

Sahtú Land Use Plan

VOLUME 2

Appendix 3:

GIS Protocols, Methodology,
and
Physical Limits Zone Descriptions

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Part 1: GIS Protocols and Methodology

Recording the methodology for how the zoning shapefiles of the SLUP were created is important as it ensures that the formulation of the zones can be replicated at a later date. In turn, this ensures that knowledge is not lost over time. Along with protocols as to how the shapefile can be used, this provides greater confidence and legitimacy in the zoning shapefile, gives clarity as to how the zones are created, and defines their boundaries, as well as how all of the zones fit together.

Cartographic Information

Datum and Projection

The coordinates listed in this document relating to the boundaries of the zones have been defined using the **NAD83 datum** and are listed in Degrees Minutes Seconds.

When projecting the map, the **Northwest Territories Lambert Conformal Conic** projection should be used, as this is the standard projection used for maps of the Northwest Territories. This projection's parameters are the following:

Projection: Lambert Conformal Conic;
Datum: NAD83;
CRS Code: 3580;
Latitude of false origin: 0 [degree];
Easting at false origin: 0 [metre];
Northing at false origin: 0 [metre];
Longitude at false origin: -112 [degree];
Latitude of 1st standard parallel 1: 62 [degree];
Latitude of 2nd standard parallel 2: 70 [degree];

Furthermore, hydrology data from Natural Resources Canada's **CanVec** dataset must be used to display **streams, rivers, and lakes**. The scale of this base data is dependent on the user's map scale, where the user must select the appropriate base data scale for their purposes. However, base data must not be larger than 1:50,000.

Rounding of Decimal Seconds

When defining the coordinates of the metes and bounds for the different zones, it is important to note that the **decimal seconds were rounded off to the nearest second**, as decimal seconds are not significant digits at the proposed scale of the zoning shapefile. This can cause the vertices of the boundary to be up to ± 17 metres off from the metes and bounds written in the zone description, which is insignificant and not quantifiable at the data scale. This is true for the boundaries of all zones except those of National Parks (Saoyú-?ehdacho National Historic Site of Canada and Nááts'ihch'oh National Park Reserve of Canada), Established Protected Areas (EPAs), Proposed Conservation Initiatives (Zone 39, 65, and 66) (PCIs), Zone 56 Kelly Lake Protected Area (Land Claim) Conservation Zone (CZ), as well as the boundaries of other SLUP zones that share a boundary with these. The reason why these zones do not adhere to the above-mentioned standard for scale is that they were defined using other methods and scale outside of the SLUPB's scope.

Scale

The scale of the data layers is **1:50,000**, meaning that the zones should not be displayed at larger scales. However, it is important to note that the coordinates describing boundaries of certain Proposed Conservation Initiatives (PCIs) and Established Protected Areas (EPAs) are defined for use at smaller scales (1:250,000 and smaller), as their boundaries were described in other documents such as the *Sahtu Dene and Metis Comprehensive Land Claim Agreement (SDMCLCA)*. These are out of the SLUPB's scope, where this information is noted in the zone description, as well as where to find the coordinates defining these areas (e.g. land claim agreements, land withdrawal orders, etc).

Zoning Information

Associated Data Layers

Any external data layers used to create the zones, such as hydrology to create a buffer around a lake or river, are mentioned directly in the zone description. The following is a table that contains external data sources that are needed to formulate SLUP zones. The Canol Trail centre line from the NTDB (presently obsolete) is used over newer data from CanVec as it is more appropriate given that there are not any gaps in the data.

Required Layers	Dataset	Author	Date	Data Scale/Accuracy
Canol Trail Centre Line	NTDB (National Topographic Database) – Obsolete	Natural Resources Canada	2009	1:250,000
Community and Block Land Transfer Boundaries	GNWT Community Data Base Mapping	Department of Municipal and Community Affairs (MACA), Government of the Northwest Territories	2012-2016 (depending on the community)	1:5,000
Elevation Contours	CanVec	Natural Resources Canada	2017	1:50,000
Hydrology	CanVec	Natural Resources Canada	2017	1:50,000
Sahtú District Boundaries		Sahtu GIS Project	2007	Unknown
Sahtu Settlement Area Boundary	CLAB (Canada Lands Administrative Boundaries)	Natural Resources Canada	2017	Accuracy ranging from 10-100 metres.
Sahtu Settlement Lands (Sahtu Parcels) - Surveyed	Cadastral Information in the Northwest Territories	Surveyor General Branch, Natural Resources Canada	2017	Accuracy generally better than 2 metres, with the accuracy of older remote parcel surveys ranging from 10-100 metres.

Watershed Delineation	NHN (National Hydro Network)	Natural Resources Canada	2017	1:50,000
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Cardinal Directions for Metes and Bounds

The cardinal directions used in the metes and bounds zone descriptions are for True North, and not Grid North. These were determined by defining a range of 20° for each cardinal direction, and a range of 70° for each intercardinal direction. The example demonstrating this is as follows.

- Northerly: 350° to 10°
- Northeasterly: 10° to 80°
- Easterly: 80° to 100°
- Southeasterly: 100° to 170°
- Southerly: 170° to 190°
- Southwesterly: 190° to 260°
- Westerly: 260° to 280°
- Northwesterly: 280° to 350°

Quality Check

After completing modifications to spatial data through an amendment to the Plan, a quality check is required. This can be completed through a topology check on the Feature Dataset. The rules that need to be used include “Must Cover Each Other”, meaning that the SLUP zoning must cover all of the Sahtu Settlement Area. As well, “Must Not Have Gaps” and “Must Not Overlap” are to be used on the SLUP Zoning to assure that there are no sliver polygons formed or overlaps between the SLUP zones.

Buffers Considering Topography

Euclidean buffers are used to describe the boundaries of certain zones, thus they only account for the straight line distance (two-dimensional) from the buffered feature and do not account for topography. Euclidean buffers were used in the previous versions of the SLUP shapefile, as well as for zoning in adjacent planning areas. An analysis was done for zones in the Sahtú using the CDEM (Canadian Digital Elevation Model), a publicly and freely available DEM (Digital Elevation Model) from Natural Resources Canada, to see how buffers that account for terrain differ from Euclidean buffers. For zones of the SLUP, Euclidean buffers and the buffers that account for topography comprise a difference up to a maximum of 5% of the buffer width, regardless of its area and topography (mountainous vs. relatively flat). This difference is within the tolerance for the scale of the data (1:50,000), amounting to a maximum difference of 25 m on a 500 m buffer. As well, the main vertices of the boundaries are almost identical, with the maximum differences of 5% occurring at mid points between vertices due to the generalised shape of the buffer produced, where generalisation happens when converting raster outputs to a vector polygons. Furthermore, as buffers that account for topography need a DEM, the raster’s output resolution is only as good as the DEM that is inputted. The best publicly available DEM for this is the CDEM, which has lower resolution at higher latitudes. With a higher resolution DEM, a more accurate buffer could be produced using topography, but would only be useful when considering a scale larger than 1:50,000.

Other Information

When displaying the zoning shapefile with the mentioned hydrology data from Natural Resources Canada's CanVec dataset, there may be slight misalignments of certain zones with the ordinary high water mark, such as 15. Fossil Lake Conservation Zone or 25. Du K'ets'edi SMZ (Sentinel Islands) Special Management Zone. The reason for this is that the boundaries of these zones are based on the surveyed parcels described in the *Sahtu Dene and Metis Comprehensive Land Claim Agreement (SDMCLCA)*, with the boundaries provided by the Cadastral Information in the Northwest Territories shapefile, produced by the Surveyor General Branch of Natural Resources Canada at a scale larger than 1:50,000. As such, the ordinary high water marks may be slightly different than the ordinary high water mark of hydrology data from Natural Resources Canada's CanVec dataset.

Shapefile Information

Disclaimer

The SLUP zoning shapefile is meant to be a supplemental tool for communicating the land use plan's zones, and does not replace the SLUP. Due to map scale, the boundaries of the shapefile are not to be used at scales larger than 1:50,000, as they will not be accurate at larger scales. As such, if it is unclear at a scale of 1:50,000 or smaller in which zone a specified area falls within, a survey may be required using the information provided in the physical zone description of the SLUP. In any event of a discrepancy between the SLUP and its zoning shapefile, what is written in the SLUP will take precedence.

Shapefile Updates

As to assure that the public has the most up-to-date zoning shapefile, a news item is to be created on the website advising of any shapefile updates. Furthermore, an email would be sent to a **distribution list** including all of the SLUP's shapefile users. This **distribution list** would be formulated using the list of previous users who downloaded the SLUP's shapefile through the SLUPB's website, as well as other contacts from various organisations and governments. All **shapefile updates** will specify its **version**, and will come complete with a version release, such as what was changed due to corrections or a Plan amendment.

Files Contained Within the Downloadable .zip File

Along with the SLUP's zoning shapefile, GIS protocols and methodology for creating the shapefile is to be included in the .zip file that is downloadable from the SLUPB website. This would assure that all concerns regarding the shapefile are addressed and all information would be available to the SLUP shapefile users.

Metadata

The SLUP zoning shapefile metadata should be consulted using ArcCatalog, as this built-in method for displaying metadata is universal, being displayed in a standard format. Inputting and consulting metadata in this manner assures that the ISO 19115 standards for geospatial information are adhered to, including title, key words, a summary and description of the data, projection, scale, creation date, as well as the shapefile's use limitations. For information related to specific zones, please consult the zone descriptions in the SLUP.

Part 2: Physical Limits Zone Descriptions

1. Behsele Nl̓l̓né (Ontaratue River) Special Management Zone

Datum: NAD83

A **1 km special management buffer** is applied to the ordinary high water mark of the Ontaratue River, using the hydrology layers from Natural Resources Canada's CanVec dataset (2017).

However, some areas of the buffer are erased as per the boundaries of the zones listed below, as they supersede the special management buffer.

- 63. Deh Cho (Mackenzie River) Special Management Zone;
- 65. Ts'udé Nl̓l̓né Tuyeta (Ramparts River and Wetlands) Proposed Conservation Initiative.

Metes and bounds

No metes and bounds are described for this zone, as it is based on a buffer placed along a river. For the boundaries of the zones that supersede the special management buffer for Behsele Nl̓l̓né (Ontaratue River), please refer to their respective zone descriptions.

2. Q̄hdarah Túé (Marion Lakes) Special Management Zone

Datum: NAD83

The western and southern boundaries of the Q̄hdarah Túé (Marion Lakes) Special Management Zone are based on approximate boundaries for the Level IV Arctic Red Plain LS Ecoregion, as described by the Northwest Territories Ecosystem Classification Reports, provided by a digital shapefile from the Department of Natural Resources, Government of the Northwest Territories (2013). These boundaries have been generalised as to provide a metes and bounds zone description.

Metes and bounds

1. Commencing at a point on the Sahtu Settlement Area boundary at latitude 66°58'55" North and approximate longitude 131°44'31" West;
2. Thence generally northeasterly following the boundary of the Sahtu Settlement Area, to a point on the boundary of Zone 63 Deh Cho (Mackenzie River) Special Management Zone, at approximate latitude 67°14'17" North and longitude 130°29'56" West;
3. Thence generally southeasterly following the boundary of Zone 63 Deh Cho (Mackenzie River) Special Management Zone, to a point at approximate latitude 66°49'13" North and longitude 130°18'31" West;
4. Thence southwesterly in a straight line to a point at latitude 66°47'45" North and longitude 130°20'33" West;
5. Thence southwesterly in a straight line to a point at latitude 66°46'15" North and longitude 130°21'22" West;
6. Thence southerly in a straight line to a point at latitude 66°44'56" North and longitude 130°21'25" West;
7. Thence southeasterly in a straight line to a point at latitude 66°43'09" North and longitude 130°19'53" West;
8. Thence southeasterly in a straight line to a point at latitude 66°42'11" North and longitude 130°19'17" West;
9. Thence southwesterly in a straight line to a point at latitude 66°41'39" North and longitude 130°19'24" West;
10. Thence southwesterly in a straight line to a point at latitude 66°39'43" North and longitude 130°21'48" West;
11. Thence westerly in a straight line to a point on the boundary of Zone 65 Ts'udé Nl̄l̄né Tuyeta (Ramparts River and Wetlands) Proposed Conservation Initiative, at approximate latitude 66°39'17" North and longitude 130°25'33" West;
12. Thence westerly in a straight line to a point on the boundary of Zone 65 Ts'udé Nl̄l̄né Tuyeta (Ramparts River and Wetlands) Proposed Conservation Initiative, at approximate latitude 66°39'43" North and longitude 130°30'49" West;
13. Thence northwesterly in a straight line to a point at latitude 66°40'31" North and longitude 130°32'21" West;
14. Thence westerly in a straight line to a point at latitude 66°40'57" North and longitude 130°34'55" West;

15. Thence westerly in a straight line to a point at latitude $66^{\circ}40'50''$ North and longitude $130^{\circ}36'08''$ West;
16. Thence westerly in a straight line to a point at latitude $66^{\circ}41'03''$ North and longitude $130^{\circ}40'53''$ West;
17. Thence westerly in a straight line to a point at latitude $66^{\circ}41'29''$ North and longitude $130^{\circ}43'53''$ West;
18. Thence northwesterly in a straight line to a point at latitude $66^{\circ}41'50''$ North and longitude $130^{\circ}44'59''$ West;
19. Thence northwesterly in a straight line to a point at latitude $66^{\circ}42'14''$ North and longitude $130^{\circ}45'39''$ West;
20. Thence northwesterly in a straight line to a point at latitude $66^{\circ}42'26''$ North and longitude $130^{\circ}45'47''$ West;
21. Thence northeasterly in a straight line to a point at $66^{\circ}43'05''$ North and longitude $130^{\circ}45'03''$ West;
22. Thence westerly in a straight line to a point at latitude $66^{\circ}43'19''$ North and longitude $130^{\circ}47'56''$ West;
23. Thence westerly in a straight line to a point at latitude $66^{\circ}43'11''$ North and longitude $130^{\circ}51'27''$ West;
24. Thence westerly in a straight line to a point at latitude $66^{\circ}43'20''$ North and longitude $130^{\circ}53'25''$ West;
25. Thence northwesterly in a straight line to a point at latitude $66^{\circ}43'40''$ North and longitude $130^{\circ}54'50''$ West;
26. Thence northwesterly in a straight line to a point at latitude $66^{\circ}44'56''$ North and longitude $130^{\circ}57'20''$ West;
27. Thence northwesterly in a straight line to a point at latitude $66^{\circ}45'49''$ North and longitude $130^{\circ}58'19''$ West;
28. Thence northeasterly in a straight line to a point at latitude $66^{\circ}46'53''$ North and longitude $130^{\circ}57'17''$ West;
29. Thence northerly in a straight line to a point at latitude $66^{\circ}47'21''$ North and longitude $130^{\circ}57'17''$ West;
30. Thence northwesterly in a straight line to a point at latitude $66^{\circ}47'37''$ North and longitude $130^{\circ}58'29''$ West;
31. Thence westerly in a straight line to a point at latitude $66^{\circ}48'23''$ North and longitude $131^{\circ}14'37''$ West;
32. Thence northwesterly in a straight line to a point at latitude $66^{\circ}50'44''$ North and longitude $131^{\circ}26'19''$ West;
33. Thence northwesterly in a straight line to a point at latitude $66^{\circ}52'32''$ North and longitude $131^{\circ}33'19''$ West;
34. Thence northwesterly in a straight line to a point at latitude $66^{\circ}54'06''$ North and longitude $131^{\circ}37'32''$ West;
35. Thence northwesterly in a straight line to the point of commencement.

3. Shigago (Little Chicago) Special Management Zone

Datum: NAD83

A **1.5 km special management buffer** is applied to the ordinary high water mark of a segment of the Deh Cho (Mackenzie River) using the hydrology layers from Natural Resource Canada's CanVec dataset (2017), in the vicinity of Little Chicago.

Metes and bounds

No specific metes and bounds are described for this zone, as it is based on a buffer placed along a segment of a river. However, coordinates defining the extent (southern and northern) of the Mackenzie River to which the buffer is applied are described as follows.

The southern extent of the Mackenzie River to which the buffer is applied is defined by drawing a straight line between a point at latitude 67°06'05" North and longitude 130°16'12" West and a point at latitude 67°06'11" North and longitude 130°12'42" West.

The northern extent of the Mackenzie River to which the buffer is applied is defined by drawing a straight line between a point at latitude 67°13'46" North and 130°22'22" West and a point at latitude 67°13'59" North and longitude 130°16'00" West.

4. Travaillant Upland Lakes Conservation Zone

Datum: NAD83

A **500 m conservation buffer** is applied to the ordinary high water marks of **Boil Betuwe Lake (4A)** (located at approximate latitude 67°06'30" North and longitude 129°29'30" West), **Ohnda Lake (4B)** (located at approximate latitude 67°06'00" North and longitude 129°16'00" West), **Yeltea Lake (4C)** (located at approximate latitude 66°55'00" North and longitude 129°23'00" West), and **Manuel Lake (4D)** (located at approximate latitude 66°59'00" North and longitude 128°56'00" West), using the hydrology layers from Natural Resources Canada's CanVec dataset (2017).

Metes and bounds

No metes and bounds are described for this zone, as it is based on buffers placed around a series of lakes.

5. Sihonjł́né ʔehtene (Loon River to Fort Anderson - Trail) Special Management Zone

Datum: NAD83

A **1 km special management buffer** is applied to the entire Loon River to Fort Anderson - Trail within the Sahtu Settlement Area, as described from the Heritage Sites and Places Working Group (HSPWG) Traditional Knowledge data (1999). As well, a **1 km special management buffer** is applied to the ordinary high water mark of the Loon River from the Mackenzie River to Loon Lake, using the hydrology layers from Natural Resources Canada's CanVec dataset (2017). These two buffers are subsequently merged together.

However, some areas of the buffer are erased as per the boundaries of the zones listed below, as they supersede the created special management buffer.

- 6. Fort Anderson Trail Lakes Conservation Zone;
- 63. Deh Cho (Mackenzie River) Special Management Zone.

Metes and bounds

No metes and bounds are described for this zone, as it is based on a buffer placed along a river and a trail. For the boundaries of the zones that supersede the special management buffer for the Loon River to Fort Anderson - Trail, please refer to their respective zone descriptions.

6. Fort Anderson Trail Lakes Conservation Zone

Datum: NAD83

A **500 m conservation buffer** is applied to the ordinary high water marks of **Canot Lake (6A)** (located at approximate latitude 67°25'30" North and longitude 128°46'00" West), **Carcajou Lake (6B)** (located at approximate latitude 67°16'00" North and longitude 128°40'00" West), **Rond Lake (6C)** (located at approximate latitude 67°04'30" North and longitude 128°30'00" West), **Rorey Lake (6D)** (located at approximate latitude 66°54'00" North and longitude 128°25'00" West), and **Loon Lake (6E)** (located at approximate latitude 66°36'30" North and longitude 128°43'00" West), using the hydrology layers from Natural Resources Canada's CanVec dataset (2017).

Metes and bounds

No metes and bounds are described for this zone, as it is based on buffers placed around a series of lakes.

7. Colville Upland Lakes Conservation Zone

Datum: NAD83

A **500 m conservation buffer** is applied to the ordinary high water marks of **Burnt Lake (7A)** (located at approximate latitude 67°26'00" North and longitude 128°09'00" West), **Stump Lake (7B)** (located at approximate latitude 67°18'00" North and 127°52'00" West), **Long Lake (7C)** (located at approximate latitude 67°16'00" North and 127°56'00" West), **Trout Lake (7D)** (located at approximate latitude 67°18' North and 128°15'00" West), and **unnamed lake (7E)** (located at approximate latitude 67°49'00" North and 127°07'00" West), using the hydrology layers from Natural Resources Canada's CanVec dataset (2017).

Metes and bounds

No metes and bounds are described for this zone, as it is based on buffers placed around a series of lakes.

8. Bela Nera Dele (Where the Wolf Crosses) Conservation Zone

Datum: NAD83

A **500 m conservation buffer** is applied to the ordinary high water mark of the creek known as Bela Nera Dele, which joins the two parts of Ts'oga Túé (known in English as White Muskeg Lake or Niwelin Lake; the first part of the lake is located at approximate latitude 67°52'00" North and longitude 125°57'00" West; the second part of the lake is located at approximate latitude 67°49'00" North and longitude 125°47'30" West), using the hydrology layers from Natural Resources Canada's CanVec dataset (2017).

Furthermore, an area to the North-West of Ts'oga Túé (known in English as White Muskeg Lake or Niwelin Lake) is delineated using a **200 m conservation** buffer that is applied to a section of an unnamed stream, as defined by Natural Resources Canada's CanVec dataset (2017). The section of the unnamed stream used to formulate the conservation buffer goes from its western edge as defined by a line that crosses the unnamed stream (from approximate latitude 67°57'18" North and longitude 125°58'09" West to approximate latitude 67°57'20" North and longitude 125°58'11" West), and on its eastern edge as defined by a line that crosses the unnamed stream (from approximate latitude 67°56'36" North and longitude 125°54'40" West to approximate latitude 67°56'36" North and longitude 125°54'38" West). There are a set of metes and bounds that follow adjacent to this buffer, as a means to protect a culturally significant place.

Metes and bounds

1. Commencing at the intersection of the 200 m buffer created for the unnamed stream using Natural Resources Canada's CanVec dataset (2017), with a point at approximate latitude 67°56'32" North and longitude 125°54'24" West;
2. Thence generally northeasterly, then northwesterly following the 200 m buffer created for the unnamed stream, created using Natural Resources Canada's CanVec dataset (2017), to a point at approximate latitude 67°57'02" North and longitude 125°54'59" West;
3. Thence northeasterly in a straight line to a point at latitude 67°57'10" North and 125°54'18" West;
4. Thence easterly in a straight line to a point at latitude 67°57'10" North and longitude 125°53'24" West;
5. Thence easterly in a straight line to a point at latitude 67°57'09" North and longitude 125°53'04" West;
6. Thence southeasterly in a straight line to a point at latitude 67°57'05" North and longitude 125°52'49" West;
7. Thence southeasterly in a straight line to a point at latitude 67°56'59" North and longitude 125°52'45" West;
8. Thence southerly in a straight line to a point at latitude 67°56'50" North and longitude 125°52'45" West;
9. Thence southwesterly in a straight line to a point at latitude 67°56'43" North and longitude 125°52'50" West;
10. Thence southwesterly in a straight line to a point at latitude 67°56'39" North and longitude 125°53'01" West;

11. Thence southwesterly in a straight line to a point at latitude 67°56'36" North and longitude 125°53'12" West;
12. Thence southwesterly in a straight line to the point of commencement.

9. Túé Sho & Dunedelatúé (Aubry & Dunedelatue Lakes) Conservation Zone

Datum: NAD83

A **500 m conservation buffer** is applied to the ordinary high water mark of Túé Sho (known in English as Aubry Lake, located at approximate latitude 67°24'00" North and longitude 126°24'00" West) & Dunedelatúé (known in English as Dunedelatue Lake, located at approximate latitude 67°32'00" North and longitude 127°05'00" West), including Tuholata Creek which connects the two lakes, using the hydrology layers from Natural Resources Canada's CanVec dataset (2017). Furthermore, the 500 m conservation buffer is applied to the unnamed creek that connects Colville Lake with Túé Sho (Aubry Lake).

Notes on methodology

When creating the buffer and due to irregular shape of the lakes, isolated excluded areas are formed (sliver polygons), being completely surrounded by the buffer. These areas are integrated into the conservation zone.

The 500 m buffer that is applied to the unnamed creek that connects Colville Lake with Túé Sho (Aubry Lake) does not apply to the waters of Colville Lake. Therefore, it is clipped to the ordinary high water mark of Colville Lake, as defined by the hydrology layers from Natural Resources Canada's CanVec dataset (2017).

Metes and bounds

No metes and bounds are described for this zone, as it is based on a buffer placed around two lakes and a small stream.

10. Ayonikj (Maunoir Dome) Special Management Zone

Datum: NAD83

A large bedrock hill north of the lake (at approximate latitude 67°38'00" North and longitude 124°54'00" West) is defined using the **300 m elevation contour** from Natural Resources Canada's CanVec dataset (2017), excluding the ridge that extends to the north east of the bedrock hill. A metes and bounds zone description follows.

Metes and bounds

1. Commencing at a point at approximate latitude 67°41'16" North and longitude 124°54'56" West on the 300 m elevation contour line, created using Natural Resources Canada's CanVec dataset (2017);
2. Thence easterly in a straight line to a point on the 300 m elevation contour line from Natural Resources Canada's CanVec dataset (2017), at approximate latitude 67°41'20" North and longitude 124°52'13" West;
3. Thence generally southeasterly, then westerly, and then northerly following the 300 m elevation contour line, created using Natural Resources Canada's CanVec dataset (2017), to the point of commencement.

11. Sihonjłíné (Anderson River) Conservation Zone

Datum: NAD83

A **1 km conservation buffer** is applied to the ordinary high water mark of the Anderson River for its extent in the Sahtu Settlement Area from Whitefish Lake to the Sahtu Settlement Area's northern border with the Inuvialuit Settlement Region, using the hydrology layers from Natural Resources Canada's CanVec dataset (2017). Whitefish Lake (located at approximate latitude 66°55'00" North and longitude 124°35'00" West) is included in the buffer's calculation.

Metes and bounds

No metes and bounds are described for this zone, as it is based on a buffer placed along a river and around a lake.

12. Dene Dı Gon'e Conservation Zone

Datum: NAD83

A **500 m conservation buffer** is applied to the ordinary high water mark of Dene Dı Gon'e Lake (located at approximate latitude 66°48'00" North and longitude 124°37'00" West), using the hydrology layers from Natural Resources Canada's CanVec dataset (2017).

Metes and bounds

No metes and bounds are described for this zone, as it is based on a buffer placed around a lake.

13. Tashín Túé (Lac des Bois) Conservation Zone

Datum: NAD83

A **500 m conservation buffer** is applied to the ordinary high water mark of Tashín Túé (known in English as Lac des Bois, located at approximate latitude 66°48'00" North and longitude 125°14'00" West), as well as two small waterbodies connected to the lake (the first waterbody located at approximate latitude 66°42'30" North and longitude 125°07'00" West and the second waterbody located at approximate latitude 66°38'30" North and longitude 124°47'40" West), using the hydrology layers from Natural Resources Canada's CanVec dataset (2017).

Notes on methodology

When creating the buffer and due to irregular shape of the lake, isolated excluded areas are formed (sliver polygons), being completely surrounded by the buffer. These areas are integrated into the conservation zone.

Metes and bounds

No metes and bounds are described for this zone, as it is based on a buffer placed around a lake and small waterbodies.

14. Nl̄j̄n Túé (Lac Belot) Conservation Zone

Datum: NAD83

A **500 m conservation buffer** is applied to the ordinary high water mark of the southern part of Nl̄j̄n Túé (known in English as Lac Belot, at approximate latitude 66°54'00" North and longitude 126°17'00"), using the hydrology layers from Natural Resources Canada's CanVec dataset (2017). The area considered for the buffer goes from a point at the ordinary high water mark of Nl̄j̄n Túé (Lac Belot) on the western shore (approximate latitude 66°52'35" North and longitude 126°25'12" West), cutting straight across the lake, to a point at the ordinary high water mark of Nl̄j̄n Túé (Lac Belot) on the eastern shore (approximate latitude 66°51'09" North and longitude 126°11'37" West), then following the ordinary high water mark of Nl̄j̄n Túé (Lac Belot) around the southern part of the lake, back to the above mentioned point on the western shore.

One ridge with approximate longitude 66°51'00" North and longitude 126°26'00" West on the western shore of Nl̄j̄n Túé (Lac Belot) are included using the **300 m elevation contour** line from Natural Resources Canada's CanVec dataset (2017).

A large hill (approximate latitude 67°02'26" North and longitude 126°28'09" West) on the northwestern shore of Nl̄j̄n Túé (Lac Belot) is included using a **1800 m buffer around the 650 m elevation contour** line from Natural Resources Canada's CanVec dataset (2017).

However, some areas of the buffer are erased as per the boundary of the zone listed below, as it supersedes the merged parts that form the conservation zone.

- 18. Neyádalín (Underground River) Special Management Zone.

Notes on methodology

When merging together the different parts that make up the zone, isolated excluded areas are formed (sliver polygons), being completely surrounded by the zone. These areas are integrated into the conservation zone.

Metes and bounds

No metes and bounds are described for this zone, as it is based on a buffer placed around a lake, as well as elevation contours. For the boundary of the zone that supersedes the conservation buffer for Lac Belot, please refer to its respective zone description.

15. Fossil Lake Conservation Zone

Datum: NAD83

The boundaries are based on the surveyed Sahtu Settlement Lands Parcel 21 described in the *Sahtu Dene and Metis Comprehensive Land Claim Agreement*, with Canada Lands Survey System identification number 102106-1 CLSR NT. The boundaries of the surveyed parcel are provided by the Cadastral Information in the Northwest Territories shapefile, produced by the Surveyor General Branch of Natural Resources Canada (2017) at a scale of 1:50,000.

Metes and bounds

Details regarding the metes and bounds of Sahtu Settlement Lands Parcel 21 (102106-1 CLSR NT), please refer to the Canada Lands Survey System.

16. Ne’Rahten Conservation Zone

Datum: NAD83

A **1500 m conservation buffer** is applied to a point in the middle of the winter road crossing of the Hare Indian River (known locally as the Rabbit Skin River) between Fort Good Hope and Colville Lake, located at approximate latitude $66^{\circ}24'12''$ North and $128^{\circ}11'33''$ West.

Metes and bounds

No metes and bounds are described for this zone, as it is based on a buffer placed around a point.

17. Xayłts'ą Nłłíné (Hare Indian River) Special Management Zone

Datum: NAD83

A **1 km special management buffer** is applied to the ordinary high water mark of the Xayłts'ą Nłłíné (known in English as the Hare Indian River), using the hydrology layers from Natural Resources Canada's CanVec dataset (2017). Tributaries feeding the river are excluded from the buffer's calculation.

However, some areas of the buffer are erased as per the boundaries of the zones listed below, as they supersede the special management buffer.

- Fort Good Hope Community Boundary (Atlas Mapping System, Municipal and Community Affairs (MACA), Commissioner's Land Administration, Government of the Northwest Territories, 2016);
- 16. Ne'Rahten Conservation Zone;
- 18. Neyádalín (Underground River) Special Management Zone;
- 23. Sahtú (Great Bear Lake & Watershed – GBLW) Special Management Zone;
- 63. Deh Cho (Mackenzie River) Special Management Zone.

Metes and bounds

No metes and bounds are described for this zone, as it is based on a buffer placed around a river. For the boundaries of the zones that supersede the special management buffer for Xayłts'ą Nłłíné (Hare Indian River), please refer to their respective zone description.

