

Nahanni National Park Reserve
Southwest Northwest Territories Field Unit
10005 100 Street
Fort Simpson, NT
X0E 0N0

March 20, 2024

To: Distribution List

Re: Notification of Completion of Preliminary Screening of Aircraft Operations in Nahanni and Nááts'j'ihch'oh National Park Reserves

In accordance with the *Mackenzie Valley Resource Management Act*, Parks Canada has conducted a preliminary screening of Aircraft Operations in Nahanni and Nááts'j'ihch'oh National Park Reserves. Parks Canada has determined that the development may proceed after receiving appropriate authorization. Authorization will not occur until the 10-day pause period for preliminary screenings has completed. Please find the completed preliminary screening attached.

Thank you.

Sincerely,

Colleen Murchison

Ecologist Team Leader, Nahanni National Park Reserve
Parks Canada
Phone: (867) 695-6639
Email: colleen.murchison@pc.gc.ca



Parks Canada Preliminary Screening under the *Mackenzie Valley Resource Management Act*

TYPE OF DEVELOPMENT:

- New
- Amended
- Requires a permit, licence or authorization under the *Preliminary Screening Requirement Regulations* (issuance of a Business Licence and Aircraft Access Permit pursuant to the *National Parks of Canada Business Regulations* s 4.1)
- Does not require permit, licence or authorization and is proposed by PCA

1. DEVELOPMENT TITLE & LOCATION

Aircraft Charter Company Operations in Nahanni and Nááts'j'ch'oh National Park Reserves

2. PROPONENT INFORMATION

See "Companies Licensed to Operate in Nahanni and/or Nááts'j'ch'oh", page 2 of this screening

3. PROPOSED DEVELOPMENT DATES

Planned commencement: 2024-04-01
Planned completion: 2025-03-31

4. INTERNAL FILE #

NAH2024-002

5. DEVELOPMENT DESCRIPTION

Nahanni National Park Reserve (Nahanni) and Nááts'j'ch'oh National Park Reserve (Nááts'j'ch'oh) are accessed primarily by air (fixed and rotary wing aircraft) for park operational and tourism purposes; other than permit-only road access via the Howards Pass Access Road in the extreme western portion of the parks. The majority of air access is facilitated by aircraft charter company outfitters. These companies must obtain Parks Canada business licenses to operate in the parks; according to the *Mackenzie Valley Resource Management Act* (MVRMA) their activities must undergo preliminary screening before these licenses can be issued. Aircraft operations run throughout the year, though decrease substantially and are primarily limited to park operational requirements during the fall, winter, and spring. Day flights, to drop off/pick up overnight visitors and park staff, or facilitate day sightseeing excursions, comprise the majority of charters, though occasional overnight stays are required for park operational



purposes. This preliminary screening applies to the following aircraft charter companies, and up to five additional aircraft operators (for designated landing areas only), and includes the listed activities/locations:

Companies Licensed to Operate in Nahanni and/or Nááts'jch'oh

Air Tindi	Great Slave Helicopters 2018 Ltd. / Sahtu Helicopters	Qwest Helicopters
Alkan Air	Horizon Helicopters Ltd.	Simpson Air 1981 Ltd
Alpine Aviation	Kluane Airways Ltd	South Nahanni Airways
Capital Helicopters	Liard Air Ltd	Trans North Turbo Air Limited
Discovery Helicopters	Nahanni Heli Adventures / Solitude Excursions Ltd	Tundra Helicopters
Fireweed Helicopters Ltd.	Northern Rockies Air Charter Ltd.	
Goose Flying Service	North-Wright Airways Ltd	

Activities at designated landing areas in Nahanni and non-designated landing areas in Nááts'jch'oh

- Day flight seeing experiences
- Commercial transport of visitors and freight for recreational activities such as hiking, mountain climbing, mountaineering, and river trips
- Nahanni and Nááts'jch'oh NPR operational activities
- Transport of researchers for purposes outside of park operational activities



Locations (see map, Appendix 1)

