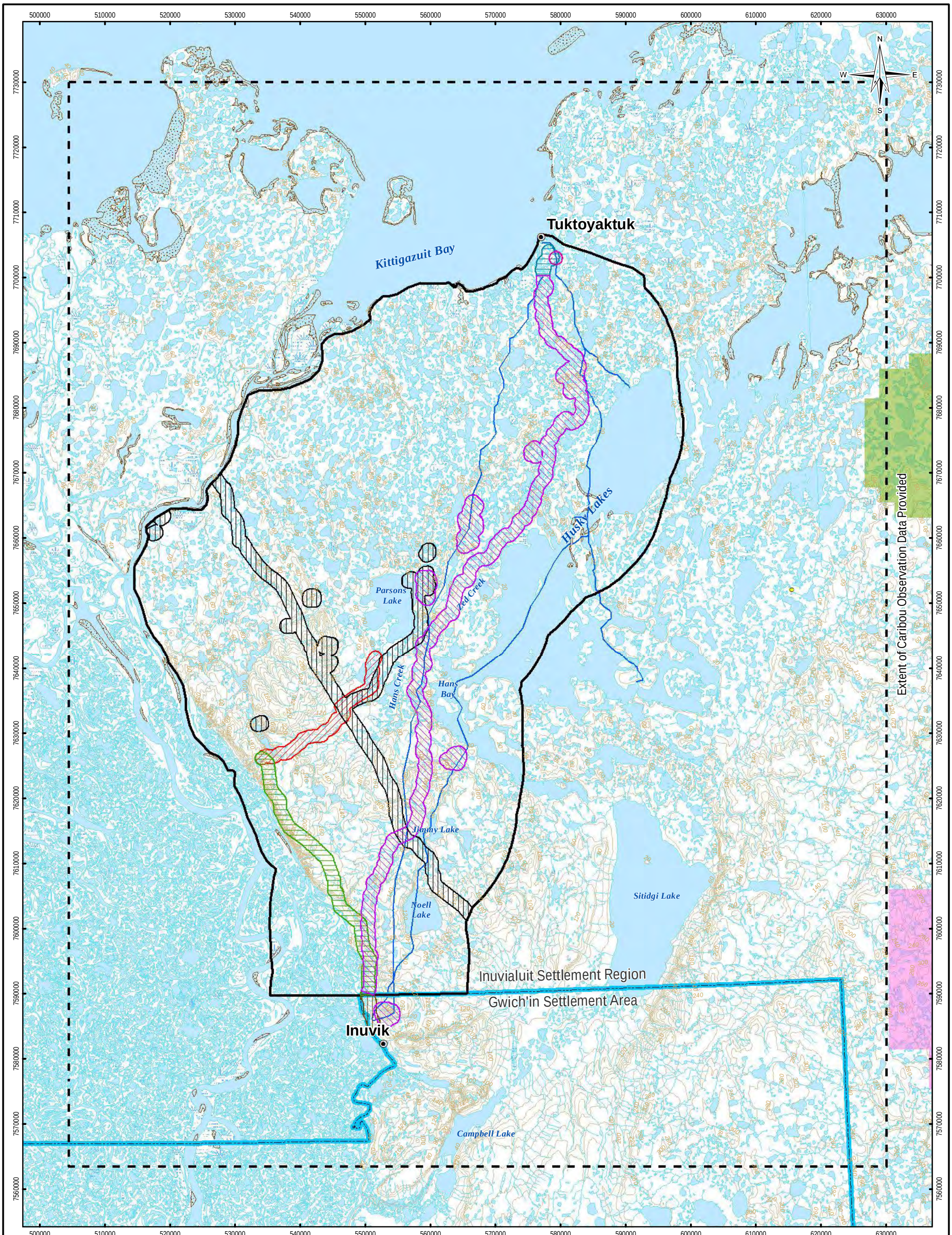

LEGEND

- Bluenose West Herd
- Cape Bathurst Herd

Barren-ground Caribou Observations

- Satellite Telemetry
- Extent of Caribou Observation Data

Zone of Influence (1 km buffer)

- Preferred Route (Alternative 3)
- Mackenzie Gas Project
- IKHIL Gas Pipeline
- Proposed South Parsons Lake Gas Supply Project
- Tuktoyaktuk Harbour Project
- Tuktoyaktuk to 177 Access Road
- Navy Road

- Cumulative Effects Study Area
- Gwich'in / Inuvialuit Boundary
- Snowmobile Trails
- Contour
- Watercourse
- Waterbody
- Wetland
- Sand

NOTES

1. For Zone of Influence notes, please see Figure 1, Notes 1-7.
2. Caribou Herd Ranges: GNWT ENR, February 2011.
3. Caribou Observations: GNWT ENR 2011. NWT Wildlife Management Information System (Project 44).
4. Base data source: NTS 1:250,000

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PROPOSED INUVIK-TUKTOYAKTUK HIGHWAY

Mid Summer Caribou Observations and Herd Ranges (July 16 to August 7)

PROJECTION: UTM Zone 8	DATUM: NAD83
Scale: 1:550,000 (10 5 0 10 Kilometres)	
FILE NO.: V23201322_CEA_Map007_CaribouMidSum.mxd	
PROJECT NO.: V23201322	DWN: SL / CKD: TS / REV: 0
OFFICE: EBA-VANC	DATE: September 12, 2012

