

QWB-QIA Joint Caribou Submission to the Nunavut Planning Commission

Written Submission QWB-QIA 2023-A-01: Calving and Post-calving Habitat

Proposed designation: Limited Use

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Introduction

This written submission summarizes the caribou calving and post-calving habitat identified by the HTOs of the Qikiqtaaluk Region, which QWB and QIA are requesting that NPC designate as Limited Use. This written submission is part of a joint QWB-QIA caribou submission package that includes a Technical Memorandum and three other joint written submissions identifying caribou winter habitat (written submission 2023-A-02), caribou movement corridors (written submissions 2023-A-03), and caribou harvesting areas (written submission 2023-A-04) in the Qikiqtaaluk region of Nunavut. The Technical Memorandum provides critical background information and a summary of methods used to develop this submission, and should be reviewed in tandem with the contents of this submission.¹

Importance of Calving and Post-Calving Areas

Tuktut (caribou) are critical to the strength, wellbeing, and sustainability of Inuit culture and heritage; the tundra-dwelling caribou populations of Baffin Island and the high Arctic are a key species in the northern ecosystem. Caribou on Baffin Island exhibit long-term cycles in their populations (Ferguson et al., 1998), exacerbating their vulnerability to human disturbances during periods of low abundance, which can last for years or decades.

¹ Note: Many of the discussions with HTO members focused on barren-ground caribou on Baffin Island, Melville peninsula, and the surrounding islands. Unless otherwise noted, the importance of habitat types and harvesting areas should be considered to equally apply to Peary caribou in the high Arctic. The heightened sensitivity of Peary caribou to climate change, particularly in terms of impacts to sea ice crossings and winter habitat, has been highlighted wherever possible, and seasonal timing windows have been modified to the extent of available knowledge.

Inuit Qaujimajatuqangit (IQ) identifies that caribou calving on Baffin Island can occur between May and June, with some observations of calving into July and August (QIA / QWB Workshop Notes, October 12, 2022). The calving period for Baffin Island caribou spans a longer period than barren-ground caribou on the mainland: based on Inuit Qaujimajatuqangit, this submission package identifies the calving period from June 12 - July 1, and the post-calving period from July 2 - August 31. Calving and post-calving appear to generally follow these same periods for Peary caribou, with some Inuit noting earlier calving in Peary caribou. Caribou typically demonstrate dispersed calving in the Qikiqtaaluk region; however, some areas of Baffin, such as the southwest, show migratory behaviour that is more similar to mainland barren-ground caribou herds, with more distinct calving and post-calving habitat. For both the long-term and short-term success of the species, it is imperative that calving individuals, and their respective calving and post-calving habitats, are protected during this time.

“With respect to caribou, using Inuit Traditional Knowledge, starting in May to the end of June, caribou give birth. They need to be protected while they are giving birth, while they are birthing from May to the end of June. Caribou birth here in our land. I have seen them when traveling by dog team. My father used to show me through a telescope, newborn calves.” — Pond Inlet Hearing (October, 2022)

Based on Inuit Qaujimajatuqangit, Baffin Island caribou are particularly vulnerable to disturbance during calving and post-calving periods, and disturbance during these periods can jeopardize calf survival and recruitment (QWB et al. 2018b). Disturbance in calving and post-calving areas can jeopardize the reproductive success and lifespan of this species through reduced nursing times, cow-calf abandonment, and displacement from suitable and nutrient rich habitats, leading to potentially increased rates of calf mortality. Increased stress during calving periods could also lead to harsher over-wintering periods, further increasing the risk of the species. These pressures are amplified during years of low abundance, further highlighting the need for proactive calving and post-calving habitat designations, to protect not only the current populations, but also the future cycles.