Non-designated aircraft landing areas in Nááts'jch'oh National Park Reserve		
Ⓐ	Nááts'jch'oh Tué (Moose Ponds)	These areas were used as aircraft access points prior to park establishment and may become designated landing sites once archeological assessments are completed. Aircraft operators are permitted annually to land at these locations.
Ⓑ	Túoch'ee Tué (O'Grady Lake)	
Ⓒ	Qtaa Tué Fehto (Divide Lake)	
Ⓓ	Níonep'eneᑦ Tué (Grizzly Bear Lake)	
Ⓔ	Tuededéveh Tué (Clearwater Lake)	
---	Howards's Pass Access Road	Transport of authorized researchers/contractors and/or Parks Canada staff

Non-designated aircraft landing areas in Nahanni National Park Reserve		
Ⓕ	Bologna Glacier	Transport of researchers for park operational activities
---	Howards's Pass Access Road	Transport of authorized researchers/contractors and/or Parks Canada staff
---	Prairie Creek Access Road	Transport of authorized researchers/contractors and/or Parks Canada staff

Designated aircraft landing areas in Nahanni National Park Reserve		
①	Honeymoon Lake	
②	Island Lakes	
③	Glacier Lake	
④	Bunny Bar	
⑤	Gahnjthah Mje	
⑥	South Nahanni River above Nájljcho (Virginia Falls)	
⑦	Seaplane Lake	

6. VALUED COMPONENTS

Note: Outfitting companies have utilized the same locations in both parks since the 1960's and 70's; many have been surveyed for natural and heritage resources (these surveys are ongoing) and areas of significance are avoided/respected by guides and their clients.

Soil/Land Resources

- The parks are located within the Taiga and Boreal Cordillera Ecological regions of the Northwest Territories. These regions include a complex landscape of rugged peaks and ridges, rolling hills, eroded plateaus, deep V- and U-shaped valleys, fast-flowing braided rivers and streams and slow-flowing meandering rivers, and in the south and west, glaciers and icefields. Glacial deposits are widely distributed and occur mainly on the floors and lower slopes of valleys, lakes and ponds are small and sparsely distributed, and wetlands are locally common only on the floodplains and lower slopes of large rivers and on a few broad plateaus. It is an area of discontinuous permafrost (ECG, 2010). To protect the alpine forests in Nááts'jch'oh, fires at all lakes are prohibited. This does not apply to Sahtu Dene and



Métis. The area within the original Nahanni park boundary is a UNESCO World Heritage Site, recognized for its exceptional representation of on-going geological processes, including karst topography, hot springs/tufa mounds, and caves. Several of these areas are Zone 1, Special Preservation, and visitor access is restricted (Parks Canada, 2020).

Air/Noise Quality

- No formal observations of air/noise quality have occurred in the parks; however, it is expected that these valued components are excellent and representative of their natural state. The majority of both parks are zone II Wilderness, which represents "extensive areas that are good representations of a natural region and are conserved in a wilderness state" and "in much of Zone II, visitors have the opportunity to experience remoteness and solitude. Motorized access is not permitted except for controlled air access" (Parks Canada, 2017 & 2020).

Aquatic Resources

- SARA-listed Bull Trout (*Salvelinus confluentus*) are present in the South Nahanni River below Nájljicho (Babaluk, 2015).
- The South Nahanni River is silt-laden (March and Scotter, 1975), as is common of many rivers and streams in this area as they flow through glacial deposits (ECG, 2010).