Figure 7

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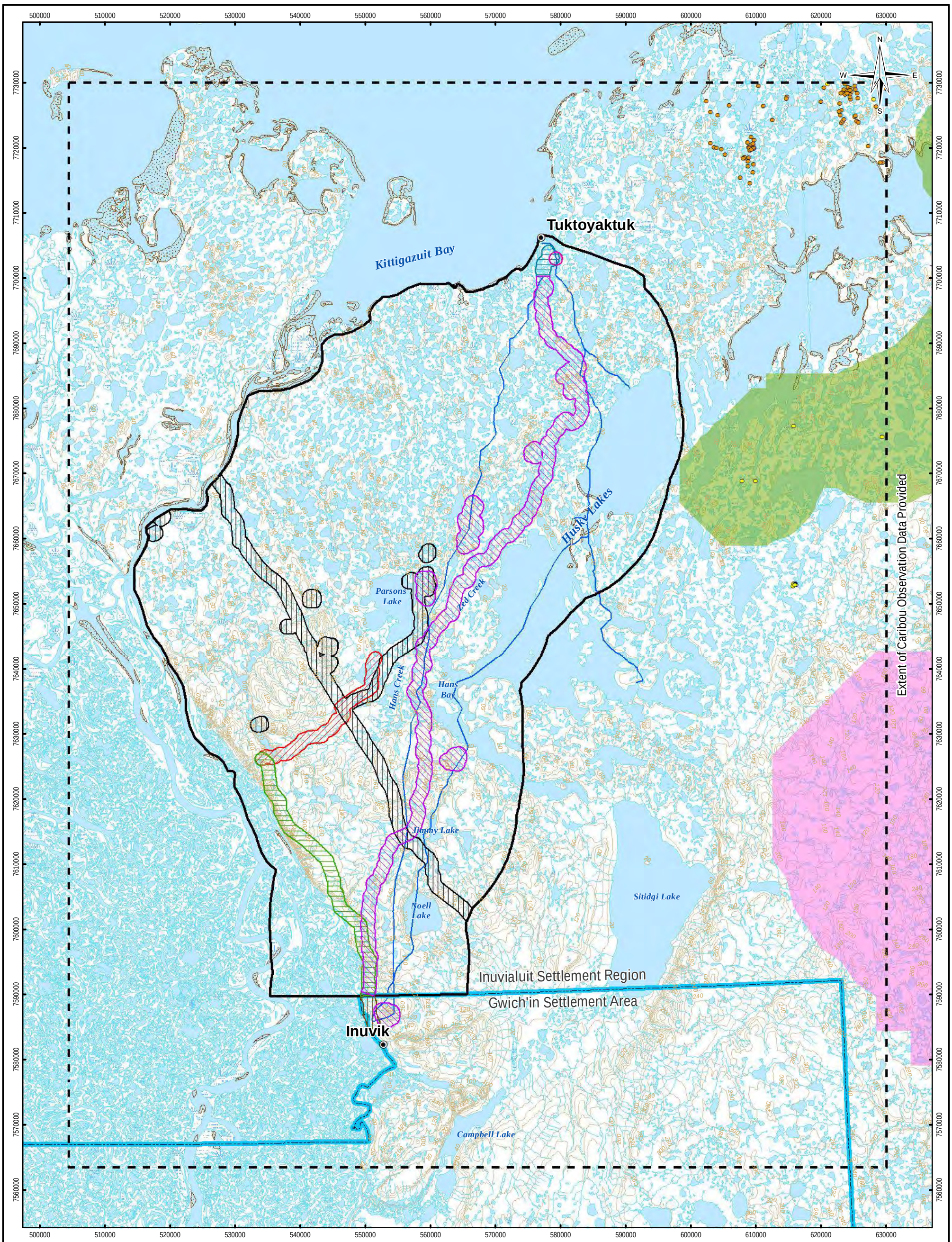

LEGEND

- Bluenose West Herd
- Cape Bathurst Herd

Barren-ground Caribou Observations

- GPS Telemetry
- Satellite Telemetry
- Extent of Caribou Observation Data

Zone of Influence (1 km buffer)

- Preferred Route (Alternative 3)
- Mackenzie Gas Project
- IKHIL Gas Pipeline
- Proposed South Parsons Lake Gas Supply Project
- Tuktoyaktuk Harbour Project
- Tuktoyaktuk to 177 Access Road
- Navy Road

- Cumulative Effects Study Area
- Gwich'in / Inuvialuit Boundary
- Snowmobile Trails
- Contour
- Watercourse
- Waterbody
- Wetland
- Sand

NOTES

1. For Zone of Influence notes, please see Figure 1, Notes 1-7.
2. Caribou Herd Ranges: GNWT ENR, February 2011.
3. Caribou Observations: GNWT ENR 2011. NWT Wildlife Management Information System (Projects 44 & 46).
4. Base data source: NTS 1:250,000

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PROPOSED INUVIK-TUKTOYAKTUK HIGHWAY

Late Summer Caribou Observations and Herd Ranges (August 8 to October 7)

PROJECTION	DATUM
UTM Zone 8	NAD83

Scale: 1:550,000

10 5 0 10

Kilometres

FILE NO.: V23201322_CEA_Map008_CaribouLateSum.mxd

PROJECT NO.	DWN	CKD	REV
V23201322	SL	TS	0

OFFICE	DATE
EBA-VANC	September 12, 2012

Figure 8

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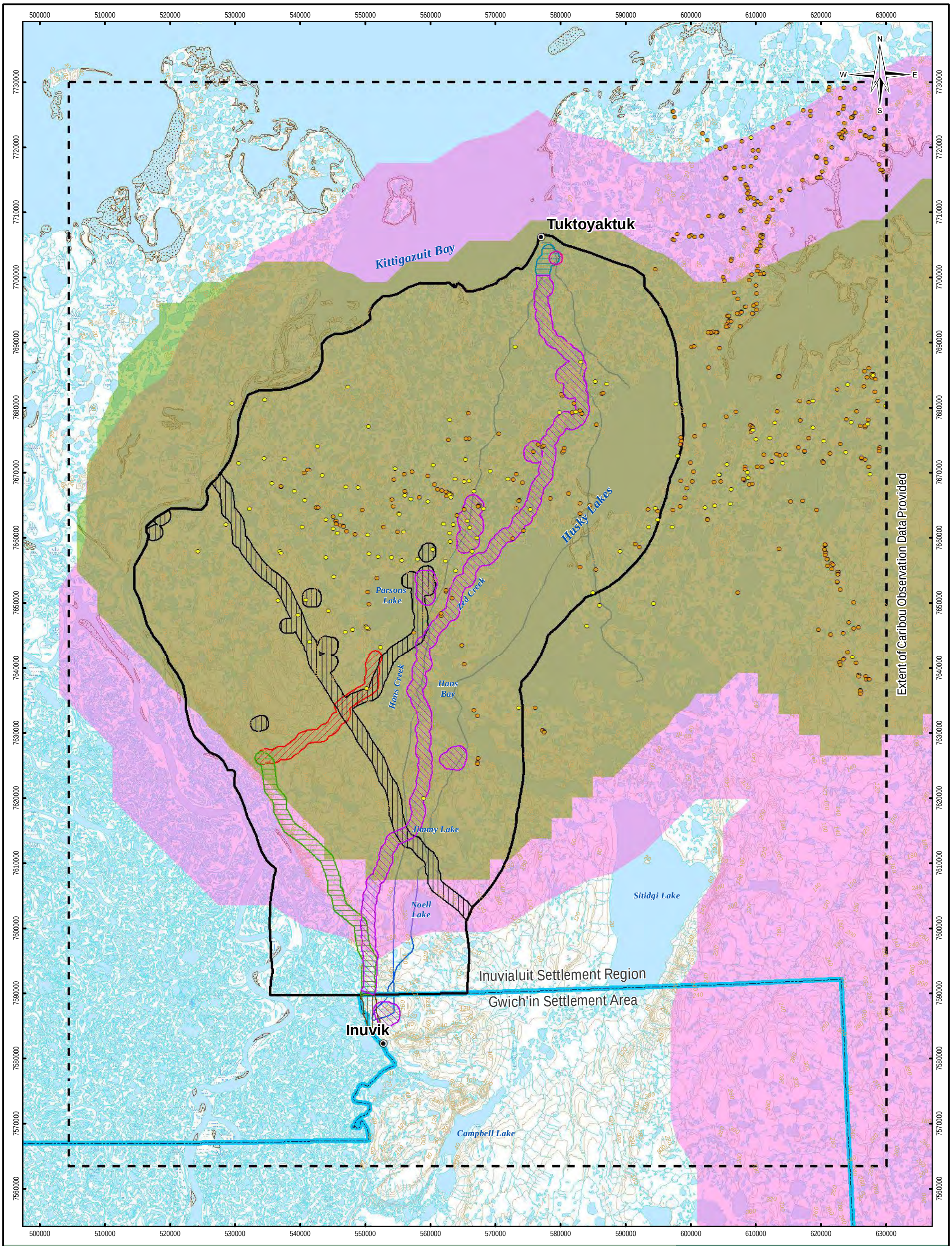