18. Neyádalín (Underground River) Special Management Zone

Datum: NAD83

A **1 km special management buffer** is applied to the ordinary high water mark of the Underground River for its above ground portion, using the hydrology layers from Natural Resources Canada's CanVec dataset (2017). The buffer is also clipped to the ordinary high water mark of the north shore of Xayjts'á Nlǐjné (Hare Indian River), using the hydrology layers from Natural Resources Canada's CanVec dataset (2017). A metes and bounds zone description follows as a means to define the portion of the zone where the river is underground, connecting it with the buffer described above.

Metes and bounds

13. Commencing at the intersection of the 1 km buffer created for the Underground River using Natural Resources Canada's CanVec dataset (2017), with a point at approximate latitude 66°36'53" North and longitude 126°41'18" West;
14. Thence northerly in a straight line to a point at latitude 66°38'22" North and longitude 126°41'19" West;
15. Thence northwesterly in a straight line to a point at latitude 66°39'12" North and longitude 126°41'49" West;
16. Thence northeasterly in a straight line to a point at latitude 66°41'53" North and longitude 126°37'32" West;
17. Thence northeasterly in a straight line to a point at latitude 66°45'07" North and longitude 126°33'44" West;
18. Thence northeasterly in a straight line to a point at latitude 66°48'26" North and longitude 126°31'15" West;
19. Thence northeasterly in a straight line to a point at latitude 66°49'25" North and longitude 126°29'12" West;
20. Thence easterly in a straight line, a part of which following Zone 14 Nlǐjín Túé (Lac Belot) Conservation Zone, to a point at approximate latitude 66°49'38" North and longitude 126°25'05" West;
21. Thence generally southeasterly following Zone 14 Nlǐjín Túé (Lac Belot) Conservation Zone as defined by the ordinary high water mark of Lac Belot using the hydrology layers from Natural Resources Canada's CanVec dataset (2017), to a point at approximate latitude 66°43'52" North and longitude 126°18'23" West;
22. Thence southwesterly in a straight line, a part of which following Zone 14 Nlǐjín Túé (Lac Belot) Conservation Zone, to a point at approximate latitude 66°43'33" North and longitude 126°19'28" West;
23. Thence southwesterly in a straight line to a point at latitude 66°42'50" North and longitude 126°20'08" West;
24. Thence southwesterly in a straight line to a point at latitude 66°42'11" North and longitude 126°22'10" West;
25. Thence southwesterly in a straight line to a point at latitude 66°39'19" North and longitude 126°25'36" West;

26. Thence southwesterly in a straight line to a point at latitude 66°36'37" North and longitude 126°29' 34" West;
27. Thence southwesterly in a straight line to a point at latitude 66°36'06" North and longitude 126°30'39" West;
28. Thence westerly in a straight line to a point at approximate latitude 66°36'16" North and longitude 126°35'56" West on the 1 km buffer created using Natural Resources Canada's CanVec dataset (2017) for the Underground River;
29. Thence generally southwesterly following the 1 km buffer created for the Underground River, created using Natural Resources Canada's CanVec dataset (2017), up to the ordinary high water mark of the Xayıts'ą Nıłjıné (Hare Indian River) using the hydrology layers from Natural Resources Canada's CanVec dataset (2017);
30. Thence generally southerly and then northerly following the 1 km buffer created for the Underground River, created using Natural Resources Canada's CanVec dataset (2017), to the point of commencement.

19. Tsintu River (Bluefish Creek) Special Management Zone

Datum: NAD83

A **1 km special management buffer** is applied to the ordinary high water mark of Tsintu River, also known locally in Fort Good Hope as Bluefish Creek, along an unnamed tributary up to Tsintu Lake (located at approximate latitude 66°13'08" North and longitude 127°53'59" West), using Natural Resources Canada's CanVec dataset (2017).

However, some areas of the buffer are erased as per the boundaries of the zone listed below, as it supersedes the special management buffer.

- 63. Deh Cho (Mackenzie River) Special Management Zone.

Metes and bounds

No metes and bounds are described for this zone, as it is based on a buffer placed along a river. For the boundaries of the zone that supersede the special management buffer created for Tsintu River, please refer to its respective zone description.

20. Snafu Creek Special Management Zone

Datum: NAD83

A **1 km special management buffer** is applied to the ordinary high water mark of Snafu Creek, using Natural Resources Canada's CanVec dataset (2017).

However, some areas of the buffer are erased as per the boundaries of the zone listed below, as it supersedes the special management buffer.

- 63. Deh Cho (Mackenzie River) Special Management Zone.

Metes and bounds

No metes and bounds are described for this zone, as it is based on a buffer placed along a river. For the boundaries of the zone that supersedes the special management buffer created for Snafu Creek, please refer to its respective zone description.

21. Nq̄fee K'q̄dah Túé (Lac à Jacques) Conservation Zone

Datum: NAD83

A **500 m conservation buffer** is applied to the ordinary high water mark of Nq̄fee K'q̄dah Túé (known in English as Lac à Jacques, located at approximate latitude 66°09'00" North and longitude 127°25'00" West), using the hydrology layers from Natural Resources Canada's CanVec dataset (2017).

Notes on methodology

When creating the buffer and due to irregular shape of the lakes, isolated excluded areas are formed (sliver polygons), being completely surrounded by the buffer. These areas are integrated into the conservation zone.

Metes and bounds

No metes and bounds are described for this zone, as it is based on a buffer placed around a lake.

22. Arakíe Túé (Horton Lake) Special Management Zone

Datum: NAD83

A **10 km special management buffer** is applied to the ordinary high water mark of Arakíe Túé (known in English as Horton Lake, located at approximate latitude 67°29'00" North and longitude 122°25'00" West), using the hydrology layers from Natural Resources Canada's CanVec dataset (2017). The Arakíe Túé (Horton Lake) Conservation Zone buffer is based on the boundaries of the Horton Lake Barren Ground Caribou Important Wildlife Area, as described by the Important Wildlife Areas in the Western Northwest Territories report by Wilson, J.M. and Haas, C.A., Wildlife Division, Environment and Natural Resources, Government of the Northwest Territories (2012).

Metes and bounds

No metes and bounds are described for this zone, as it is based on a buffer placed around a lake.

23. Sahtú (Great Bear Lake and Watershed – GBL&W) Special Management Zone

Datum: NAD83

This zone is based on Natural Resources Canada's National Hydro Network's watershed delineation (2017) for Great Bear Lake (excluding the Great Bear – Mouth portion, as this is downstream from the lake) within the Sahtu Settlement Area, based on a scale of 1:50,000. The data delineating the sub-watersheds that compose the Great Bear Lake & Watershed are selected using the highest available National Hydro Network Completeness Level, with each part then merged together.

However, some areas of the watershed are erased as per the boundaries of the zones listed below, as they supersede the special management zone created for the watershed.

- Délı̄ne Community Boundary (Atlas Mapping System (MACA), Municipal and Community, Commissioner's Land Administration, Government of the Northwest Territories, 2015);
- Saoyú-ʔehdacho (Grizzly Bear Mountain and Scented Grass Hills) National Historic Site of Canada;
- 24. Neregah (Northshore) Special Management Zone;
- 25. Du K'ets'edi SMZ (Sentinel Islands SMZ);
- 26. Du K'ets'edi CZ (Sentinel Islands CZ);
- 27. ʔedaǰǰla (Caribou Point) Conservation Zone;
- 29. Clement Lake Special Management Zone;
- 30. Luchanǰǰné (Whitefish River) Conservation Zone;
- 31. Tehkaicho Dé (Johnny Hoe River) Conservation Zone;
- 33. Sahtú Deh (Great Bear River) Special Management Zone;
- 66. Tuktut Nogait (Sahtú Expansion) Proposed Conservation Initiative.

Metes and bounds

No metes and bounds are described for this zone, as its boundaries are based on the National Hydro Network 17 (2017) data. For the boundaries of the zones that supersede the special management zone created for the watershed, please refer to their respective zone description.

24. Neregah (Northshore) Special Management Zone

Datum: NAD83

Located on the northern shore of Great Bear Lake, a metes and bounds zone description follows as a means to define the boundaries of the zone. This zone is entirely within the Great Bear Lake & Watershed. As such, all of the coordinates associated with its metes and bounds description as follows intersect with the boundaries of Zone 23 Sahtú (Great Bear Lake & Watershed – GBLW) Special Management Zone.

Metes and bounds

1. Commencing at a point on the ordinary high water mark of Great Bear Lake, using the hydrology layers from Natural Resources Canada's CanVec dataset (2017), at approximate latitude 66°55'55" North and longitude 119°22'42" West;
2. Thence generally westerly following the ordinary high water mark of Great Bear Lake, using the hydrology layers from Natural Resources Canada's CanVec dataset (2017), to a point intersecting with the ordinary high water mark of Great Bear Lake, using the hydrology layers from Natural Resources Canada's CanVec dataset (2017), at approximate latitude 66°17'22" North and longitude 124°59'52" West
3. Thence northwesterly in a straight line to a point at latitude 66°20'20" North and longitude 125°02'00" West;
4. Thence northeasterly in a straight line to a point at latitude 66°24'49" North and longitude 124°57'41" West;
5. Thence easterly in a straight line to a point at latitude 66°25'13" North and longitude 124°35'40" West;
6. Thence easterly in a straight line to a point at latitude 66°27'03" North and longitude 124°03'03" West;
7. Thence northeasterly in a straight line to a point intersecting with the Great Bear Lake & Watershed delineation using Natural Resources Canada's National Hydrological Network (2017), at approximate latitude 66°30'14" North and longitude 123°45'10" West;
8. Thence generally northeasterly following the limits of the Great Bear Lake & Watershed using Natural Resources Canada's National Hydrological Network (2017), to a point at approximate latitude 66°35'07" North and longitude 123°20'01" West;
9. Thence northeasterly in a straight line to a point intersecting with the Great Bear Lake & Watershed delineation using Natural Resources Canada's National Hydrological Network (2017), at approximate latitude 66°41'21" North and longitude 122°59'27" West;
10. Thence generally northeasterly following the limits of the Great Bear Lake & Watershed using Natural Resources Canada's National Hydrological Network (2017), to a point at approximate at latitude 66°45'34" North and longitude 122°39'35" West;
11. Thence northeasterly in a straight line to a point at latitude 66°51'21" North and longitude 122°22'52" West;
12. Thence northeasterly in a straight line to a point at latitude 66°58'15" North and longitude 121°56'11" West;

13. Thence easterly in a straight line to a point at latitude 67°10'48" North and longitude 120°40'31" West;
14. Thence easterly in a straight line to a point at latitude 67°12'21" North and longitude 119°35'01" West;
15. Thence southeasterly in a straight line to a point to a point at latitude 67°07'34" North and 119°14'21" West;
16. Thence southwesterly in a straight line to a point intersecting with the ordinary high water mark of an unnamed lake, using the hydrology layers from Natural Resources Canada's CanVec dataset (2017), at approximate latitude 66°59'18" North and longitude 119°18'52" West;
17. Thence generally southwesterly following the ordinary high water mark of the unnamed lake, using the hydrology layers from Natural Resources Canada's CanVec dataset (2017), to a point at approximate latitude 66°58'41" North and longitude 119°19'11" West;
18. Thence southwesterly in a straight line to a point at latitude 66°58'11" North and longitude 119°19'28" West;
19. Thence southwesterly in a straight line to the point of commencement.

25. Du K'ets'edı SMZ (Sentinel Islands SMZ)

Datum: NAD83

This zone includes all (whole or in part) Sentinel Islands in Great Bear Lake that are part of the Sahtu Settlement Lands held by the District of Délıne.

Each island is assigned a suffix for identification, their boundaries are based on surveyed parcels described in the *Sahtu Dene and Metis Comprehensive Land Claim Agreement*, with their respective Canada Lands Survey System identification number. The boundaries of the surveyed parcels are provided by the Cadastral Information in the Northwest Territories shapefile, produced by the Surveyor General Branch of Natural Resources Canada (2017) at a scale of 1:50,000. The islands' names are taken from the Geographical Names Data Base, provided by Natural Resources Canada.

Information

- **25A – Kroger Island** – Sahtu Settlement Lands Parcel 57; 89491-1 CLSR NT;
- **25B – Ikanyo Island** – Sahtu Settlement Lands Parcel 61; 90772-1 CLSR NT;
- **25C – Ekka Island** – Sahtu Settlement Lands Parcel 62; 90772-1 CLSR NT;
- **25D – George Islands** – Sahtu Settlement Lands Parcel 64; 89892 CLSR NT;
- **25E – George Islands** – Sahtu Settlement Lands Parcel 65; 89892 CLSR NT;
- **25F – George Islands** – Sahtu Settlement Lands Parcel 66; 89892 CLSR NT;
- **25G – George Islands** – Sahtu Settlement Lands Parcel 67; 89892 CLSR NT;
- **25H – Manitou Island** – Sahtu Settlement Lands Parcel 75; 81115-1 CLSR NT;
- **25I – Unnamed island** – Sahtu Settlement Lands Parcel 77; 81115 CLSR NT;
- **25J – Unnamed island** – Sahtu Settlement Lands Parcel 78; 81115 CLSR NT;
- **25K – Ritch Island** – Sahtu Settlement Lands Parcel 79; 89759 CLSR NT;
- **25L – Achook Island** – Sahtu Settlement Lands Parcel 82; 89890-1 CLSR NT;
- **25M – Boadway Island** – Sahtu Settlement Lands Parcel 83; 89890-1 CLSR NT;
- **25N – Hogarth Island** – Sahtu Settlement Lands Parcel 84; 89890-1 CLSR NT;
- **25O – Cornwall Island** – Sahtu Settlement Lands Parcel 84; 89890-1 CLSR NT;
- **25P – Unnamed island** – Sahtu Settlement Lands Parcel 85; 89890-1 CLSR NT;
- **25Q – Unnamed island** – Sahtu Settlement Lands Parcel 86; 89890-1 CLSR NT;
- **25R – Workman Island** – Sahtu Settlement Lands Parcel 87; 89890-1 CLSR NT;
- **25S – Stevens Island** – Sahtu Settlement Lands Parcel 88; 89890-1 CLSR NT;
- **25T – Mackenzie Island** – Sahtu Settlement Lands Parcel 89; 89890-1 CLSR NT;
- **25U – Mystery Island** – Sahtu Settlement Lands Parcel 90; 89890-1 CLSR NT;
- **25V – Richardson Island** – Sahtu Settlement Lands Parcel 91; 84052 CLSR NT.

Metes and bounds

For details regarding the metes and bounds of each parcel listed above, please refer to the Canada Lands Survey System.

26. Du K'ets'edi CZ (Sentinel Islands CZ)

Datum: NAD83

This zone includes all (whole or in part) Sentinel Islands in Great Bear Lake that are on Public Land, excluding the islands that are within the boundary of the Terra Mine site, which are Federal Lands under the Contaminants and Remediation Directorate (CARD).

Methodology

Each island included in this zone is defined by the ordinary high water mark of Great Bear Lake, using the hydrology layers from Natural Resource Canada's CanVec dataset (2017). When an island has both Public Lands and Sahtu Settlement Lands, the boundary between Zone 26. Du K'ets'edi CZ (Sentinel Islands CZ) and Zone 25. Du K'ets'edi SMZ (Sentinel Islands SMZ) is defined by the Canada Lands Survey Record for the Sahtu Settlement Lands parcels included in Zone 25. Du K'ets'edi SMZ (Sentinel Islands SMZ). Furthermore, sliver polygons may be formed along the edge of the ordinary high water mark of Great Bear Lake adjacent to Zone 25. Du K'ets'edi SMZ (Sentinel Islands SMZ) due to the fact that these were defined using the Canada Lands Survey Record and must be removed.

27. ʔehdaǰǰla (Caribou Point) Conservation Zone

Datum: NAD83

Caribou Point is located in the north-eastern part of the Great Bear Lake & Watershed. The ʔehdaǰǰla (Caribou Point) Conservation Zone is loosely based on generalised boundaries of the ʔehdaǰǰla (Caribou Point) Barren Ground Caribou Important Wildlife Area, as described by the Important Wildlife Areas in the Western Northwest Territories report by Wilson, J.M. and Haas, C.A., Wildlife Division, Environment and Natural Resources, Government of the Northwest Territories (2012).

This zone encompasses Caribou Point and the area around the site of Fort Confidence (T'echo cho deh t'a tlaaa) on the north side of the Dease River. This zone is mostly within the Great Bear Lake & Watershed, where only a part of the zone along the Northwest Territories-Nunavut boundary falls outside of the Great Bear Lake & Watershed. However, all of the coordinates associated with its metes and bounds description (as follows) intersect with the boundaries of Zone 23 Sahtú (Great Bear Lake & Watershed – GBLW) Special Management Zone.

Metes and bounds

1. Commencing at a point on the ordinary high water mark of Great Bear Lake intersecting with the mouth of the south bank of the Dease River, using the hydrology layers from Natural Resources Canada's CanVec dataset (2017), at approximate latitude 66°53'25" North and longitude 119°01'50" West;
2. Thence northwesterly in a straight line to a point at approximate latitude 66°53'34" North and longitude 119°01'59" West at the ordinary high water mark of Great Bear Lake intersecting with the mouth of the north bank of the Dease River, using the hydrology layers from Natural Resources Canada's CanVec dataset (2017);
3. Thence generally westerly and then northerly following the ordinary high water mark of Great Bear Lake, using the hydrology layers from Natural Resources Canada's CanVec dataset (2017), to a point at approximate latitude 66°55'49" North and longitude 119°11'26" West;
4. Thence northeasterly in a straight line to a point at latitude 66°56'39" North and longitude 119°09'17" West;
5. Thence easterly in a straight line to a point at latitude 66°56'51" North and longitude 119°06'30" West;
6. Thence northeasterly in a straight line to a point at latitude 66°57'06" North and longitude 119°05'14" West;
7. Thence easterly in a straight line to a point at latitude 66°57'09" North and longitude 119°02'27" West;
8. Thence easterly in a straight line to a point at latitude 66°57'27" North and longitude 118°58'14" West;
9. Thence easterly in a straight line to a point at latitude 66°57'37" North and longitude 118°49'03" West;
10. Thence easterly in a straight line to a point at latitude 66°57'36" North and longitude 118°45'21" West;
11. Thence southeasterly in a straight line to a point at latitude 66°56'37" North and longitude 118°39'38" West;

12. Thence northeasterly in a straight line to a point at latitude 66°59'32" North and longitude 118°31'03" West;
13. Thence easterly in a straight line to a point on the ordinary high water mark of the south bank of the Dease River, using the hydrology layers of Natural Resources Canada's CanVec dataset (2017), at approximate latitude 66°59'18" North and longitude 118°26'40" West;
14. Thence generally northeasterly following the ordinary high water mark of the south bank of the Dease River, using the hydrology layers from Natural Resources Canada's CanVec dataset (2017), to a point on the boundary of the Sahtu Settlement Area at approximate latitude 67°15'01" North and longitude 117°53'34" West;
15. Thence generally southeasterly following boundary of the Sahtu Settlement Area to a point at approximate latitude 66°53'23" North and approximate longitude 116°40'05" West;
16. Thence generally southwesterly following the north/west bank of the unnamed source streams of the Harrison River, using the hydrology layers from Natural Resources Canada's CanVec dataset (2017), then following it down the Harrison River and then Sloan River to the mouth Hunter Bay on Great Bear Lake, at approximate latitude 66°27'39" North and longitude 117°28'47" West;
17. Thence generally westerly and then northeasterly following the ordinary high water mark of Great Bear Lake, using the hydrology layers from Natural Resources Canada's CanVec dataset (2017), to the point of commencement.

28. Turatlin Túé (Tunago Lake) Conservation Zone

Datum: NAD83

A **500 m conservation buffer** is applied to the ordinary high water mark of Turatlin Túé (known in English as Tunago Lake, located at approximate latitude 66°18'00" North and longitude 125°48'00" West), using the hydrology layers from Natural Resources Canada's CanVec dataset (2017).

Metes and bounds

No metes and bounds are described for this zone, as it is based on a buffer placed around a lake.

29. Clement Lake Special Management Zone

Datum: NAD83

A **500 m special management buffer** is applied to the ordinary high water mark of Clement Lake, otherwise known as Neyele Lake (located at approximate latitude 65°40'20" North and longitude 125°10'00" West), using the hydrology layers from Natural Resources Canada's CanVec dataset (2017).

Metes and bounds

No metes and bounds are described for this zone, as it is based on a buffer placed around a lake.

30. Luchanł́né (Whitefish River) Conservation Zone

Datum: NAD83

A **10 km conservation buffer** is applied to the ordinary high water mark of Luchanł́né (known in English as Whitefish River) up to the mouth of an unnamed stream at approximate latitude 65°33'05" North and longitude 123°20'48" West, as well as up the unnamed stream to an unnamed lake at approximate latitude 65°44'23" North and longitude 122°50'00" West, using the hydrology layers from Natural Resources Canada's CanVec dataset (2017). This unnamed stream is considered as the headwaters of Whitefish River by the Sahtúot'ł́né in Dél'ł́né, and passes through Man Drowned Himself Lake (located at approximate latitude 65°40'30" North and 123°11'45" West), with the southern portion of this lake being included in the buffer. Furthermore, the conservation buffer also applies to a fish lake named in English as White Water Lily Lake, at approximate latitude 65°46'00" North and 124°08'00" West, using the hydrology layers from Natural Resources Canada's CanVec dataset (2017).

As well, the conservation buffer does not apply to Sahtu Settlement Lands Parcel M25 described in the *Sahtu Dene and Metis Comprehensive Land Claim Agreement*, with Canada Lands Survey System identification number 82856 CLSR NT. The boundaries of the surveyed parcel are provided by the Cadastral Information in the Northwest Territories shapefile, produced by the Surveyor General Branch of Natural Resources Canada (2017) at a scale of 1:50,000.

Notes on methodology

Where the buffer overlaps with Great Bear Lake near the mouth of the river, the buffer boundary is modified to follow the ordinary high water mark of Great Bear Lake, using the hydrology layers from Natural Resources Canada's CanVec dataset (2017).

Metes and bounds

No metes and bounds are described for this zone, as it is based on a buffer placed along a river.

31. Tehkaicho Dé (Johnny Hoe River) Conservation Zone

Datum: NAD83

The Tekaicho Dé (Johnny Hoe River) Conservation Zone is loosely based on generalised boundaries of the Johnny Hoe River Unique Area, as described by the Important Wildlife Areas in the Western Northwest Territories report by Wilson, J.M. and Haas, C.A., Wildlife Division, Environment and Natural Resources, Government of the Northwest Territories (2012).

Located in the south-western corner of the Sahtu, the zone is part of the Johnny Hoe River watershed. Metes and bounds described below define the zone's extent. This zone is entirely within the Great Bear Lake & Watershed. As such, all of the coordinates associated with its metes and bounds description intersect with the boundaries of Zone 23 Sahtú (Great Bear Lake & Watershed – GBLW) Special Management Zone.

Metes and bounds

1. Commencing at the intersection with the ordinary high water mark of Great Bear Lake, using the hydrology layers from Natural Resources Canada's CanVec dataset (2017), with a point at approximate latitude 64°55'39" North and longitude 120°54'31" West;
2. Thence southerly in a straight line to a point at latitude 64°53'59" North and longitude 120°54'25" West;
3. Thence southwesterly in a straight line to a point at latitude 64°52'33" North and longitude 120°54'49" West;
4. Thence southwesterly in a straight line to a point at latitude 64°51'06" North and longitude 120°56'42" North;
5. Thence southwesterly in a straight line to a point at latitude 64°49'24" North and longitude 120°59'54" North;
6. Thence southwesterly in a straight line to a point at latitude 64°48'11" North and longitude 121°00'51" West;
7. Thence southwesterly in a straight line to a point at latitude 64°47'23" North and longitude 121°01'45" West;
8. Thence southwesterly in a straight line to a point at latitude 64°46'43" North and longitude 121°03'19" West;
9. Thence southwesterly in a straight line to a point at latitude 64°45'00" North and longitude 121°04'56" West;
10. Thence southwesterly in a straight line to a point at latitude 64°44'13" North and longitude 121°06'24" West;
11. Thence southerly in a straight line to a point at latitude 64°43'13" North and longitude 121°06'33" West;
12. Thence southeasterly in a straight line to a point at latitude 64°41'20" North and longitude 121°06'03" West;
13. Thence southwesterly in a straight line to a point at latitude 64°39'48" North and longitude 121°07'32" West;

14. Thence westerly in a straight line to a point at latitude $64^{\circ}39'44''$ North and longitude $121^{\circ}08'10''$ West;
15. Thence southwesterly in a straight line to a point at latitude $64^{\circ}39'25''$ North and longitude $121^{\circ}09'09''$ West;
16. Thence westerly in a straight line to a point at latitude $64^{\circ}39'14''$ North and longitude $121^{\circ}10'53''$ West;
17. Thence southwesterly in a straight line to a point at latitude $64^{\circ}38'53''$ North and longitude $121^{\circ}12'34''$ West;
18. Thence southwesterly in a straight line to a point at latitude $64^{\circ}38'38''$ North and longitude $121^{\circ}13'14''$ West;
19. Thence southerly in a straight line to a point at latitude $64^{\circ}38'00''$ North and longitude $121^{\circ}13'12''$ West;
20. Thence southeasterly in a straight line to a point at latitude $64^{\circ}37'44''$ North and longitude $121^{\circ}12'04''$ West;
21. Thence easterly in a straight line to a point at latitude $64^{\circ}37'32''$ North and longitude $121^{\circ}10'17''$ West;
22. Thence southeasterly in a straight line to a point at latitude $64^{\circ}37'09''$ North and longitude $121^{\circ}09'10''$ West;
23. Thence easterly in a straight line to a point at latitude $64^{\circ}37'07''$ North and longitude $121^{\circ}07'37''$ West;
24. Thence easterly in a straight line to a point at latitude $64^{\circ}36'51''$ North and longitude $121^{\circ}05'48''$ West;
25. Thence easterly in a straight line to a point at latitude $64^{\circ}36'50''$ North and longitude $121^{\circ}05'07''$ West;
26. Thence southeasterly in a straight line to a point at latitude $64^{\circ}36'39''$ North and longitude $121^{\circ}04'28''$ West;
27. Thence southeasterly in a straight line to a point at latitude $64^{\circ}36'28''$ North and longitude $121^{\circ}04'22''$ West;
28. Thence easterly in a straight line to a point at latitude $64^{\circ}36'29''$ North and longitude $121^{\circ}03'54''$ West;
29. Thence easterly in a straight line to a point at latitude $64^{\circ}36'34''$ North and longitude $121^{\circ}03'21''$ West;
30. Thence northeasterly in a straight line to a point at latitude $64^{\circ}36'44''$ North and longitude $121^{\circ}02'58''$ West
31. Thence easterly in a straight line to a point at latitude $64^{\circ}36'39''$ North and longitude $121^{\circ}02'25''$ West;
32. Thence northeasterly in a straight line to a point at latitude $64^{\circ}36'45''$ North and longitude $121^{\circ}02'02''$ West;
33. Thence southeasterly in a straight line to a point at latitude $64^{\circ}36'41''$ North and longitude $121^{\circ}01'40''$ West;
34. Thence southeasterly in a straight line to a point at latitude $64^{\circ}36'36''$ North and longitude $121^{\circ}01'26''$ West;

35. Thence southeasterly in a straight line to a point at latitude $64^{\circ}36'28''$ North and longitude $121^{\circ}01'12''$ West;
36. Thence southeasterly in a straight line to a point at latitude $64^{\circ}36'03''$ North and longitude $121^{\circ}00'42''$ West;
37. Thence southeasterly in a straight line to a point at latitude $64^{\circ}35'56''$ North and longitude $121^{\circ}00'25''$ West;
38. Thence southeasterly in a straight line to a point at latitude $64^{\circ}35'48''$ North and longitude $121^{\circ}00'22''$ West;
39. Thence southeasterly in a straight line to a point at latitude $64^{\circ}35'37''$ North and longitude $120^{\circ}59'43''$ West;
40. Thence easterly in a straight line to a point at latitude $64^{\circ}35'35''$ North and longitude $120^{\circ}58'29''$ West;
41. Thence southeasterly in a straight line to a point at latitude $64^{\circ}35'30''$ North and longitude $120^{\circ}58'11''$ West;
42. Thence southeasterly in a straight line to a point at latitude $64^{\circ}35'20''$ North and longitude $120^{\circ}57'58''$ West;
43. Thence southerly in a straight line to a point at latitude $64^{\circ}35'08''$ North and longitude $120^{\circ}57'56''$ West;
44. Thence easterly in a straight line to a point at latitude $64^{\circ}35'01''$ North and longitude $120^{\circ}57'07''$ West;
45. Thence southeasterly in a straight line to a point at latitude $64^{\circ}34'38''$ North and longitude $120^{\circ}56'12''$ West;
46. Thence southeasterly in a straight line to a point at latitude $64^{\circ}34'28''$ North and longitude $120^{\circ}55'37''$ West;
47. Thence southerly in a straight line to a point at latitude $64^{\circ}33'58''$ North and longitude $120^{\circ}55'34''$ West;
48. Thence southeasterly in a straight line to a point at latitude $64^{\circ}33'34''$ North and longitude $120^{\circ}54'57''$ West;
49. Thence southeasterly in a straight line to a point at latitude $64^{\circ}33'23''$ North and longitude $120^{\circ}54'12''$ West;
50. Thence easterly in a straight line to a point at latitude $64^{\circ}33'20''$ North and longitude $120^{\circ}52'40''$ West;
51. Thence southeasterly in a straight line to a point at latitude $64^{\circ}32'44''$ North and longitude $120^{\circ}51'53''$ West;
52. Thence southeasterly in a straight line to a point at latitude $64^{\circ}32'23''$ North and longitude $120^{\circ}50'00''$ West;
53. Thence southeasterly in a straight line to a point at latitude $64^{\circ}32'04''$ North and longitude $120^{\circ}49'11''$ West;
54. Thence southeasterly in a straight line to a point at latitude $64^{\circ}31'44''$ North and longitude $120^{\circ}48'45''$ West;
55. Thence southeasterly in a straight line to a point at latitude $64^{\circ}31'11''$ North and longitude $120^{\circ}48'27''$ West;