“It is just now that they are starting to come into their calving grounds, but there is still a lot of disturbance from oil and mineral explorations over the years. Before the disturbance came, this is when this population was healthy and living in their traditional grounds for calving migration routes, and their traditional routes are being heavily used even with vessels at times and exploration companies. This is why we thought that the population was becoming extinct. There was too much disturbance on their traditional migration and calving grounds.” — Pond Inlet Hearing (October, 2022)

The importance of calving and post-calving areas is further recorded throughout the Qikiqtaaluk region through the prevalence of Inuktitut place names for calving grounds. The linguistic ties demonstrate the deep connection, value and understanding that these spaces hold both ecologically and culturally for the Inuit people. In Arctic Bay, various spaces are called *qillituuq*, which refers to when the land ‘shines’ with the fluids of the female caribou from the birthing process and the post-calving period. One workshop participant highlighted how the elders are

the knowledge keepers and know these areas, and outlined how their voices need to be heard, listened to and ultimately acted on (QIA / QWB Workshop Notes, October 12, 2022).

Delineation Methods

Please see the accompanying Technical Memo, section 3, which describes how these areas were delineated, verified, and supported through additional data review.

Results

Table 1 summarizes all of the polygons included as calving and post-calving habitat in this submission, and includes a further rationale for each area based on a review of available IQ and western science overlapping with each polygon. Sources of IQ and western science are detailed in Section 3.5, Table 1 of the accompanying Technical Memo. For this analysis, both IQ and western science data were filtered to the calving / post-calving window. The table below also notes where each identified polygon originally overlapped with another habitat or use type (e.g., winter habitat or harvesting areas). Polygons (or clusters of polygons in close proximity) are numbered in the table and accompanying map for ease of review. The submission includes two different categories of polygons:

1. Areas identified as calving / post-calving habitat in QWB's 2018 submission to the NPC, which were accepted into the 2021 DNLUP and subsequently expanded during the HTO workshops in 2022. QWB and QIA are requesting that these areas be reflected in the final version of the Nunavut Land Use Plan.
2. New areas identified as calving / post-calving habitat in the HTO workshops in 2022. In some cases, these areas overlap with polygons identified in QWB's 2018 submission as harvesting or multi-value areas—areas of important caribou habitat that were not brought into the 2021 DNLUP. All overlaps with other designations (either from 2018 or from the 2022 workshops) are noted in Table 1.

In addition to accepting these newly delineated calving and post-calving habitat areas as Limited Use areas in the Nunavut Land Use Plan, QWB and QIA are requesting that NPC also retain all calving and post-calving areas that were identified by QWB in their 2018 written submissions and accepted into the 2021 DNLUP as Limited Use areas. These areas are not included in Table 1, but have been re-submitted as part of the spatial package accompanying this submission.

Table 1. List of polygons submitted to the NPC as final Caribou Calving and Post-Calving Areas for the Nunavut Land Use Plan. Rationales are provided for: (1) Previously accepted 2018 submissions that have been expanded and (2) New submission areas.

Polygon No.	Polygon Type	Rationale for Submission
Expansions to the QWB 2018 Calving and Post-calving Submissions to NPC		
1	Calving	<ul style="list-style-type: none"> Area was delineated by knowledge holders in 2022 during the joint QWB-QIA review process. Overlaps with documented calving IQ <p>Note that a portion of this area was also identified as containing important winter habitat and delineated as a caribou harvesting area. Based on the rules for overlapping designations described in section 3.4 of the technical memo, the polygon is submitted to the NLUP as a calving area.</p>
2	Calving	<ul style="list-style-type: none"> Area was delineated by knowledge holders in 2022 during the joint QIA-QWB review process. Overlaps with documented caribou calving and post-calving IQ. Overlaps with telemetry data from calving and post-calving seasonal windows (1987-1994) Overlaps with calving and post-calving kernel density estimates (Campbell et al., 2015) Overlaps with Caribou Area identified in the Baffin Island Caribou Consultations (2012). <p>Note that a portion of this area was also identified as containing important winter habitat. Based on the rules for overlapping designations described in section 3.4 of the technical memo, the polygon is submitted to the NLUP as a calving area.</p>
3	Calving	<ul style="list-style-type: none"> Area was delineated by knowledge holders in 2022 during the joint QIA-QWB review process. Overlaps with documented caribou calving and post-calving IQ <p>Note that a portion of this area was also identified as an important caribou harvesting area. Based on the rules for overlapping designations described in section 3.4 of the technical memo, the polygon is submitted to the NLUP as a calving area.</p>
4	Calving	<ul style="list-style-type: none"> Area was delineated by knowledge holders in 2022 during the joint QIA-QWB review process. Overlaps with telemetry data from calving and post-calving seasonal windows (1987-1994 and 2008-2011) Overlaps with documented calving and post-calving IQ Overlaps with Core North Baffin Area delineated in the Baffin Island Caribou Consultations (2012). Overlaps with the calving and post-calving kernel density estimates (Campbell et al., 2015) <p>Note that portions of this area were also identified as an important caribou harvesting area, winter habitat, and a movement corridor.</p>