LEGEND

- Bluenose West Herd
- Cape Bathurst Herd
- Both Herds

Barren-ground Caribou Observations

- GPS Telemetry
- Satellite Telemetry
- Extent of Caribou Observation Data

Zone of Influence (1 km buffer)

- Preferred Route (Alternative 3)
- Mackenzie Gas Project
- IKHIL Gas Pipeline
- Proposed South Parsons Lake Gas Supply Project
- Tuktoyaktuk Harbour Project
- Tuktoyaktuk to 177 Access Road
- Navy Road

- Cumulative Effects Study Area
- Gwich'in / Inuvialuit Boundary
- Snowmobile Trails
- Contour
- Watercourse
- Waterbody
- Wetland
- Sand

NOTES

1. For Zone of Influence notes, please see Figure 1, Notes 1-7.
2. Caribou Herd Ranges: GNWT ENR, February 2011.
3. Caribou Observations: GNWT ENR 2011. NWT Wildlife Management Information System (Projects 44 & 46).
4. Base data source: NTS 1:250,000

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PROPOSED INUVIK-TUKTOYAKTUK HIGHWAY

Fall/Rut Caribou Observations and Herd Ranges (October 8 to 31)

PROJECTION: UTM Zone 8	DATUM: NAD83
Scale: 1:550,000 (10 5 0 10 Kilometres)	
FILE NO.: V23201322_CEA_Map009_CaribouFallRut.mxd	
PROJECT NO.: V23201322	DWN: SL / CKD: TS / REV: 0
OFFICE: EBA-VANC	DATE: September 12, 2012

Figure 9

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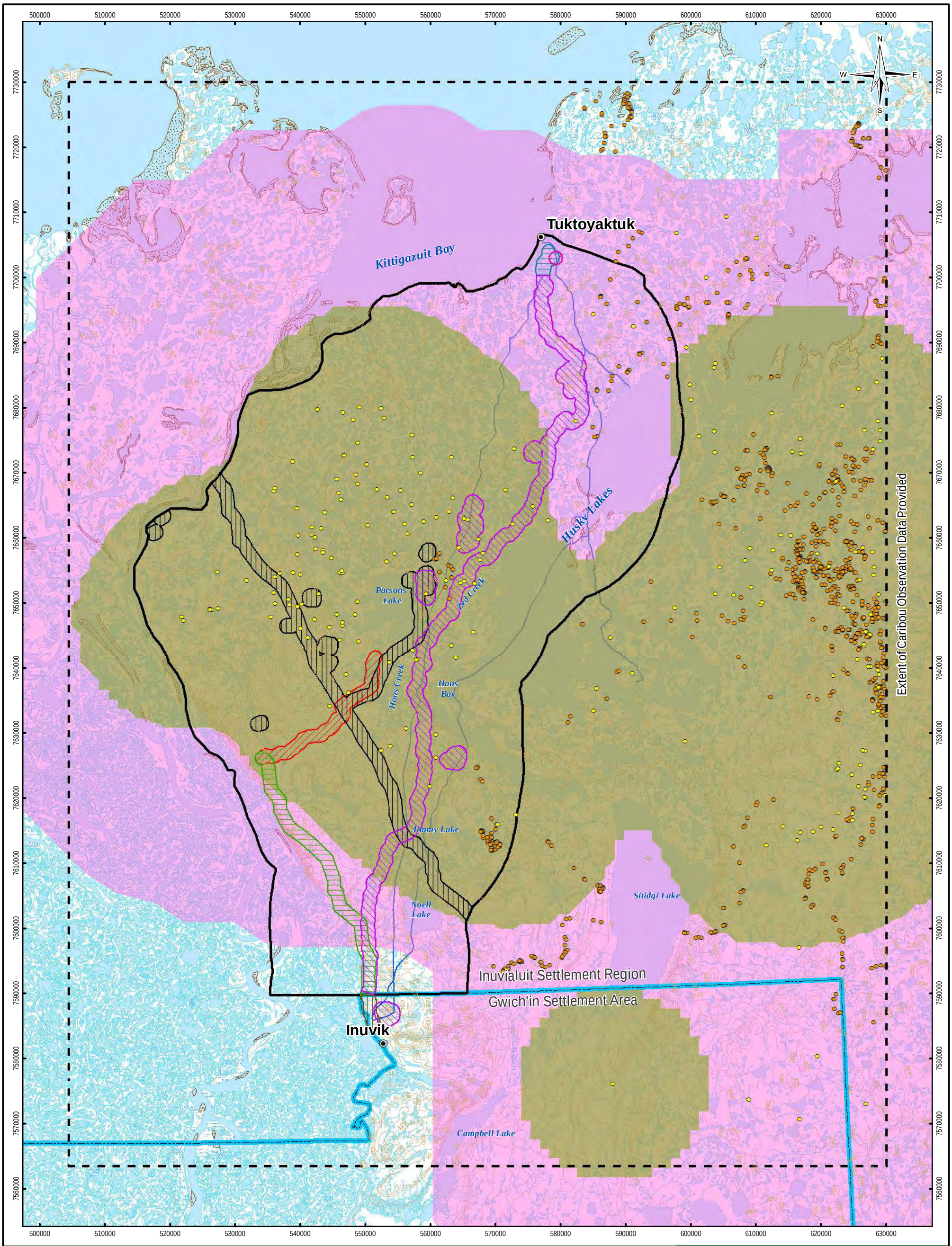