Flora and Fauna

- Migratory and SARA-listed birds are present in the parks and may nest at locations visited by guided groups; the general nesting season for this area extends from approximately May 1 to August 25. Common Nighthawk (*Chordeiles minor*), a ground-nesting species has been observed nesting on the Prairie Creek, Clearwater Creek, and Bunny Bar alluvial fans (Tate, pers. comm., 2017; Arnold, pers. comm., 2020).
- Five bat species (including two SARA-listed species) – Little Brown Myotis (*Myotis lucifugus*), Northern Myotis (*Myotis septentrionalis*), Long-legged Myotis (*Myotis volans*), Big Brown Bat (*Eptesicus fuscus*), and Hoary Bat (*Lasiurus cinereus*) – have been recorded in both parks (Lausen et al., 2014; EDI, 2019), while the occurrence of two additional species – Long-eared Myotis (*Myotis evotis*) and Eastern Red Bat (*Lasiurus borealis*) – has only been confirmed within Nahanni (Lausen et al., 2014). As of 2019, two cave sites within Nahanni, including Grotte Valerie, have been confirmed as hibernacula for Myotis bat species and two additional sites are suspected (Horne and Critchley, 2020). Current evidence suggests that Grotte Valerie is likely used as a hibernaculum by five species: Little Brown Bat, Northern Myotis, Long-legged Myotis, Big Brown Bat and Long-eared Myotis (C. Lausen and G. Horne, pers. comm., 2017). All caves in the park reserves are off-limits to visitors.
- Grizzly Bear (*Ursus arctos* – Western population) have a widespread distribution throughout the parks (Weaver, 2006). However, grizzly bear encounters in the parks are relatively uncommon with between 0 and 10 sightings reported annually by visitors and park staff in Nahanni from 2010 to 2017 and 1-2 annual sightings reported in Nááts'jìhch'oh from 2016 to 2017 (Nahanni National Park Reserve, 2017). Most grizzly bear sightings occur in areas of the park where food caches are provided for visitors to store food and other attractants – Gahnjìthah Mje, Nájljicho and Glacier Lake. With lower visitor numbers and no designated camping areas/food caches, Nááts'jìhch'oh communicates notices of bear activity to visitors



as early as possible. In Nááts'jìhch'oh, camping within 1km of hot springs is prohibited. This is in part due to the high number of observations of grizzly bear activity recorded on remote cameras. Additionally, in accordance with Nahanni's Bear Management Plan, all reported bear observations are carefully reviewed by park staff to determine whether management action (e.g., public alerts, area closures, etc.) should be taken to prevent human-bear conflict.

- Interaction with other SARA-listed species in the parks – i.e., Collared pika (*Ochotona collaris*), Caribou (*Rangifer tarandus* - boreal population) and Woodland caribou (*Rangifer tarandus* caribou - Northern Mountain population) – will be minimal as visitors either do not frequent habitats where these species are located, or visitation does not occur during periods of significant congregation such as calving. No adverse effects are anticipated if the mitigation measures described in this screening are followed.
- No SARA-listed vegetation species will be impacted. Nahanni Aster (*Symphyotrichum nahanniense*), a SARA-listed species, exists at various locations along the Flat and South Nahanni rivers (COSEWIC, 2014). Three of these populations are protected as Zone I Special Preservation (no public access except by permit or with Parks staff present) and the remaining four are in Zone II Wilderness areas (Parks Canada, 2020).

Social/Cultural Environment (including Wildlife Harvesting)

- Harvesting (wildlife, plants, and trees) and motorized access for traditional activities within park boundaries is a right of local First Nations and Sahtu Métis (Parks Canada, 2017 & 2020).
- Public access to Zone I special preservation areas with significant cultural importance, including Mount Nááts'jìhch'oh and Chitú (Yohin Lake), is not allowed (Parks Canada, 2017 & 2020). Public access to the south tufa mound at Gahnjìhthah is permitted through guided hikes only (Parks Canada, 2020). Traditional use by local First Nations and Sahtu Métis is not restricted through park zoning.

Heritage Resources

- Heritage resources are defined as a human work, an object, or a place that is determined, based on its heritage value, to be directly associated with an important aspect or aspects of human history and culture of a heritage area (Parks Canada, 2013). Heritage resources include archaeological or historic sites, burial sites, artifacts, and other objects of historical, cultural, or religious significance, and historical or cultural records (MVRMA (s.2)). Heritage resources exist throughout both parks. Although surveys have been conducted to identify these resources at certain locations along major river valleys, lakes, and in the Glacier Lake/Cirque of the Unclimbables area, there remains a high potential for the presence of undocumented resources throughout both parks.

7. EFFECTS ANALYSIS

See "*Parks Canada Best Management Practice (BMP) for Aircraft Operations and Landings in Nahanni and Nááts'jìhch'oh National Park Reserves of Canada*" (Appendix 2).