Polygon No.	Polygon Type	Rationale for Submission
		Based on the rules for overlapping designations described in section 3.4 of the technical memo, the polygon is submitted to the NLUP as a calving area.
5	Calving	<ul style="list-style-type: none"> Area was delineated by knowledge holders in 2022 during the joint QIA-QWB review process. Overlaps with Caribou Area outlined in the Baffin Island Caribou Consultations (2012). <p>Note that a portion of this area was also identified as an important caribou harvesting area. Based on the rules for overlapping designations described in section 3.4 of the technical memo, the polygon is submitted to the NLUP as a calving area.</p>
6	Calving	<ul style="list-style-type: none"> Area was delineated by knowledge holders in 2022 during the joint QIA-QWB review process. <p>Note that a portion of this area was also identified as an important caribou harvesting area. Based on the rules for overlapping designations described in section 3.4 of the technical memo, the polygon is submitted to the NLUP as a calving area.</p>
7	Calving	<ul style="list-style-type: none"> Area was delineated by knowledge holders in 2022 during the joint QIA-QWB review process. <p>Note that a portion of this area was also identified as an important caribou harvesting area. Based on the rules for overlapping designations described in section 3.4 of the technical memo, the polygon is submitted to the NLUP as a calving area.</p>
New Calving and Post-calving Submissions		
8	Calving and Post-calving	<ul style="list-style-type: none"> Area was delineated by knowledge holders in 2022 during the joint QIA-QWB review process. Overlaps with an area previously submitted as a Harvesting Area, in the QWB 2018 Submission. Overlaps with telemetry data from calving and post-calving seasonal windows (1987-1994 and 2008-2011). Overlaps with documented calving IQ and post-calving IQ. Overlaps with the calving and post-calving kernel density estimates (Campbell et al., 2015). Overlaps with Core North Baffin Area delineated in the Baffin Island Caribou Consultations (2012). Overlaps with Female Caribou Area delineated in the Baffin Island Caribou Consultations (2012). Overlaps with the Caribou Area delineated in the Baffin Island Caribou Consultations (2012). <p>Note that portions of this area were also identified as important caribou harvesting areas, winter habitat, and movement corridors. Based on the rules for overlapping designations described in section 3.4 of the technical memo, the polygon is submitted to the NLUP as a calving and post-calving area.</p>