LEGEND

- Bluenose West Herd
- Cape Bathurst Herd
- Both Herds

Barren-ground Caribou Observations

- GPS Telemetry
- Satellite Telemetry
- Extent of Caribou Observation Data

Zone of Influence (1 km buffer)

- Preferred Route (Alternative 3)
- Mackenzie Gas Project
- IKHIL Gas Pipeline
- Proposed South Parsons Lake Gas Supply Project
- Tuktoyaktuk Harbour Project
- Tuktoyaktuk to 177 Access Road
- Navy Road

- Cumulative Effects Study Area
- Gwich'in / Inuvialuit Boundary
- Snowmobile Trails
- Contour
- Watercourse
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- Wetland
- Sand

NOTES

1. For Zone of Influence notes, please see Figure 1, Notes 1-7.
2. Caribou Herd Ranges: GNWT ENR, February 2011.
3. Caribou Observations: GNWT ENR 2011. NWT Wildlife Management Information System (Projects 44 & 46).
4. Base data source: NTS 1:250,000

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PROPOSED INUVIK-TUKTOYAKTUK HIGHWAY

Fall/Post Rut Caribou Observations and Herd Ranges (November 1 to 30)

PROJECTION: UTM Zone 8	DATUM: NAD83
Scale: 1:550,000 (10 5 0 10 Kilometres)	
FILE NO.: V23201322_CEA_Map010_CaribouPostRut.mxd	
PROJECT NO.: V23201322	DWN: SL / CKD: TS / REV: 0
OFFICE: EBA-VANC	DATE: September 12, 2012

Figure 10

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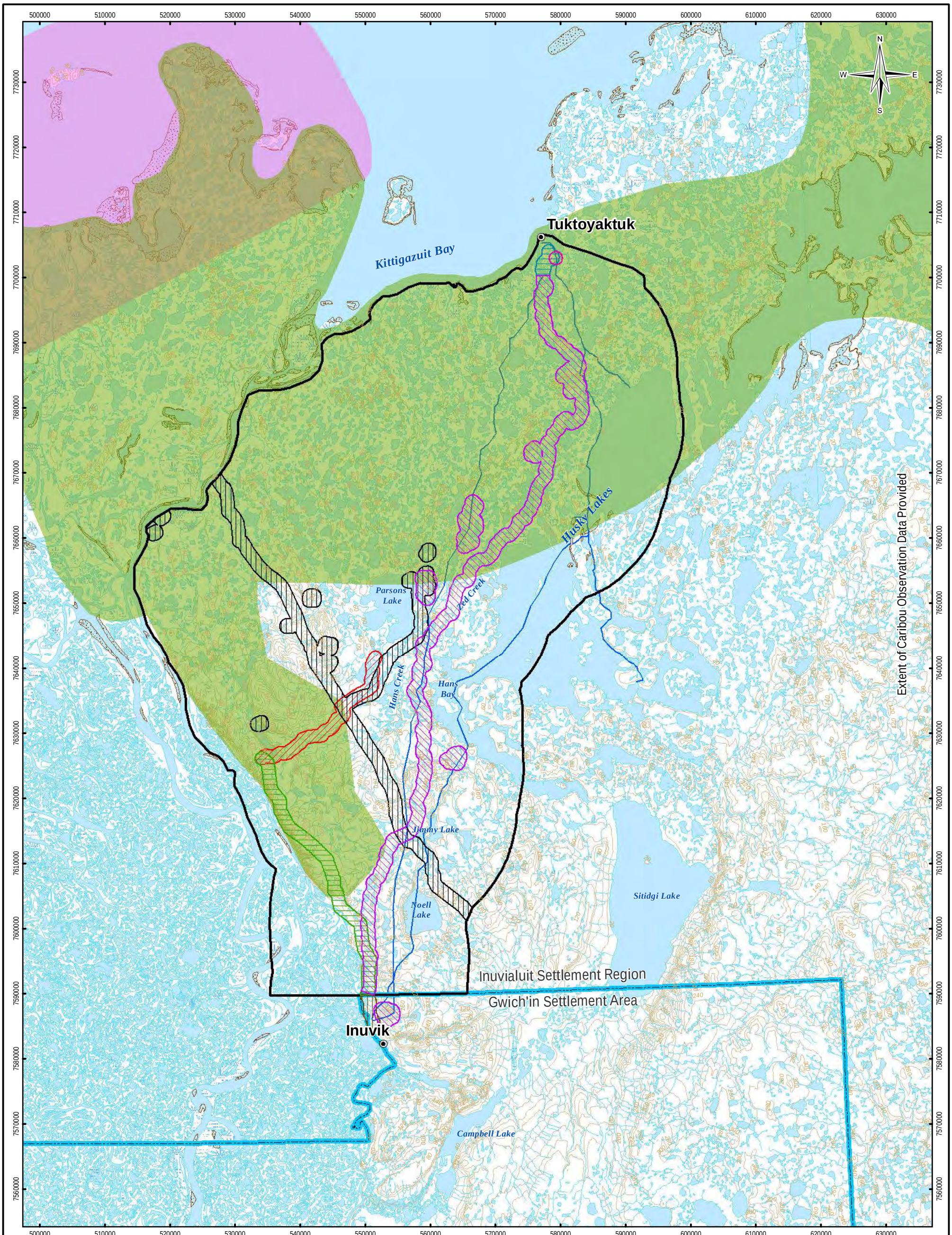

LEGEND

- Mainland Coastal Polar Bear Denning Area
- Critical Grizzly Bear Denning Area
- Both Denning Areas

Zone of Influence (1 km buffer)

- Preferred Route (Alternative 3)
- Mackenzie Gas Project
- IKHIL Gas Pipeline
- Proposed South Parsons Lake Gas Supply Project
- Tuktoyaktuk Harbour Project
- Tuktoyaktuk to 177 Access Road
- Navy Road

- Cumulative Effects Study Area
- Gwich'in / Inuvialuit Boundary
- Snowmobile Trails
- Contour
- Watercourse
- Waterbody
- Wetland
- Sand

NOTES
1. For Zone of Influence notes, please see Figure 1, Notes 1-7.
2. Bear Denning Areas: GNWT ENR, February 2011.
3. Base data source: NTS 1:250,000