8. MITIGATION MEASURES

Aircraft charter company operators will adhere to mitigations described in the "*Parks Canada Best Management Practice (BMP) for Aircraft Operations and Landings in Nahanni and Nááts'jch'oh National Park Reserves of Canada*" (Appendix 2) and, when applicable, the *Fuel Caching Protocol for Nahanni National Park Reserve and Nááts'jch'oh National Park Reserve*.

9. OTHER CONSIDERATIONS

- Surveillance
 - Follow-up monitoring, general
 - Follow-up monitoring, required by legislation or policy (indicate basis of requirement e.g., required by the *Species at Risk Act*)
 - SARA Notification
- ✓ Additional conditions may be placed on business licenses for Nááts'jch'oh

10. SIGNIFICANCE OF RESIDUAL ADVERSE EFFECTS

Given the limited and short-term magnitude of effects, the location in predominantly pre- impacted areas, and the application of mitigation measures the development is not expected to cause residual adverse effects to natural/cultural resources or visitor experience.

11. EXPERTS CONSULTED

<i>Department:</i> Parks Canada / Government of Canada	<i>Date of Request:</i> January 9, 2018
<i>Expert's Name & Contact Information:</i> Patrick Carroll PO Box 750, Fort Smith, NT X0E 0P0 Patrick.carroll@pc.gc.ca / Tel: 867-872-7936	<i>Title:</i> Cultural Resource Management Advisor, SW NWT Field Unit
<i>Expertise Requested:</i> General information on heritage resource surveys/inventories for both parks	
<i>Response:</i> See information in section 6 (Valued Components)	
<i>Department:</i> Parks Canada / Government of Canada	<i>Date of Request:</i> June 15, 2017



<p><i>Expert's Name & Contact Information:</i> Doug Tate 22 Third Street, Nipigon, ON, P0T 2J0 Doug.Tate@canada.ca / Tel: 807-372-0011</p>	<p><i>Title:</i> Ecologist Team Lead, Lake Superior National Marine Conservation Area</p>
<p><i>Expertise Requested:</i> Information on Common Nighthawk nesting locations</p>	
<p><i>Response:</i> See information in section 6 (Valued Components)</p>	
<p><i>Departments:</i> Wildlife Conservation Society Canada Parks Canada / Government of Canada</p>	<p><i>Date of Request:</i> November 2017</p>
<p><i>Experts Names & Contact Information:</i> Cori Lausen Suite 204 - 344 Bloor Street West, Toronto, ON M5S 3A7 cLausen@wcs.org Greg Horne 1 Compound road, Jasper, AB greg.horne@canada.ca / Mobile: 780-883-0253</p>	<p><i>Titles:</i> Associate Conservation Scientist Resource Management Officer II</p>
<p><i>Expertise Requested:</i> Information on bat species potentially using Grotte Valerie as a hibernaculum</p>	
<p><i>Response:</i> See information in section 6 (Valued Components)</p>	
<p><i>Department:</i> Parks Canada / Government of Canada</p>	<p><i>Date of Request:</i> February 21, 2020</p>
<p><i>Expert's Name & Contact Information:</i> Sarah Arnold PO Box 348, Fort Simpson, NT X0E 0N0 sarah.arnold@canada.ca / Tel: 867-695-7768</p>	<p><i>Title:</i> Ecologist Team Lead, Nahanni National Park Reserve</p>
<p><i>Expertise Requested:</i> Information on Common Nighthawk nesting locations</p>	
<p><i>Response:</i> See information in section 6 (Valued Components)</p>	

11.1 References

Arnold, S. 2020. Personal communication February 2020. Ecologist Team Leader, Nahanni National Park Reserve, Parks Canada.