Polygon No.	Polygon Type	Rationale for Submission
9	Calving	<ul style="list-style-type: none"> Area was delineated by knowledge holders in 2022 during the joint QIA-QWB review process. Overlaps with an area previously submitted as a Harvesting Area, in the QWB 2018 Submission. Overlaps with Core North Baffin Area delineated in the Baffin Island Caribou Consultations (2012). Overlaps with the calving and post-calving kernel density estimates (Campbell et al., 2015). Overlaps with telemetry data from calving and post-calving seasonal windows (1987-1994 and 2008-2011). Overlaps with observed caribou from the Baffin Island Caribou Population Survey (2014). Overlaps with observed caribou from caribou composition surveys (2015-2022). Overlaps with documented calving and post-calving IQ. <p>Note that portions of this area were also identified as important caribou harvesting areas, winter habitat, and movement corridors. Based on the rules for overlapping designations described in section 3.4 of the technical memo, the polygon is submitted to the NLUP as a calving area.</p>
10	Calving and Post-Calving	<ul style="list-style-type: none"> Area was delineated by knowledge holders in 2022 during the joint QIA-QWB review process. Overlaps with documented post-calving IQ. Overlaps with Caribou Area delineated in the Baffin Island Caribou Consultations (2012). <p>Note that portions of this area were also identified as an important caribou harvesting area and winter habitat. Based on the rules for overlapping designations described in section 3.4 of the technical memo, the polygon is submitted to the NLUP as a calving and post-calving area.</p>
11	Calving and Post-Calving	<ul style="list-style-type: none"> Area was delineated by knowledge holders in 2022 during the joint QIA-QWB review process.
12	Calving and Post-Calving	<ul style="list-style-type: none"> Area was delineated by knowledge holders in 2022 during the joint QIA-QWB review process. Overlaps with documented calving IQ <p>Note that a portion of this area was also identified as an important caribou harvesting area. Based on the rules for overlapping designations described in section 3.4 of the technical memo, the polygon is submitted to the NLUP as a calving and post-calving area.</p>
13	Calving and Post-Calving	<ul style="list-style-type: none"> Area was delineated by knowledge holders in 2022 during the joint QIA-QWB review process. Overlaps with calving and post-calving telemetry data (1987-1994). Overlaps with observed caribou from caribou composition surveys (2015-2022). Overlaps with observed caribou from the Baffin Island Caribou Population Survey (2014).

Polygon No.	Polygon Type	Rationale for Submission
		<ul style="list-style-type: none"> Overlaps with the calving and post-calving kernel density estimates (Campbell et al., 2015). <p>Note that portions of this area were also identified as an important caribou harvesting area and winter habitat. Based on the rules for overlapping designations described in section 3.4 of the technical memo, the polygon is submitted to the NLUP as a calving / post-calving area.</p>
14	Calving and Post-Calving	<ul style="list-style-type: none"> Area was delineated by knowledge holders in 2022 during the joint QIA-QWB review process. <p>Note that a portion of this area was also identified as an important caribou harvesting area. Based on the rules for overlapping designations described in section 3.4 of the technical memo, the polygon is submitted to the NLUP as a calving and post-calving area.</p>
15	Calving and Post-Calving	<ul style="list-style-type: none"> Area was delineated by knowledge holders in 2022 during the joint QIA-QWB review process. Overlaps with observed caribou from caribou composition surveys (2015-2022). Overlaps with observed caribou from the Baffin Island Caribou Population Survey (2014). Overlaps with documented calving IQ. <p>Note that a portion of this area was also identified as an important caribou harvesting area. Based on the rules for overlapping designations described in section 3.4 of the technical memo, the polygon is submitted to the NLUP as a calving and post-calving area.</p>
16	Calving and Post-Calving	<ul style="list-style-type: none"> Area was delineated by knowledge holders in 2022 during the joint QIA-QWB review process. Overlaps with the Historical Caribou Area in the Baffin Island Caribou Consultations (2012). <p>Note that a portion of this area was also identified as an important caribou harvesting area. Based on the rules for overlapping designations described in section 3.4 of the technical memo, the polygon is submitted to the NLUP as a calving and post-calving area.</p>
17	Calving and Post-Calving	<ul style="list-style-type: none"> Area was delineated by knowledge holders during the 2022 joint QIA-QWB review process.
18	Calving and Post-Calving	<ul style="list-style-type: none"> Area was delineated by knowledge holders during the 2022 joint QIA-QWB review process. Overlaps with observed caribou from caribou composition surveys (2015-2022). <p>Note that portions of this area were also identified as an important caribou harvesting area and winter habitat. Based on the rules for overlapping designations described in section 3.4 of the technical memo, the polygon is submitted to the NLUP as a calving and post-calving area.</p>
19	Calving and	<ul style="list-style-type: none"> Area was delineated by knowledge holders during the 2022 joint QIA-QWB review process.