ISSUED FOR USE

PROPOSED INUVIK-TUKTOYAKTUK HIGHWAY

Grizzly and Polar Bear Denning Areas

PROJECTION	DATUM
UTM Zone 8	NAD83

Scale: 1:550,000
10 5 0 10
Kilometres

FILE NO.: V23201322_CEA_Map011_BearDenAreas.mxd

PROJECT NO.	DWN	CKD	REV
V23201322	SL	TS	0

OFFICE	DATE
EBA-VANC	September 12, 2012

Figure 11

TABLES

Table 1: All Projects - Inside Cumulative Effects Study Area

	All Projects (project footprint; no overlaps)		All Projects ZOI (1 km buffer; no overlaps)		Cumulative Effects Study Area	
	Area (ha)	% of Cumulative Effects Area	Area (ha)	% of Cumulative Effects Area	Area (ha)	% of Cumulative Effects Area
Broadleaf Dense	24.52	0.31	2,121.20	27.06	7,839.53	1.34
Broadleaf Open	6.04	0.23	660.69	25.06	2,636.80	0.45
Bryoids	778.07	0.64	19,956.09	16.38	121,865.61	20.76
Not Classified	1.51	0.03	958.80	21.40	4,480.70	0.76
Coniferous Dense	1.58	0.03	280.76	5.08	5,524.19	0.94
Coniferous Open	17.31	0.21	881.02	10.49	8,398.39	1.43
Coniferous Sparse	43.97	0.16	3,711.27	13.34	27,816.67	4.74
Exposed/Barren Land	107.09	0.44	4,063.85	16.57	24,530.40	4.18
Herbs	85.69	0.72	2,045.98	17.12	11,948.96	2.04
Mixedwood Dense	16.29	0.14	1,648.59	14.11	11,683.16	1.99
Mixedwood Open	2.50	0.14	144.37	8.32	1,734.62	0.30
Rock/Rubble	23.82	0.74	577.19	17.99	3,208.02	0.55
Shrub Low	448.63	0.50	13,316.67	14.75	90,253.20	15.38
Shrub Tall	220.59	0.52	5,707.57	13.42	42,520.72	7.24
Water	217.82	0.12	10,748.34	5.87	183,237.79	31.22
Wetland-Herb	102.15	0.51	2,081.98	10.32	20,174.71	3.44
Wetland-Shrub	30.00	0.20	1,766.99	11.78	15,005.99	2.56
Wetland-Treed	5.28	0.13	376.90	9.10	4,142.51	0.71
Snow/Ice	0.00	0.00	0.94	100.00	0.94	0.00
Total	**2,132.84**	**0.36**	**71,049.18**	**12.10**	**587,002.91**	**100.00**

Table 2: Alternative 3 (Preferred Route) Footprint Components and Zone of Influence (1 km buffer)

Inside the Cumulative Effects Study Area

	Alternative 3 (28 m)		Borrow Sources[1]		Total Alternative 3 Footprint[2]		Alternative 3 ZOI[3] (1 km buffer)		Cumulative Effects Study Area	
	Area (ha)	% of Cumulative Effects Area	Area (ha)	% of Cumulative Effects Area	Area (ha)	% of Cumulative Effects Area	Area (ha)	% of Cumulative Effects Area	Area (ha)	% of Cumulative Effects Area
Broadleaf Dense	24.13	0.31	0.00	0.00	24.13	0.31	1,220.31	15.57	7,839.53	1.34
Broadleaf Open	5.33	0.20	0.00	0.00	5.33	0.20	321.72	12.20	2,636.80	0.45
Bryoids	119.34	0.10	465.69	0.38	585.03	0.48	8,155.93	6.69	121,865.61	20.76
Not Classified	0.04	0.00	0.00	0.00	0.04	0.00	123.52	2.76	4,480.70	0.76
Coniferous Dense	0.48	0.01	0.11	0.00	0.59	0.01	140.02	2.53	5,524.19	0.94
Coniferous Open	2.82	0.03	10.93	0.13	13.75	0.16	422.89	5.04	8,398.39	1.43
Coniferous Sparse	15.53	0.06	4.47	0.02	20.00	0.07	1,254.93	4.51	27,816.67	4.74
Exposed/Barren Land	18.42	0.08	50.87	0.21	69.29	0.28	1,440.93	5.87	24,530.40	4.18
Herbs	9.39	0.08	56.03	0.47	65.42	0.55	1,023.95	8.57	11,948.96	2.04
Mixedwood Dense	11.90	0.10	0.19	0.00	12.09	0.10	778.84	6.67	11,683.16	1.99
Mixedwood Open	0.78	0.04	0.71	0.04	1.49	0.09	46.44	2.68	1,734.62	0.30
Rock/Rubble	3.23	0.10	11.11	0.35	14.34	0.45	223.97	6.98	3,208.02	0.55
Shrub Low	117.18	0.13	249.80	0.28	366.98	0.41	7,206.89	7.99	90,253.20	15.38
Shrub Tall	36.46	0.09	143.91	0.34	180.37	0.42	3,184.20	7.49	42,520.72	7.24
Water	0.25	0.00	214.18	0.12	214.43	0.12	6,246.60	3.41	183,237.79	31.22
Wetland-Herb	3.50	0.02	75.36	0.37	78.86	0.39	1,243.54	6.16	20,174.71	3.44
Wetland-Shrub	9.70	0.06	17.40	0.12	27.10	0.18	1,027.61	6.85	15,005.99	2.56
Wetland-Treed	0.20	0.00	4.32	0.10	4.52	0.11	153.76	3.71	4,142.51	0.71
Snow/Ice	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.94	0.00
Total	**378.67**	**0.06**	**1,305.08**	**0.22**	**1,683.75**	**0.29**	**34,216.05**	**5.83**	**587,002.91**	**100.00**

[1]Borrow Sources included are 170, 174, 177, 309 and 325/314 inside the CEA

[2]The Alternative 3 footprint overlaps with the Mackenzie Gas Project and the IKHIL Gas Pipeline footprints inside the CEA

[3]The Alternative 3 ZOI overlaps with the Mackenzie Gas Project and the IKHIL Gas Pipeline ZOIs inside the CEA

Table 3: Tuktoyaktuk to 177 Access Road Footprint and Zone of Influence (1 km buffer)