56. Thence southeasterly in a straight line to a point at latitude $64^{\circ}30'47''$ North and longitude $120^{\circ}47'56''$ West;
57. Thence easterly in a straight line to a point at latitude $64^{\circ}30'29''$ North and longitude $120^{\circ}46'08''$ West;
58. Thence southeasterly in a straight line to a point at latitude $64^{\circ}29'48''$ North and longitude $120^{\circ}43'44''$ West;
59. Thence easterly in a straight line to a point at latitude $64^{\circ}29'46''$ North and longitude $120^{\circ}42'52''$ West;
60. Thence southeasterly in a straight line to a point at latitude $64^{\circ}29'30''$ North and longitude $120^{\circ}42'09''$ West;
61. Thence southeasterly in a straight line to a point at latitude $64^{\circ}29'18''$ North and longitude $120^{\circ}41'01''$ West;
62. Thence easterly in a straight line to a point at latitude $64^{\circ}29'14''$ North and longitude $120^{\circ}40'15''$ West;
63. Thence easterly in a straight line to a point at latitude $64^{\circ}29'12''$ North and longitude $120^{\circ}39'18''$ West;
64. Thence easterly in a straight line to a point at latitude $64^{\circ}29'06''$ North and longitude $120^{\circ}38'15''$ West;
65. Thence southeasterly in a straight line to a point at latitude $64^{\circ}28'21''$ North and longitude $120^{\circ}35'57''$ West;
66. Thence southeasterly in a straight line to a point at latitude $64^{\circ}27'53''$ North and longitude $120^{\circ}35'10''$ West;
67. Thence southeasterly in a straight line to a point at latitude $64^{\circ}27'18''$ North and longitude $120^{\circ}33'55''$ West;
68. Thence easterly in a straight line to a point at latitude $64^{\circ}27'17''$ North and longitude $120^{\circ}33'14''$ West;
69. Thence northeasterly in a straight line to a point at latitude $64^{\circ}27'26''$ North and longitude $120^{\circ}32'56''$ West;
70. Thence easterly in a straight line to a point at latitude $64^{\circ}27'30''$ North and longitude $120^{\circ}32'32''$ West;
71. Thence easterly in a straight line to a point at latitude $64^{\circ}27'24''$ North and longitude $120^{\circ}31'35''$ West;
72. Thence southeasterly in a straight line to a point at latitude $64^{\circ}27'09''$ North and longitude $120^{\circ}30'34''$ West;
73. Thence easterly in a straight line to a point at latitude $64^{\circ}27'13''$ North and longitude $120^{\circ}29'53''$ West;
74. Thence easterly in a straight line to a point at latitude $64^{\circ}27'12''$ North and longitude $120^{\circ}29'07''$ West;
75. Thence northeasterly in a straight line to a point at latitude $64^{\circ}27'23''$ North and longitude $120^{\circ}28'47''$ West;
76. Thence easterly in a straight line to a point at latitude $64^{\circ}27'27''$ North and longitude $120^{\circ}28'06''$ West;

77. Thence easterly in a straight line to a point at latitude 64°27'22" North and longitude 120°26'29" West;
78. Thence southeasterly in a straight line to a point at latitude 64°26'52" North and longitude 120°25'07" West;
79. Thence southeasterly in a straight line to a point at latitude 64°26'26" North and longitude 120°23'27" West;
80. Thence southeasterly in a straight line to a point on the boundary of the Sahtu Settlement Area, at approximate latitude 64°26'03" North and longitude 120°22'25" West;
81. Thence generally southwesterly, northwesterly and then westerly following the boundary of the Sahtu Settlement Area, to a point at approximate latitude 64°13'18" North and longitude 122°10'33" West;
82. Thence northeasterly in a straight line to a point at latitude 64°14'25" North and longitude 122°10'09" West;
83. Thence northeasterly in a straight line to a point at latitude 64°16'03" North and longitude 122°09'02" West;
84. Thence northerly in a straight line to a point at latitude 64°17'20" North and longitude 122°08'59" West;
85. Thence northwesterly in a straight line to a point at latitude 64°18'11" North and longitude 122°09'23" West;
86. Thence northwesterly in a straight line to a point at latitude 64°18'34" North and longitude 122°10'01" West;
87. Thence northwesterly in a straight line to a point at latitude 64°19'25" North and longitude 122°11'04" West;
88. Thence northwesterly in a straight line to a point at latitude 64°19'41" North and longitude 122°12'06" West;
89. Thence northwesterly in a straight line to a point at latitude 64°19'59" North and longitude 122°12'33" West;
90. Thence northerly in a straight line to a point at latitude 64°20'47" North and longitude 122°12'39" West;
91. Thence northwesterly in a straight line to a point at latitude 64°21'07" North and longitude 122°13'23" West;
92. Thence northwesterly in a straight line to a point at latitude 64°21'33" North and longitude 122°13'44" West;
93. Thence northeasterly in a straight line to a point at latitude 64°21'58" North and longitude 122°13'36" West;
94. Thence northeasterly in a straight line to a point at latitude 64°22'36" North and longitude 122°12'46" West;
95. Thence northeasterly in a straight line to a point at latitude 64°23'56" North and longitude 122°10'36" West;
96. Thence northeasterly in a straight line to a point at latitude 64°24'18" North and longitude 122°09'37" West;
97. Thence northeasterly in a straight line to a point at latitude 64°25'01" North and longitude 122°08'11" West;

98. Thence northeasterly in a straight line to a point at latitude $64^{\circ}26'06''$ North and longitude $122^{\circ}06'26''$ West;
99. Thence northeasterly in a straight line to a point at latitude $64^{\circ}27'39''$ North and longitude $122^{\circ}04'50''$ West;
100. Thence northeasterly in a straight line to a point at latitude $64^{\circ}28'33''$ North and longitude $122^{\circ}02'31''$ West;
101. Thence easterly in a straight line to a point at latitude $64^{\circ}28'34''$ North and longitude $122^{\circ}01'16''$ West;
102. Thence southeasterly in a straight line to a point at latitude $64^{\circ}28'24''$ North and longitude $122^{\circ}00'48''$ West;
103. Thence easterly in a straight line to a point at latitude $64^{\circ}28'23''$ North and longitude $121^{\circ}59'45''$ West;
104. Thence northeasterly in a straight line to a point at latitude $64^{\circ}28'56''$ North and longitude $121^{\circ}58'26''$ West;
105. Thence northeasterly in a straight line to a point at latitude $64^{\circ}29'18''$ North and longitude $121^{\circ}58'12''$ West;
106. Thence northeasterly in a straight line to a point at latitude $64^{\circ}29'35''$ North and longitude $121^{\circ}57'52''$ West;
107. Thence northeasterly in a straight line to a point at latitude $64^{\circ}30'02''$ North and longitude $121^{\circ}57'15''$ West;
108. Thence northeasterly in a straight line to a point at latitude $64^{\circ}30'09''$ North and longitude $121^{\circ}56'57''$ West;
109. Thence northerly in a straight line to a point at latitude $64^{\circ}32'04''$ North and longitude $121^{\circ}57'13''$ West;
110. Thence northeasterly in a straight line to a point at latitude $64^{\circ}32'26''$ North and longitude $121^{\circ}57'04''$ West;
111. Thence northeasterly in a straight line to a point at latitude $64^{\circ}35'16''$ North and longitude $121^{\circ}53'16''$ West;
112. Thence northeasterly in a straight line to a point at latitude $64^{\circ}35'51''$ North and longitude $121^{\circ}53'07''$ West;
113. Thence northeasterly in a straight line to a point at latitude $64^{\circ}36'40''$ North and longitude $121^{\circ}52'38''$ West;
114. Thence northeasterly in a straight line to a point at latitude $64^{\circ}37'39''$ North and longitude $121^{\circ}52'25''$ West;
115. Thence northeasterly in a straight line to a point at latitude $64^{\circ}38'26''$ North and longitude $121^{\circ}51'39''$ West;
116. Thence northeasterly in a straight line to a point at latitude $64^{\circ}39'23''$ North and longitude $121^{\circ}49'48''$ West;
117. Thence northeasterly in a straight line to a point at latitude $64^{\circ}40'01''$ North and longitude $121^{\circ}48'22''$ West;
118. Thence northeasterly in a straight line to a point at latitude $64^{\circ}40'54''$ North and longitude $121^{\circ}47'34''$ West;

119. Thence northeasterly in a straight line to a point at latitude 64°42'42" North and longitude 121°46'30" West;
120. Thence northeasterly in a straight line to a point at latitude 64°44'19" North and longitude 121°44'29" West;
121. Thence northeasterly in a straight line to a point at latitude 64°45'41" North and longitude 121°43'26" West;
122. Thence northeasterly in a straight line to a point at latitude 64°47'29" North and longitude 121°41'47" West;
123. Thence northeasterly in a straight line to a point at latitude 64°48'20" North and longitude 121°40'42" West;
124. Thence northeasterly in a straight line to a point at latitude 64°49'23" North and longitude 121°39'07" West;
125. Thence northeasterly in a straight line to a point at latitude 64°49'59" North and longitude 121°37'42" West;
126. Thence northeasterly in a straight line to a point at latitude 64°50'59" North and longitude 121°35'51" West;
127. Thence northeasterly in a straight line to a point at latitude 64°52'01" North and longitude 121°33'39" West;
128. Thence northeasterly in a straight line to a point at latitude 64°52'30" North and longitude 121°32'07" West;
129. Thence easterly in a straight line to a point at latitude 64°52'38" North and longitude 121°31'15" West;
130. Thence easterly in a straight line to a point at latitude 64°52'38" North and longitude 121°30'38" West;
131. Thence southerly in a straight line to a point on the ordinary high water mark of Great Bear Lake, using the hydrology layers from Natural Resources Canada's CanVec dataset (2017), at latitude 64°52'37" North and longitude 121°30'38" West;
132. Thence generally southeasterly and then northeasterly following the ordinary high water mark of Great Bear Lake, using the hydrology layers from Natural Resources Canada's CanVec dataset (2017), to the point of commencement.

32. Petıııah (Bear Rock) Conservation Zone

Datum: NAD83

A **500 m conservation buffer is applied to the 280 m elevation contour line**, using Natural Resources Canada's CanVec dataset (2017), as well as a **500 m buffer** to include a small lake known locally as Trout Lake (located at approximate latitude 64°58'15" North and longitude 125°40'40" West) east of Bear Rock, using the hydrology layers from Natural Resources Canada's CanVec dataset (2017). Together, these buffers form Zone 32 Petıııah (Bear Rock) Conservation Zone.

Notes on methodology

Where overlap exists with the Mackenzie River, the buffer is adjusted to follow the ordinary high water mark of the Mackenzie River, using the hydrology layers from Natural Resources Canada's CanVec dataset (2017).

Metes and bounds

No metes and bounds are described for this zone, as it is based on a buffer around contour lines and a lake.

33. Sahtú Deh (Great Bear River) Special Management Zone

Datum: NAD83

A **5 km special management buffer** is applied to the ordinary high water mark of Great Bear River, using the hydrology layers from Natural Resources Canada's CanVec dataset (2017).

However, some areas of the buffer are erased as per the boundaries of the zones listed below, as they supersede the special management buffer.

- Délıne Block Land Transfer (Atlas Mapping System, Municipal and Community Affairs (MACA), Commissioner's Land Administration, Government of the Northwest Territories, 2015);
- Tulita Community Boundary (Atlas Mapping System, Municipal and Community Affairs (MACA), Commissioner's Land Administration, Government of the Northwest Territories, 2012);
- 32. Petınoah (Bear Rock) Conservation Zone;
- 62. K'ááııó Túé SMZ (Willow Lake Wetlands SMZ);
- 63. Deh Cho (Mackenzie River) Special Management Zone.

Notes on methodology

Where overlaps exists with Sahtú (Great Bear Lake), the buffer is adjusted to follow the ordinary high water mark of Great Bear Lake, using Natural Resources Canada's CanVec dataset (2017).

Metes and bounds

No metes and bounds are described for this zone, as it is based on a buffer placed around a river. For the boundaries of the zones that supersede the special management buffer for Sahtú Deh (Great Bear River), please refer to their respective zone description.

34. Mackay, Rusty, and Yellow Lakes Conservation Zone

Datum: NAD83

A **500 m conservation buffer** is applied to the ordinary high water marks of **Mackay Lake (34A)** (otherwise known as Fall Stone Lake, located at approximate latitude 64°41'30" North and longitude 125°43'00" West), **Yellow Lake (34B)** (located at approximate latitude 64°38'00" North and longitude 125°38'00" West), and **Rusty Lake (34C)** (located at approximate latitude 64°32'15" North and longitude 125°33'00" West), and an **unnamed lake (34D)** (located at approximate latitude 64°34'05" North and longitude 125°28'30" West), using the hydrology layers from Natural Resources Canada's CanVec dataset (2017).

Metes and bounds

No metes and bounds are described for this zone, as it is based on a buffer placed around a series of lakes.

35. Táhlu Túé & Táshín Túé (Stewart & Tate Lakes) Conservation Zone

Datum: NAD83

A **1 km conservation buffer** is applied to the ordinary high water marks of **Tate Lake (35A)** (located at approximate latitude 64°30'30" North and 125°21'30" West) and **Stewart Lake (35B)** (located at approximate latitude 64°23'00" North and 125°16'00" West), using the hydrology layers from Natural Resources Canada's CanVec dataset (2017).

In addition, a **500 m conservation buffer** is applied to cabins and other cultural sites around Stewart and Tate Lakes, as per the Current Land Use Traditional Knowledge study done by the Sahtu Land Use Planning Board (2000). These created buffers around cabins and cultural sites are merged into the buffers placed around the ordinary high water marks of both Tate Lake (35A) and Stewart Lake (35B), adding to the zone it is closest to.

Metes and bounds

No metes and bounds are described for this zone, as it is based on buffers placed around a series of lakes, as well as buffers placed around cabins and cultural sites. The buffers together form Zone 35 Stewart and Tate Lakes Conservation Zone

36. Mio Lake Conservation Zone

Datum: NAD83

A **500 m conservation buffer** is applied to the ordinary high water marks of Mio Lake (located at approximate latitude 64°31'00" North and longitude 124°49'00" West), using the hydrology layers from Natural Resources Canada's CanVec dataset (2017).

Metes and bounds

No metes and bounds are described for this zone, as it is based on a buffer placed around a lake.

37. Tłj Dehdele Dıdlıq (Red Dog Mountain) Conservation Zone

Datum: NAD83

Located at the edge of the Mackenzie Mountains on the north bank of the Keele River, a metes and bounds zone description follows as a means to define the boundaries of this zone.

Metes and bounds

1. Commencing at the intersection with the 400 m elevation contour line, using Natural Resources Canada's CanVec dataset (2017), with a point at approximate latitude 64°12'13" North and longitude 125°36'25" West;
2. Thence southerly in a straight line to a point on the 320 m elevation contour line, using Natural Resources Canada's CanVec dataset (2017), at approximate latitude 64°11'51"N and longitude 125°36'29"W;
3. Thence southeasterly in a straight line to a point on the 300 m elevation contour line, using Natural Resources Canada's CanVec dataset (2017), at approximate latitude 64°11'45"N and longitude 125°36'27"W;
4. Thence southeasterly in a straight line to a point on the 260 m elevation contour line, using Natural Resources Canada's CanVec dataset (2017), at approximate latitude 64°11'33"N and longitude 125°36'02"W;
5. Thence southeasterly in a straight line to a point on the ordinary high water mark of the Keele River, using Natural Resources Canada's CanVec dataset (2017), at approximate latitude 64°10'31" North and longitude 125°34'50" West;
6. Thence generally westerly following the ordinary high water mark of the Keele River, using Natural Resources Canada's CanVec dataset (2017), to a point at approximate latitude 64°11'21" North and longitude 125°39'44" West;
7. Thence northwesterly in a straight line to a point on the 220 m elevation contour line, using Natural Resources Canada's CanVec dataset (2017), at approximate latitude 64°11'29" North and longitude 125°40'20" West;
8. Thence northeasterly in a straight line to a point on the 400 m elevation contour line, using Natural Resources Canada's CanVec dataset (2017), at approximate latitude 64°11'49" North and longitude 125°40'03" West;
9. Thence generally northwesterly following the 400 m elevation contour line, using Natural Resources Canada's CanVec dataset (2017), to a point at approximate latitude 64°13'04" North and longitude 125°42'08" West;
10. Thence northeasterly in a straight line to a point on the 440 m elevation contour line, using Natural Resources Canada's CanVec dataset (2017), at approximate latitude 64°13'20" North and longitude 125°42'04" West;
11. Thence easterly in a straight line to a point on the 480 m elevation contour line, using Natural Resources Canada's CanVec dataset (2017), at approximate latitude 64°13'20" North and longitude 125°41'34" West;
12. Thence northeasterly in a straight line to a point on the 580 m elevation contour line, using Natural Resources Canada's CanVec dataset (2017), at approximate latitude 64°14'02" North and longitude 125°40'19" West;

13. Thence generally northeasterly and then southeasterly following the 580 m elevation contour line, using Natural Resources Canada's CanVec dataset (2017), to a point at approximate latitude $64^{\circ}13'54''$ North and longitude $125^{\circ}39'23''$ West;
14. Thence northeasterly in a straight line to a point on the 440 m elevation contour line, using Natural Resources Canada's CanVec dataset (2017), at approximate latitude $64^{\circ}14'18''$ North and longitude $125^{\circ}38'41''$ West;
15. Thence northeasterly in a straight line to a point on the 400 m elevation contour line, using Natural Resources Canada's CanVec dataset (2017), at approximate latitude $64^{\circ}14'26''$ North and longitude $125^{\circ}38'35''$ West;
16. Thence generally southeasterly and then westerly following the 400 m elevation contour line, using Natural Resources Canada's CanVec dataset (2017), to the point of commencement.

Notes on methodology

As the Red Dog Mountain is part of a ridge, its extent cannot be captured by one specific elevation contour. As such, synclines are selected for drawing straight lines between contour lines as to define the boundary of the zone.

38. Mackenzie Mountains Special Management Zone

Datum: NAD83

The Mackenzie Mountains Special Management Zone is loosely based on generalised boundaries of Level IV Ecoregions, as described by the Northwest Territories Ecosystem Classification Reports, provided by a digital shapefile from the Department of Environment and Natural Resources, Government of the Northwest Territories (2013). The ecoregions to be included in Zone 38 Mackenzie Mountains Special Management Zone are selected based on location and physiographic attributes. In the area of the Mackenzie Mountains in the Southwest corner of the Sahtú, only ecoregions with physiographic attributes that include “mountains”, “valley”, or “plateau” are selected to define this zone’s extent. The selected Level IV Ecoregions are the following: Tigonankweine Range LSas, Sayunei-Sekwi Ranges LSas, Southern Backbone Ranges LSas, Raven-Redstone Valley LSbs, Canyon Ranges LSsa, Painted Mountains LSsa, Canyon Ranges HSas, Shattered Range HSas, Northern Backbone Ranges HSas, Natla Plateau MBas, Sapper Ranges MBas, Itsi Mountains MBas. A metes and bounds zone description follows as a way to describe this zone.

However, some areas of the special management zone are erased as per the boundaries of the zones listed below, as they supersede the special management zone defined by the metes and bounds.

- Nááts’jch’oh National Park Reserve of Canada
- 39. Do Et’q (Doi T’oh Territorial Park and Canol Heritage Trail Reserve) Proposed Conservation Initiative;
- 40. Shúhtaot’jñé Néné (Mountain Dene Land) Conservation Zone;
- 42. Faʔfa Nlǰjné (Mountain River Extension) Conservation Zone;
- 43. Carcajou River Special Management Zone;
- 44. Florence Lake Conservation Zone;
- 45. Palmer Lake Conservation Zone;
- 46. K’ááchohtíídeé (Mountain River) Special Management Zone;
- 47. Cache Lake Conservation Zone;
- 48. Túésene (Mountain Hot Springs) Conservation Zone;
- 49. Mirage Mountain Conservation Zone.

Note:

As part of the Sahtú Land Use Plan’s Nááts’jch’oh Amendment (AM2015-01), Zone 41 Nááts’jch’oh Proposed Conservation Initiative is to become Zone 41 South Nahanni Watershed Special Management Zone. When this amendment is approved, it will modify the south-western boundary of Zone 38 Mackenzie Mountains Special Management Zone where it is shared with the boundary of Zone 41, as the new boundaries for Zone 41 South Nahanni Watershed Special Management Zone will be different.

Metes and bounds

1. Commencing at a point on the boundary of the Sahtu Settlement area at approximate latitude 63°28’09” North and longitude 125°29’53” West;
2. Thence northwesterly in a straight line to a point at latitude 63°30’02” North and longitude 125°34’54” West;

3. Thence northwesterly in a straight line to a point at latitude $63^{\circ}31'02''$ North and longitude $125^{\circ}36'26''$ West;
4. Thence northwesterly in a straight line to a point at latitude $63^{\circ}31'33''$ North and longitude $125^{\circ}37'12''$ West;
5. Thence northwesterly in a straight line to a point at latitude $63^{\circ}32'12''$ North and longitude $125^{\circ}38'37''$ West;
6. Thence northwesterly in a straight line to a point at latitude $63^{\circ}32'38''$ North and longitude $125^{\circ}38'55''$ West;
7. Thence northwesterly in a straight line to a point at latitude $63^{\circ}33'09''$ North and longitude $125^{\circ}39'07''$ West;
8. Thence northwesterly in a straight line to a point at latitude $63^{\circ}33'52''$ North and longitude $125^{\circ}39'15''$ West;
9. Thence northeasterly in a straight line to a point at latitude $63^{\circ}34'10''$ North and longitude $125^{\circ}39'10''$ West;
10. Thence northeasterly in a straight line to a point at latitude $63^{\circ}34'28''$ North and longitude $125^{\circ}38'57''$ West;
11. Thence northerly in a straight line to a point at latitude $63^{\circ}34'46''$ North and longitude $125^{\circ}38'54''$ West;
12. Thence northwesterly in a straight line to a point at latitude $63^{\circ}35'44''$ North and longitude $125^{\circ}39'18''$ West;
13. Thence northeasterly in a straight line to a point at latitude $63^{\circ}38'14''$ North and longitude $125^{\circ}38'31''$ West;
14. Thence northwesterly in a straight line to a point at latitude $63^{\circ}38'41''$ North and longitude $125^{\circ}38'38''$ West;
15. Thence northwesterly in a straight line to a point at latitude $63^{\circ}42'55''$ North and longitude $125^{\circ}43'28''$ West;
16. Thence northwesterly in a straight line to a point at latitude $63^{\circ}46'21''$ North and longitude $125^{\circ}47'58''$ West;
17. Thence northwesterly in a straight line to a point at latitude $63^{\circ}50'15''$ North and longitude $125^{\circ}54'02''$ West;
18. Thence northwesterly in a straight line to a point at latitude $63^{\circ}51'53''$ North and longitude $125^{\circ}57'10''$ West;
19. Thence westerly in a straight line to a point at latitude $63^{\circ}52'56''$ North and longitude $125^{\circ}59'41''$ West;

20. Thence northwesterly in a straight line to a point at latitude $63^{\circ}53'53''$ North and longitude $126^{\circ}03'46''$ West;
21. Thence northwesterly in a straight line to a point at latitude $63^{\circ}55'12''$ North and longitude $126^{\circ}05'29''$ West;
22. Thence northeasterly in a straight line to a point at latitude $63^{\circ}55'29''$ North and longitude $126^{\circ}05'05''$ West;
23. Thence northerly in a straight line to a point at latitude $63^{\circ}56'05''$ North and longitude $126^{\circ}05'02''$ West;
24. Thence northwesterly in a straight line to a point at latitude $63^{\circ}58'00''$ North and longitude $126^{\circ}06'15''$ West;
25. Thence northwesterly in a straight line to a point at latitude $63^{\circ}59'30''$ North and longitude $126^{\circ}07'55''$ West;
26. Thence northwesterly in a straight line to a point at latitude $64^{\circ}06'14''$ North and longitude $126^{\circ}16'08''$ West;
27. Thence northwesterly in a straight line to a point at latitude $64^{\circ}07'52''$ North and longitude $126^{\circ}18'43''$ West;
28. Thence northwesterly in a straight line to a point at latitude $64^{\circ}09'20''$ North and longitude $126^{\circ}19'39''$ West;
29. Thence northwesterly in a straight line to a point at latitude $64^{\circ}10'30''$ North and longitude $126^{\circ}21'18''$ West;
30. Thence northwesterly in a straight line to a point at latitude $64^{\circ}12'19''$ North and longitude $126^{\circ}21'59''$ West;
31. Thence northwesterly in a straight line to a point at latitude $64^{\circ}14'39''$ North and longitude $126^{\circ}24'32''$ West;
32. Thence northwesterly in a straight line to a point at latitude $64^{\circ}15'01''$ North and longitude $126^{\circ}25'25''$ West;
33. Thence southwesterly in a straight line to a point at latitude $64^{\circ}14'44''$ North and longitude $126^{\circ}27'14''$ West;
34. Thence southwesterly in a straight line to a point at latitude $64^{\circ}14'04''$ North and longitude $126^{\circ}28'54''$ West;
35. Thence southwesterly in a straight line to a point at latitude $64^{\circ}12'49''$ North and longitude $126^{\circ}30'34''$ West;
36. Thence southwesterly in a straight line to a point at latitude $64^{\circ}11'56''$ North and longitude $126^{\circ}34'11''$ West;

37. Thence northwesterly in a straight line to a point at latitude $64^{\circ}13'11''$ North and longitude $126^{\circ}38'10''$ West;
38. Thence northwesterly in a straight line to a point at latitude $64^{\circ}14'11''$ North and longitude $126^{\circ}39'45''$ West;
39. Thence northwesterly in a straight line to a point at latitude $64^{\circ}15'49''$ North and longitude $126^{\circ}40'40''$ West;
40. Thence northeasterly in a straight line to a point at latitude $64^{\circ}17'54''$ North and longitude $126^{\circ}39'46''$ West;
41. Thence northerly in a straight line to a point at latitude $64^{\circ}18'40''$ North and longitude $126^{\circ}39'51''$ West;
42. Thence northeasterly in a straight line to a point at latitude $64^{\circ}22'02''$ North and longitude $126^{\circ}39'12''$ West;
43. Thence northwesterly in a straight line to a point at latitude $64^{\circ}22'42''$ North and longitude $126^{\circ}39'28''$ West;
44. Thence northwesterly in a straight line to a point at latitude $64^{\circ}24'51''$ North and longitude $126^{\circ}42'34''$ West;
45. Thence northwesterly in a straight line to a point at latitude $64^{\circ}26'45''$ North and longitude $126^{\circ}43'50''$ West;
46. Thence northeasterly in a straight line to a point at latitude $64^{\circ}27'47''$ North and longitude $126^{\circ}43'18''$ West;
47. Thence northeasterly in a straight line to a point at latitude $64^{\circ}29'59''$ North and longitude $126^{\circ}40'44''$ West;
48. Thence northwesterly in a straight line to a point at latitude $64^{\circ}30'43''$ North and longitude $126^{\circ}41'09''$ West;
49. Thence northwesterly in a straight line to a point at latitude $64^{\circ}31'23''$ North and longitude $126^{\circ}42'40''$ West;
50. Thence northwesterly in a straight line to a point at latitude $64^{\circ}32'54''$ North and longitude $126^{\circ}49'40''$ West;
51. Thence northwesterly in a straight line to a point at latitude $64^{\circ}34'44''$ North and longitude $126^{\circ}57'02''$ West;
52. Thence northwesterly in a straight line to a point at latitude $64^{\circ}36'22''$ North and longitude $126^{\circ}59'00''$ West;
53. Thence northwesterly in a straight line to a point at latitude $64^{\circ}36'59''$ North and longitude $127^{\circ}00'02''$ West;

54. Thence northwesterly in a straight line to a point at latitude $64^{\circ}37'50''$ North and longitude $127^{\circ}01'33''$ West;
55. Thence northwesterly in a straight line to a point at latitude $64^{\circ}38'43''$ North and longitude $127^{\circ}02'27''$ West;
56. Thence northwesterly in a straight line to a point at latitude $64^{\circ}39'05''$ North and longitude $127^{\circ}03'02''$ West;
57. Thence northwesterly in a straight line to a point at latitude $64^{\circ}39'24''$ North and longitude $127^{\circ}04'19''$ West;
58. Thence westerly in a straight line to a point at latitude $64^{\circ}39'53''$ North and longitude $127^{\circ}08'43''$ West;
59. Thence northwesterly in a straight line to a point at latitude $64^{\circ}41'35''$ North and longitude $127^{\circ}09'16''$ West;
60. Thence northwesterly in a straight line to a point at latitude $64^{\circ}42'21''$ North and longitude $127^{\circ}10'14''$ West;
61. Thence northwesterly in a straight line to a point at latitude $64^{\circ}43'24''$ North and longitude $127^{\circ}12'52''$ West;
62. Thence northwesterly in a straight line to a point at latitude $64^{\circ}45'14''$ North and longitude $127^{\circ}18'39''$ West;
63. Thence northwesterly in a straight line to a point at latitude $64^{\circ}46'03''$ North and longitude $127^{\circ}20'15''$ West;
64. Thence northwesterly in a straight line to a point at latitude $64^{\circ}47'23''$ North and longitude $127^{\circ}21'05''$ West;
65. Thence northerly in a straight line to a point at latitude $64^{\circ}48'40''$ North and longitude $127^{\circ}21'00''$ West;
66. Thence northeasterly in a straight line to a point at latitude $64^{\circ}49'13''$ North and longitude $127^{\circ}20'23''$ West;
67. Thence easterly in a straight line to a point at latitude $64^{\circ}49'20''$ North and longitude $127^{\circ}18'50''$ West;
68. Thence easterly in a straight line to a point at latitude $64^{\circ}49'00''$ North and longitude $127^{\circ}15'30''$ West;
69. Thence southeasterly in a straight line to a point at latitude $64^{\circ}48'32''$ North and longitude $127^{\circ}15'22''$ West;
70. Thence southeasterly in a straight line to a point at latitude $64^{\circ}47'48''$ North and longitude $127^{\circ}11'49''$ West;

71. Thence southeasterly in a straight line to a point at latitude $64^{\circ}45'08''$ North and longitude $127^{\circ}04'23''$ West;
72. Thence southeasterly in a straight line to a point at latitude $64^{\circ}44'26''$ North and longitude $127^{\circ}01'44''$ West;
73. Thence easterly in a straight line to a point at latitude $64^{\circ}44'17''$ North and longitude $126^{\circ}52'44''$ West;
74. Thence northeasterly in a straight line to a point at latitude $64^{\circ}45'08''$ North and longitude $126^{\circ}48'35''$ West;
75. Thence easterly in a straight line to a point at latitude $64^{\circ}45'13''$ North and longitude $126^{\circ}46'27''$ West;
76. Thence northwesterly in a straight line to a point at latitude $64^{\circ}45'45''$ North and longitude $126^{\circ}46'38''$ West;
77. Thence northwesterly in a straight line to a point at latitude $64^{\circ}47'58''$ North and longitude $126^{\circ}51'34''$ West;
78. Thence northwesterly in a straight line to a point at latitude $64^{\circ}48'18''$ North and longitude $126^{\circ}52'22''$ West;
79. Thence northwesterly in a straight line to a point at latitude $64^{\circ}53'05''$ North and longitude $127^{\circ}00'48''$ West;
80. Thence northwesterly in a straight line to a point at latitude $64^{\circ}54'22''$ North and longitude $127^{\circ}05'38''$ West;
81. Thence northwesterly in a straight line to a point at latitude $64^{\circ}56'49''$ North and longitude $127^{\circ}09'28''$ West;
82. Thence northwesterly in a straight line to a point at latitude $64^{\circ}57'30''$ North and longitude $127^{\circ}09'55''$ West;
83. Thence northwesterly in a straight line to a point at latitude $64^{\circ}57'52''$ North and longitude $127^{\circ}10'28''$ West;
84. Thence northwesterly in a straight line to a point at latitude $64^{\circ}58'15''$ North and longitude $127^{\circ}12'31''$ West;
85. Thence northwesterly in a straight line to a point at latitude $65^{\circ}01'52''$ North and longitude $127^{\circ}30'02''$ West;
86. Thence westerly in a straight line to a point at latitude $65^{\circ}02'15''$ North and longitude $127^{\circ}33'08''$ West;
87. Thence northwesterly in a straight line to a point at latitude $65^{\circ}02'47''$ North and longitude $127^{\circ}40'15''$ West;

88. Thence northwesterly in a straight line to a point at latitude $65^{\circ}04'19''$ North and longitude $127^{\circ}46'56''$ West;
89. Thence northwesterly in a straight line to a point at latitude $65^{\circ}05'28''$ North and longitude $127^{\circ}52'50''$ West;
90. Thence northwesterly in a straight line to a point at latitude $65^{\circ}06'01''$ North and longitude $127^{\circ}55'25''$ West;
91. Thence northwesterly in a straight line to a point at latitude $65^{\circ}06'55''$ North and longitude $127^{\circ}59'01''$ West;
92. Thence northwesterly in a straight line to a point at latitude $65^{\circ}07'10''$ North and longitude $128^{\circ}00'28''$ West;
93. Thence northwesterly in a straight line to a point at latitude $65^{\circ}09'38''$ North and longitude $128^{\circ}12'14''$ West;
94. Thence northwesterly in a straight line to a point at latitude $65^{\circ}11'09''$ North and longitude $128^{\circ}20'06''$ West;
95. Thence northwesterly in a straight line to a point at latitude $65^{\circ}12'31''$ North and longitude $128^{\circ}27'48''$ West;
96. Thence westerly in a straight line to a point at latitude $65^{\circ}13'14''$ North and longitude $128^{\circ}33'43''$ West;
97. Thence northwesterly in a straight line to a point at latitude $65^{\circ}16'06''$ North and longitude $128^{\circ}46'33''$ West;
98. Thence westerly in a straight line to a point at latitude $65^{\circ}17'06''$ North and longitude $128^{\circ}55'16''$ West;
99. Thence westerly in a straight line to a point at latitude $65^{\circ}17'13''$ North and longitude $129^{\circ}13'57''$ West;
100. Thence westerly in a straight line to a point at latitude $65^{\circ}17'52''$ North and longitude $129^{\circ}24'24''$ West;
101. Thence westerly in a straight line to a point at latitude $65^{\circ}18'16''$ North and longitude $129^{\circ}27'54''$ West;
102. Thence westerly in a straight line to a point at latitude $65^{\circ}19'11''$ North and longitude $129^{\circ}33'19''$ West;
103. Thence northwesterly in a straight line to a point at latitude $65^{\circ}19'45''$ North and longitude $129^{\circ}35'55''$ West;
104. Thence westerly in a straight line to a point at latitude $65^{\circ}20'16''$ North and longitude $129^{\circ}38'57''$ West;

105. Thence westerly in a straight line to a point intersecting with the boundary of Zone 65 Ts'udé Nlǐné Tuyeta (Ramparts River and Wetlands) Proposed Conservation Initiative, at latitude 65°20'26" North and longitude 129°40'12" West;
106. Thence generally southwesterly following the boundary of Zone 65 Ts'udé Nlǐné Tuyeta (Ramparts River and Wetlands) Proposed Conservation Initiative, to a point intersecting with the boundary of the Sahtu Settlement Area at approximate latitude 65°04'05" North and longitude 130°40'07" West;
107. Thence generally southerly following the boundary of the Sahtu Settlement Area, to a point intersecting with the limits of Zone 41 Nááts'ǰhch'oh Proposed Conservation Initiative, at approximate latitude 63°02'59" North and longitude 129°36'42" West;
108. Thence generally southeasterly following the limits of Zone 41 Nááts'ǰhch'oh Proposed Conservation Initiative, to a point intersecting with the boundary of the Sahtu Settlement Area at approximate latitude 62°37'00" North and longitude 127°23'10" West;
109. Thence generally northeasterly following the boundary of the Sahtu Settlement Area to the point of commencement.