Polygon No.	Polygon Type	Rationale for Submission
	Post-Calving	<ul style="list-style-type: none"> Overlaps with observed caribou from caribou composition surveys (2015-2022). <p>Note that portions of this area were also identified as an important caribou harvesting area and winter habitat. Based on the rules for overlapping designations described in section 3.4 of the technical memo, the polygon is submitted to the NLUP as a calving and post-calving area.</p>
20	Calving and Post-Calving	<ul style="list-style-type: none"> Area was delineated by knowledge holders during the 2022 joint QIA-QWB review process. Overlaps with an area previously submitted as a Harvesting Area, in the QWB 2018 Submission. <p>Note that portions of this area were also identified as an important caribou harvesting area and winter habitat. Based on the rules for overlapping designations described in section 3.4 of the technical memo, the polygon is submitted to the NLUP as a calving and post-calving area.</p>
21	Calving and Post-Calving	<ul style="list-style-type: none"> Area was delineated by knowledge holders during the 2022 joint QIA-QWB review process. <p>Note that a portion of this area was also identified as caribou winter habitat. Based on the rules for overlapping designations described in section 3.4 of the technical memo, the polygon is submitted to the NLUP as a calving and post-calving area.</p>
22	Calving and Post-Calving	<ul style="list-style-type: none"> Area was delineated by knowledge holders during the 2022 joint QIA-QWB review process. <p>Note that a portion of this area was also identified as caribou winter habitat. Based on the rules for overlapping designations described in section 3.4 of the technical memo, the polygon is submitted to the NLUP as a calving and post-calving area.</p>
23	Calving and Post-Calving	<ul style="list-style-type: none"> Area was delineated by knowledge holders during the 2022 joint QIA-QWB review process. Overlaps with telemetry data from calving and post-calving seasonal windows (1987-1994). Overlaps with documented calving IQ. <p>Note that a portion of this area was also identified as an important caribou harvesting area. Based on the rules for overlapping designations described in section 3.4 of the technical memo, the polygon is submitted to the NLUP as a calving and post-calving area.</p>
24	Calving and Post-Calving	<ul style="list-style-type: none"> Area was delineated by knowledge holders during the 2022 joint QIA-QWB review process. Overlaps with observed caribou from caribou composition surveys (2015-2022). Overlaps with documented calving IQ.
25	Calving and Post-Calving	<ul style="list-style-type: none"> Area was delineated by knowledge holders during the 2022 joint QIA-QWB review process. Overlaps with an area previously submitted as a Harvesting Area, in the QWB 2018 Submission. Overlaps with the Caribou Area in the Baffin Island Caribou Consultations (2012).

Polygon No.	Polygon Type	Rationale for Submission
		Note that portions of this area were also identified as caribou winter habitat and movement corridor(s). Based on the rules for overlapping designations described in section 3.4 of the technical memo, the polygon is submitted to the NLUP as a calving and post-calving area.
26	Calving	<ul style="list-style-type: none"> • Area was delineated by knowledge holders during the 2022 joint QIA-QWB review process. • Overlaps with telemetry data from calving and post-calving seasonal windows (1987-1994 and 2008-2011). • Overlaps with observed caribou from caribou composition surveys (2015-2022). • Overlaps with documented calving and post-calving IQ. • Overlaps with the Core North Baffin Area in the Baffin Island Caribou Consultations (2012). • Overlaps with the calving and post-calving kernel density estimates (Campbell et al., 2015). <p>Note that portions of this area were also identified as caribou winter habitat and movement corridor(s). Based on the rules for overlapping designations described in section 3.4 of the technical memo, the polygon is submitted to the NLUP as a calving area.</p>
27	Calving	<ul style="list-style-type: none"> • Area was delineated by knowledge holders during the 2022 joint QIA-QWB review process. • Overlaps with telemetry data from calving and post-calving seasonal windows (1987-1994 and 2008-2011). • Overlaps with observed caribou from caribou composition surveys (2015-2022) • Overlaps with documented calving and post-calving IQ. • Overlaps with the Core North Baffin Area in the Baffin Island Caribou Consultations (2012). • Overlaps with the Female Caribou Area in the Baffin Island Caribou Consultations (2012). • Overlaps with the calving and post-calving kernel density estimates (Campbell et al., 2015). <p>Note that portions of this area were also identified as caribou winter habitat, movement corridor(s), and harvesting areas. Based on the rules for overlapping designations described in section 3.4 of the technical memo, the polygon is submitted to the NLUP as a calving area.</p>
28	Calving and Post-Calving	<ul style="list-style-type: none"> • Area was delineated by knowledge holders during the 2022 joint QIA-QWB review process. • Overlaps with an area previously submitted as a Harvesting Area, in the QWB 2018 Submission <p>Note that a portion of this area was also identified as caribou winter habitat. Based on the rules for overlapping designations described in section 3.4 of the technical memo, the polygon is submitted to the NLUP as a calving and post-calving area.</p>
29	Post Calving	<ul style="list-style-type: none"> • Area was delineated by knowledge holders during the 2022 joint QIA-QWB review process.