Inside the Cumulative Effects Study Area

	Tuk to 177 Access Road (28 m)		Tuk to 177 Access Road ZOI[1] (1 km buffer)		Cumulative Effects Study Area	
	Area (ha)	% of Cumulative Effects Area	Area (ha)	% of Cumulative Effects Area	Area (ha)	% of Cumulative Effects Area
Broadleaf Dense	0.00	0.00	0.00	0.00	7,839.53	1.34
Broadleaf Open	0.00	0.00	0.00	0.00	2,636.80	0.45
Bryoids	0.93	0.00	109.82	0.09	121,865.61	20.76
Not Classified	0.00	0.00	0.00	0.00	4,480.70	0.76
Coniferous Dense	0.00	0.00	0.00	0.00	5,524.19	0.94
Coniferous Open	0.00	0.00	0.00	0.00	8,398.39	1.43
Coniferous Sparse	0.02	0.00	12.82	0.05	27,816.67	4.74
Exposed/Barren Land	10.74	0.04	327.58	1.34	24,530.40	4.18
Herbs	0.00	0.00	1.99	0.02	11,948.96	2.04
Mixedwood Dense	0.00	0.00	0.00	0.00	11,683.16	1.99
Mixedwood Open	0.00	0.00	0.00	0.00	1,734.62	0.30
Rock/Rubble	0.60	0.02	8.07	0.25	3,208.02	0.55
Shrub Low	0.95	0.00	65.91	0.07	90,253.20	15.38
Shrub Tall	0.14	0.00	22.49	0.05	42,520.72	7.24
Water	0.07	0.00	538.44	0.29	183,237.79	31.22
Wetland-Herb	1.56	0.01	41.70	0.21	20,174.71	3.44
Wetland-Shrub	0.05	0.00	20.12	0.13	15,005.99	2.56
Wetland-Treed	0.00	0.00	0.38	0.01	4,142.51	0.71
Snow/Ice	0.00	0.00	0.87	93.33	0.94	0.00
Total	**15.07**	**0.00**	**1,150.19**	**0.20**	**587,002.91**	**100.00**

[1]The Tuktoyaktuk to 177 Access Road ZOI overlaps with the Tuktoyaktuk Harbour Project ZOI inside the CEA

Table 4: IKHIL Pipeline Footprint and Zone of Influence (1 km buffer)

Inside the Cumulative Effects Study Area

	IKHIL Pipeline[1] (1 m)		IKHIL Pipeline ZOI[2] (1 km buffer)		Cumulative Effects Study Area	
	Area (ha)	% of Cumulative Effects Area	Area (ha)	% of Cumulative Effects Area	Area (ha)	% of Cumulative Effects Area
Broadleaf Dense	0.33	0.00	1,506.44	19.22	7,839.53	1.34
Broadleaf Open	0.22	0.01	424.25	16.09	2,636.80	0.45
Bryoids	0.87	0.00	1,321.53	1.08	121,865.61	20.76
Not Classified	0.56	0.01	951.99	21.25	4,480.70	0.76
Coniferous Dense	0.01	0.00	95.67	1.73	5,524.19	0.94
Coniferous Open	0.04	0.00	82.14	0.98	8,398.39	1.43
Coniferous Sparse	0.75	0.00	943.71	3.39	27,816.67	4.74
Exposed/Barren Land	0.27	0.00	353.18	1.44	24,530.40	4.18
Herbs	0.02	0.00	220.61	1.85	11,948.96	2.04
Mixedwood Dense	0.44	0.00	766.68	6.56	11,683.16	1.99
Mixedwood Open	0.00	0.00	43.74	2.52	1,734.62	0.30
Rock/Rubble	0.01	0.00	5.09	0.16	3,208.02	0.55
Shrub Low	0.67	0.00	1,029.95	1.14	90,253.20	15.38
Shrub Tall	0.08	0.00	382.85	0.90	42,520.72	7.24
Water	0.00	0.00	286.30	0.16	183,237.79	31.22
Wetland-Herb	0.00	0.00	73.68	0.37	20,174.71	3.44
Wetland-Shrub	0.01	0.00	117.42	0.78	15,005.99	2.56
Wetland-Treed	0.00	0.00	84.43	2.04	4,142.51	0.71
Snow/Ice	0.00	0.00	0.00	0.00	0.94	0.00
Total	**4.28**	**0.00**	**8,689.64**	**1.48**	**587,002.91**	**100.00**

[1]The IKHIL Gas Pipeline footprint overlaps with the Alternative 3 and Navy Road footprints inside the CEA

[2]The IKHIL Gas Pipeline ZOI overlaps with the Alternative 3, Navy Road, and South Parsons Lake Gas Supply Project ZOIs inside the CEA

Table 5: Mackenzie Gas Project Footprint Components and Zone of Influence (1 km buffer)

Inside the Cumulative Effects Study Area

	Pipeline[1]		Borrow Sources[2]		Infrastructure[3]		Total MGP Footprint[4]		MGP ZOI[5] (1 km buffer)		Cumulative Effects Study Area	
	Area (ha)	% of Cumulative Effects Area	Area (ha)	% of Cumulative Effects Area	Area (ha)	% of Cumulative Effects Area	Area (ha)	% of Cumulative Effects Area	Area (ha)	% of Cumulative Effects Area	Area (ha)	% of Cumulative Effects Area
Broadleaf Dense	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28.01	0.36	7,839.53	1.34
Broadleaf Open	0.18	0.01	0.31	0.01	0.00	0.00	0.49	0.02	102.45	3.89	2,636.80	0.45
Bryoids	19.29	0.02	196.87	0.16	6.40	0.01	222.56	0.18	9,213.66	7.56	121,865.61	20.76
Not Classified	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.61	0.04	4,480.70	0.76
Coniferous Dense	0.08	0.00	0.91	0.02	0.00	0.00	0.99	0.02	81.03	1.47	5,524.19	0.94
Coniferous Open	0.66	0.01	3.69	0.04	0.54	0.01	4.89	0.06	412.58	4.91	8,398.39	1.43
Coniferous Sparse	3.30	0.01	19.56	0.07	0.31	0.00	23.18	0.08	1,497.27	5.38	27,816.67	4.74
Exposed/Barren Land	4.30	0.02	25.13	0.10	1.50	0.01	30.93	0.13	1,629.17	6.64	24,530.40	4.18
Herbs	1.09	0.01	25.43	0.21	1.56	0.01	28.08	0.24	779.70	6.53	11,948.96	2.04
Mixedwood Dense	1.02	0.01	2.72	0.02	0.00	0.00	3.74	0.03	455.46	3.90	11,683.16	1.99
Mixedwood Open	0.07	0.00	1.07	0.06	0.00	0.00	1.15	0.07	57.15	3.29	1,734.62	0.30
Rock/Rubble	0.28	0.01	8.72	0.27	0.19	0.01	9.18	0.29	284.26	8.86	3,208.02	0.55
Shrub Low	8.59	0.01	82.09	0.09	10.00	0.01	100.68	0.11	4,791.25	5.31	90,253.20	15.38
Shrub Tall	3.19	0.01	44.78	0.11	9.10	0.02	57.07	0.13	2,198.64	5.17	42,520.72	7.24
Water	0.04	0.00	6.37	0.00	0.00	0.00	6.42	0.00	3,597.20	1.96	183,237.79	31.22
Wetland-Herb	0.31	0.00	27.88	0.14	0.25	0.00	28.44	0.14	736.64	3.65	20,174.71	3.44
Wetland-Shrub	0.45	0.00	2.96	0.02	0.00	0.00	3.42	0.02	595.69	3.97	15,005.99	2.56
Wetland-Treed	0.06	0.00	1.84	0.04	0.00	0.00	1.90	0.05	151.27	3.65	4,142.51	0.71
Snow/Ice	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.94	0.00
Total	**42.91**	**0.01**	**450.35**	**0.08**	**29.84**	**0.01**	**523.09**	**0.09**	**26,613.02**	**4.53**	**587,002.91**	**100.00**