39. Do Et'q (Doi T'oh Territorial Park and Canol Heritage Trail Reserve) Proposed Conservation Initiative

Datum: NAD27 (from *Sahtu Dene and Metis Comprehensive Land Claim Agreement*), transformed to NAD83 using Natural Resources Canada NTv2 tool.

This zone is based on *Schedule XXI- Canol Trail and Dodo Canyon*, from the *Sahtu Dene and Metis Comprehensive Land Claim Agreement*, with described coordinates given on a scale of 1:250,000 as per NTS map sheets. For metes and bounds zone description, consult *Schedule XXI* from the above listed document. This zone is composed in two parts, Canol Trail, and Dodo Canyon, as listed below. These two parts are merged together to form this zone.

Notes on methodology

Canol Trail

This zone is created using the Canol Trail centre line from the 1:250,000 NTS map sheets 96D (1988), 96E (1982), 105P (1985), and 106A (1986), provided in digital format through the National Topographic Database (NTDB - 2009) 1:250,000, as the spatial data for the centre line is more accurate in this obsolete database than from newer databases, such as CanVec. As per *Schedule XXI* of the above-mentioned agreement, a 1000 metre buffer is applied to the centre line where it adjoins public lands. In the cases where the Canol Trail adjoins Sahtu Settlement Lands Parcels, *Schedule XXI* indicates that a buffer of 30 metres is applied to the centre line. However, the surveyed Sahtu Settlement Lands Parcels provided by Natural Resources Canada's Settlement Lands layer included in the Surveyed Cadastral Data (2017) from Natural Resources Canada at a scale of 1:50,000 account for this buffer, where there is a gap between the Sahtu Settlement Lands Parcels. As such, the surveyed Sahtu Settlement Lands Parcels shapefile was used to erase the created 1000 metre buffer for areas adjacent to Sahtu lands (resulting in the creation of a 30 metre buffer), which is what is stipulated in *Schedule XXI*.

It is important to note that when erasing the Sahtu Settlement Lands Parcels from the buffer (as to create the 30 metre buffer explained above), it is necessary to check that the parts of the buffer related to the Canol Trail adjoining Sahtu Settlement Lands Parcels do not extend to areas further than 30 metres. Manual corrections for this are necessary at a few locations, including adjacent to Sahtu Parcels 117 and 118, and Sahtu Parcels 119, 120 and 121. Furthermore, as *Schedule XXI* indicates that the 1000 metre buffer applies to the centre line of the Canol Road Hiking Trail, the western terminus was digitised as being the Northwest-Territories-Yukon boundary. As well, the 1000 metre buffer's eastern terminus is at the boundary of the Norman Wells Block Land Transfer boundary as per *Schedule XXI*. Please note that the centreline of the trail may be labelled for some segments as Limited Use Road/Road in the attributes of the NTDB file, but in reality it is just a trail at present time.

Dodo Canyon

This zone is created using the coordinates and description provided by *Schedule XXI- Canol Trail and Dodo Canyon*, from the *Sahtu Dene and Metis Comprehensive Land Claim Agreement*, which are described using the NAD 1927 datum. These coordinates are transformed to NAD 1983 using Canada's NTv2 Transformation, which is an updated datum used for all other zones of the Sahtú Land Use Plan. Furthermore, as the parcels of land described in the above mentioned *Schedule XXI* were defined according to 1:250,000 NTS map sheets 96D (1988) and 96E (1982), for consistency, the boundaries

defined by hydrological features (rivers) are taken from the hydrological layers from National Topographic Database (NTDB - 2009) 1:250,000, Natural Resources Canada. The reason for this is that the spatial data contained in the National Topographic Database (NTDB - 2009) 1:250,000 were directly created from what is included on the NTS map sheets, thus following the original intent of what is written in the *Sahtu Dene and Metis Comprehensive Land Claim Agreement (SDMCLCA)*. Where breaks exist in the trail data from the NTDB, the missing centreline of the trail was digitised from the NTS map sheets.

Furthermore, the boundaries of Sahtu Settlement Lands Parcels are defined by Natural Resources Canada's Settlement Lands layer included in the NRCAN Surveyed Cadastral Data (2017). This data is very accurate, as the parcels are delineated based on surveyed coordinates.

Gaps

There are gaps in the datasets on which this zone is based that need to be addressed. Firstly, there is one small gap in the Canol Trail centre line as per the National Topographic Database (NTDB – 2009) 1:250,000 scale. This gap was addressed by drawing a straight line between the two terminuses, where this is an accurate representation of the feature at the given scale, as it was compared with the NTS map sheets. Furthermore, there exists a gap in the hydrology layer for the Carcajou River, as per the National Topographic Database (NTDB – 2009) data. Again, as the gap is very small and insignificant at the data scale, a straight line was drawn to connect the vertices on each side of the gap, where the boundary of this zone follows the ordinary high water mark of the said river.

40. Shúhtaot'jné Néné (Mountain Dene Land) Conservation Zone

Datum: NAD83

This zone is within the Mackenzie Mountains and has 3 sections: **40A** and **40B** include areas around the northern portion of the Canol Trail and Dodo Canyon, including the Plains of Abraham (40B), and **40C** includes areas of the Keele River (Begáádeé), Redstone and Ravens Throat Rivers (Tátsók'áádeé), Drum Lake, June Lake and Caribou Flats.

Methodology

As this area supersedes the boundaries for Zone 38 Mackenzie Mountains Special Management Zone and thus is erased when creating Zone 38, the metes and bounds description that follows does not describe when a boundary is shared with Zone 38 Mackenzie Mountains Special Management Zone.

Metes and bounds

Part 40A

1. Commencing at a point at latitude 64°44'06" North and longitude 128°00'21" West;
2. Thence southwesterly in a straight to a point at latitude 64°42'23" North and longitude 128°02'13" West;
3. Thence southwesterly in a straight to a point at latitude 64°41'53" North and longitude 128°02'34" West;
4. Thence southeasterly in a straight line to a point at latitude 64°41'42" North and longitude 128°02'13" West;
5. Thence easterly in a straight line to a point at latitude 64°41'34" North and longitude 128°00'58" West;
6. Thence southeasterly in a straight line to a point at latitude 64°41'20" North and longitude 128°00'35" West;
7. Thence westerly in a straight line to a point at latitude 64°41'20" North and longitude 128°01'24" West;
8. Thence southwesterly in a straight line to a point at latitude 64°41'11" North and longitude 128°01'36" West;
9. Thence westerly in a straight line to a point at latitude 64°41'04" North and longitude 128°03'10" West;
10. Thence southwesterly in a straight line to a point at latitude 64°40'30" North and longitude 128°04'38" West;
11. Thence southwesterly in a straight line to a point at latitude 64°40'05" North and longitude 128°04'57" West;

12. Thence southwesterly in a straight line to a point at latitude 64°38'55" North and longitude 128°05'41" West;
13. Thence southwesterly in a straight line to a point at latitude 64°38'32" North and longitude 128°05'47" West;
14. Thence southeasterly in a straight line to a point at latitude 64°38'15" North and longitude 128°05'25" West;
15. Thence southerly in a straight line to a point at latitude 64°36'36" North and longitude 128°05'32" West;
16. Thence southeasterly in a straight line to a point at latitude 64°35'49" North and longitude 128°04'30" West;
17. Thence southeasterly in a straight line to a point at latitude 64°35'17" North and longitude 128°03'25" West;
18. Thence southeasterly in a straight line to a point at latitude 64°35'00" North and longitude 128°03'17" West;
19. Thence southeasterly in a straight line to a point at latitude 64°34'37" North and longitude 128°02'45" West;
20. Thence southeasterly in a straight line to a point at latitude 64°33'16" North and longitude 128°00'13" West;
21. Thence southeasterly in a straight line to a point at latitude 64°32'18" North and longitude 127°58'40" West;
22. Thence easterly in a straight line to a point at latitude 64°31'45" North and longitude 127°54'44" West;
23. Thence southeasterly in a straight line to a point at latitude 64°31'29" North and longitude 127°53'51" West;
24. Thence southerly in a straight line to a point at latitude 64°31'08" North and longitude 127°53'54" West;
25. Thence southeasterly in a straight line to a point at latitude 64°30'34" North and longitude 127°52'44" West;
26. Thence easterly in a straight line to a point on the boundary of Zone 39 Do Et'q (Doi T'oh Territorial Park and Canol Heritage Trail Reserve) Proposed Conservation Initiative, at approximate latitude 64°30'32" North and longitude 127°51'47" West;
27. Thence generally northeasterly and then northwesterly following the boundary of Zone 39 Do Et'q (Doi T'oh Territorial Park and Canol Heritage Trail Reserve) Proposed Conservation Initiative, to a point at approximate latitude 64°50'08" North and longitude 127°23'57" West;

28. Thence southwesterly in a straight line to a point at latitude $64^{\circ}49'50''$ North and longitude $127^{\circ}24'36''$ West;
29. Thence southwesterly in a straight line to a point at latitude $64^{\circ}48'37''$ North and longitude $127^{\circ}25'53''$ West;
30. Thence southwesterly in a straight line to a point at latitude $64^{\circ}48'03''$ North and longitude $127^{\circ}28'13''$ West;
31. Thence southwesterly in a straight line to a point at latitude $64^{\circ}47'12''$ North and longitude $127^{\circ}32'50''$ West;
32. Thence southwesterly in a straight line to a point at latitude $64^{\circ}46'23''$ North and longitude $127^{\circ}34'50''$ West;
33. Thence southwesterly in a straight line to a point at latitude $64^{\circ}45'59''$ North and longitude $127^{\circ}35'08''$ West;
34. Thence southwesterly in a straight line to a point at latitude $64^{\circ}45'36''$ North and longitude $127^{\circ}34'59''$ West;
35. Thence southeasterly in a straight line to a point at latitude $64^{\circ}44'29''$ North and longitude $127^{\circ}33'36''$ West;
36. Thence southeasterly in a straight line to a point at latitude $64^{\circ}44'10''$ North and longitude $127^{\circ}32'55''$ West;
37. Thence southeasterly in a straight line to a point at latitude $64^{\circ}43'48''$ North and longitude $127^{\circ}32'49''$ West;
38. Thence southwesterly in a straight line to a point at latitude $64^{\circ}43'16''$ North and longitude $127^{\circ}33'13''$ West;
39. Thence southwesterly in a straight line to a point at latitude $64^{\circ}42'38''$ North and longitude $127^{\circ}34'35''$ West;
40. Thence southwesterly in a straight line to a point at latitude $64^{\circ}42'14''$ North and longitude $127^{\circ}35'59''$ West;
41. Thence westerly in a straight line to a point at latitude $64^{\circ}41'58''$ North and longitude $127^{\circ}38'02''$ West;
42. Thence westerly in a straight line to a point at latitude $64^{\circ}41'48''$ North and longitude $127^{\circ}41'52''$ West;
43. Thence westerly in a straight line to a point at latitude $64^{\circ}42'34''$ North and longitude $127^{\circ}50'36''$ West;
44. Thence westerly in a straight line to a point at latitude $64^{\circ}43'31''$ North and longitude $127^{\circ}56'16''$ West;

45. Thence westerly in a straight line to a point at latitude $64^{\circ}43'41''$ North and longitude $127^{\circ}58'43''$ West;
46. Thence northwesterly in a straight line to the point of commencement.

Part 40B

1. Commencing at a point at latitude $64^{\circ}27'45''$ North and longitude $127^{\circ}30'36''$ West;
2. Thence northeasterly in a straight line to a point at latitude $64^{\circ}28'15''$ North and longitude $127^{\circ}29'51''$ West;
3. Thence northeasterly in a straight line to a point at latitude $64^{\circ}28'51''$ North and longitude $127^{\circ}29'32''$ West;
4. Thence northeasterly in a straight line to a point at latitude $64^{\circ}29'12''$ North and longitude $127^{\circ}28'32''$ West;
5. Thence northeasterly in a straight line to a point at latitude $64^{\circ}30'06''$ North and longitude $127^{\circ}27'19''$ West;
6. Thence northerly in a straight line to a point at latitude $64^{\circ}30'29''$ North and longitude $127^{\circ}27'20''$ West;
7. Thence northeasterly in a straight line to a point at latitude $64^{\circ}30'40''$ North and longitude $127^{\circ}26'58''$ West;
8. Thence northwesterly in a straight line to a point at latitude $64^{\circ}30'53''$ North and longitude $127^{\circ}27'04''$ West;
9. Thence northeasterly in a straight line to a point at latitude $64^{\circ}31'10''$ North and longitude $127^{\circ}26'43''$ West;
10. Thence northerly in a straight line to a point at latitude $64^{\circ}31'24''$ North and longitude $127^{\circ}26'43''$ West;
11. Thence northwesterly in a straight line to a point at latitude $64^{\circ}31'43''$ North and longitude $127^{\circ}27'02''$ West;
12. Thence northeasterly in a straight line to a point at latitude $64^{\circ}31'57''$ North and longitude $127^{\circ}26'49''$ West;
13. Thence northeasterly in a straight line to a point at latitude $64^{\circ}32'07''$ North and longitude $127^{\circ}25'56''$ West;
14. Thence northeasterly in a straight line to a point at latitude $64^{\circ}32'18''$ North and longitude $127^{\circ}25'20''$ West;

15. Thence northwesterly in a straight line to a point at latitude $64^{\circ}32'32''$ North and longitude $127^{\circ}25'30''$ West;
16. Thence northeasterly in a straight line to a point at latitude $64^{\circ}32'54''$ North and longitude $127^{\circ}25'00''$ West;
17. Thence northeasterly in a straight line to a point at latitude $64^{\circ}33'24''$ North and longitude $127^{\circ}23'46''$ West;
18. Thence northeasterly in a straight line to a point at latitude $64^{\circ}33'43''$ North and longitude $127^{\circ}23'26''$ West;
19. Thence northwesterly in a straight line to a point at latitude $64^{\circ}34'17''$ North and longitude $127^{\circ}24'09''$ West;
20. Thence easterly in a straight line to a point at latitude $64^{\circ}34'25''$ North and longitude $127^{\circ}22'38''$ West;
21. Thence northeasterly in a straight line to a point at latitude $64^{\circ}34'35''$ North and longitude $127^{\circ}22'21''$ West;
22. Thence northwesterly in a straight line to a point at latitude $64^{\circ}34'42''$ North and longitude $127^{\circ}22'34''$ West;
23. Thence northeasterly in a straight line to a point at latitude $64^{\circ}35'11''$ North and longitude $127^{\circ}19'57''$ West;
24. Thence northeasterly in a straight line to a point at latitude $64^{\circ}35'22''$ North and longitude $127^{\circ}19'46''$ West;
25. Thence northerly in a straight line to a point at latitude $64^{\circ}35'56''$ North and longitude $127^{\circ}19'50''$ West;
26. Thence southeasterly in a straight line to a point at latitude $64^{\circ}35'47''$ North and longitude $127^{\circ}19'14''$ West;
27. Thence northeasterly in a straight line to a point at latitude $64^{\circ}36'15''$ North and longitude $127^{\circ}19'00''$ West;
28. Thence northwesterly in a straight line to a point at latitude $64^{\circ}36'30''$ North and longitude $127^{\circ}19'13''$ West;
29. Thence easterly in a straight line to a point at latitude $64^{\circ}36'35''$ North and longitude $127^{\circ}17'52''$ West;
30. Thence northeasterly in a straight line to a point at latitude $64^{\circ}36'47''$ North and longitude $127^{\circ}17'37''$ West;
31. Thence northerly in a straight line to a point at latitude $64^{\circ}37'13''$ North and longitude $127^{\circ}17'41''$ West;

32. Thence northeasterly in a straight line to a point at latitude 64°37'25" North and longitude 127°17'01" West;
33. Thence southeasterly in a straight line to a point at latitude 64°37'10" North and longitude 127°16'23" West;
34. Thence northeasterly in a straight line to a point at latitude 64°37'24" North and longitude 127°15'35" West;
35. Thence northeasterly in a straight line to a point at latitude 64°37'57" North and longitude 127°14'52" West;
36. Thence easterly in a straight line to a point on the boundary of Sahtu Settlement Lands Parcel 128, according to Plan 83762 CLSR NT in the Cadastral Information in the Northwest Territories shapefile, produced by the Surveyor General Branch of Natural Resources Canada (2017) at a scale of 1:50,000, at approximate latitude 64°38'00" North and longitude 127°14'07" West;
37. Thence generally easterly and then northerly following the boundary of Sahtu Settlement Lands Parcel 128, according to Plan 83762 CLSR NT in the Cadastral Information in the Northwest Territories shapefile, produced by the Surveyor General Branch of Natural Resources Canada (2017) at a scale of 1:50,000, to a point intersecting with the boundary of Zone 43 Carcajou River Special Management Zone, at approximate latitude 64°41'22" North and longitude 127°06'07" West;
38. Thence generally easterly and then northwesterly following the boundary of Zone 43 Carcajou River Special Management Zone, as defined by the 1 km buffer applied to the ordinary high water mark of the Carcajou River according to the hydrology layers from Natural Resources Canada's CanVec dataset (2017), to a point at approximate latitude 64°47'30" North and longitude 126°54'23" West;
39. Thence northeasterly in a straight line to a point at latitude 64°48'03" North and longitude 126°52'57" West;
40. Thence northeasterly in a straight line to a point at latitude 64°49'38" North and longitude 126°49'57" West;
41. Thence northwesterly in a straight line to a point at latitude 64°50'41" North and longitude 126°50'29" West;
42. Thence northwesterly in a straight line to a point at latitude 64°51'35" North and longitude 126°51'54" West;
43. Thence northwesterly in a straight line to a point at latitude 64°52'32" North and longitude 126°52'51" West;
44. Thence northwesterly in a straight line to a point at latitude 64°52'48" North and longitude 126°53'29" West;
45. Thence northwesterly in a straight line to a point at latitude 64°53'49" North and longitude 126°54'50" West;

46. Thence northwesterly in a straight line to a point at latitude 64°54'13" North and longitude 126°56'42" West;
47. Thence northwesterly in a straight line to a point at latitude 64°54'30" North and longitude 126°57'34" West;
48. Thence southwesterly in a straight line to a point at latitude 64°54'03" North and longitude 126°59'45" West;
49. Thence southerly in a straight line to a point at latitude 64°52'31" North and longitude 126°59'47" West;
50. Thence southwesterly in a straight line to a point at the ordinary high water mark of the southern bank of the Carcajou River, using the hydrology layers from Natural Resources Canada's CanVec dataset (2017), at approximate latitude 64°52'09" North and longitude 126°59'57" West;
51. Thence generally northwesterly following the boundary of Zone 43 Carcajou River Special Management Zone along the southern bank of the Carcajou River, using the hydrology layers from Natural Resources Canada's CanVec dataset (2017), to a point intersecting with the boundary of Zone 39 Do Et'q (Doi T'oh Territorial Park and Canol Heritage Trail Reserve) Proposed Conservation Initiative at approximate latitude 64°54'18" North and longitude 127°06'21" West;
52. Thence generally southerly and then easterly following the boundary of Zone 39 Et'q (Doi T'oh Territorial Park and Canol Heritage Trail Reserve) Proposed Conservation Initiative to a point at approximate latitude 64°29'53" North and longitude 127°49'16" West;
53. Thence easterly in a straight line to a point at latitude 64°29'45" North and longitude 127°48'24" West;
54. Thence northeasterly in a straight line to a point at latitude 64°29'55" North and longitude 127°48'02" West;
55. Thence easterly in a straight line to a point at latitude 64°29'54" North and longitude 127°46'54" West;
56. Thence southeasterly in a straight line to a point at latitude 64°29'44" North and longitude 127°46'30" West;
57. Thence easterly in a straight line to a point at latitude 64°29'48" North and longitude 127°45'39" West;
58. Thence southeasterly in a straight line to a point at latitude 64°29'39" North and longitude 127°44'58" West;
59. Thence southeasterly in a straight line to a point at latitude 64°29'28" North and longitude 127°44'50" West;
60. Thence southeasterly in a straight line to a point at latitude 64°29'07" North and longitude 127°44'11" West;

61. Thence southeasterly in a straight line to a point at latitude $64^{\circ}29'00''$ North and longitude $127^{\circ}43'40''$ West;
62. Thence easterly in a straight line to a point at latitude $64^{\circ}29'01''$ North and longitude $127^{\circ}42'48''$ West;
63. Thence northeasterly in a straight line to a point at latitude $64^{\circ}29'10''$ North and longitude $127^{\circ}42'28''$ West;
64. Thence southeasterly in a straight line to a point at latitude $64^{\circ}28'56''$ North and longitude $127^{\circ}41'49''$ West;
65. Thence easterly in a straight line to a point at latitude $64^{\circ}28'44''$ North and longitude $127^{\circ}40'26''$ West;
66. Thence southeasterly in a straight line to a point at latitude $64^{\circ}28'26''$ North and longitude $127^{\circ}39'59''$ West;
67. Thence southeasterly in a straight line to a point at latitude $64^{\circ}28'01''$ North and longitude $127^{\circ}38'04''$ North
68. Thence easterly in a straight line to a point at latitude $64^{\circ}27'59''$ North and longitude $127^{\circ}37'45''$ West;
69. Thence northeasterly in a straight line to a point at latitude $64^{\circ}28'10''$ North and longitude $127^{\circ}36'51''$ West;
70. Thence southeasterly in a straight line to a point at latitude $64^{\circ}27'53''$ North and longitude $127^{\circ}36'05''$ West;
71. Thence easterly in a straight line to a point at latitude $64^{\circ}27'50''$ North and longitude $127^{\circ}35'04''$ West;
72. Thence southeasterly in a straight line to a point at latitude $64^{\circ}27'44''$ North and longitude $127^{\circ}34'45''$ West;
73. Thence northeasterly in a straight line to a point at latitude $64^{\circ}27'49''$ North and longitude $127^{\circ}33'26''$ West;
74. Thence southeasterly in a straight line to a point at latitude $64^{\circ}27'41''$ North and longitude $127^{\circ}33'01''$ West;
75. Thence southeasterly in a straight line to a point at latitude $64^{\circ}27'32''$ North and longitude $127^{\circ}31'59''$ West;
76. Thence easterly in a straight line to the point of commencement.

Part 40C

1. Commencing at a point on the boundary of Zone 39 Do Et'q (Doi T'oh Territorial Park and Canol Heritage Trail Reserve) Proposed Conservation Area, at approximate latitude 64°20'19" North and longitude 128°04'45" West;
2. Thence generally westerly and then southeasterly, following the boundary of Zone 39 Do Et'q (Doi T'oh Territorial Park and Canol Heritage Trail Reserve) Proposed Conservation Initiative as defined by the buffer for the Canol Trail, to a point intersecting with the boundary of Sahtu Settlement Lands Parcel 115 according to Plan 90372-1 CLSR NT in the Cadastral Information in the Northwest Territories shapefile, produced by the Surveyor General Branch of Natural Resources Canada (2017) at a scale of 1:50,000, at approximate latitude 64°16'34" North and longitude 128°15'07" West;
3. Thence generally easterly and then southerly along the boundary of Sahtu Settlement Lands Parcel 115, according to Plan 90372-1 CLSR NT in the Cadastral Information in the Northwest Territories shapefile, produced by the Surveyor General Branch of Natural Resources Canada (2017) at a scale of 1:50,000, to a point intersecting with the north bank of the Keele River at approximate latitude 64°10'34" North and longitude 128°11'03" West;
4. Thence southwesterly in a straight line across the Keele River to a point intersecting with the boundary of Sahtu Settlement Lands Parcel 116 according to Plan 90372-1 CLSR NT in the Cadastral Information in the Northwest Territories shapefile, produced by the Surveyor General Branch of Natural Resources Canada (2017) at a scale of 1:50,000, at approximate latitude 64°10'24" North and longitude 128°11'07" West;
5. Thence southerly and then easterly following the boundary of Sahtu Settlement Lands Parcel 116, according to Plan 90372-1 CLSR NT in the Cadastral Information in the Northwest Territories shapefile, produced by the Surveyor General Branch of Natural Resources Canada (2017) at a scale of 1:50,000, to a point at approximate latitude 64°07'00" North and longitude 128°02'07" West;
6. Thence easterly in a straight line to a point at latitude 64°07'20" North and longitude 127°56'29" West;
7. Thence southeasterly in a straight line to a point at latitude 64°07'01" North and longitude 127°53'47" West;
8. Thence easterly in a straight line to a point at latitude 64°07'08" North and longitude 127°51'23" West;
9. Thence northeasterly in a straight line to a point at latitude 64°08'03" North and longitude 127°46'12" West;
10. Thence easterly in a straight line to a point at latitude 64°07'58" North and longitude 127°44'37" West;
11. Thence easterly in a straight line to a point at latitude 64°08'05" North and longitude 127°43'13" West;
12. Thence northeasterly in a straight line to a point at latitude 64°08'32" North and longitude 127°42'19" West;

13. Thence easterly in a straight line to a point at latitude $64^{\circ}08'34''$ North and longitude $127^{\circ}39'46''$ West;
14. Thence easterly in a straight line to a point at latitude $64^{\circ}08'44''$ North and longitude $127^{\circ}38'31''$ West;
15. Thence easterly in a straight line to a point at latitude $64^{\circ}08'32''$ North and longitude $127^{\circ}35'26''$ West;
16. Thence easterly in a straight line to a point at latitude $64^{\circ}09'10''$ North and longitude $127^{\circ}30'11''$ West;
17. Thence southeasterly in a straight line to a point at latitude $64^{\circ}08'46''$ North and longitude $127^{\circ}29'24''$ West;
18. Thence southeasterly in a straight line to a point at latitude $64^{\circ}08'17''$ North and longitude $127^{\circ}29'11''$ West;
19. Thence southeasterly in a straight line to a point at latitude $64^{\circ}07'34''$ North and longitude $127^{\circ}27'54''$ West;
20. Thence southeasterly in a straight line to a point at latitude $64^{\circ}07'09''$ North and longitude $127^{\circ}26'11''$ West;
21. Thence northeasterly in a straight line to a point at latitude $64^{\circ}07'36''$ North and longitude $127^{\circ}24'00''$ West;
22. Thence easterly in a straight line to a point at latitude $64^{\circ}07'59''$ North and longitude $127^{\circ}14'55''$ West;
23. Thence easterly in a straight line to a point at latitude $64^{\circ}08'31''$ North and longitude $127^{\circ}09'07''$ West;
24. Thence northeasterly in a straight line to a point at latitude $64^{\circ}09'01''$ North and longitude $127^{\circ}08'22''$ West;
25. Thence southeasterly in a straight line to a point at latitude $64^{\circ}08'07''$ North and longitude $127^{\circ}07'11''$ West;
26. Thence southeasterly in a straight line to a point at latitude $64^{\circ}07'22''$ North and longitude $127^{\circ}04'01''$ West;
27. Thence southeasterly in a straight line to a point at latitude $64^{\circ}05'58''$ North and longitude $127^{\circ}02'48''$ West;
28. Thence easterly in a straight line to a point at latitude $64^{\circ}05'53''$ North and longitude $127^{\circ}02'07''$ West;
29. Thence northeasterly in a straight line to a point at latitude $64^{\circ}06'25''$ North and longitude $126^{\circ}59'53''$ West