Polygon No.	Polygon Type	Rationale for Submission
		<ul style="list-style-type: none"> • Overlaps with 2018 Submission QWB WS 11. • Overlaps with telemetry data from post-calving seasonal windows (1987-1994). • Overlaps with observed caribou from the Baffin Island Caribou Population Survey (2014). • Overlaps with observed caribou from caribou composition surveys (2015-2022) • Overlaps with post-calving areas from Redhead, 1976. • Overlaps with post-calving areas from Elliot, 1974. • Overlaps with the calving and post-calving kernel density estimates (Campbell et al., 2015) <p>Note that portions of this area were also identified as an important caribou harvesting area and winter habitat. Based on the rules for overlapping designations described in section 3.4 of the technical memo, the polygon is submitted to the NLUP as a post-calving area.</p>
30	Calving and Post-Calving	<ul style="list-style-type: none"> • Area was delineated by knowledge holders during the 2022 joint QIA-QWB review process. • Overlaps with Historical Caribou Area defined in the Baffin Island Caribou Consultations (2012). <p>Note that portions of this area were also identified as an important caribou harvesting area and winter habitat. Based on the rules for overlapping designations described in section 3.4 of the technical memo, the polygon is submitted to the NLUP as a calving and post-calving area.</p>
31	Calving and Post-Calving	<ul style="list-style-type: none"> • Area was delineated by knowledge holders during the 2022 joint QIA-QWB review process. • Overlaps with an area previously submitted as a Harvesting Area, in the QWB 2018 Submission. • Overlaps with Caribou Area identified in the Baffin Island Caribou Consultations (2012). <p>Note that a portion of this area was also identified as a movement corridor. Based on the rules for overlapping designations described in section 3.4 of the technical memo, the polygon is submitted to the NLUP as a calving and post-calving area.</p>
32	Calving and Post-Calving	<ul style="list-style-type: none"> • Area was delineated by knowledge holders during the 2022 joint QIA-QWB review process. • Overlaps with 2018 QWB Submission Multiple Value Area Qikiqtarjuaq - WS40. • Overlaps with Caribou Area identified in the Baffin Island Caribou Consultations (2012). • Overlaps with the Summer Area identified in the Baffin Island Caribou Consultations (2012).
33	Calving and Post-Calving	<ul style="list-style-type: none"> • Area was delineated by knowledge holders during the 2022 joint QIA-QWB review process. • Overlaps with telemetry data from calving and post-calving seasonal windows (1987-1994 and 2008-2011). • Overlaps with post-calving area from Elliot, 1974