[1]Parsons Lake Lateral Route was assigned a footprint of 1 m wide; all other routes were assigned a footprint of 5 m wide

[2]Borrow Sources included originated from Imperial Oil and were provided by GNWT

[3]Infrastructure includes estimated footprints for Storm Hills Pigging Facility and Parsons Lake North and South Pads, based on the MGP EIS (2004)

[4]The MGP footprint overlaps with the Alternative 3 and South Parsons Lake Gas Supply Project footprints inside the CEA

[5]The MGP ZOI overlaps with the Alternative 3 and South Parsons Lake Gas Supply Project ZOIs inside the CEA

Table 6: South Parsons Lake Gas Supply Project Pipeline Footprint and Zone of Influence (1 km buffer)

Inside the Cumulative Effects Study Area

	SPL Pipeline[1] (1 m)		SPL Pipeline ZOI[2] (1 km buffer)		Cumulative Effects Study Area	
	Area (ha)	% of Cumulative Effects Area	Area (ha)	% of Cumulative Effects Area	Area (ha)	% of Cumulative Effects Area
Broadleaf Dense	0.00	0.00	1.02	0.01	7,839.53	1.34
Broadleaf Open	0.00	0.00	5.72	0.22	2,636.80	0.45
Bryoids	1.38	0.00	2,559.06	2.10	121,865.61	20.76
Not Classified	0.00	0.00	5.91	0.13	4,480.70	0.76
Coniferous Dense	0.00	0.00	3.35	0.06	5,524.19	0.94
Coniferous Open	0.01	0.00	32.58	0.39	8,398.39	1.43
Coniferous Sparse	0.16	0.00	257.50	0.93	27,816.67	4.74
Exposed/Barren Land	0.29	0.00	537.04	2.19	24,530.40	4.18
Herbs	0.10	0.00	128.82	1.08	11,948.96	2.04
Mixedwood Dense	0.02	0.00	30.81	0.26	11,683.16	1.99
Mixedwood Open	0.00	0.00	4.25	0.25	1,734.62	0.30
Rock/Rubble	0.07	0.00	107.33	3.35	3,208.02	0.55
Shrub Low	0.44	0.00	784.93	0.87	90,253.20	15.38
Shrub Tall	0.10	0.00	264.29	0.62	42,520.72	7.24
Water	0.02	0.00	646.11	0.35	183,237.79	31.22
Wetland-Herb	0.05	0.00	148.73	0.74	20,174.71	3.44
Wetland-Shrub	0.08	0.00	150.47	1.00	15,005.99	2.56
Wetland-Treed	0.00	0.00	15.13	0.37	4,142.51	0.71
Snow/Ice	0.00	0.00	0.00	0.00	0.94	0.00
Total	**2.70**	**0.00**	**5,683.07**	**0.97**	**587,002.91**	**100.00**

[1]The SPL Gas Supply Project footprint overlaps with the Mackenzie Gas Project footprint inside the CEA

[2]The SPL Gas Supply Project ZOI overlaps with the Mackenzie Gas Project and IKHIL Pipeline ZOIs inside the CEA

Table 7: Tuktoyaktuk Harbour Project Zone of Influence (1 km buffer)

Inside the Cumulative Effects Study Area

	Tuk Harbour ZOI[1] (1 km buffer)		Cumulative Effects Study Area	
	Area (ha)	% of Cumulative Effects Area	Area (ha)	% of Cumulative Effects Area
Broadleaf Dense	0.00	0.00	7,839.53	1.34
Broadleaf Open	0.00	0.00	2,636.80	0.45
Bryoids	13.20	0.01	121,865.61	20.76
Not Classified	0.06	0.00	4,480.70	0.76
Coniferous Dense	0.00	0.00	5,524.19	0.94
Coniferous Open	0.00	0.00	8,398.39	1.43
Coniferous Sparse	2.39	0.01	27,816.67	4.74
Exposed/Barren Land	82.95	0.34	24,530.40	4.18
Herbs	0.11	0.00	11,948.96	2.04
Mixedwood Dense	0.00	0.00	11,683.16	1.99
Mixedwood Open	0.00	0.00	1,734.62	0.30
Rock/Rubble	0.88	0.03	3,208.02	0.55
Shrub Low	12.94	0.01	90,253.20	15.38
Shrub Tall	12.24	0.03	42,520.72	7.24
Water	175.81	0.10	183,237.79	31.22
Wetland-Herb	10.16	0.05	20,174.71	3.44
Wetland-Shrub	2.32	0.02	15,005.99	2.56
Wetland-Treed	0.11	0.00	4,142.51	0.71
Snow/Ice	0.94	100.00	0.94	0.00
Total	**314.12**	**0.05**	**587,002.91**	**100.00**

[1]The Tuktoyaktuk Harbour Project ZOI overlaps with the Tuktoyaktuk to 177 Access Road ZOI inside the CEA

Table 8a: Navy Road Footprint and Zone of Influence (1 km buffer)

Inside the Cumulative Effects Study Area

	Navy Road[1] (28 m)		Navy Road ZOI[2] (1 km buffer)		Cumulative Effects Study Area	
	Area (ha)	% of Cumulative Effects Area	Area (ha)	% of Cumulative Effects Area	Area (ha)	% of Cumulative Effects Area
Broadleaf Dense	0.07	0.00	14.78	0.19	7,839.53	1.34
Broadleaf Open	0.00	0.00	2.33	0.09	2,636.80	0.45
Bryoids	0.00	0.00	1.43	0.00	121,865.61	20.76
Not Classified	0.95	0.02	53.51	1.19	4,480.70	0.76
Coniferous Dense	0.00	0.00	0.13	0.00	5,524.19	0.94
Coniferous Open	0.00	0.00	0.58	0.01	8,398.39	1.43
Coniferous Sparse	0.08	0.00	0.68	0.00	27,816.67	4.74
Exposed/Barren Land	0.00	0.00	1.64	0.01	24,530.40	4.18
Herbs	0.00	0.00	0.00	0.00	11,948.96	2.04
Mixedwood Dense	0.00	0.00	2.54	0.02	11,683.16	1.99
Mixedwood Open	0.00	0.00	0.00	0.00	1,734.62	0.30
Rock/Rubble	0.00	0.00	0.00	0.00	3,208.02	0.55
Shrub Low	0.00	0.00	0.24	0.00	90,253.20	15.38
Shrub Tall	0.00	0.00	0.00	0.00	42,520.72	7.24
Water	0.00	0.00	0.06	0.00	183,237.79	31.22
Wetland-Herb	0.00	0.00	0.06	0.00	20,174.71	3.44
Wetland-Shrub	0.00	0.00	0.00	0.00	15,005.99	2.56
Wetland-Treed	0.00	0.00	0.00	0.00	4,142.51	0.71
Snow/Ice	0.00	0.00	0.00	0.00	0.94	0.00
Total	**1.10**	**0.00**	**77.98**	**0.01**	**587,002.91**	**100.00**