- Babaluk *et al.* 2015. *Distribution of Fish Species within the South Nahanni River Watershed, Northwest Territories*. Department of Fisheries and Oceans Canada. Winnipeg, MB
- COSEWIC. 2014. *COSEWIC assessment and status report on the Nahanni Aster Symphyotrichum nahanniense in Canada*. Committee on the Status of Endangered Wildlife in Canada. Ottawa. ix + 39 pp. (www.registrelep-sararegistry.gc.ca/default_e.cfm).
- Ecosystem Classification Group (ECG). 2010. *Ecological Regions of the Northwest Territories – Cordillera*. Department of Environment and Natural Resources, Government of the Northwest Territories, Yellowknife, NT, Canada. Available online at: http://www.enr.gov.nt.ca/sites/enr/files/resources/cordillera_ecological_land_classification_report.pdf
- EDI. 2019. *HPAR Wildlife Baseline Studies – 2019 Field Season Results Summary*. Unpublished report.
- Horne, G. 2016. *Nahanni National Park Reserve, Report of Bat and Cave Monitoring - 2016*. Unpublished report.
- Horne, G. and D. Critchley. 2020. *Nahanni National Park Reserve, Report of Bat and Cave Monitoring – 2019*. Unpublished report.
- Lausen *et al.* 2014. *Bats of Nahanni National Park Reserve and Surrounding Areas, Northwest Territories*. *Northwestern Naturalist*. 95:186-196.
- Lausen, C. and G. Horne. Email, November 2017.
- Mackenzie Valley Resource Management Act (MVRMA). 2016. Available online at: <http://laws-lois.justice.gc.ca/eng/acts/M-0.2/>
- March, A.H. and G.W. Scotter. 1975. *Vegetation Survey and Impact Assessment of the Nahanni Hot Springs and Virginia Falls Areas, Nahanni National Park*. Prepared for Parks Canada by the Canadian Wildlife Service, Edmonton.
- Nahanni National Park Reserve. 2017. *Bear Observation Database*. Unpublished raw data.
- Parks Canada. 2013. *Cultural Resource Management Policy*.
- Parks Canada. 2017. *Nááts'jch'oh National Park Reserve Management Plan*.
- Parks Canada. 2020. *Nahanni National Park Reserve of Canada Nah?q Dehé Management Plan*.
- Parks Canada. 2019. *Guidelines for Licensing of Guided River Outfitting in Nahanni and Nááts'jch'oh National Park Reserves*. Available online at: <https://www.pc.gc.ca/en/pn-np/nt/nahanni/info/guides>



Tate, D. 2017. Personal communication June 2017. Ecologist Team Leader, Lake Superior National Marine Conservation Area, Parks Canada.

Weaver, J.L. 2006. Big Animals and Small Parks: Implications of Wildlife Distribution and Movements for Expansion of Nahanni National Park Reserve. Wildlife Conservation Society Canada. Conservation Report No. 1.

12. REVIEW PERIOD

The development description was sent to the MVEIRB, for posting on the public registry, and the distribution list on February 26, 2024. Anyone from the public could provide comments on or before March 19th, 2024. No concerns were raised by the public.

13. DECISION

Taking into account the analysis and implementation of mitigation measures outlined in the analysis, the development:

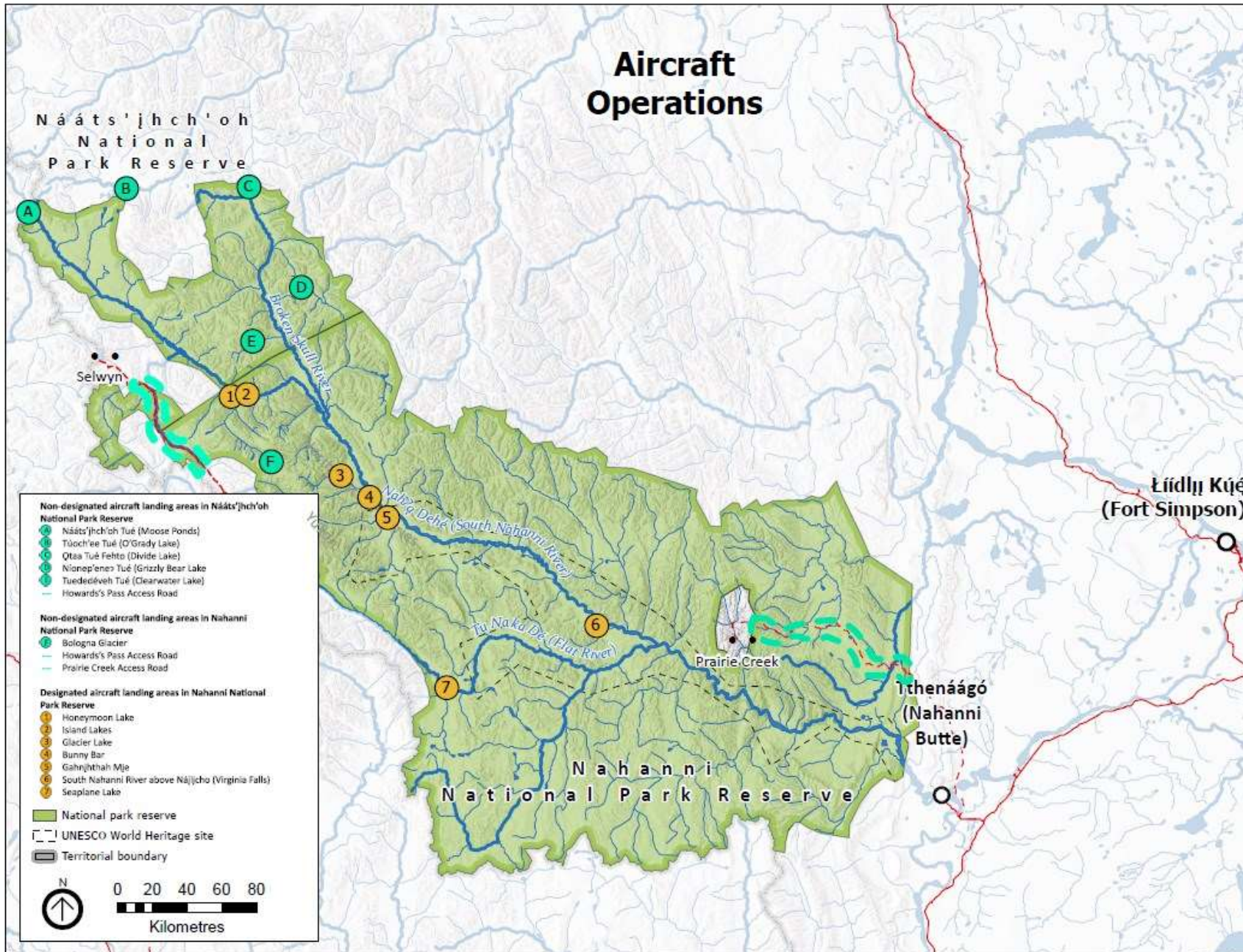
- Might have a significant adverse impact on the environment, and the proposal should be referred to the *Mackenzie Valley Environmental Impact Review Board* for environmental assessment.
- ✓ Does not have a likelihood of causing significant adverse impact on the environment.
- Might be a cause for public concern, and the proposal should be referred to the *Mackenzie Valley Environmental Impact Review Board* for environmental assessment.
- ✓ Does not have a likelihood of causing public concern.

14. APPROVAL

Prepared by: <i>Colleen Murchison</i> Ecologist Team Leader, Nahanni National Park Reserve	Date: March 20, 2024
Approved by: <i>Cindy Baryluk</i> <i>Cindy Baryluk</i> A/Superintendent, Nááts'ihch'oh National Park Reserve	Date: March 20, 2024
Approved by: <i>J Carpenter</i> <i>Jennifer Carpenter</i> A/Superintendent, Nahanni National Park Reserve	Date: March 20, 2024

APPENDIX 1

Note: all flight start/end locations are from designated airports/aerodromes outside of the parks.





APPENDIX 2: Parks Canada Best Management Practice (BMP) for Aircraft Operations and Landings in Nahanni and Nááts'jch'oh National Park Reserves of Canada

Note: see attachment in accompanying email



APPENDIX 3 - Distribution List

<i>Organization</i>	<i>Contact</i>
Mackenzie Valley Environmental Impact Review Board	preliminaryscreening@reviewboard.ca
Mackenzie Valley Land and Water Board	jpotten@mvlwb.com ; tyree@mvlwb.com
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