Polygon No.	Polygon Type	Rationale for Submission
		<ul style="list-style-type: none"> • Overlaps with 2018 QWB Submission - WS-11. • Overlaps with post-calving kernel density estimates (Campbell et al., 2015).
34	Post-Calving	<ul style="list-style-type: none"> • Area was delineated by knowledge holders during the 2022 joint QIA-QWB review process. • Overlaps with aerial caribou observation data. • Overlaps with documented calving and post-calving IQ. • Overlaps with 2018 QWB Submission WS-11. • Overlaps with the post-calving kernel density estimates (Campbell et al., 2015). <p>Note that portions of this area were also identified as an important caribou harvesting area, movement corridor, and winter habitat. Based on the rules for overlapping designations described in section 3.4 of the technical memo, the polygon is submitted to the NLUP as a post-calving area.</p>
35	Calving	<ul style="list-style-type: none"> • Area was delineated by knowledge holders during the 2022 joint QIA-QWB review process. • Overlaps with telemetry data from calving and post-calving seasonal windows (1987-1994). • Overlaps with observed caribou from caribou composition surveys (2015-2022). • Overlaps with observed caribou from the Baffin Island Caribou Population Survey (2014). • Overlaps with calving and post-calving areas from Elliot, 1974. • Overlaps with calving areas from Chowns and Popko, 1979. • Overlaps with 2018 QWB Submission WS-11. • Overlaps with Caribou Area identified in the Baffin Island Caribou Consultations (2012). • Overlaps with calving and post-calving kernel density estimates (Campbell et al., 2015). <p>Note that a portion of this area was also identified as a movement corridor. Based on the rules for overlapping designations described in section 3.4 of the technical memo, the polygon is submitted to the NLUP as a calving area.</p>
36	Calving and Post-Calving	<ul style="list-style-type: none"> • Area was delineated by knowledge holders during the 2022 joint QIA-QWB review process. <p>Note that a portion of this area was also identified as a movement corridor. Based on the rules for overlapping designations described in section 3.4 of the technical memo, the polygon is submitted to the NLUP as a calving and post-calving area.</p>

Sources of Information: These areas have been delineated by HTOs who are most familiar with the different subregions of the Qikiqtaaluk, and are primarily based on Inuit Qaujimajatuqangit. As noted in Table 1 of the accompanying Technical Memo, each polygon or cluster of polygons is cross referenced to underlying Inuit Qaujimajatuqangit from other studies, and western scientific information from a variety of different sources. Note that due to the limited spatial (i.e., not all areas of Baffin Island were covered) and temporal (i.e., western science data do not cover all time periods in the population cycle) extents of other data sources in the Qikiqtaaluk region, an absence of overlapping data from other sources should not be used to negate or downgrade the importance of areas identified by HTOs in the 2022 workshops.

Proposed Designation: Limited Use

Proposed Restrictions: The following uses are prohibited:

- Oil and gas exploration and production;
- Mineral exploration and production;
- Quarries;
- Hydro-electrical and related infrastructure;
- Wind turbines for electrical generation and related infrastructure;
- Linear infrastructure; and
- Related research except non-exploitative scientific research.

Conditional Restrictions: In addition to the prohibited uses noted above, the following conditional restrictions are requested for all polygons identified as calving and post-calving areas:

- During the calving and post-calving period for the Qikiqtaaluk region (from June 12th - August 31st for barren-ground caribou; from May 25th to August 31st for Peary caribou), helicopters and airplanes must maintain a vertical distance of at least 300 meters / 1000 feet above ground level (magl) or a horizontal distance of at least 600 meters / 2000 ft from all identified calving and post-calving habitat.
- For the Peary caribou area identified in pink on the attached map, these overflight restrictions apply from December 1st to August 31st.
- Wind turbines for electrical generation must be at least 5 km from caribou calving and post-calving areas, and must be positioned so they are not visible from caribou calving and post-calving areas.

Proposed Boundaries of Calving and Post-Calving Limited Use Designations

See the attached map and the associated shapefiles. The attached map shows both previously submitted calving and post-calving areas, which are being resubmitted in some cases with revisions (areas outlined in black), as well as newly submitted calving and post-calving areas (no black outline). It includes the areas in pink already identified as Peary caribou habitat areas, which are generally classified as habitat in the 2021 DNLUP and should remain that way in the final NLUP. The shapefile package includes a) newly proposed calving and post-calving areas;

b) revisions to previously submitted calving and post-calving areas; c) resubmissions of previously accepted calving and post-calving areas (including the general Peary caribou habitat areas); and (d) resubmissions of previously submitted areas that were not accepted.

References: See accompanying Technical Memo QWB-QIA-2023-A-TM for full reference list.