[1]The Navy Road footprint overlaps with the IKHIL Pipeline footprint inside the CEA

[2]The Navy Road ZOI overlaps with the IKHIL Pipeline ZOI inside the CEA

Table 8b: Navy Road Footprint and Zone of Influence (1 km buffer)

Outside the Cumulative Effects Study Area

	Navy Road (28 m)	Navy Road ZOI[1] (1 km buffer)
	Area (ha)	Area (ha)
Broadleaf Dense	0.25	68.80
Broadleaf Open	0.17	16.81
Bryoids	0.41	11.63
Not Classified	6.75	558.81
Coniferous Dense	0.05	49.97
Coniferous Open	0.55	16.70
Coniferous Sparse	1.58	46.14
Exposed/Barren Land	0.46	58.32
Herbs	0.00	1.06
Mixedwood Dense	1.07	52.57
Mixedwood Open	0.00	5.57
Rock/Rubble	0.00	5.19
Shrub Low	0.63	51.16
Shrub Tall	0.45	8.48
Water	0.00	73.12
Wetland-Herb	0.04	13.18
Wetland-Shrub	0.00	19.04
Wetland-Treed	0.00	2.17
Snow/Ice	0.00	0.00
Total	**12.43**	**1,058.70**

[1]The Navy Road ZOI overlaps with the Alternative 3 ZOI outside the CEA

Table 9: Alternative 3 Overlaps with IKHIL Gas Pipeline

Inside the Cumulative Effects Study Area

	Footprint Overlaps with the IKHIL Gas Pipeline		ZOI (1 km buffer) Overlaps with the IKHIL Gas Pipeline		Cumulative Effects Study Area	
	Area (ha)	% of Cumulative Effects Area	Area (ha)	% of Cumulative Effects Area	Area (ha)	% of Cumulative Effects Area
Broadleaf Dense	0.01	0.00	633.95	8.09	7,839.53	1.34
Broadleaf Open	0.00	0.00	189.59	7.19	2,636.80	0.45
Bryoids	0.00	0.00	6.81	0.01	121,865.61	20.76
Not Classified	0.00	0.00	122.86	2.74	4,480.70	0.76
Coniferous Dense	0.00	0.00	38.00	0.69	5,524.19	0.94
Coniferous Open	0.00	0.00	24.67	0.29	8,398.39	1.43
Coniferous Sparse	0.02	0.00	197.93	0.71	27,816.67	4.74
Exposed/Barren Land	0.00	0.00	2.53	0.01	24,530.40	4.18
Herbs	0.00	0.00	0.86	0.01	11,948.96	2.04
Mixedwood Dense	0.01	0.00	369.16	3.16	11,683.16	1.99
Mixedwood Open	0.00	0.00	1.76	0.10	1,734.62	0.30
Rock/Rubble	0.00	0.00	0.00	0.00	3,208.02	0.55
Shrub Low	0.00	0.00	9.02	0.01	90,253.20	15.38
Shrub Tall	0.00	0.00	1.95	0.00	42,520.72	7.24
Water	0.00	0.00	86.38	0.05	183,237.79	31.22
Wetland-Herb	0.00	0.00	6.40	0.03	20,174.71	3.44
Wetland-Shrub	0.00	0.00	23.00	0.15	15,005.99	2.56
Wetland-Treed	0.00	0.00	4.47	0.11	4,142.51	0.71
Snow/Ice	0.00	0.00	0.00	0.00	0.94	0.00
Total	**0.05**	**0.00**	**1,719.34**	**0.29**	**587,002.91**	**100.00**

Table 10: Alternative 3 Overlaps with Mackenzie Gas Project

Inside the Cumulative Effects Study Area

	Footprint Overlaps with the Mackenzie Gas Project		ZOI (1 km buffer) Overlaps with the Mackenzie Gas Project		Cumulative Effects Study Area	
	Area (ha)	% of Cumulative Effects Area	Area (ha)	% of Cumulative Effects Area	Area (ha)	% of Cumulative Effects Area
Broadleaf Dense	0.00	0.00	0.75	0.01	7,839.53	1.34
Broadleaf Open	0.00	0.00	3.86	0.15	2,636.80	0.45
Bryoids	32.70	0.03	247.02	0.20	121,865.61	20.76
Not Classified	0.00	0.00	0.00	0.00	4,480.70	0.76
Coniferous Dense	0.00	0.00	1.31	0.02	5,524.19	0.94
Coniferous Open	1.38	0.02	37.27	0.44	8,398.39	1.43
Coniferous Sparse	0.19	0.00	57.07	0.21	27,816.67	4.74
Exposed/Barren Land	4.43	0.02	152.85	0.62	24,530.40	4.18
Herbs	7.93	0.07	79.29	0.66	11,948.96	2.04
Mixedwood Dense	0.00	0.00	14.04	0.12	11,683.16	1.99
Mixedwood Open	0.14	0.01	3.41	0.20	1,734.62	0.30
Rock/Rubble	0.37	0.01	1.91	0.06	3,208.02	0.55
Shrub Low	21.08	0.02	381.68	0.42	90,253.20	15.38
Shrub Tall	17.17	0.04	240.54	0.57	42,520.72	7.24
Water	3.12	0.00	335.21	0.18	183,237.79	31.22
Wetland-Herb	6.76	0.03	91.04	0.45	20,174.71	3.44
Wetland-Shrub	0.65	0.00	52.61	0.35	15,005.99	2.56
Wetland-Treed	1.14	0.03	18.14	0.44	4,142.51	0.71
Snow/Ice	0.00	0.00	0.00	0.00	0.94	0.00
Total	**97.06**	**0.02**	**1,717.99**	**0.29**	**587,002.91**	**100.00**