30. Thence easterly in a straight line to a point at latitude $64^{\circ}06'21''$ North and longitude $126^{\circ}58'14''$ West;
31. Thence easterly in a straight line to a point at latitude $64^{\circ}06'02''$ North and longitude $126^{\circ}55'57''$ West;
32. Thence easterly in a straight line to a point at latitude $64^{\circ}06'05''$ North and longitude $126^{\circ}54'25''$ West;
33. Thence southeasterly in a straight line to a point at latitude $64^{\circ}05'25''$ North and longitude $126^{\circ}53'35''$ West;
34. Thence southeasterly in a straight line to a point at latitude $64^{\circ}05'12''$ North and longitude $126^{\circ}52'56''$ West;
35. Thence southeasterly in a straight line to a point at latitude $64^{\circ}04'44''$ North and longitude $126^{\circ}50'51''$ West;
36. Thence easterly in a straight line to a point at latitude $64^{\circ}04'30''$ North and longitude $126^{\circ}49'15''$ West;
37. Thence easterly in a straight line to a point at latitude $64^{\circ}04'36''$ North and longitude $126^{\circ}44'57''$ West;
38. Thence southeasterly in a straight line to a point at latitude $64^{\circ}03'57''$ North and longitude $126^{\circ}43'07''$ West;
39. Thence southeasterly in a straight line to a point at latitude $64^{\circ}03'01''$ North and longitude $126^{\circ}42'20''$ West;
40. Thence southeasterly in a straight line to a point at latitude $64^{\circ}01'59''$ North and longitude $126^{\circ}41'59''$ West;
41. Thence southeasterly in a straight line to a point at latitude $64^{\circ}01'22''$ North and longitude $126^{\circ}41'10''$ West;
42. Thence southeasterly in a straight line to a point at latitude $64^{\circ}01'11''$ North and longitude $126^{\circ}40'25''$ West;
43. Thence southeasterly in a straight line to a point at latitude $64^{\circ}00'10''$ North and longitude $126^{\circ}39'09''$ West;
44. Thence southeasterly in a straight line to a point at latitude $63^{\circ}59'17''$ North and longitude $126^{\circ}38'37''$ West;
45. Thence southerly in a straight line to a point at latitude $63^{\circ}58'42''$ North and longitude $126^{\circ}38'32''$ West;
46. Thence southeasterly in a straight line to a point at latitude $63^{\circ}57'47''$ North and longitude $126^{\circ}37'07''$ West;

47. Thence southerly in a straight line to a point at latitude $63^{\circ}56'42''$ North and longitude $126^{\circ}37'06''$ West;
48. Thence southeasterly in a straight line to a point at latitude $63^{\circ}54'13''$ North and longitude $126^{\circ}35'59''$ West;
49. Thence southeasterly in a straight line to a point at latitude $63^{\circ}52'07''$ North and longitude $126^{\circ}33'34''$ West;
50. Thence southeasterly in a straight line to a point at latitude $63^{\circ}51'18''$ North and longitude $126^{\circ}32'11''$ West;
51. Thence southeasterly in a straight line to a point at latitude $63^{\circ}50'48''$ North and longitude $126^{\circ}31'41''$ West;
52. Thence southeasterly in a straight line to a point at latitude $63^{\circ}50'09''$ North and longitude $126^{\circ}30'15''$ West;
53. Thence southwesterly in a straight line to a point at latitude $63^{\circ}49'49''$ North and longitude $126^{\circ}30'26''$ West;
54. Thence southwesterly in a straight line to a point at latitude $63^{\circ}48'39''$ North and longitude $126^{\circ}32'28''$ West;
55. Thence southerly in a straight line to a point at latitude $63^{\circ}48'08''$ North and longitude $126^{\circ}32'30''$ West;
56. Thence southeasterly in a straight line to a point at latitude $63^{\circ}47'28''$ North and longitude $126^{\circ}31'25''$ West;
57. Thence southeasterly in a straight line to a point at latitude $63^{\circ}46'26''$ North and longitude $126^{\circ}30'15''$ West;
58. Thence southeasterly in a straight line to a point at latitude $63^{\circ}45'50''$ North and longitude $126^{\circ}29'19''$ West;
59. Thence southeasterly in a straight line to a point at latitude $63^{\circ}45'18''$ North and longitude $126^{\circ}29'13''$ West;
60. Thence southwesterly in a straight line to a point at latitude $63^{\circ}45'01''$ North and longitude $126^{\circ}29'46''$ West;
61. Thence westerly in a straight line to a point at latitude $63^{\circ}45'01''$ North and longitude $126^{\circ}30'56''$ West;
62. Thence westerly in a straight line to a point at latitude $63^{\circ}44'45''$ North and longitude $126^{\circ}32'44''$ West;
63. Thence southwesterly in a straight line to a point at latitude $63^{\circ}44'15''$ North and longitude $126^{\circ}33'24''$ West;

64. Thence southwesterly in a straight line to a point at latitude $63^{\circ}43'31''$ North and longitude $126^{\circ}35'39''$ West;
65. Thence southwesterly in a straight line to a point at latitude $63^{\circ}42'55''$ North and longitude $126^{\circ}36'23''$ West;
66. Thence southwesterly in a straight line to a point at latitude $63^{\circ}41'36''$ North and longitude $126^{\circ}38'48''$ West;
67. Thence southwesterly in a straight line to a point at latitude $63^{\circ}41'20''$ North and longitude $126^{\circ}40'10''$ West;
68. Thence southwesterly in a straight line to a point at latitude $63^{\circ}40'48''$ North and longitude $126^{\circ}41'27''$ West;
69. Thence northwesterly in a straight line to a point at latitude $63^{\circ}41'26''$ North and longitude $126^{\circ}44'24''$ West;
70. Thence westerly in a straight line to a point at latitude $63^{\circ}41'35''$ North and longitude $126^{\circ}49'55''$ West;
71. Thence westerly in a straight line to a point at latitude $63^{\circ}41'31''$ North and longitude $126^{\circ}53'19''$ West;
72. Thence northwesterly in a straight line to a point at latitude $63^{\circ}41'58''$ North and longitude $126^{\circ}55'19''$ West;
73. Thence westerly in a straight line to a point at latitude $63^{\circ}41'35''$ North and longitude $127^{\circ}00'25''$ West;
74. Thence southwesterly in a straight line to a point at latitude $63^{\circ}40'44''$ North and longitude $127^{\circ}03'32''$ West;
75. Thence southwesterly in a straight line to a point at latitude $63^{\circ}39'48''$ North and longitude $127^{\circ}08'10''$ West;
76. Thence westerly in a straight line to a point at latitude $63^{\circ}39'49''$ North and longitude $127^{\circ}23'05''$ West;
77. Thence westerly in a straight line to a point at latitude $63^{\circ}40'05''$ North and longitude $127^{\circ}27'54''$ West;
78. Thence westerly in a straight line to a point at latitude $63^{\circ}39'44''$ North and longitude $127^{\circ}34'58''$ West;
79. Thence northwesterly in a straight line to a point at latitude $63^{\circ}41'57''$ North and longitude $127^{\circ}37'35''$ West;
80. Thence northwesterly in a straight line to a point at latitude $63^{\circ}42'11''$ North and longitude $127^{\circ}38'39''$ West;

81. Thence westerly in a straight line to a point at latitude 63°42'06" North and longitude 127°43'39" West;
82. Thence westerly in a straight line to a point at latitude 63°42'16" North and longitude 127°46'15" West;
83. Thence northwesterly in a straight line to a point on the boundary of Sahtu Settlement Lands Parcel 124, according to Plan 88667-1 CLSR NT in the Cadastral Information in the Northwest Territories shapefile, produced by the Surveyor General Branch of Natural Resources Canada (2017) at a scale of 1:50,000, at approximate latitude 63°42'46" North and longitude 127°47'07" West;
84. Thence northerly following the boundary of Sahtu Settlement Lands Parcel 124, according to Plan 88667-1 CLSR NT in the Cadastral Information in the Northwest Territories shapefile, produced by the Surveyor General Branch of Natural Resources Canada (2017) at a scale of 1:50,000, to a point at approximate latitude 63°44'08" North and longitude 127°47'07" West;
85. Thence northeasterly in a straight line to a point at latitude 63°45'16" North and longitude 127°44'08" West;
86. Thence northeasterly in a straight line to a point on the boundary of Sahtu Settlement Lands Parcel 126, according to Plan 88667-1 CLSR NT in the Cadastral Information in the Northwest Territories shapefile, produced by the Surveyor General Branch of Natural Resources Canada (2017) at a scale of 1:50,000, to a point at approximate latitude 63°51'00" North and longitude 127°42'43" West;
87. Thence generally northerly and then westerly following the boundary of Sahtu Settlement Lands Parcel 126 according to Plan 88667-1 CLSR NT in the Cadastral Information in the Northwest Territories shapefile, produced by the Surveyor General Branch of Natural Resources Canada (2017) at a scale of 1:50,000, to a point intersecting with the eastern bank of the Keele River, at approximate latitude 63°54'18" North and longitude 127°54'08" West;
88. Thence westerly in a straight line to a point intersecting with the western bank of the Keele River and the boundary of Sahtu Settlement Lands Parcel 125, according to Plan 88667-1 CLSR NT in the Cadastral Information in the Northwest Territories shapefile, produced by the Surveyor General Branch of Natural Resources Canada (2017) at a scale of 1:50,000, at approximate latitude 63°54'18" North and longitude 127°54'22" West;
89. Thence generally northwesterly following the boundary of Sahtu Settlement Lands Parcel 125, according to Plan 88667-1 CLSR NT in the Cadastral Information in the Northwest Territories shapefile, produced by the Surveyor General Branch of Natural Resources Canada (2017) at a scale of 1:50,000, to a point at approximate latitude 63°58'33" North and longitude 128°00'07" West;
90. Thence southerly in a straight line to a point at latitude 63°51'44" North and longitude 128°00'21" West;
91. Thence southerly in a straight line to a point at latitude 63°47'20" North and longitude 128°00'54" West;
92. Thence southwesterly in a straight line to a point at latitude 63°45'33" North and longitude 128°01'37" West;

93. Thence southeasterly in a straight line to a point at latitude $63^{\circ}45'18''$ North and longitude $128^{\circ}01'18''$ West;
94. Thence southerly in a straight line to a point at latitude $63^{\circ}44'13''$ North and longitude $128^{\circ}01'19''$ West;
95. Thence southwesterly in a straight line to a point at latitude $63^{\circ}43'05''$ North and longitude $128^{\circ}01'52''$ West;
96. Thence southwesterly in a straight line to a point at latitude $63^{\circ}41'59''$ North and longitude $128^{\circ}02'11''$ West;
97. Thence southerly in a straight line to a point at latitude $63^{\circ}40'58''$ North and longitude $128^{\circ}02'14''$ West;
98. Thence southwesterly in a straight line to a point at latitude $63^{\circ}40'29''$ North and longitude $128^{\circ}02'36''$ West;
99. Thence southwesterly in a straight line to a point at latitude $63^{\circ}38'59''$ North and longitude $128^{\circ}06'45''$ West;
100. Thence westerly in a straight line to a point at latitude $63^{\circ}39'07''$ North and longitude $128^{\circ}09'17''$ West;
101. Thence southwesterly in a straight line to a point at latitude $63^{\circ}38'42''$ North and longitude $128^{\circ}11'16''$ West;
102. Thence southwesterly in a straight line to a point at latitude $63^{\circ}37'48''$ North and longitude $128^{\circ}13'49''$ West;
103. Thence westerly in a straight line to a point at latitude $63^{\circ}37'20''$ North and longitude $128^{\circ}21'18''$ West;
104. Thence westerly in a straight line to a point at latitude $63^{\circ}37'07''$ North and longitude $128^{\circ}22'45''$ West;
105. Thence southwesterly in a straight line to a point at latitude $63^{\circ}36'33''$ North and longitude $128^{\circ}25'04''$ West;
106. Thence westerly in a straight line to a point at latitude $63^{\circ}36'23''$ North and longitude $128^{\circ}26'52''$ West;
107. Thence westerly in a straight line to a point at latitude $63^{\circ}36'32''$ North and longitude $128^{\circ}30'28''$ West;
108. Thence southwesterly in a straight line to a point at latitude $63^{\circ}35'53''$ North and longitude $128^{\circ}33'32''$ West;
109. Thence westerly in a straight line to a point at latitude $63^{\circ}36'10''$ North and longitude $128^{\circ}36'34''$ West;

110. Thence southwesterly in a straight line to a point at latitude 63°35'00" North and longitude 128°37'27" West;
111. Thence southwesterly in a straight line to a point on the boundary of Sahtu Settlement Lands Parcel 122, according to Plan 88663 CLSR NT in the Cadastral Information in the Northwest Territories shapefile, produced by the Surveyor General Branch of Natural Resources Canada (2017) at a scale of 1:50,000, at approximate latitude 63°34'10" North and longitude 128°39'13" West;
112. Thence generally westerly, then southeasterly and easterly following the boundary of Sahtu Settlement Lands Parcel 122 according to Plan 88663 CLSR NT in the Cadastral Information in the Northwest Territories shapefile, produced by the Surveyor General Branch of Natural Resources Canada (2017) at a scale of 1:50,000, to a point at approximate latitude 63°29'03" North and longitude 128°38'41" West;
113. Thence northeasterly in a straight line to a point at latitude 63°29'11" North and longitude 128°38'08" West;
114. Thence northeasterly in a straight line to a point at latitude 63°29'47" North and longitude 128°37'54" West;
115. Thence easterly in a straight line to a point at latitude 63°29'55" North and longitude 128°36'55" West;
116. Thence easterly in a straight line to a point at latitude 63°29'50" North and longitude 128°34'57" West;
117. Thence southeasterly in a straight line to a point at latitude 63°29'21" North and longitude 128°33'01" West;
118. Thence easterly in a straight line to a point at latitude 63°29'26" North and longitude 128°31'18" West;
119. Thence northeasterly in a straight line to a point at latitude 63°29'54" North and longitude 128°30'33" West;
120. Thence southeasterly in a straight line to a point at latitude 63°29'40" North and longitude 128°29'22" West;
121. Thence northeasterly in a straight line to a point at latitude 63°31'51" North and longitude 128°26'16" West;
122. Thence northeasterly in a straight line to a point at latitude 63°32'49" North and longitude 128°22'03" West;
123. Thence easterly in a straight line to a point at latitude 63°32'32" North and longitude 128°17'22" West;
124. Thence southeasterly in a straight line to a point at latitude 63°31'34" North and longitude 128°12'32" West;

125. Thence easterly in a straight line to a point at latitude 63°31'20" North and longitude 128°10'28" West;
126. Thence easterly in a straight line to a point at latitude 63°31'17" North and longitude 128°08'19" West;
127. Thence easterly in a straight line to a point at latitude 63°31'32" North and longitude 128°05'36" West;
128. Thence easterly in a straight line to a point at latitude 63°31'24" North and longitude 128°04'50" West;
129. Thence southeasterly in a straight line to a point at latitude 63°30'38" North and longitude 128°03'29" West;
130. Thence southeasterly in a straight line to a point at latitude 63°30'05" North and longitude 128°01'39" West;
131. Thence easterly in a straight line to a point on the boundary of Sahtu Settlement Lands Parcel 124, according to Plan 88667-1 CLSR NT in the Cadastral Information in the Northwest Territories shapefile, produced by the Surveyor General Branch of Natural Resources Canada (2017) at a scale of 1:50,000, at approximate latitude 63°30'00" North and longitude 128°00'57" West;
132. Thence southerly and generally easterly following the boundary of Sahtu Settlement Lands Parcel 124, according to Plan 88667-1 CLSR NT in the Cadastral Information in the Northwest Territories shapefile, produced by the Surveyor General Branch of Natural Resources Canada (2017) at a scale of 1:50,000, to a point at approximate latitude 63°27'44" North and longitude 127°56'09" West;
133. Thence easterly in a straight line to a point at latitude 63°27'42" North and longitude 127°55'47" West;
134. Thence easterly in a straight line to a point at latitude 63°27'57" North and longitude 127°51'54" West;
135. Thence northeasterly in a straight line to a point at latitude 63°29'05" North and longitude 127°46'35" West;
136. Thence northeasterly in a straight line to a point at latitude 63°30'58" North and longitude 127°41'37" West;
137. Thence northeasterly in a straight line to a point at latitude 63°33'23" North and longitude 127°37'33" West;
138. Thence northeasterly in a straight line to a point at latitude 63°33'56" North and longitude 127°35'18" West;
139. Thence easterly in a straight line to a point at latitude 63°33'56" North and longitude 127°32'43" West;

140. Thence southeasterly in a straight line to a point at latitude $63^{\circ}33'04''$ North and longitude $127^{\circ}29'35''$ West;
141. Thence southeasterly in a straight line to a point at latitude $63^{\circ}32'09''$ North and longitude $127^{\circ}27'41''$ West;
142. Thence easterly in a straight line to a point at latitude $63^{\circ}32'01''$ North and longitude $127^{\circ}21'05''$ West;
143. Thence easterly in a straight line to a point at latitude $63^{\circ}32'14''$ North and longitude $127^{\circ}16'38''$ West;
144. Thence easterly in a straight line to a point at latitude $63^{\circ}33'13''$ North and longitude $127^{\circ}09'59''$ West;
145. Thence southeasterly in a straight line to a point at latitude $63^{\circ}32'44''$ North and longitude $127^{\circ}09'26''$ West;
146. Thence southeasterly in a straight line to a point at latitude $63^{\circ}32'16''$ North and longitude $127^{\circ}07'47''$ West;
147. Thence easterly in a straight line to a point at latitude $63^{\circ}32'31''$ North and longitude $127^{\circ}06'21''$ West;
148. Thence easterly in a straight line to a point at latitude $63^{\circ}32'28''$ North and longitude $127^{\circ}05'28''$ West;
149. Thence easterly in a straight line to a point at latitude $63^{\circ}32'38''$ North and longitude $127^{\circ}02'15''$ West;
150. Thence southeasterly in a straight line to a point at latitude $63^{\circ}32'24''$ North and longitude $127^{\circ}01'08''$ West;
151. Thence southeasterly in a straight line to a point at latitude $63^{\circ}31'47''$ North and longitude $127^{\circ}00'09''$ West;
152. Thence easterly in a straight line to a point at latitude $63^{\circ}31'54''$ North and longitude $126^{\circ}57'09''$ West;
153. Thence northeasterly in a straight line to a point at latitude $63^{\circ}32'40''$ North and longitude $126^{\circ}55'36''$ West;
154. Thence easterly in a straight line to a point at latitude $63^{\circ}32'49''$ North and longitude $126^{\circ}53'56''$ West;
155. Thence southeasterly in a straight line to a point at latitude $63^{\circ}32'02''$ North and longitude $126^{\circ}49'47''$ West;
156. Thence easterly in a straight line to a point at latitude $63^{\circ}31'30''$ North and longitude $126^{\circ}44'51''$ West;

157. Thence southeasterly in a straight line to a point at latitude $63^{\circ}30'24''$ North and longitude $126^{\circ}41'52''$ West;
158. Thence southeasterly in a straight line to a point at latitude $63^{\circ}30'15''$ North and longitude $126^{\circ}40'41''$ West;
159. Thence easterly in a straight line to a point at latitude $63^{\circ}31'09''$ North and longitude $126^{\circ}35'12''$ West;
160. Thence easterly in a straight line to a point at latitude $63^{\circ}31'32''$ North and longitude $126^{\circ}24'31''$ West;
161. Thence northeasterly in a straight line to a point at latitude $63^{\circ}32'45''$ North and longitude $126^{\circ}20'53''$ West;
162. Thence northeasterly in a straight line to a point at latitude $63^{\circ}33'57''$ North and longitude $126^{\circ}20'35''$ West;
163. Thence easterly in a straight line to a point at latitude $63^{\circ}34'32''$ North and longitude $126^{\circ}17'09''$ West;
164. Thence northeasterly in a straight line to a point at latitude $63^{\circ}35'51''$ North and longitude $126^{\circ}15'05''$ West;
165. Thence northeasterly in a straight line to a point at latitude $63^{\circ}36'01''$ North and longitude $126^{\circ}14'16''$ West;
166. Thence easterly in a straight line to a point at latitude $63^{\circ}35'58''$ North and longitude $126^{\circ}08'58''$ West;
167. Thence southeasterly in a straight line to a point at latitude $63^{\circ}35'32''$ North and longitude $126^{\circ}07'34''$ West;
168. Thence southeasterly in a straight line to a point at latitude $63^{\circ}34'42''$ North and longitude $126^{\circ}07'12''$ West;
169. Thence southeasterly in a straight line to a point at latitude $63^{\circ}32'53''$ North and longitude $126^{\circ}04'30''$ West;
170. Thence southeasterly in a straight line to a point at latitude $63^{\circ}29'08''$ North and longitude $126^{\circ}00'37''$ West;
171. Thence southwesterly in a straight line to a point at latitude $63^{\circ}27'18''$ North and longitude $126^{\circ}01'54''$ West;
172. Thence westerly in a straight line to a point at latitude $63^{\circ}27'02''$ North and longitude $126^{\circ}04'39''$ West;
173. Thence southwesterly in a straight line to a point at latitude $63^{\circ}25'17''$ North and longitude $126^{\circ}12'00''$ West;

174. Thence southwesterly in a straight line to a point at latitude $63^{\circ}22'38''$ North and longitude $126^{\circ}16'56''$ West;
175. Thence southwesterly in a straight line to a point at latitude $63^{\circ}22'01''$ North and longitude $126^{\circ}19'35''$ West;
176. Thence southwesterly in a straight line to a point at latitude $63^{\circ}20'57''$ North and longitude $126^{\circ}23'11''$ West;
177. Thence southwesterly in a straight line to a point at latitude $63^{\circ}18'39''$ North and longitude $126^{\circ}26'52''$ West;
178. Thence southwesterly in a straight line to a point at latitude $63^{\circ}17'42''$ North and longitude $126^{\circ}27'39''$ West;
179. Thence southwesterly in a straight line to a point at latitude $63^{\circ}15'48''$ North and longitude $126^{\circ}28'07''$ West;
180. Thence southeasterly in a straight line to a point at latitude $63^{\circ}14'23''$ North and longitude $126^{\circ}27'34''$ West;
181. Thence southerly in a straight line to a point at latitude $63^{\circ}11'40''$ North and longitude $126^{\circ}27'46''$ West;
182. Thence southwesterly in a straight line to a point at latitude $63^{\circ}09'39''$ North and longitude $126^{\circ}28'36''$ West;
183. Thence southerly in a straight line to a point at latitude $63^{\circ}07'20''$ North and longitude $126^{\circ}28'34''$ West;
184. Thence southeasterly in a straight line to a point at latitude $63^{\circ}06'18''$ North and longitude $126^{\circ}27'24''$ West;
185. Thence southeasterly in a straight line to a point at latitude $63^{\circ}05'37''$ North and longitude $126^{\circ}25'28''$ West;
186. Thence easterly in a straight line to a point at latitude $63^{\circ}05'22''$ North and longitude $126^{\circ}22'55''$ West;
187. Thence easterly in a straight line to a point at latitude $63^{\circ}05'35''$ North and longitude $126^{\circ}20'38''$ West;
188. Thence northeasterly in a straight line to a point at latitude $63^{\circ}06'20''$ North and longitude $126^{\circ}18'27''$ West;
189. Thence northeasterly in a straight line to a point at latitude $63^{\circ}07'24''$ North and longitude $126^{\circ}17'18''$ West;
190. Thence northeasterly in a straight line to a point at latitude $63^{\circ}09'17''$ North and longitude $126^{\circ}16'49''$ West;

191. Thence northeasterly in a straight line to a point at latitude $63^{\circ}10'12''$ North and longitude $126^{\circ}15'54''$ West;
192. Thence northeasterly in a straight line to a point at latitude $63^{\circ}11'31''$ North and longitude $126^{\circ}15'36''$ West;
193. Thence northwesterly in a straight line to a point at latitude $63^{\circ}12'32''$ North and longitude $126^{\circ}16'09''$ West;
194. Thence northeasterly in a straight line to a point at latitude $63^{\circ}14'48''$ North and longitude $126^{\circ}15'42''$ West;
195. Thence northwesterly in a straight line to a point at latitude $63^{\circ}15'57''$ North and longitude $126^{\circ}16'12''$ West;
196. Thence northeasterly in a straight line to a point at latitude $63^{\circ}16'58''$ North and longitude $126^{\circ}14'53''$ West;
197. Thence northeasterly in a straight line to a point at latitude $63^{\circ}18'31''$ North and longitude $126^{\circ}08'50''$ West;
198. Thence northeasterly in a straight line to a point at latitude $63^{\circ}21'13''$ North and longitude $126^{\circ}03'55''$ West;
199. Thence easterly in a straight line to a point at latitude $63^{\circ}22'26''$ North and longitude $125^{\circ}55'15''$ West;
200. Thence northeasterly in a straight line to a point at latitude $63^{\circ}23'29''$ North and longitude $125^{\circ}52'08''$ West;
201. Thence northeasterly in a straight line to a point at latitude $63^{\circ}24'32''$ North and longitude $125^{\circ}50'33''$ West;
202. Thence northeasterly in a straight line to a point at latitude $63^{\circ}26'55''$ North and longitude $125^{\circ}49'19''$ West;
203. Thence northeasterly in a straight line to a point at latitude $63^{\circ}28'06''$ North and longitude $125^{\circ}47'06''$ West;
204. Thence northeasterly in a straight line to a point at latitude $63^{\circ}30'01''$ North and longitude $125^{\circ}44'53''$ West;
205. Thence northerly in a straight line to a point at latitude $63^{\circ}32'00''$ North and longitude $125^{\circ}44'52''$ West;
206. Thence northwesterly in a straight line to a point at latitude $63^{\circ}32'55''$ North and longitude $125^{\circ}45'32''$ West;
207. Thence northwesterly in a straight line to a point at latitude $63^{\circ}33'39''$ North and longitude $125^{\circ}46'49''$ West;

208. Thence northwesterly in a straight line to a point at latitude $63^{\circ}36'18''$ North and longitude $125^{\circ}48'18''$ West;
209. Thence northwesterly in a straight line to a point at latitude $63^{\circ}36'50''$ North and longitude $125^{\circ}49'00''$ West;
210. Thence northwesterly in a straight line to a point at latitude $63^{\circ}37'11''$ North and longitude $125^{\circ}50'11''$ West;
211. Thence northwesterly in a straight line to a point at latitude $63^{\circ}39'32''$ North and longitude $125^{\circ}52'43''$ West;
212. Thence northwesterly in a straight line to a point at latitude $63^{\circ}40'09''$ North and longitude $125^{\circ}52'57''$ West;
213. Thence northwesterly in a straight line to a point at latitude $63^{\circ}40'47''$ North and longitude $125^{\circ}53'36''$ West;
214. Thence northwesterly in a straight line to a point at latitude $63^{\circ}43'46''$ North and longitude $125^{\circ}58'50''$ West;
215. Thence northwesterly in a straight line to a point at latitude $63^{\circ}45'27''$ North and longitude $126^{\circ}03'15''$ West;
216. Thence northeasterly in a straight line to a point at latitude $63^{\circ}46'25''$ North and longitude $126^{\circ}02'45''$ West;
217. Thence northeasterly in a straight line to a point at latitude $63^{\circ}48'10''$ North and longitude $126^{\circ}00'15''$ West;
218. Thence northeasterly in a straight line to a point at latitude $63^{\circ}48'53''$ North and longitude $125^{\circ}58'10''$ West;
219. Thence easterly in a straight line to a point at latitude $63^{\circ}48'57''$ North and longitude $125^{\circ}55'10''$ West;
220. Thence northeasterly in a straight line to a point at latitude $63^{\circ}50'05''$ North and longitude $125^{\circ}49'22''$ West;
221. Thence northeasterly in a straight line to a point at latitude $63^{\circ}51'12''$ North and longitude $125^{\circ}45'52''$ West;
222. Thence northeasterly in a straight line to a point at latitude $63^{\circ}51'50''$ North and longitude $125^{\circ}43'08''$ West;
223. Thence northerly in a straight line to a point at latitude $63^{\circ}52'00''$ North and longitude $125^{\circ}43'08''$ West;
224. Thence westerly in a straight line to a point at latitude $63^{\circ}52'00''$ North and longitude $125^{\circ}52'30''$ West;

225. Thence northerly in a straight line to a point at latitude 63°54'00" North and longitude 125°52'30" West;
226. Thence westerly in a straight line to a point at latitude 63°54'00" North and longitude 125°58'08" West;
227. Thence northerly in a straight line to a point at latitude 63°58'00" North and longitude 125°58'08" West;
228. Thence westerly in a straight line to a point at latitude 63°58'00" North and longitude 126°00'00" West;
229. Thence northerly in a straight line to a point at latitude 64°03'00" North and longitude 126°00'00" West;
230. Thence easterly in a straight line to a point at latitude 64°03'01" North and longitude 125°41'22" West;
231. Thence northeasterly in a straight line to a point at latitude 64°03'27" North and longitude 125°40'59" West;
232. Thence northwesterly in a straight line to a point at latitude 64°04'25" North and longitude 125°41'30" West;
233. Thence northwesterly in a straight line to a point at latitude 64°05'44" North and longitude 125°43'13" West;
234. Thence northwesterly in a straight line to a point on the boundary of Sahtu Settlement Lands Parcel 134, according to Plan 89022-1 CLSR NT in the Cadastral Information in the Northwest Territories shapefile, produced by the Surveyor General Branch of Natural Resources Canada (2017) at a scale of 1:50,000, at approximate latitude 64°06'15" North and longitude 125°44'30" West;
235. Thence generally northwesterly following the boundary of Sahtu Settlement Lands Parcel 134, according to Plan 89022-1 CLSR NT in the Cadastral Information in the Northwest Territories shapefile, produced by the Surveyor General Branch of Natural Resources Canada (2017) at a scale of 1:50,000, to a point at approximate latitude 64°19'04" North and longitude 125°58'51" West;
236. Thence westerly in a straight line to a point on the boundary of Sahtu Settlement Lands Parcel 132, according to Plan 83366 CLSR NT in the Cadastral Information in the Northwest Territories shapefile, produced by the Surveyor General Branch of Natural Resources Canada (2017) at a scale of 1:50,000, at approximate latitude 64°19'04" North and longitude 126°02'06" West;
237. Thence generally westerly following the boundary of Sahtu Settlement Lands Parcel 132, according to Plan 83366 CLSR NT in the Cadastral Information in the Northwest Territories shapefile, produced by the Surveyor General Branch of Natural Resources Canada (2017) at a scale of 1:50,000, to a point at approximate latitude 64°19'30" North and longitude 126°15'16" West;
238. Thence southwesterly in a straight line to a point at latitude 64°19'06" North and longitude 126°17'20" West;

239. Thence westerly in a straight line to a point at latitude $64^{\circ}18'51''$ North and longitude $126^{\circ}21'08''$ West;
240. Thence westerly in a straight line to a point at latitude $64^{\circ}19'13''$ North and longitude $126^{\circ}30'11''$ West;
241. Thence westerly in a straight line to a point at latitude $64^{\circ}18'22''$ North and longitude $126^{\circ}39'34''$ West;
242. Thence northwesterly in a straight line to a point at latitude $64^{\circ}18'36''$ North and longitude $126^{\circ}41'21''$ West;
243. Thence southwesterly in a straight line to a point at latitude $64^{\circ}18'20''$ North and longitude $126^{\circ}42'04''$ West;
244. Thence westerly in a straight line to a point at latitude $64^{\circ}17'43''$ North and longitude $126^{\circ}46'46''$ West;
245. Thence northwesterly in a straight line to a point at latitude $64^{\circ}18'43''$ North and longitude $126^{\circ}50'37''$ West;
246. Thence westerly in a straight line to a point at latitude $64^{\circ}18'47''$ North and longitude $126^{\circ}52'41''$ West;
247. Thence westerly in a straight line to a point at latitude $64^{\circ}18'21''$ North and longitude $126^{\circ}56'40''$ West;
248. Thence westerly in a straight line to a point at latitude $64^{\circ}18'46''$ North and longitude $127^{\circ}00'31''$ West;
249. Thence northwesterly in a straight line to a point at latitude $64^{\circ}19'25''$ North and longitude $127^{\circ}02'13''$ North;
250. Thence northerly in a straight line to a point at latitude $64^{\circ}19'52''$ North and longitude $127^{\circ}02'18''$ West;
251. Thence northwesterly in a straight line to a point at latitude $64^{\circ}20'10''$ North and longitude $127^{\circ}03'25''$ West;
252. Thence northwesterly in a straight line to a point at latitude $64^{\circ}21'02''$ North and longitude $127^{\circ}03'40''$ West;
253. Thence northwesterly in a straight line to a point at latitude $64^{\circ}21'17''$ North and longitude $127^{\circ}04'33''$ West;
254. Thence northwesterly in a straight line to a point at latitude $64^{\circ}22'51''$ North and longitude $127^{\circ}06'37''$ West;
255. Thence southwesterly in a straight line to a point at latitude $64^{\circ}22'37''$ North and longitude $127^{\circ}07'20''$ West;

256. Thence northwesterly in a straight line to a point at latitude $64^{\circ}23'03''$ North and longitude $127^{\circ}08'38''$ West;
257. Thence northwesterly in a straight line to a point at latitude $64^{\circ}23'33''$ North and longitude $127^{\circ}08'59''$ West;
258. Thence northwesterly in a straight line to a point at latitude $64^{\circ}23'52''$ North and longitude $127^{\circ}10'06''$ West;
259. Thence northwesterly in a straight line to a point at latitude $64^{\circ}24'23''$ North and longitude $127^{\circ}13'05''$ West;
260. Thence westerly in a straight line to a point at latitude $64^{\circ}24'22''$ North and longitude $127^{\circ}14'25''$ West;
261. Thence northwesterly in a straight line to a point at latitude $64^{\circ}24'44''$ North and longitude $127^{\circ}16'13''$ West;
262. Thence northwesterly in a straight line to a point at latitude $64^{\circ}25'05''$ North and longitude $127^{\circ}17'02''$ West;
263. Thence northwesterly in a straight line to a point at latitude $64^{\circ}25'36''$ North and longitude $127^{\circ}19'28''$ West;
264. Thence westerly in a straight line to a point at latitude $64^{\circ}25'40''$ North and longitude $127^{\circ}20'35''$ West;
265. Thence southwesterly in a straight line to a point at latitude $64^{\circ}24'42''$ North and longitude $127^{\circ}21'47''$ West;
266. Thence southerly in a straight line to a point at latitude $64^{\circ}24'11''$ North and longitude $127^{\circ}21'48''$ West;
267. Thence westerly in a straight line to a point at latitude $64^{\circ}24'21''$ North and longitude $127^{\circ}27'50''$ West;
268. Thence northwesterly in a straight line to a point at latitude $64^{\circ}24'39''$ North and longitude $127^{\circ}28'09''$ West;
269. Thence westerly in a straight line to a point at latitude $64^{\circ}24'30''$ North and longitude $127^{\circ}33'32''$ West;
270. Thence westerly in a straight line to a point at latitude $64^{\circ}24'39''$ North and longitude $127^{\circ}37'46''$ West;
271. Thence northwesterly in a straight line to a point at latitude $64^{\circ}25'19''$ North and longitude $127^{\circ}40'26''$ West;
272. Thence southwesterly in a straight line to a point at latitude $64^{\circ}24'51''$ North and longitude $127^{\circ}41'03''$ West;

273. Thence northwesterly in a straight line to a point at latitude $64^{\circ}25'08''$ North and longitude $127^{\circ}41'47''$ West;
274. Thence northwesterly in a straight line to a point at latitude $64^{\circ}26'30''$ North and longitude $127^{\circ}48'05''$ West;
275. Thence westerly in a straight line to a point at latitude $64^{\circ}26'20''$ North and longitude $127^{\circ}50'17''$ West;
276. Thence southwesterly in a straight line to a point at latitude $64^{\circ}26'10''$ North and longitude $127^{\circ}50'54''$ West;
277. Thence southwesterly in a straight line to a point at latitude $64^{\circ}25'11''$ North and longitude $127^{\circ}51'19''$ West;
278. Thence southwesterly in a straight line to a point at latitude $64^{\circ}24'21''$ North and longitude $127^{\circ}52'10''$ West;
279. Thence southwesterly in a straight line to a point at latitude $64^{\circ}21'28''$ North and longitude $127^{\circ}57'08''$ West;
280. Thence northwesterly in a straight line to a point at latitude $64^{\circ}21'36''$ North and longitude $127^{\circ}57'45''$ West;
281. Thence southwesterly in a straight line to a point at latitude $64^{\circ}21'27''$ North and longitude $127^{\circ}58'19''$ West;
282. Thence southwesterly in a straight line to a point at latitude $64^{\circ}21'10''$ North and longitude $127^{\circ}58'28''$ West;
283. Thence westerly in a straight line to a point at latitude $64^{\circ}21'12''$ North and longitude $127^{\circ}59'14''$ West;
284. Thence southwesterly in a straight line to a point at latitude $64^{\circ}20'49''$ North and longitude $128^{\circ}00'20''$ West;
285. Thence southwesterly in a straight line to a point at latitude $64^{\circ}20'22''$ North and longitude $128^{\circ}00'38''$ West;
286. Thence southeasterly in a straight line to a point at latitude $64^{\circ}20'05''$ North and longitude $128^{\circ}00'25''$ West;
287. Thence southwesterly in a straight line to a point at latitude $64^{\circ}19'32''$ North and longitude $128^{\circ}00'43''$ West;
288. Thence southerly in a straight line to a point at latitude $64^{\circ}19'10''$ North and longitude $128^{\circ}00'46''$ West;
289. Thence southwesterly in a straight line to a point at latitude $64^{\circ}18'58''$ North and longitude $128^{\circ}01'11''$ West;

290. Thence northwesterly in a straight line to a point at latitude $64^{\circ}19'25''$ North and longitude $128^{\circ}01'33''$ West;
291. Thence northerly in a straight line to a point at latitude $64^{\circ}20'02''$ North and longitude $128^{\circ}01'39''$ West;
292. Thence northwesterly in a straight line to a point at latitude $64^{\circ}20'21''$ North and longitude $128^{\circ}01'57''$ West;
293. Thence westerly in a straight line to a point at latitude $64^{\circ}20'26''$ North and longitude $128^{\circ}02'27''$ West;
294. Thence westerly in a straight line to a point at latitude $64^{\circ}20'27''$ North and longitude $128^{\circ}03'12''$ West;
295. Thence southwesterly in a straight line to a point at latitude $64^{\circ}20'12''$ North and longitude $128^{\circ}03'37''$ West;
296. Thence northerly in a straight line to a point at latitude $64^{\circ}20'26''$ North and longitude $128^{\circ}03'39''$ West;
297. Thence westerly in a straight line to the point of commencement.

41. Nááts'ihch'oh Proposed Conservation Initiative

Datum: NAD83

Note:

As part of the Sahtu Land Use Plan's Nááts'ihch'oh Amendment (AM2015-01), Zone 41 Nááts'ihch'oh Proposed Conservation Initiative is to become Zone 41 South Nahanni Watershed Special Management Zone. When this amendment is approved, it will modify the south-western boundary of Zone 38 Mackenzie Mountains Special Management Zone where it is shared with the boundary of Zone 41, as the new boundaries for Zone 41 South Nahanni Watershed Special Management Zone will be different. As such, no metes and bounds are described for Zone 41 until the Nááts'ihch'oh Amendment (AM2015-01) is approved by all Approving Parties, and it becomes Zone 41 South Nahanni Watershed Special Management Zone.

42. Fahᑭᑦ Njłjné (Mountain River Extension) Conservation Zone

Datum: NAD83

A **5 km conservation buffer** is applied to the ordinary high water mark of Mountain River, using the hydrology layers from Natural Resources Canada's CanVec dataset (2017). This zone is exclusively within the K'asho Got'jñę District of the Sahtu Settlement Area, with the boundary determined by the Sahtu District Boundaries dataset, digitised by the Sahtu GIS Project (2007). As such, all buffered areas that fall outside of the K'asho Got'jñę District are excluded from this conservation zone.

However, some areas of the buffer are erased as per the boundaries of the zones listed below, as they supersede the conservation buffer.

- 65. Ts'udé Njłjné Tuyeta (Ramparts River and Wetlands) Proposed Conservation Initiative.

As well, the Coral Peaks area is included in this conservation zone, as described by the International Biological Programme Sites in Subarctic Canada, ed. Dorothy K.B. Beckel, University of Lethbridge Prod Services, 1975, with the Sahtu GIS Project as the data provider. These boundaries have been generalised while preserving general shape and area, as to have described metes and bounds.

Notes on methodology

Where the 5 km conservation buffer overlaps with the Mackenzie River at the mouth of the river, the buffer boundary is modified to follow the ordinary high water mark of the Mackenzie River, using the hydrology layers from Natural Resources Canada's CanVec dataset (2017).

Metes and bounds

Metes and bounds for the "Coral Peaks" IBP area, included in this zone (in addition to the buffer as described above)

1. Commencing on the boundary for the 5 km buffer for Mountain River, at approximate latitude 64°59'57" North and longitude 129°01'04" West;
2. Thence westerly in a straight line to a point at latitude 64°59'57" North and longitude 129°01'52" West;
3. Thence northwesterly in a straight line to a point at latitude 65°00'06" North and longitude 129°02'21" West;
4. Thence westerly in a straight line to a point at latitude 65°00'10" North and longitude 129°03'32" West;
5. Thence westerly in a straight line to a point at latitude 65°00'06" North and longitude 129°04'21" West;
6. Thence northwesterly in a straight line to a point at latitude 65°00'11" North and longitude 129°04'47" West;
7. Thence southwesterly in a straight line to a point at latitude 65°00'07" North and longitude 129°05'21" West;

8. Thence northwesterly in a straight line to a point at latitude $65^{\circ}00'19''$ North and longitude $129^{\circ}06'30''$ West;
9. Thence northwesterly in a straight line to a point at latitude $65^{\circ}00'27''$ North and longitude $129^{\circ}06'56''$ West;
10. Thence westerly in a straight line to a point at latitude $65^{\circ}00'31''$ North and longitude $129^{\circ}08'01''$ West;
11. Thence northwesterly in a straight line to a point at latitude $65^{\circ}00'44''$ North and longitude $129^{\circ}08'47''$ West
12. Thence northwesterly in a straight line to a point at latitude $65^{\circ}01'01''$ North and longitude $129^{\circ}09'06''$ West;
13. Thence northeasterly in a straight line to a point at latitude $65^{\circ}01'15''$ North and longitude $129^{\circ}09'03''$ West;
14. Thence northwesterly in a straight line to a point at latitude $65^{\circ}01'29''$ North and longitude $129^{\circ}09'14''$ West;
15. Thence westerly in a straight line to a point at latitude $65^{\circ}01'42''$ North and longitude $129^{\circ}10'28''$ West;
16. Thence northwesterly in a straight line to a point at latitude $65^{\circ}01'58''$ North and longitude $129^{\circ}10'59''$ West;
17. Thence northwesterly in a straight line to a point at latitude $65^{\circ}02'06''$ North and longitude $129^{\circ}11'31''$ West;
18. Thence westerly in a straight line to a point at latitude $65^{\circ}02'06''$ North and longitude $129^{\circ}12'16''$ West;
19. Thence westerly in a straight line to a point at latitude $65^{\circ}02'01''$ North and longitude $129^{\circ}12'45''$ West;
20. Thence westerly in a straight line to a point at latitude $65^{\circ}02'08''$ North and longitude $129^{\circ}13'38''$ West;
21. Thence westerly in a straight line to a point at latitude $65^{\circ}02'09''$ North and longitude $129^{\circ}14'23''$ West;
22. Thence northwesterly in a straight line to a point at latitude $65^{\circ}02'26''$ North and longitude $129^{\circ}15'15''$ West;
23. Thence westerly in a straight line to a point at latitude $65^{\circ}02'26''$ North and longitude $129^{\circ}15'34''$ West;
24. Thence northwesterly in a straight line to a point at latitude $65^{\circ}02'57''$ North and longitude $129^{\circ}16'11''$ West;

25. Thence northwesterly in a straight line to a point at latitude $65^{\circ}03'15''$ North and longitude $129^{\circ}17'44''$ West;
26. Thence northwesterly in a straight line to a point at latitude $65^{\circ}03'28''$ North and longitude $129^{\circ}18'11''$ West;
27. Thence northwesterly in a straight line to a point at latitude $65^{\circ}03'42''$ North and longitude $129^{\circ}19'31''$ West;
28. Thence northwesterly in a straight line to a point at latitude $65^{\circ}03'54''$ North and longitude $129^{\circ}20'03''$ West;
29. Thence northwesterly in a straight line to a point at latitude $65^{\circ}04'06''$ North and longitude $129^{\circ}21'09''$ West;
30. Thence northwesterly in a straight line to a point at latitude $65^{\circ}04'14''$ North and longitude $129^{\circ}21'17''$ West;
31. Thence northwesterly in a straight line to a point at latitude $65^{\circ}04'27''$ North and longitude $129^{\circ}22'14''$ West;
32. Thence northwesterly in a straight line to a point at latitude $65^{\circ}04'39''$ North and longitude $129^{\circ}22'42''$ West;
33. Thence westerly in a straight line to a point at latitude $65^{\circ}04'42''$ North and longitude $129^{\circ}24'19''$ West;
34. Thence southwesterly in a straight line to a point at latitude $65^{\circ}04'37''$ North and longitude $129^{\circ}24'40''$ West;
35. Thence northwesterly in a straight line to a point at latitude $65^{\circ}04'51''$ North and longitude $129^{\circ}25'36''$ West;
36. Thence southwesterly in a straight line to a point at latitude $65^{\circ}04'47''$ North and longitude $129^{\circ}25'55''$ West;
37. Thence northwesterly in a straight line to a point at latitude $65^{\circ}04'54''$ North and longitude $129^{\circ}26'22''$ West;
38. Thence northeasterly in a straight line to a point at latitude $65^{\circ}04'58''$ North and longitude $129^{\circ}26'03''$ West;
39. Thence northeasterly in a straight line to a point at latitude $65^{\circ}05'05''$ North and longitude $129^{\circ}26'00''$ West;
40. Thence northwesterly in a straight line to a point at latitude $65^{\circ}05'12''$ North and longitude $129^{\circ}26'06''$ West;
41. Thence northeasterly in a straight line to a point at latitude $65^{\circ}05'19''$ North and longitude $129^{\circ}25'50''$ West;

42. Thence easterly in a straight line to a point at latitude $65^{\circ}05'18''$ North and longitude $129^{\circ}24'40''$ West;
43. Thence easterly in a straight line to a point at latitude $65^{\circ}05'32''$ North and longitude $129^{\circ}23'22''$ West;
44. Thence northeasterly in a straight line to a point at latitude $65^{\circ}05'47''$ North and longitude $129^{\circ}22'36''$ West;
45. Thence easterly in a straight line to a point at latitude $65^{\circ}05'56''$ North and longitude $129^{\circ}21'43''$ West;
46. Thence southeasterly in a straight line to a point at latitude $65^{\circ}05'48''$ North and longitude $129^{\circ}20'53''$ West;
47. Thence easterly in a straight line to a point at latitude $65^{\circ}05'50''$ North and longitude $129^{\circ}20'13''$ West;
48. Thence northeasterly in a straight line to a point at latitude $65^{\circ}06'29''$ North and longitude $129^{\circ}19'16''$ West;
49. Thence northeasterly in a straight line to a point at latitude $65^{\circ}07'11''$ North and longitude $129^{\circ}17'16''$ West;
50. Thence easterly in a straight line to a point at latitude $65^{\circ}07'42''$ North and longitude $129^{\circ}11'04''$ West;
51. Thence northeasterly in a straight line to a point at latitude $65^{\circ}08'34''$ North and longitude $129^{\circ}07'17''$ West;
52. Thence northeasterly in a straight line to a point at latitude $65^{\circ}08'52''$ North and longitude $129^{\circ}06'17''$ West;
53. Thence easterly in a straight line to a point at latitude $65^{\circ}09'00''$ North and longitude $129^{\circ}05'14''$ West;
54. Thence northeasterly in a straight line to a point at latitude $65^{\circ}09'14''$ North and longitude $129^{\circ}04'19''$ West;
55. Thence northeasterly in a straight line to a point at latitude $65^{\circ}09'35''$ North and longitude $129^{\circ}02'20''$ West;
56. Thence easterly in a straight line to a point at latitude $65^{\circ}09'35''$ North and longitude $129^{\circ}01'24''$ West;
57. Thence northeasterly in a straight line to a point at latitude $65^{\circ}09'59''$ North and longitude $128^{\circ}59'18''$ West;
58. Thence northerly in a straight line to a point at latitude $65^{\circ}10'05''$ North and longitude $128^{\circ}59'18''$ West;

59. Thence northeasterly in a straight line to a point at latitude 65°10'13" North and longitude 128°59'39" West;
60. Thence easterly in a straight line to a point at latitude 65°10'11" North and longitude 128°58'01" West;
61. Thence easterly in a straight line to a point at latitude 65°10'15" North and longitude 128°57'32" West;
62. Thence northeasterly in a straight line to a point at latitude 65°10'28" North and longitude 128°57'24" West;
63. Thence easterly in a straight line to a point at latitude 65°10'33" North and longitude 128°56'46" West;
64. Thence northeasterly in a straight line to a point at latitude 65°10'42" North and longitude 128°55'58" West;
65. Thence easterly in a straight line to a point at latitude 65°10'38" North and longitude 128°55'14" West;
66. Thence easterly in a straight line to a point at latitude 65°10'41" North and longitude 128°54'44" West;
67. Thence northeasterly in a straight line to a point at latitude 65°10'53" North and longitude 128°54'00" West;
68. Thence northeasterly in a straight line to a point at latitude 65°11'06" North and longitude 128°52'36" West;
69. Thence easterly in a straight line to a point at latitude 65°10'56" North and longitude 128°50'53" West;
70. Thence easterly in a straight line to a point at latitude 65°10'57" North and longitude 128°50'10" West;
71. Thence easterly in a straight line to a point on the boundary of the 5 km buffer for Mountain River computed using the hydrology layers from Natural Resources Canada's CanVec dataset (2017), at approximate latitude 65°10'54" North and 128°49'22" West;
72. Thence generally southwesterly following the boundary of the 5 km buffer for Mountain River computed using the hydrology layers from Natural Resources Canada's CanVec dataset (2017), to the point of commencement.

43. Carcajou River Special Management Zone

Datum: NAD83

A **1 km special management buffer** is applied to the ordinary high water mark of the Carcajou River, using the hydrology layers from Natural Resources Canada's CanVec dataset (2017).

However, some areas of the buffer are erased as per the boundaries of the zones listed below, as they supersede the conservation buffer.

- 39. Do Et'q (Doi T'oh Territorial Park and Canol Heritage Trail Reserve) Proposed Conservation Initiative;
- 40. Shúhtaot'Inę Néné (Mountain Dene Land) Conservation Zone;
- 42. Faʔfa Nlįjné (Mountain River Extension) Conservation Zone;
- 63. Deh Cho (Mackenzie River) Special Management Zone.

As well, the special management buffer does not apply to Sahtu Settlement Lands Parcel M 29 described in the *Sahtu Dene and Metis Comprehensive Land Claim Agreement*, with Canada Lands Survey System identification number 83090-1 CLSR NT. The boundaries of the surveyed parcel are provided by the Cadastral Information in the Northwest Territories shapefile, produced by the Surveyor General Branch of Natural Resources Canada (2017) at a scale of 1:50,000.

Notes on methodology

When creating the buffer and due to irregular shape of the river, isolated excluded areas are formed near the Mackenzie River, being completely surrounded by the buffer. These areas are integrated into the conservation zone. Furthermore, 3 sliver polygons are formed using the methodology above where the Carcajou River crosses Zone 39. Do Et'q (Doi T'oh Territorial Park and Canol Trail Heritage Trail Reserve) Proposed Conservation Initiative, at approximate latitude 64°28'15" North and longitude 127°58'30" West. These 3 sliver polygons are removed from this zone.

Metes and bounds

No metes and bounds are described for this zone, as it is based on a buffer placed along a river. For the boundaries of the zones that supersede the special management buffer for the Carcajou River, please refer to their respective zone description.

44. Florence Lake Conservation Zone

Datum: NAD83

Florence Lake Conservation zone is based on the International Biological Programme Sites in Subarctic Canada, ed. Dorothy K.B. Beckel, University of Lethbridge Prod. Services, 1975, with the Sahtu GIS Project as the data provide. The boundaries have been generalised while preserving general shape and area, as to have described metes and bounds.

Metes and bounds

Florence Lake Conservation zone is based on the International Biological Programme Sites in Subarctic Canada, ed. Dorothy K.B. Beckel, University of Lethbridge Prod. Services, 1975, with the Sahtu GIS Project as the data provide. The boundaries have been generalised while preserving general shape and area, as to have described metes and bounds.

Metes and bounds

1. Commencing at a point at latitude 65°11'07" North and longitude 128°10'38" West;
2. Thence southeasterly in a straight line to a point at latitude 65°10'49" North and longitude 128°10'31" West;
3. Thence easterly in a straight line to a point at latitude 65°10'41" North and longitude 128°09'26" West;
4. Thence southeasterly in a straight line to a point at latitude 65°10'28" North and longitude 128°08'34" West;
5. Thence easterly in a straight line to a point at latitude 65°10'25" North and longitude 128°07'27" West;
6. Thence southeasterly in a straight line to a point at latitude 65°10'20" North and longitude 128°07'10" West;
7. Thence northeasterly in a straight line to a point at latitude 65°10'24" North and longitude 128°06'54" West;
8. Thence easterly in a straight line to a point at latitude 65°10'23" North and longitude 128°06'27" West;
9. Thence easterly in a straight line to a point at latitude 65°10'22" North and longitude 128°06'08" West;
10. Thence easterly in a straight line to a point at latitude 65°10'24" North and longitude 128°05'50" West;
11. Thence southeasterly in a straight line to a point at latitude 65°10'19" North and longitude 128°05'32" West;

12. Thence southeasterly in a straight line to a point at latitude $65^{\circ}10'08''$ North and longitude $128^{\circ}05'20''$ West;
13. Thence easterly in a straight line to a point at latitude $65^{\circ}10'12''$ North and longitude $128^{\circ}04'58''$ West;
14. Thence southeasterly in a straight line to a point at latitude $65^{\circ}10'04''$ North and longitude $128^{\circ}04'32''$ West;
15. Thence southeasterly in a straight line to a point at latitude $65^{\circ}09'45''$ North and longitude $128^{\circ}04'12''$ West;
16. Thence easterly in a straight line to a point at latitude $65^{\circ}09'39''$ North and longitude $128^{\circ}03'33''$ West;
17. Thence southeasterly in a straight line to a point at latitude $65^{\circ}09'29''$ North and longitude $128^{\circ}02'56''$ West;
18. Thence easterly in a straight line to a point at latitude $65^{\circ}09'26''$ North and longitude $128^{\circ}01'55''$ West;
19. Thence southeasterly in a straight line to a point at latitude $65^{\circ}09'19''$ North and longitude $128^{\circ}01'19''$ West;
20. Thence easterly in a straight line to a point at latitude $65^{\circ}09'16''$ North and longitude $128^{\circ}00'38''$ West;
21. Thence southeasterly in a straight line to a point at latitude $65^{\circ}09'12''$ North and longitude $128^{\circ}00'22''$ West;
22. Thence southwesterly in a straight line to a point at latitude $65^{\circ}08'09''$ North and longitude $128^{\circ}00'39''$ West;
23. Thence southeasterly in a straight line to a point at latitude $65^{\circ}07'39''$ North and longitude $128^{\circ}00'00''$ West;
24. Thence southwesterly in a straight line to a point at latitude $65^{\circ}07'28''$ North and longitude $128^{\circ}00'15''$ West;
25. Thence southwesterly in a straight line to a point at latitude $65^{\circ}07'10''$ North and longitude $128^{\circ}00'28''$ West;
26. Thence southwesterly in a straight line to a point at latitude $65^{\circ}06'59''$ North and longitude $128^{\circ}00'38''$ West;
27. Thence southwesterly in a straight line to a point at latitude $65^{\circ}06'48''$ North and longitude $128^{\circ}01'07''$ West;
28. Thence southwesterly in a straight line to a point at latitude $65^{\circ}06'40''$ North and longitude $128^{\circ}01'45''$ West;

29. Thence southwesterly in a straight line to a point at latitude $65^{\circ}06'20''$ North and longitude $128^{\circ}02'10''$ West;
30. Thence southwesterly in a straight line to a point at latitude $65^{\circ}06'13''$ North and longitude $128^{\circ}02'12''$ West;
31. Thence southwesterly in a straight to a point at latitude $65^{\circ}06'09''$ North and longitude $128^{\circ}02'29''$ West;
32. Thence northwesterly in a straight line to a point at latitude $65^{\circ}06'15''$ North and longitude $128^{\circ}02'56''$ West;
33. Thence northwesterly in a straight line to a point at latitude $65^{\circ}06'42''$ North and longitude $128^{\circ}03'55''$ West;
34. Thence westerly in a straight line to a point at latitude $65^{\circ}08'01''$ North and longitude $128^{\circ}14'56''$ West;
35. Thence northeasterly in a straight line to a point at latitude $65^{\circ}08'23''$ North and longitude $128^{\circ}14'36''$ West;
36. Thence northeasterly in a straight to a point at latitude $65^{\circ}08'28''$ North and longitude $128^{\circ}14'15''$ West;
37. Thence northeasterly in a straight line to a point at latitude $65^{\circ}08'40''$ North and longitude $128^{\circ}14'02''$ West;
38. Thence easterly in a straight line to a point at latitude $65^{\circ}08'40''$ North and longitude $128^{\circ}13'42''$ West;
39. Thence northeasterly in a straight to a point at latitude $65^{\circ}08'44''$ North and longitude $128^{\circ}13'24''$ West;
40. Thence northeasterly in a straight line to a point at latitude $65^{\circ}08'50''$ North and longitude $128^{\circ}13'14''$ West;
41. Thence northeasterly in a straight line to a point at latitude $65^{\circ}09'01''$ North and longitude $128^{\circ}12'35''$ West;
42. Thence northeasterly in a straight to a point at latitude $65^{\circ}09'08''$ North and longitude $128^{\circ}12'21''$ West;
43. Thence northwesterly in a straight line to a point at latitude $65^{\circ}09'26''$ North and longitude $128^{\circ}12'25''$ West;
44. Thence northeasterly in a straight line, to a point at latitude $65^{\circ}09'35''$ North and longitude $128^{\circ}12'15''$ West;
45. Thence northeasterly in a straight line to a point at latitude $65^{\circ}09'38''$ North and longitude $128^{\circ}12'14''$ West;

46. Thence northeasterly in a straight line to a point at latitude $65^{\circ}09'49''$ North and longitude $128^{\circ}12'11''$ West;
47. Thence northeasterly in a straight line to the point of commencement.

45. Palmer Lake Conservation Zone

Datum: NAD83

A **2500 m conservation buffer** is applied to the ordinary high water mark of Palmer Lake (otherwise known as Shale Lake, located at approximate latitude 64°27'54" N and longitude 129°36'50" W), using the hydrology layers from Natural Resource Canada's CanVec dataset (2017).

Metes and bounds

No metes and bounds are described for this zone, as it is based on a buffer placed around a lake.

46. K'ááchohtíideé (Mountain River) Special Management Zone

Datum: NAD83

A **1 km special management buffer** is applied to the ordinary high water mark of Mountain River, using the hydrology layers from Natural Resources Canada's CanVec dataset (2017). This zone is exclusively within the Tulita District of the Sahtu Settlement Area, with the boundary determined by the Sahtu District Boundaries dataset, digitised by the Sahtu GIS Project (2007). As such, all buffered areas that fall outside of the Tulita District are excluded from this special management zone.

Metes and bounds

No metes and bounds are described for this zone, as it is based on a buffer placed along a river.

47. Cache Lake Conservation Zone

Datum: NAD83

A **2500 m conservation buffer** is applied to the ordinary high water mark of Cache Lake (located at approximate latitude 64°25'50" North and longitude 128°43'15" West), using the hydrology layers from Natural Resources Canada's CanVec dataset (2017).

Metes and bounds

No metes and bounds are described for this zone, as it is based on a buffer placed around a lake.

48. Túésene (Mountain Hot Springs) Conservation Zone

Datum: NAD83

Mountain Hot Springs Conservation Zone is based on the International Biological Programme Sites in Subarctic Canada, ed. Dorothy K.B. Beckel, University of Lethbridge Prod. Services, 1975, with the Sahtu GIS Project as the data provider. These boundaries are generalised while preserving general shape and area, as to have described metes and bounds. **Tuitye/Twitua Hotsprings (48A)**, **Sculpin Springs (48B)**, and **Lymnaea/Snail Springs (48C)** form this conservation zone. All of the coordinates associated with its metes and bounds zone description as follows intersect with the boundaries of Zone 38 Mackenzie Mountains Special Management Zone, with the exception of a boundary in 48C which intersects with Zone 39 Do Et'q (Doi T'oh Territorial Park and Canol Heritage Trail Reserve) Proposed Conservation Initiative, as described in the metes and bounds description.

Metes and bounds

48A. Tuitye/Twitua Hotsprings

1. Commencing at a point at latitude 63°48'57" North and longitude 129°57'29" West;
2. Thence easterly in a straight line to a point at latitude 63°48'58" North and longitude 129°56'38" West;
3. Thence easterly in a straight line to a point at latitude 63°48'57" North and longitude 129°55'56" West;
4. Thence northeasterly in a straight line to a point at latitude 63°49'07" North and longitude 129°55'23" West;
5. Thence northeasterly in a straight line to a point at latitude 63°49'15" North and longitude 129°54'44" West;
6. Thence northeasterly in a straight line to a point at latitude 63°49'30" North and longitude 129°54'36" West;
7. Thence northeasterly in a straight line to a point at latitude 63°49'46" North and longitude 129°54'32" West;
8. Thence northeasterly in a straight line to a point at latitude 63°49'53" North and longitude 129°54'14" West;
9. Thence northeasterly in a straight line to a point at latitude 63°50'03" North and longitude 129°54'02" West;
10. Thence northeasterly in a straight line to a point at latitude 63°50'12" North and longitude 129°53'45" West;
11. Thence easterly in a straight line to a point at latitude 63°50'13" North and longitude 129°53'23" West;

12. Thence southeasterly in a straight line to a point at latitude $63^{\circ}50'03''$ North and longitude $129^{\circ}52'49''$ West;
13. Thence easterly in a straight line to a point at latitude $63^{\circ}50'02''$ North and longitude $129^{\circ}52'21''$ West;
14. Thence easterly in a straight line to a point at latitude $63^{\circ}50'05''$ North and longitude $129^{\circ}51'51''$ West;
15. Thence southwesterly in a straight line to a point at latitude $63^{\circ}49'53''$ North and longitude $129^{\circ}52'15''$ West;
16. Thence easterly in a straight line to a point at latitude $63^{\circ}49'45''$ North and longitude $129^{\circ}51'05''$ West;
17. Thence southerly in a straight line to a point at latitude $63^{\circ}47'33''$ North and longitude $129^{\circ}51'22''$ West;
18. Thence southwesterly in a straight line to a point at latitude $63^{\circ}47'24''$ North and longitude $129^{\circ}51'49''$ West;
19. Thence westerly in a straight line to a point at latitude $63^{\circ}47'24''$ North and longitude $129^{\circ}52'10''$ West;
20. Thence southerly in a straight line to a point at latitude $63^{\circ}46'54''$ North and longitude $129^{\circ}52'13''$ West;
21. Thence southwesterly in a straight line to a point at latitude $63^{\circ}46'52''$ North and longitude $129^{\circ}52'19''$ West;
22. Thence westerly in a straight line to a point at latitude $63^{\circ}46'49''$ North and longitude $129^{\circ}53'28''$ West;
23. Thence southwesterly in a straight line to a point at latitude $63^{\circ}46'36''$ North and longitude $129^{\circ}53'42''$ West;
24. Thence westerly in a straight line to a point at latitude $63^{\circ}46'35''$ North and longitude $129^{\circ}54'15''$ West;
25. Thence southwesterly in a straight line to a point at latitude $63^{\circ}46'24''$ North and longitude $129^{\circ}54'54''$ West;
26. Thence southwesterly in a straight line to a point at latitude $63^{\circ}46'19''$ North and longitude $129^{\circ}54'58''$ West;
27. Thence westerly in a straight line to a point at latitude $63^{\circ}46'20''$ North and longitude $129^{\circ}55'25''$ West;
28. Thence northwesterly in a straight line to a point at latitude $63^{\circ}47'01''$ North and longitude $129^{\circ}56'56''$ West;

29. Thence northwesterly in a straight line to a point at latitude $63^{\circ}47'33''$ North and longitude $129^{\circ}57'15''$ West;
30. Thence northwesterly in a straight line to a point at latitude $63^{\circ}48'07''$ North and longitude $129^{\circ}57'51''$ West;
31. Thence northwesterly in a straight line to a point at latitude $63^{\circ}48'33''$ North and longitude $129^{\circ}58'00''$ West;
32. Thence northeasterly in a straight line to a point at latitude $63^{\circ}48'48''$ North and longitude $129^{\circ}57'49''$ West;
33. Thence northeasterly in a straight line to the point of commencement.

48B. Sculpin Springs

1. Commencing at a point at latitude $63^{\circ}57'12''$ North and longitude $129^{\circ}26'00''$ West;
2. Thence northeasterly in a straight line to a point at latitude $63^{\circ}57'24''$ North and longitude $129^{\circ}25'37''$ West;
3. Thence northeasterly in a straight line to a point at latitude $63^{\circ}57'38''$ North and longitude $129^{\circ}25'18''$ West;
4. Thence northeasterly in a straight line to a point at latitude $63^{\circ}57'57''$ North and longitude $129^{\circ}25'01''$ West;
5. Thence northeasterly in a straight line to a point at latitude $63^{\circ}58'12''$ North and longitude $129^{\circ}24'39''$ West;
6. Thence northeasterly in a straight line to a point at latitude $63^{\circ}58'26''$ North and longitude $129^{\circ}24'10''$ West;
7. Thence easterly in a straight line to a point at latitude $63^{\circ}58'28''$ North and longitude $129^{\circ}23'24''$ West;
8. Thence easterly in a straight line to a point at latitude $63^{\circ}58'25''$ North and longitude $129^{\circ}22'58''$ West;
9. Thence southeasterly in a straight line to a point at latitude $63^{\circ}58'17''$ North and longitude $129^{\circ}22'23''$ West;
10. Thence easterly in a straight line to a point at latitude $63^{\circ}58'11''$ North and longitude $129^{\circ}21'16''$ West;
11. Thence easterly in a straight line to a point at latitude $63^{\circ}58'03''$ North and longitude $129^{\circ}20'16''$ West;

12. Thence southeasterly in a straight line to a point at latitude $63^{\circ}57'40''$ North and longitude $129^{\circ}19'12''$ West;
13. Thence southeasterly in a straight line to a point at latitude $63^{\circ}57'34''$ North and longitude $129^{\circ}18'36''$ West;
14. Thence southeasterly in a straight line to a point at latitude $63^{\circ}57'29''$ North and longitude $129^{\circ}18'14''$ West;
15. Thence southeasterly in a straight line to a point at latitude $63^{\circ}57'20''$ North and longitude $129^{\circ}17'54''$ West;
16. Thence southeasterly in a straight line to a point at latitude $63^{\circ}57'09''$ North and longitude $129^{\circ}17'40''$ West;
17. Thence southeasterly in a straight line to a point at latitude $63^{\circ}56'59''$ North and longitude $129^{\circ}17'24''$ West;
18. Thence southeasterly in a straight line to a point at latitude $63^{\circ}56'49''$ North and longitude $129^{\circ}17'14''$ West;
19. Thence southeasterly in a straight line to a point at latitude $63^{\circ}56'42''$ North and longitude $129^{\circ}16'58''$ West;
20. Thence southwesterly in a straight line to a point at latitude $63^{\circ}56'21''$ North and longitude $129^{\circ}17'23''$ West;
21. Thence southwesterly in a straight line to a point at latitude $63^{\circ}56'14''$ North and longitude $129^{\circ}17'43''$ West;
22. Thence southwesterly in a straight line to a point at latitude $63^{\circ}56'07''$ North and longitude $129^{\circ}17'50''$ West;
23. Thence southwesterly in a straight line to a point at latitude $63^{\circ}55'51''$ North and longitude $129^{\circ}18'26''$ West;
24. Thence southwesterly in a straight line to a point at latitude $63^{\circ}55'40''$ North and longitude $129^{\circ}19'28''$ West;
25. Thence westerly in a straight line to a point at latitude $63^{\circ}55'45''$ North and longitude $129^{\circ}19'59''$ West;
26. Thence westerly in a straight line to a point at latitude $63^{\circ}55'39''$ North and longitude $129^{\circ}20'42''$ West;
27. Thence westerly in a straight line to a point at latitude $63^{\circ}55'38''$ North and longitude $129^{\circ}21'15''$ West;
28. Thence southwesterly in a straight line to a point at latitude $63^{\circ}55'24''$ North and longitude $129^{\circ}22'12''$ West;

29. Thence westerly in a straight line to a point at latitude $63^{\circ}55'23''$ North and longitude $129^{\circ}22'38''$ West;
30. Thence northwesterly in a straight line to a point at latitude $63^{\circ}55'37''$ North and longitude $129^{\circ}23'10''$ West;
31. Thence northwesterly in a straight line to a point at latitude $63^{\circ}55'58''$ North and longitude $129^{\circ}23'24''$ West;
32. Thence northwesterly in a straight line to a point at latitude $63^{\circ}56'13''$ North and longitude $129^{\circ}23'29''$ West;
33. Thence northeasterly in a straight line to a point at latitude $63^{\circ}56'23''$ North and longitude $129^{\circ}23'27''$ West;
34. Thence northwesterly in a straight line to a point at latitude $63^{\circ}56'33''$ North and longitude $129^{\circ}23'47''$ West;
35. Thence northwesterly in a straight line to a point at latitude $63^{\circ}56'40''$ North and longitude $129^{\circ}24'23''$ West;
36. Thence southwesterly in a straight line to a point at latitude $63^{\circ}56'37''$ North and longitude $129^{\circ}24'39''$ West;
37. Thence northwesterly in a straight line to a point at latitude $63^{\circ}56'43''$ North and longitude $129^{\circ}24'50''$ West;
38. Thence northwesterly in a straight line to a point at latitude $63^{\circ}57'01''$ North and longitude $129^{\circ}25'45''$ West;
39. Thence northwesterly in a straight line to the point of commencement.

48C. Lymnaea/Snail Springs

1. Commencing at a point at latitude $64^{\circ}10'01''$ North and longitude $128^{\circ}30'04''$ West;
2. Thence easterly in a straight line to a point at latitude $64^{\circ}10'04''$ North and longitude $128^{\circ}27'43''$ West;
3. Thence northeasterly in a straight line to a point at latitude $64^{\circ}10'15''$ North and longitude $128^{\circ}27'15''$ West;
4. Thence easterly in a straight line to a point at latitude $64^{\circ}10'18''$ North and longitude $128^{\circ}26'49''$ West;
5. Thence easterly in a straight line to a point at latitude $64^{\circ}10'17''$ North and longitude $128^{\circ}25'41''$ West;

6. Thence easterly in a straight line to a point at latitude $64^{\circ}10'05''$ North and longitude $128^{\circ}24'29''$ West;
7. Thence easterly in a straight line to a point at latitude $64^{\circ}10'06''$ North and longitude $128^{\circ}24'00''$ West;
8. Thence northeasterly in a straight line to a point at latitude $64^{\circ}10'14''$ North and longitude $128^{\circ}23'34''$ West;
9. Thence southeasterly in a straight line to a point at latitude $64^{\circ}10'06''$ North and longitude $128^{\circ}23'22''$ West;
10. Thence southeasterly in a straight line to a point at latitude $64^{\circ}09'56''$ North and longitude $128^{\circ}22'47''$ West;
11. Thence southeasterly in a straight line to a point at latitude $64^{\circ}09'45''$ North and longitude $128^{\circ}22'31''$ West;
12. Thence southeasterly in a straight line to a point at latitude $64^{\circ}09'32''$ North and longitude $128^{\circ}22'20''$ West;
13. Thence southeasterly in a straight line to a point at latitude $64^{\circ}09'15''$ North and longitude $128^{\circ}21'47''$ West;
14. Thence southeasterly in a straight line to a point on the boundary of Zone 39 Do Et'q (Doi T'oh Territorial Park and Canol Heritage Trail) Proposed Conservation Initiative, at approximate latitude $64^{\circ}08'55''$ North and longitude $128^{\circ}21'32''$ West;
15. Thence generally southwesterly following the boundary of Zone 39 Do Et'q (Doi T'oh Territorial Park and Canol Heritage Trail) Proposed Conservation Initiative, to a point at approximate latitude $64^{\circ}08'14''$ North and longitude $128^{\circ}22'59''$ West;
16. Thence southwesterly in a straight line to a point at latitude $64^{\circ}08'07''$ North and longitude $128^{\circ}23'11''$ West;
17. Thence westerly in a straight line to a point at latitude $64^{\circ}08'03''$ North and longitude $128^{\circ}23'34''$ West;
18. Thence southwesterly in a straight line to a point at latitude $64^{\circ}07'49''$ North and longitude $128^{\circ}23'46''$ West;
19. Thence westerly in a straight line to a point at latitude $64^{\circ}07'52''$ North and longitude $128^{\circ}24'19''$ West;
20. Thence northwesterly in a straight line to a point at latitude $64^{\circ}08'01''$ North and longitude $128^{\circ}25'00''$ West;
21. Thence westerly in a straight line to a point at latitude $64^{\circ}08'04''$ North and longitude $128^{\circ}25'54''$ West;

22. Thence westerly in a straight line to a point at latitude $64^{\circ}07'51''$ North and longitude $128^{\circ}27'21''$ West;
23. Thence southwesterly in a straight line to a point at latitude $64^{\circ}07'47''$ North and longitude $128^{\circ}27'36''$ West;
24. Thence northwesterly in a straight line to a point at latitude $64^{\circ}07'55''$ North and longitude $128^{\circ}28'05''$ West;
25. Thence northwesterly in a straight line to a point at latitude $64^{\circ}08'05''$ North and longitude $128^{\circ}28'20''$ West;
26. Thence westerly in a straight line to a point at latitude $64^{\circ}08'08''$ North and longitude $128^{\circ}28'49''$ West;
27. Thence northwesterly in a straight line to a point at latitude $64^{\circ}08'47''$ North and longitude $128^{\circ}29'01''$ West;
28. Thence northwesterly in a straight line to a point at latitude $64^{\circ}09'01''$ North and longitude $128^{\circ}29'22''$ West;
29. Thence northwesterly in a straight line to a point at latitude $64^{\circ}09'12''$ North and longitude $128^{\circ}29'28''$ West;
30. Thence northwesterly in a straight line to a point at latitude $64^{\circ}09'21''$ North and longitude $128^{\circ}29'50''$ West;
31. Thence northwesterly in a straight line to a point at latitude $64^{\circ}09'34''$ North and longitude $128^{\circ}29'59''$ West;
32. Thence northerly in a straight line to a point at latitude $64^{\circ}09'47''$ North and longitude $128^{\circ}29'57''$ West;
33. Thence northwesterly in a straight line to the point of commencement.

49. Mirage Mountain Conservation Zone

Datum: NAD83

Located within the Mackenzie Mountains near the Northwest Territories / Yukon border, a metes and bounds zone description follows as a means to define the boundaries of this zone, which includes Mirage Mountain and the area around it. All of the coordinates associated with its metes and bounds zone description as follows intersect with the boundaries of Zone 38 Mackenzie Mountains Special Management Zone.

Metes and bounds

1. Commencing at a point at latitude 63°51'33" North and longitude 129°40'09" West;
2. Thence northwesterly in a straight line to a point at latitude 63°52'15" North and longitude 129°41'25" West;
3. Thence northerly in a straight line to a point at latitude 63°52'51" North and longitude 129°41'24" West;
4. Thence northeasterly in a straight line to a point at latitude 63°53'26" North and longitude 129°40'47" West;
5. Thence northeasterly in a straight line to a point at latitude 63°53'42" North and longitude 129°40'19" West;
6. Thence northeasterly in a straight line to a point at latitude 63°54'03" North and longitude 129°39'28" West;
7. Thence easterly in a straight line to a point at latitude 63°54'09" North and longitude 129°38'47" West;
8. Thence easterly in a straight line to a point at latitude 63°54'07" North and longitude 129°37'06" West;
9. Thence easterly in a straight line to a point at latitude 63°54'17" North and longitude 129°34'09" West;
10. Thence easterly in a straight line to a point at latitude 63°54'10" North and longitude 129°32'20" West;
11. Thence southeasterly in a straight line to a point at latitude 63°53'45" North and longitude 129°31'18" West;
12. Thence southerly in a straight line to a point at latitude 63°53'05" North and longitude 129°31'15" West;
13. Thence southeasterly in a straight line to a point at latitude 63°52'18" North and longitude 129°31'00" West;

14. Thence southerly in a straight line to a point at latitude $63^{\circ}50'41''$ North and longitude $129^{\circ}31'07''$ West;
15. Thence southwesterly in a straight line to a point at latitude $63^{\circ}49'56''$ North and longitude $129^{\circ}31'27''$ West;
16. Thence southwesterly in a straight line to a point at latitude $63^{\circ}49'15''$ North and longitude $129^{\circ}32'03''$ West;
17. Thence southwesterly in a straight line to a point at latitude $63^{\circ}48'58''$ North and longitude $129^{\circ}33'02''$ West;
18. Thence westerly in a straight line to a point at latitude $63^{\circ}48'47''$ North and longitude $129^{\circ}34'25''$ West;
19. Thence southwesterly in a straight line to a point at latitude $63^{\circ}48'22''$ North and longitude $129^{\circ}35'57''$ West;
20. Thence westerly in a straight line to a point at latitude $63^{\circ}47'41''$ North and longitude $129^{\circ}40'20''$ West;
21. Thence westerly in a straight line to a point at latitude $63^{\circ}47'55''$ North and longitude $129^{\circ}41'40''$ West;
22. Thence northwesterly in a straight line to a point at latitude $63^{\circ}48'34''$ North and longitude $129^{\circ}42'40''$ West;
23. Thence northerly in a straight line to a point at latitude $63^{\circ}49'23''$ North and longitude $129^{\circ}43'11''$ West;
24. Thence northerly in a straight line to a point at latitude $63^{\circ}49'43''$ North and longitude $129^{\circ}43'11''$ West;
25. Thence northeasterly in a straight line to a point at latitude $63^{\circ}50'56''$ North and longitude $129^{\circ}41'43''$ West;
26. Thence northeasterly in a straight line to the point of commencement.

50. Norman Range Special Management Zone

Datum: NAD83

The Norman Range Special Management Zone is loosely based on generalised boundaries of the Level IV Norman Range LS Ecoregion (excluding fragments located to the east of 62. K'áq̄l̄q̄ Túé SMZ (Willow Lake Wetlands SMZ), as described by the Northwest Territories Ecosystem Classification Reports, provided by a digital shapefile from the Department of Natural Resources, Government of the Northwest Territories (2013). A metes and bounds zone description follows as a way to describe this zone.

However, some areas of the special management zone are erased as per the boundaries of the zones listed below, as they supersede the special management zone defined by the metes and bounds.

- 21. Nq̄fee K'q̄dah Túé (Lac à Jacques) Conservation Zone;
- 51. Yamq̄ga Fee (Yamoga Rock) Conservation Zone;
- 52. Chick Lake Conservation Zone;
- 53. Sam McCrae Lake Conservation Zone;
- 54. Turton Lake Conservation Zone;
- 55. Datzim̄ Túé (Oscar Lake) Conservation Zone;
- 56. Kelly Lake Protected Area (Land Claim) Conservation Zone;
- 57. Lugedeḡl̄ Túé & Tuyeh̄la Túé (Kelly and Lennie Lakes) Conservation Zone;
- 63. Deh Cho (Mackenzie River) Special Management Zone

Metes and bounds

1. Commencing at a point at latitude 65°52'00" North and longitude 128°49'28" West;
2. Thence northeasterly in a straight line to a point at latitude 65°52'27" North and longitude 128°47'52" West;
3. Thence northeasterly in a straight line to a point at latitude 65°53'25" North and longitude 128°43'09" West;
4. Thence easterly in a straight line to a point at latitude 65°53'28" North and longitude 128°41'09" West;
5. Thence northeasterly in a straight line to a point at latitude 65°53'53" North and longitude 128°39'47" West;
6. Thence easterly in a straight line to a point at latitude 65°54'13" North and longitude 128°37'20" West;
7. Thence northeasterly in a straight line to a point at latitude 65°54'54" North and longitude 128°35'53" West;
8. Thence northeasterly in a straight line to a point at latitude 65°55'43" North and longitude 128°31'32" West;
9. Thence easterly in a straight line to a point at latitude 65°56'20" North and longitude 128°26'25" West;
10. Thence easterly in a straight line to a point at latitude 65°56'53" North and longitude 128°16'48" West;
11. Thence easterly in a straight line to a point at latitude 65°56'43" North and longitude 128°14'26" West;

12. Thence easterly in a straight line to a point at latitude $65^{\circ}57'55''$ North and longitude $127^{\circ}51'14''$ West;
13. Thence easterly in a straight line to a point at latitude $65^{\circ}57'43''$ North and longitude $127^{\circ}50'05''$ West;
14. Thence northeasterly in a straight line to a point at latitude $65^{\circ}58'32''$ North and longitude $127^{\circ}47'43''$ West;
15. Thence northwesterly in a straight line to a point at latitude $65^{\circ}59'10''$ North and longitude $127^{\circ}48'45''$ West;
16. Thence northeasterly in a straight line to a point at latitude $66^{\circ}00'49''$ North and longitude $127^{\circ}45'32''$ West;
17. Thence northeasterly in a straight line to a point at latitude $66^{\circ}02'47''$ North and longitude $127^{\circ}38'07''$ West;
18. Thence northeasterly in a straight line to a point at latitude $66^{\circ}03'29''$ North and longitude $127^{\circ}34'16''$ West;
19. Thence easterly in a straight line to a point at latitude $66^{\circ}03'49''$ North and longitude $127^{\circ}31'30''$ West;
20. Thence generally northeasterly in a straight line to a point at latitude $66^{\circ}14'43''$ North and longitude $127^{\circ}20'21''$ West;
21. Thence southeasterly in a straight line to a point at latitude $66^{\circ}11'57''$ North and longitude $127^{\circ}17'43''$ West;
22. Thence southeasterly in a straight line to a point at latitude $66^{\circ}10'07''$ North and longitude $127^{\circ}14'48''$ West;
23. Thence southeasterly in a straight line to a point at latitude $66^{\circ}09'35''$ North and longitude $127^{\circ}13'04''$ West;
24. Thence easterly in a straight line to a point at latitude $66^{\circ}08'40''$ North and longitude $127^{\circ}04'44''$ West;
25. Thence southeasterly in a straight line to a point at latitude $66^{\circ}05'35''$ North and longitude $126^{\circ}58'02''$ West;
26. Thence southeasterly in a straight line to a point at latitude $66^{\circ}03'40''$ North and longitude $126^{\circ}56'30''$ West;
27. Thence southeasterly in a straight line to a point at latitude $66^{\circ}02'22''$ North and longitude $126^{\circ}53'56''$ West;
28. Thence southeasterly in a straight line to a point at latitude $66^{\circ}00'38''$ North and longitude $126^{\circ}47'30''$ West;
29. Thence easterly in a straight line to a point at latitude $66^{\circ}00'41''$ North and longitude $126^{\circ}44'42''$ West;
30. Thence northeasterly in a straight line to a point at latitude $66^{\circ}01'13''$ North and longitude $126^{\circ}42'07''$ West;
31. Thence southeasterly in a straight line to a point at latitude $65^{\circ}59'47''$ North and longitude $126^{\circ}34'06''$ West;
32. Thence southeasterly in a straight line to a point at latitude $65^{\circ}58'50''$ North and longitude $126^{\circ}30'26''$ West;

33. Thence southeasterly in a straight line to a point at latitude $65^{\circ}56'18''$ North and longitude $126^{\circ}26'17''$ West;
34. Thence southeasterly in a straight line to a point at latitude $65^{\circ}54'34''$ North and longitude $126^{\circ}25'01''$ West;
35. Thence southeasterly in a straight line to a point at latitude $65^{\circ}54'02''$ North and longitude $126^{\circ}23'13''$ West;
36. Thence southeasterly in a straight line to a point at latitude $65^{\circ}53'26''$ North and longitude $126^{\circ}22'21''$ West;
37. Thence southeasterly in a straight line to a point at latitude $65^{\circ}52'51''$ North and longitude $126^{\circ}22'01''$ West;
38. Thence southwesterly in a straight line to a point at latitude $65^{\circ}52'10''$ North and longitude $126^{\circ}23'10''$ West;
39. Thence southwesterly in a straight line to a point at latitude $65^{\circ}51'51''$ North and longitude $126^{\circ}24'45''$ West;
40. Thence westerly in a straight line to a point at latitude $65^{\circ}51'40''$ North and longitude $126^{\circ}26'02''$ West;
41. Thence southwesterly in a straight line to a point at latitude $65^{\circ}51'16''$ North and longitude $126^{\circ}27'11''$ West;
42. Thence southwesterly in a straight line to a point at latitude $65^{\circ}50'37''$ North and longitude $126^{\circ}27'43''$ West;
43. Thence southwesterly in a straight line to a point at latitude $65^{\circ}49'33''$ North and longitude $126^{\circ}27'59''$ West;
44. Thence southerly in a straight line to a point at latitude $65^{\circ}48'23''$ North and longitude $126^{\circ}28'07''$ West;
45. Thence southerly in a straight line to a point at latitude $65^{\circ}46'11''$ North and longitude $126^{\circ}28'04''$ West;
46. Thence southerly in a straight line to a point at latitude $65^{\circ}41'23''$ North and longitude $126^{\circ}28'51''$ West;
47. Thence southwesterly in a straight line to a point at latitude $65^{\circ}37'37''$ North and longitude $126^{\circ}30'06''$ West;
48. Thence southeasterly in a straight line to a point at latitude $65^{\circ}34'43''$ North and longitude $126^{\circ}22'14''$ West;
49. Thence southeasterly in a straight line to a point at latitude $65^{\circ}32'51''$ North and longitude $126^{\circ}18'52''$ West;
50. Thence southeasterly in a straight line to a point at latitude $65^{\circ}30'44''$ North and longitude $126^{\circ}16'28''$ West;
51. Thence southeasterly in a straight line to a point at latitude $65^{\circ}29'55''$ North and longitude $126^{\circ}13'09''$ West;
52. Thence southeasterly in a straight line to a point at latitude $65^{\circ}29'10''$ North and longitude $126^{\circ}11'21''$ West;
53. Thence southeasterly in a straight line to a point at latitude $65^{\circ}27'33''$ North and longitude $126^{\circ}09'23''$ West;

54. Thence southeasterly in a straight line to a point at latitude 65°26'18" North and longitude 126°08'14" West;
55. Thence easterly in a straight line to a point at latitude 65°26'06" North and longitude 126°04'58" West;
56. Thence northeasterly in a straight line to a point at latitude 65°27'15" North and longitude 126°03'45" West;
57. Thence northeasterly in a straight line to a point at latitude 65°28'20" North and longitude 126°03'21" West;
58. Thence northerly in a straight line to a point at latitude 65°31'27" North and longitude 126°02'58" West;
59. Thence northerly in a straight line to a point at latitude 65°32'09" North and longitude 126°03'02" West;
60. Thence northwesterly in a straight line to a point at latitude 65°34'15" North and longitude 126°04'33" West;
61. Thence northwesterly in a straight line to a point at latitude 65°35'27" North and longitude 126°06'20" West;
62. Thence northwesterly in a straight line to a point at latitude 65°37'01" North and longitude 126°07'39" West;
63. Thence northerly in a straight line to a point at latitude 65°39'09" North and longitude 126°07'47" West;
64. Thence easterly in a straight line to a point at latitude 65°39'16" North and longitude 126°06'59" West;
65. Thence easterly in a straight line to a point at latitude 65°39'02" North and longitude 126°04'59" West;
66. Thence southeasterly in a straight line to a point at latitude 65°37'00" North and longitude 126°02'57" West;
67. Thence southeasterly in a straight line to a point at latitude 65°34'32" North and longitude 126°01'54" West;
68. Thence southeasterly in a straight line to a point at latitude 65°33'43" North and longitude 126°00'56" West;
69. Thence southeasterly in a straight line to a point at latitude 65°33'02" North and longitude 125°59'22" West;
70. Thence southeasterly in a straight line to a point at latitude 65°32'14" North and longitude 125°58'11" West;
71. Thence southeasterly in a straight line to a point at latitude 65°31'32" North and longitude 125°56'50" West;
72. Thence southeasterly in a straight line to a point at latitude 65°29'45" North and longitude 125°55'53" West;
73. Thence southerly in a straight line to a point at latitude 65°29'03" North and longitude 125°55'48" West;
74. Thence southerly in a straight line to a point at latitude 65°27'55" North and longitude 125°55'45" West;

75. Thence southeasterly in a straight line to a point at latitude $65^{\circ}26'48''$ North and longitude $125^{\circ}55'18''$ West;
76. Thence southeasterly in a straight line to a point at latitude $65^{\circ}25'48''$ North and longitude $125^{\circ}54'28''$ West;
77. Thence southeasterly in a straight line to a point at latitude $65^{\circ}24'21''$ North and longitude $125^{\circ}52'26''$ West;
78. Thence southeasterly in a straight line to a point at latitude $65^{\circ}23'27''$ North and longitude $125^{\circ}50'19''$ West;
79. Thence southeasterly in a straight line to a point at latitude $65^{\circ}23'02''$ North and longitude $125^{\circ}48'41''$ West;
80. Thence easterly in a straight line to a point at latitude $65^{\circ}23'00''$ North and longitude $125^{\circ}45'59''$ West;
81. Thence southerly in a straight line to a point at latitude $65^{\circ}22'01''$ North and longitude $125^{\circ}46'05''$ West;
82. Thence southeasterly in a straight line to a point at latitude $65^{\circ}21'04''$ North and longitude $125^{\circ}45'20''$ West;
83. Thence southwesterly in a straight line to a point at latitude $65^{\circ}19'29''$ North and longitude $125^{\circ}46'55''$ West;
84. Thence southwesterly in a straight line to a point at latitude $65^{\circ}18'50''$ North and longitude $125^{\circ}49'26''$ West;
85. Thence southeasterly in a straight line to a point at latitude $65^{\circ}18'50''$ North and longitude $125^{\circ}49'26''$ West;
86. Thence southeasterly in a straight line to a point at latitude $65^{\circ}17'37''$ North and longitude $125^{\circ}48'47''$ West;
87. Thence southeasterly in a straight line to a point at latitude $65^{\circ}16'06''$ North and longitude $125^{\circ}42'25''$ West;
88. Thence southeasterly in a straight line to a point at latitude $65^{\circ}15'11''$ North and longitude $125^{\circ}41'08''$ West;
89. Thence easterly in a straight line to a point at latitude $65^{\circ}14'29''$ North and longitude $125^{\circ}35'53''$ West;
90. Thence southeasterly in a straight line to a point at latitude $65^{\circ}13'46''$ North and longitude $125^{\circ}35'03''$ West;
91. Thence southwesterly in a straight line to a point at latitude $65^{\circ}12'59''$ North and longitude $125^{\circ}35'17''$ West;
92. Thence southeasterly in a straight line to a point at latitude $65^{\circ}11'01''$ North and longitude $125^{\circ}31'23''$ West;
93. Thence westerly in a straight to a point at latitude $65^{\circ}10'52''$ North and longitude $125^{\circ}36'50''$ West;
94. Thence southwesterly in a straight line to a point at latitude $65^{\circ}10'02''$ North and longitude $125^{\circ}38'25''$ West;
95. Thence southeasterly in a straight line to a point at latitude $65^{\circ}09'28''$ North and longitude $125^{\circ}38'02''$ West;

96. Thence southwesterly in a straight line to a point at latitude 65°09'02" North and longitude 125°38'12" West;
97. Thence southwesterly in a straight line to a point at latitude 65°08'31" North and longitude 125°39'07" West;
98. Thence westerly in a straight line to a point at latitude 65°08'14" North and longitude 125°41'43" West;
99. Thence westerly in a straight line to a point at latitude 65°08'19" North and longitude 125°47'09" West;
100. Thence southwesterly in a straight line to a point at latitude 65°07'55" North and longitude 125°47'54" West;
101. Thence southwesterly in a straight line to a point at latitude 65°07'33" North and longitude 125°48'03" West;
102. Thence southeasterly in a straight line to a point at latitude 65°06'23" North and longitude 125°46'52" West;
103. Thence southeasterly in a straight line to a point at latitude 65°03'12" North and longitude 125°42'09" West;
104. Thence southeasterly in a straight line to a point at latitude 65°02'35" North and longitude 125°41'37" West;
105. Thence southwesterly in a straight line to a point at latitude 65°02'04" North and longitude 125°42'01" West;
106. Thence southwesterly in a straight line to a point at latitude 65°01'45" North and longitude 125°43'03" West;
107. Thence southwesterly in a straight line to a point at latitude 65°01'31" North and longitude 125°43'14" North;
108. Thence southeasterly in a straight line to a point at latitude 65°00'14" North and longitude 125°40'52" West;
109. Thence southeasterly in a straight line to a point intersecting with the boundary of Zone 32 Petinogah (Bear Rock) Conservation Zone, at approximate latitude 64°58'50" North and longitude 125°40'32" West;
110. Thence generally westerly following the boundary of Zone 32 Petinogah (Bear Rock) Conservation Zone, to a point at approximate latitude 64°59'14" North and longitude 125°43'59" West;
111. Thence northerly in a straight line to a point at latitude 64°59'20" North and longitude 125°43'59" West;
112. Thence northwesterly in a straight line to a point at latitude 64°59'55" North and longitude 125°44'33" West;
113. Thence northwesterly in a straight line to a point a latitude 65°00'53" North and longitude 125°45'57" West;
114. Thence northwesterly in a straight line to a point at latitude 65°03'21" North and longitude 125°50'44" West;
115. Thence northwesterly in a straight line to a point at latitude 65°05'16" North and longitude 125°53'02" West;

116. Thence northerly in a straight line to a point at latitude 65°05'52" North and longitude 125°53'03" West;
117. Thence northeasterly in a straight line to a point at latitude 65°07'02" North and longitude 125°51'38" West;
118. Thence northeasterly in a straight line to a point at latitude 65°07'39" North and longitude 125°51'16" West;
119. Thence northwesterly in a straight line to a point at latitude 65°08'28" North and longitude 125°51'28" West;
120. Thence northwesterly in a straight line to a point at latitude 65°09'01" North and longitude 125°51'53" West;
121. Thence northwesterly in a straight line to a point at latitude 65°09'29" North and longitude 125°52'39" West;
122. Thence northwesterly in a straight line to a point at latitude 65°09'49" North and longitude 125°53'40" West;
123. Thence westerly in a straight line to a point at latitude 65°09'58" North and longitude 125°54'40" West;
124. Thence westerly in a straight line to a point at latitude 65°09'58" North and longitude 125°55'35" West;
125. Thence southwesterly in a straight line to a point at latitude 65°09'44" North and longitude 125°56'31" West;
126. Thence westerly in a straight line to a point at latitude 65°09'42" North and longitude 126°00'35" West;
127. Thence westerly in a straight line to a point at latitude 65°10'35" North and longitude 126°06'38" West;
128. Thence northwesterly in a straight line to a point at latitude 65°12'25" North and longitude 126°14'28" West;
129. Thence northwesterly in a straight line to a point at latitude 65°13'23" North and longitude 126°17'53" West;
130. Thence northwesterly in a straight line to a point at latitude 65°14'20" North and longitude 126°19'54" West;
131. Thence northwesterly in a straight line to a point at latitude 65°15'40" North and longitude 126°23'36" West;
132. Thence northwesterly in a straight line to a point at latitude 65°16'20" North and longitude 126°25'59" West;
133. Thence northwesterly in a straight line to a point on the boundary of the Norman Wells Block Land Transfer General Use Zone, at approximate latitude 65°18'16" North and longitude 126°36'52" West;
134. Thence generally northerly and then northwesterly following the northern boundary of the Norman Wells Block Land Transfer General Use Zone, to a point at approximate latitude 65°23'29" North and longitude 126°58'55" West;
135. Thence westerly in a straight line to a point at latitude 65°23'34" North and longitude 127°00'19" West;

136. Thence westerly in a straight line to a point at latitude $65^{\circ}23'26''$ North and longitude $127^{\circ}02'08''$ West;
137. Thence westerly in a straight line to a point at latitude $65^{\circ}23'42''$ North and longitude $127^{\circ}04'07''$ West;
138. Thence northwesterly in a straight line to a point at latitude $65^{\circ}24'24''$ North and longitude $127^{\circ}06'12''$ West;
139. Thence westerly in a straight line to a point at latitude $65^{\circ}24'32''$ North and longitude $127^{\circ}07'47''$ West;
140. Thence westerly in a straight line to a point at latitude $65^{\circ}24'23''$ North and longitude $127^{\circ}09'43''$ West;
141. Thence westerly in a straight line to a point at latitude $65^{\circ}24'06''$ North and longitude $127^{\circ}11'42''$ West;
142. Thence northwesterly in a straight line to a point at latitude $65^{\circ}25'46''$ North and longitude $127^{\circ}16'27''$ West;
143. Thence northwesterly in a straight line to a point at latitude $65^{\circ}28'43''$ North and longitude $127^{\circ}27'03''$ West;
144. Thence northwesterly in a straight line to a point at latitude $65^{\circ}36'47''$ North and longitude $127^{\circ}45'24''$ West;
145. Thence northwesterly in a straight line to a point at latitude $65^{\circ}37'47''$ North and longitude $127^{\circ}46'29''$ West;
146. Thence northwesterly in a straight line to a point at latitude $65^{\circ}38'15''$ North and longitude $127^{\circ}46'46''$ West;
147. Thence northwesterly in a straight line to a point at latitude $65^{\circ}38'51''$ North and longitude $127^{\circ}47'46''$ West;
148. Thence northwesterly in a straight line to a point at latitude $65^{\circ}40'00''$ North and longitude $127^{\circ}49'04''$ West;
149. Thence southwesterly in a straight line to a point at latitude $65^{\circ}39'39''$ North and longitude $127^{\circ}49'27''$ West;
150. Thence southwesterly in a straight line to a point at latitude $65^{\circ}38'55''$ North and longitude $127^{\circ}53'03''$ West;
151. Thence westerly in a straight line to a point at latitude $65^{\circ}38'45''$ North and longitude $127^{\circ}54'26''$ West;
152. Thence southwesterly in a straight line to a point at latitude $65^{\circ}38'26''$ North and longitude $127^{\circ}55'18''$ West;
153. Thence westerly in a straight line to a point at latitude $65^{\circ}36'53''$ North and longitude $128^{\circ}11'50''$ West;
154. Thence westerly in a straight line to a point at latitude $65^{\circ}40'05''$ North and longitude $128^{\circ}33'11''$ West;
155. Thence generally northwesterly in a straight line to the point of commencement.

51. Yamōga Fee (Yamoga Rock) Conservation Zone

Datum: NAD83

The boundaries are defined by the **240 m elevation contour line** around Mount Effie, located at approximate latitude 65°57'00" North and longitude 127°56'30" West, using Natural Resource Canada's CanVec dataset (2017).

Metes and bounds

No metes and bounds are described for this zone, as it is based on contour lines around a mountain.

52. Chick Lake Conservation Zone

Datum: NAD83

A **500 m conservation buffer** is applied to the ordinary high water mark of Chick Lake (located at approximate latitude 65°52'00 North and longitude 128°06'00 West), using the hydrology layers from Natural Resources Canada's CanVec dataset (2017).

Metes and bounds

No metes and bounds are described for this zone, as it is based on a buffer placed around a lake.

53. Tl'ode Túé (Sam McCrae Lake) Conservation Zone

Datum: NAD83

A **500 m conservation buffer** is applied to the ordinary high water mark of Sam McCrae Lake (located at approximate latitude 65°56'30" North and longitude 127°9'00" West), using the hydrology layers from Natural Resources Canada's CanVec dataset (2017).

However, overlap occurs with adjacent Zone 54. Turton Lake Conservation Zone, when computing their respective buffers. As such, the boundaries of each zone in the overlap section are computed using the median between the two.

Metes and bounds

No metes and bounds are described for this zone, as it is based on a buffer placed around a lake. For the boundaries of the other mentioned zone, please refer to its respective zone description.

54. Turton Lake Conservation Zone

Datum: NAD83

A **500 m conservation buffer** is applied to the ordinary high water mark of Turton Lake (located at approximate latitude 65°48'00" North and longitude 126°56'00" West), using the hydrology layers from Natural Resources Canada's CanVec dataset (2017).

However, overlap occurs with adjacent Zone 53. Tl'ode T'úé (Sam McCrae Lake) Conservation Zone, when computing their respective buffers. As such, the boundaries of each zone in the overlap section are computed using the median between the two.

Metes and bounds

No metes and bounds are described for this zone, as it is based on a buffer placed around a lake. For the boundaries of the other mentioned zone, please refer to its respective zone description.

55. Datzımı Túé (Oscar Lake) Conservation Zone

Datum: NAD83

A **2500 m conservation buffer** is applied to the ordinary high water mark of Oscar Lake (located at approximate latitude 65°29'00" North and longitude 127°06'00" West), using the hydrology layers from Natural Resources Canada's CanVec dataset (2017).

Metes and bounds

No metes and bounds are described for this zone, as it is based on a buffer placed around a lake.

56. Kelly Lake Protected Area (Land Claim) Conservation Zone

Datum: NAD27 (from *Sahtu Dene and Metis Comprehensive Land Claim Agreement*), transformed to NAD83 using Natural Resources Canada NTV2 tool.

This zone is based on *Schedule XXII- Kelly Lake Protected Area*, from the *Sahtu Dene and Metis Comprehensive Land Claim Agreement (SDMCLCA)*, with described coordinates given on a scale of 1:50,000 as per NTS map sheets. For metes and bounds zone description, consult *Schedule XXII* from the above listed document.

Notes on methodology

This zone was digitised using the coordinates provided by *Schedule XXII* of the above mentioned land claim agreement, which are described using the NAD 1927 datum. These coordinates are transformed to NAD 1983 using Canada's NTV2 Transformation, an updated datum used for all other zones of the Sahtu Land Use Plan. Furthermore, as the parcels of land described in the above mentioned *Schedule XXII* were defined according to 1:50,000 NTS map sheets 96E/7, 96E/8, and 96E/9, for consistency, the boundaries defined by hydrological features (rivers) are taken from the hydrological layers from the CanVec (2017) dataset, which was partly created using NTS map sheets, thus following the original intent of what was written in the *Sahtu Dene and Metis Comprehensive Land Claim Agreement (SDMCLCA)*.

57. Lugedegíl Túde & Tuyehíla Túde (Kelly and Lennie Lakes) Conservation Zone

Datum: NAD83

A **500 m conservation buffer** is applied to the ordinary high water mark of both Kelly (approximate latitude 65°23'00" North and longitude 126°10'00" West) and Lennie (approximate latitude 65°33'00" North and longitude 126°32'00" West) lakes, using the hydrology layers from Natural Resources Canada's CanVec dataset (2017).

However, some areas of the buffer are erased as per the boundaries of the zone listed below, as it supersedes the conservation buffer.

- 56. Kelly Lake Protected Area (Land Claim).

Metes and bounds

No metes and bounds are described for this zone, as it is based on a buffer placed around lakes. For the boundaries of the zone that supersedes the conservation buffer for Kelly and Lennie Lakes, please refer to its respective zone description.

58. Doctor Lake Conservation Zone

Datum: NAD83

A **500 m conservation buffer** is applied to the ordinary high water mark of Doctor Lake (located at approximate latitude 65°48'30" North and longitude 126°12'00" West), using the hydrology layers from Natural Resources Canada's CanVec dataset (2017).

Metes and bounds

No metes and bounds are described for this zone, as it is based on a buffer placed around a lake.

59. Tuwí Túé (Mahony Lake) Conservation Zone

Datum: NAD83

A **500 m conservation buffer** is applied to the ordinary high water mark of Mahony Lake (located at approximate latitude 65°30'00" North and longitude 125°21'00" West), using the hydrology layers from Natural Resources Canada's CanVec dataset (2017), as well as to the Mahony Lake Massacre Site described by the Heritage Sites and Places Working Group (HSPWG) Traditional Knowledge data (1999).

Metes and bounds

No metes and bounds are described for this zone, as it is based on a buffer placed around a lake and a heritage site.

60. Three Day Lake Conservation Zone

Datum: NAD83

A **500 m conservation buffer** is applied to the ordinary high water mark of Three Day Lake (located at approximate latitude 65°08'30" N and longitude 126°46'00" W), using the hydrology layers from Natural Resources Canada's CanVec dataset (2017).

Metes and bounds

No metes and bounds are described for this zone, as it is based on a buffer placed around a lake.

61. K'áájłó Túé CZ (Willow Lake) Conservation Zone

Datum: NAD83

A **1 km conservation buffer** is applied to the ordinary high water mark of Willow Lake (also known as Brackett Lake) (located at approximate latitude 65°12'30" North and longitude 125°21'00" West), Stone Lake (also known as Baton Lake) (located at approximate latitude 65°18'N and longitude 125°20'W), and small bodies of water around Loche River between Kelly and Willow Lakes, as well as bodies of water along the unnamed river from Stone Lake to Loche River, using the hydrology layers from Natural Resources Canada's CanVec dataset (2017).

However, some areas of the buffer are erased as per the boundaries of the zone listed below, as it supersedes the conservation buffer.

- 57. Luggedgíl Túé & Tuyehíla Túé (Kelly and Lennie Lakes).

Notes on methodology

When creating the buffer and due to gaps between the small lakes in the wetland, isolated excluded areas are formed, being completely surrounded by the buffer. These areas are integrated into the conservation zone.

Metes and bounds

No metes and bounds are described for this zone, as it is based on a buffer placed around lakes and along rivers.

62. K'ááłq Túé SMZ (Willow Lake Wetlands) Special Management Zone

Datum: NAD83

The Willow Lake Wetlands Special Management Zone is loosely based on a part of the generalised boundaries of the Level IV North Mackenzie Plain LS Ecoregion (only for parts of the ecoregion that are north of the Great Bear River and northeast of Bear Rock), as described by the Northwest Territories Ecosystem Classification Reports, provided by a digital shapefile from the Department of Natural Resources, Government of the Northwest Territories (2013).

However, some areas of the special management zone are erased as per the boundaries of the zones listed below, as they supersede the special management zone.

- 57. Lugedegíl Túé & Tuyehíla Túé (Kelly and Lennie Lake) Conservation Zone;
- 61. K'ááłq Túé CZ (Willow Lake CZ) Conservation Zone.

Metes and bounds

1. Commencing at a point at latitude 65°03'31" North and longitude 124°43'19" West;
2. Thence southeasterly in a straight line to a point on the ordinary high water mark of the Northshore of the Great Bear River, using the hydrology layers from Natural Resources Canada's CanVec dataset (2017), at approximate latitude 65°01'50" North and longitude 124°42'37" West;
3. Thence generally westerly following the ordinary high water mark of the Great Bear River, using the hydrology layers from Natural Resources Canada's CanVec dataset (2017), to a point on the boundary of Zone 63 Deh Cho (Mackenzie River) Special Management Zone, at approximate latitude 64°56'39" North and longitude 125°31'09" West;
4. Thence generally westerly following the boundary of Zone 63 Deh Cho (Mackenzie River) Special Management Zone, to a point on the boundary of Zone 32 Petinırah (Bear Rock) Conservation Zone, at approximate latitude 64°56'59" North and longitude 125°39'47" West;
5. Thence generally northeasterly following the boundary of Zone 32 Petinırah (Bear Rock) Conservation Zone, to a point on the boundary of Zone 50 Norman Range Special Management Zone, at approximate latitude 64°58'50" North and longitude 125°40'32" West;
6. Thence generally northerly following the boundary of Zone 50 Norman Range Special Management Zone, to a point at latitude 65°23'00" North and longitude 125°45'59" West;
7. Thence northerly in a straight line to a point at latitude 65°24'34" North and longitude 125°45'50" West;
8. Thence northeasterly in a straight line to a point at latitude 65°24'49" North and longitude 125°44'27" West;
9. Thence easterly in a straight line to a point at latitude 65°24'53" North and longitude 125°42'38" West;

10. Thence easterly in a straight line to a point at latitude $65^{\circ}24'23''$ North and longitude $125^{\circ}37'26''$ West;
11. Thence easterly in a straight line to a point at latitude $65^{\circ}22'50''$ North and longitude $125^{\circ}26'28''$ West;
12. Thence southeasterly in a straight line to a point at latitude $65^{\circ}22'11''$ North and longitude $125^{\circ}24'44''$ West;
13. Thence southeasterly in a straight line to a point at latitude $65^{\circ}21'12''$ North and longitude $125^{\circ}23'14''$ West;
14. Thence southeasterly in a straight line to a point at latitude $65^{\circ}20'35''$ North and longitude $125^{\circ}23'06''$ West;
15. Thence southeasterly in a straight line to a point at latitude $65^{\circ}19'04''$ North and longitude $125^{\circ}17'56''$ West;
16. Thence easterly in a straight line to a point at latitude $65^{\circ}20'09''$ North and longitude $125^{\circ}16'00''$ West;
17. Thence easterly in a straight line to a point at latitude $65^{\circ}20'44''$ North and longitude $125^{\circ}10'34''$ West;
18. Thence southeasterly in a straight line to a point at latitude $65^{\circ}20'28''$ North and longitude $125^{\circ}09'25''$ West;
19. Thence southeasterly in a straight line to a point at latitude $65^{\circ}17'40''$ North and longitude $125^{\circ}03'20''$ West;
20. Thence southwesterly in a straight line to a point at latitude $65^{\circ}17'00''$ North and longitude $125^{\circ}04'10''$ West;
21. Thence southerly in a straight line to a point at latitude $65^{\circ}16'28''$ North and longitude $125^{\circ}04'05''$ West;
22. Thence southeasterly in a straight line to a point at latitude $65^{\circ}16'04''$ North and longitude $125^{\circ}03'35''$ West;
23. Thence southeasterly in a straight line to a point at latitude $65^{\circ}15'13''$ North and longitude $124^{\circ}59'17''$ West;
24. Thence southeasterly in a straight line to a point at latitude $65^{\circ}13'09''$ North and longitude $124^{\circ}56'09''$ West;
25. Thence southeasterly in a straight line to a point at latitude $65^{\circ}08'16''$ North and longitude $124^{\circ}50'53''$ West;
26. Thence southeasterly in a straight line to a point at latitude $65^{\circ}07'21''$ North and longitude $124^{\circ}48'24''$ West;

27. Thence southeasterly in a straight line to a point at latitude $65^{\circ}06'25''$ North and longitude $124^{\circ}46'26''$ West;
28. Thence southeasterly in a straight line to a point at latitude $65^{\circ}05'46''$ North and longitude $124^{\circ}45'24''$ West;
29. Thence southeasterly in a straight line to a point at latitude $65^{\circ}04'37''$ North and longitude $124^{\circ}44'00''$ West;
30. Thence southeasterly in a straight line to the point of commencement.

63. Deh Cho (Mackenzie River) Special Management Zone

Datum: NAD83

A **5 km special management buffer** is applied to the ordinary high water mark of the Mackenzie River, using the hydrology layers from Natural Resources Canada's CanVec dataset (2017).

However, some areas of the buffer are erased as per the boundaries of the zone listed below, as it supersedes the special management buffer.

- Fort Good Hope Community Boundary (Atlas Mapping System, Municipal and Community Affairs (MACA), Commissioner's Land Administration, Government of the Northwest Territories, 2016);
- Norman Wells Community Boundary (Atlas Mapping System, Municipal and Community Affairs (MACA), Commissioner's Land Administration, Government of the Northwest Territories, 2013);
- Norman Wells Block Land Transfer (Atlas Mapping System, Municipal and Community Affairs (MACA), Commissioner's Land Administration, Government of the Northwest Territories, 2013) General Use Zone;
- Tulita Community Boundary (Atlas Mapping System, Municipal and Community Affairs (MACA), Commissioner's Land Administration, Government of the Northwest Territories, 2012);
- 3. Shigago (Little Chicago) Special Management Zone;
- 15. Fossil Lake Conservation Zone;
- 32. Petinwah (Bear Rock) Conservation Zone;
- 36. Mio Lake Conservation Zone;
- 42. Faʔfa Nlǫ́né (Mountain River Extension) Conservation Zone;
- 62. K'áǫ́lǫ́ Túé SMZ (Willow Lake Wetlands) Special Management Zone;
- 64. Mackenzie River Islands Conservation Zone;
- 65. Ts'udé Nlǫ́né Tuyeta (Ramparts River and Wetlands) Proposed Conservation Initiative.

Notes on methodology

A small sliver polygon is formed when merging the zones together, between Zone 65 Ts'udé Nlǫ́né Tuyeta (Ramparts River and Wetlands) Proposed Conservation Initiative, Zone 15 Fossil Lake Conservation Zone, and this zone. As such, the area comprised by this sliver polygon is integrated into this zone, 63 Deh Cho (Mackenzie River) Special Management Zone.

Metes and bounds

No metes and bounds are described for this zone, as it is based on a buffer placed along a river. For the boundaries of the zones that supersede the special management buffer for the Mackenzie River, please refer to their respective zone description.

64. Mackenzie River Islands Conservation Zone

Datum: NAD83

The Mackenzie River Islands Conservation Zone include a number of islands that lie within Zone 63. Deh Cho (Mackenzie River) Special Management Zone in the K'asho Got'ıne District of the Sahtu Settlement Area. The limits of the islands are defined by the ordinary high water mark of the Mackenzie River, using the hydrology layers from Natural Resources Canada's CanVec dataset (2017). The islands included (with their names from the Geographical Names Data Base, provided by Natural Resources Canada) and their approximate coordinates are as follows.

- **64A.** Unnamed islands near The Grand View, at approximate latitude 66°50'00" North and longitude 130°08'00" West – includes all 3 large parts that form the island;
- **64B.** Askew islands, at approximate latitude 66°41'00" North and longitude 129°30'00" West – includes the 2 large parts that form the island;
- **64C.** Unnamed island north of Fort Good Hope, at approximate latitude 66°20'30" North and longitude 128°41'00" West;
- **64D.** Hume Island, at approximate latitude 66°05'00" North and longitude 129°08'00" West;
- **64E.** Unnamed island north of Snafu Creek, at approximate latitude 65°59'00" North and longitude 129°02'30" West;
- **64F.** Unnamed island north of Snafu Creek, at approximate latitude 65°56'45" North and longitude 129°02'45" West;
- **64G.** Unnamed island south of Snafu Creek, at approximate latitude 65°53'15" North and longitude 129°02'00" West;
- **64H.** Hardie Island, at approximate latitude 65°50'00" North and longitude 128°58'00" West;
- **64I.** Axel Island, at approximate latitude 65°38'30" North and longitude 128°38'00" West.

Metes and bounds

No metes and bounds are described for this zone, as it is based on the extent of specific islands on the Mackenzie River in the K'asho Got'ıne District.

65. Ts'udé Njłjné Tuyeta (Ramparts River and Wetlands) Proposed Conservation Initiative

Datum: NAD83

This zone is based on an order (Ts'udé Njłjné Tuyeta (Ramparts River and Wetlands)) of the Governor General in Council, numbered SI/2013-125. As required by the *Northwest Territories Lands and Resources Devolution Agreement*, this order was substantially mirrored as R-059-2014, in force April 1, 2014. As the order has since expired, the verbatim metes and bounds follow, as written in the order.

Additional Information

Not indicated in the Land Withdrawal order is that the following Sahtu Settlement Lands Parcels are excluded, where the Proposed Conservation Initiative does not apply.

- Sahtu Settlement Lands Parcel M5, according to Plan Number 102129-1 CLSR NT;
- Sahtu Settlement Lands Parcel M6, according to Plan Number 90220 CLSR NT;
- Sahtu Settlement Lands Parcel 14, according to Plan Number 102129-1 CLSR NT;
- Sahtu Parcel 21, according to Plan Number 102106-1 CLSR NT.

This zone's boundaries along the Mountain and Mackenzie Rivers were modified from what is listed in in the Land Withdrawal Order, where it is listed that they are to follow hydrology at a scale of 1:250,000 using Edition 2 NTS map sheets. However, they were modified to follow the hydrology layers from Natural Resources Canada's CanVec dataset (2017) at a scale of 1:50,000, as to be consistent with the other zones.

Metes and bounds (as written in the expired land withdrawal order)

- All that parcel of land more particularly described as follows, all topographic features referred to in this Schedule being according to:
- Edition 2 of the Ramparts River map sheet number 106G of the National Topographic System produced at a scale of 1:250,000 by the Canada Centre for Mapping, Department of Energy, Mines and Resources, at Ottawa;
- Edition 2 of the Sans Sault Rapids map sheet number 106H of the National Topographic System produced at a scale of 1:250,000 by the Canada Centre for Mapping, Department of Energy, Mines and Resources, at Ottawa;
- Edition 2 of the Fort Good Hope map sheet number 106I of the National Topographic System produced at a scale of 1:250,000 by the Surveys and Mapping Branch, Department of Energy, Mines and Resources, at Ottawa;
- Edition 2 of the Ontaratue River map sheet number 106J of the National Topographic System produced at a scale of 1:250,000 by the Surveys and Mapping Branch, Department of Energy, Mines and Resources, at Ottawa;
- Commencing at a point at the intersection of the easterly boundary of the Gwich'in Settlement Area (as defined in Appendix A of the Gwich'in Comprehensive Land Claim Agreement) with latitude 66°23'49" North at approximate longitude 132°00'08" West;
- Thence northeasterly in a straight line to the intersection of latitude 66°33'39" North and longitude 131°31'41" West;

- Thence northeasterly in a straight line to the intersection of latitude 66°38'52" North and longitude 130°59'31" West;
- Thence easterly in a straight line to the intersection of latitude 66°39'58" North and longitude 130°34'01" West;
- Thence southeasterly in a straight line to the intersection of latitude 66°37'57" North and longitude 130°09'19" West;
- Thence southeasterly in a straight line to the intersection of latitude 66°29'36" North and longitude 129°21'04" West;
- Thence southeasterly in a straight line to the intersection of latitude 66°21'21" North and longitude 129°01'26" West;
- Thence southeasterly in a straight line to the intersection of the southeasterly bank of an unnamed stream with the west bank of the Mackenzie River at approximate latitude 66°17'22" North and approximate longitude 128°42'08" West;
- Thence southerly along the west bank of the Mackenzie River to the intersection of the northerly bank of the Mountain River at approximate latitude 65°41'47" North and approximate longitude 128°50'09" West;
- Thence generally southwesterly, northwesterly, westerly and southwesterly along the bank of the Mountain River to the intersection of latitude 65°33'34" North at approximate longitude 129°16'09" West;
- Thence southwesterly in a straight line to the intersection of latitude 65°22'27" North and longitude 129°25'46" West;
- Thence westerly in a straight line to the intersection of latitude 65°22'03" North and longitude 129°38'26" West;
- Thence southwesterly in a straight line to the intersection of latitude 65°08'38" North and longitude 129°52'51" West;
- Thence westerly in a straight line to the intersection of latitude 65°08'31" North and longitude 130°09'41" West;
- Thence southwesterly in a straight line to the intersection of latitude 65°03'06" North and longitude 130°16'29" West;
- Thence westerly in a straight line to the intersection of the easterly boundary of the said Gwich'in Settlement Area with latitude 65°04'05" North at approximate longitude 130°40'07" West;
- Thence northerly along the easterly boundary of the said Gwich'in Settlement Area to the point of commencement.
- Containing an area of approximately 14 700 km².
- All coordinates are referred to the 1983 North American Datum, Canadian Spatial Reference System (NAD83 CSRS) and any references to straight lines mean points joined directly on the NAD83 Universal Transverse Mercator (UTM) projection plane surface.

66. Tuktut Nogait (Sahtú Expansion) Proposed Conservation Initiative

Datum: NAD83

This zone is based on the shapefile provided by Parks Canada Agency for the Tuktut Nogait National Park of Canada. As the *Canada National Parks Act* has not yet been amended to include the Tuktut Nogait National Park, it remains a Proposed Conservation Initiative under the Sahtú Land Use Plan.

General Use Zones

Datum: NAD83

GUZs other than the Norman Wells Block Land Transfer GUZ include all areas that fall within the SSA that do not fall within the SLUP zones described in this document or other areas such as Community Boundaries or Established National Park Reserves and/or Historic Sites. GUZs do not have any identifying name or specific zone description.

The Norman Wells Block Land Transfer GUZ is based on the Norman Wells Block Land Transfer (P.C. 1973-293) data from the Atlas Mapping System, Government of the Northwest Territories, but excludes the Town of Norman Wells. This is to avoid overlapping of Community Boundaries and GUZs.

Other Areas

The SLUP does not apply to areas within a Community Boundary or Established National Park Reserve and/or Historic Site. However, these are included in this document as they have shared boundaries with SLUP zones, and are included in the SLUP's spatial data as reference.

Community Boundary

Datum: NAD83

Community boundaries are not part of the SLUP's zoning, although are included in the spatial data as reference. These are based on data from the Atlas Mapping System, Government of the Northwest Territories. It was made sure and confirmed that these mapped boundaries are the same as what is written in the Délı̄nę Final Self-Government Agreement.

The following are the community boundaries included in the SLUP spatial data, along with their designation.

- Délı̄nę Community Boundary;
- Tulıt'a Community Boundary;
- Norman Wells Community Boundary;
- Fort Good Hope Community Boundary;
- Colville Lake Community Boundary.

Nááts'ı̄hch'oh National Park Reserve of Canada

Datum: NAD83

This is not a SLUP zone as it is a National Park Reserve of Canada, however, it is included in the SLUP maps and spatial data. The spatial data is based on the shapefile provided by Parks Canada Agency (2012), which references the coordinates listed in the *Canada National Parks Act (Nááts'ı̄hch'oh National Park Reserve of Canada)*.

Saoyú-ʔehdacho (Grizzly Bear Mountain and Scented Grass Hills) National Historic Site of Canada

Datum: NAD83

This is not a SLUP zone as it is a National Historic Site of Canada, however, it is included in the SLUP maps and spatial data. The spatial data is based on the shapefile provided by Parks Canada Agency, which references coordinates from an order of the Governor General in Council, numbered SI/2009-94 and registered on September 30, 2009, that withdraws from disposal certain tracts of territorial lands to facilitate the establishment of the Saoyú-ʔehdacho (Grizzly Bear Mountain and Scented Grass Hills) National Historic Site of Canada. As required by the *Northwest Territories Lands and Resources Devolution Agreement*, this order was substantially mirrored as NWT Reg-057-2014, in force April 1, 2014.