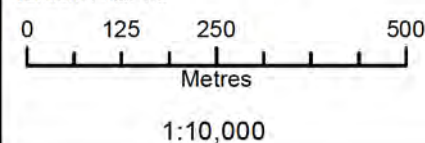




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Land Base
 — Transmission Line
 — Highway
 — Major Road
 — Local Road
 - - - Winter Road
 — Railway (Operational)
 - - - Railway (Discontinued)
 Mining
 Provincial Park

Project Infrastructure
 * Angle Tower Locations*
 * Towers (Preliminary)*
 — BPIII Final Preferred Route
 — 66 m Right of Way
 *Towers are subject to change, and are only used as a rough guide
Sensitive Sites*
 • Point Features
 — Linear Features
 — Area Features
 *Currently outside the Project footprint

Points of Access*
 • Proposed Access Point
 • Major Stream Crossing
 • Abandoned Rail Crossing
 • Rail Crossing
 • Transmission Line Crossing
 • Bypass Trails
 • Approved Access Route

ESS Features
Water
 • Water Crossing
Soils and Terrain
 • Permafrost

Bipole III Transmission Project Construction Environmental Protection Plan Construction Section N2 Environmentally Sensitive Site Locations

ESS Group: Water Crossing

Sec-Seg ID	ESS ID	ESS Name	Easting	Northing	UTM Zone	Channel Width	Wet Width	Fish Habitat Class	Habitat Sensitivity
N2-S12	N2-Aqua-142	Unnamed Tributary connecting Gordon Brown Lake and Wintering Lake	570109	6140220	14N	120m	60m	Moderate	Marginal
N2-S12	N2-Aqua-143	Unnamed Tributary of Wintering Lake	569331	6139504	14N	11.8m	11.8m	Low	Important
N2-S12	N2-Aqua-144	Unnamed Tributary into Gordon Brown Lake	568748	6138968	14N	62.6m	N/A	Moderate	Marginal

Potential Effects:

Habitat loss and contamination from structure foundations & installations; increased erosion & sedimentation of streams; Damage to stream banks; Loss of riparian vegetation; Fish habitat disturbances and impeded fish movement; Rutting of floodplain

Specific Mitigation:

- Carry out construction activities on frozen ground to minimize surface damage, rutting and erosion
- Use existing trails, roads or cut lines whenever possible as access routes
- Identify and flag buffer areas prior to start of work
- Riparian Buffers shall be a minimum of 30m and increase in size based on slope of land entering waterway. Within these buffers shrub and herbaceous understory veg will be maintained along with trees that do not violate MH Veg Clearance Requirements.
- 7m no machine zone will restrict equipment in close proximity to the waterbody except at the trail crossing.
- No instream works or fording from April 1 - July 15

ESS Group: Permafrost

Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
N2-S12	N2-Soils-132	Permafrost	Site: 207 to 208	E-570084 N-6140196	E-570052 N-6140166	14N	44 m
N2-S12	N2-Soils-132	Permafrost	Site: 209 to 210	E-569353 N-6139524	E-569302 N-6139477	14N	68 m
N2-S12	N2-Soils-132	Permafrost	Site: 211 to 212	E-568832 N-6139045	E-568264 N-6138522	14N	771 m
N2-S12	N2-Soils-133	Permafrost	Site: 213 to 214	E-568137 N-6138406	E-568065 N-6138339	14N	98 m
N2-S12	N2-Soils-133	Permafrost	Site: 215 to 216	E-567956 N-6138239	E-567841 N-6138133	14N	155 m

Potential Effects:

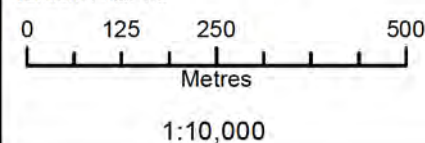
Melting or loss of permafrost due to disturbance of the active layer

Specific Mitigation:

- Carry out construction activities on frozen ground to minimize surface damage and rutting.
- Use existing trails, roads or cut lines whenever possible as access routes
- Maintain shrub and herbaceous vegetation to the extent possible
- Remove trees by low-disturbance methods
- Confine vehicle traffic to established trails to the extent possible
- Implement erosion protection before commencing construction in accordance with Erosion/Sediment Control Plan



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Land Base

- Transmission Line
- Highway
- Major Road
- Local Road
- Winter Road
- Railway (Operational)
- Railway (Discontinued)
- Mining
- Provincial Park

Project Infrastructure

- Angle Tower Locations*
- Towers (Preliminary)*
- BPIII Final Preferred Route
- 66 m Right of Way

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Sensitive Sites*

- Point Features
- Linear Features
- Area Features

*Currently outside the Project footprint

Points of Access*

- Proposed Access Point
- Major Stream Crossing
- Abandoned Rail Crossing
- Rail Crossing
- Transmission Line Crossing
- Bypass Trails
- Approved Access Route

ESS Features

Soils and Terrain

- Permafrost

Bipole III Transmission Project **Construction Environmental Protection Plan** **Construction Section N2** **Environmentally Sensitive Site Locations**

ESS Group: Permafrost

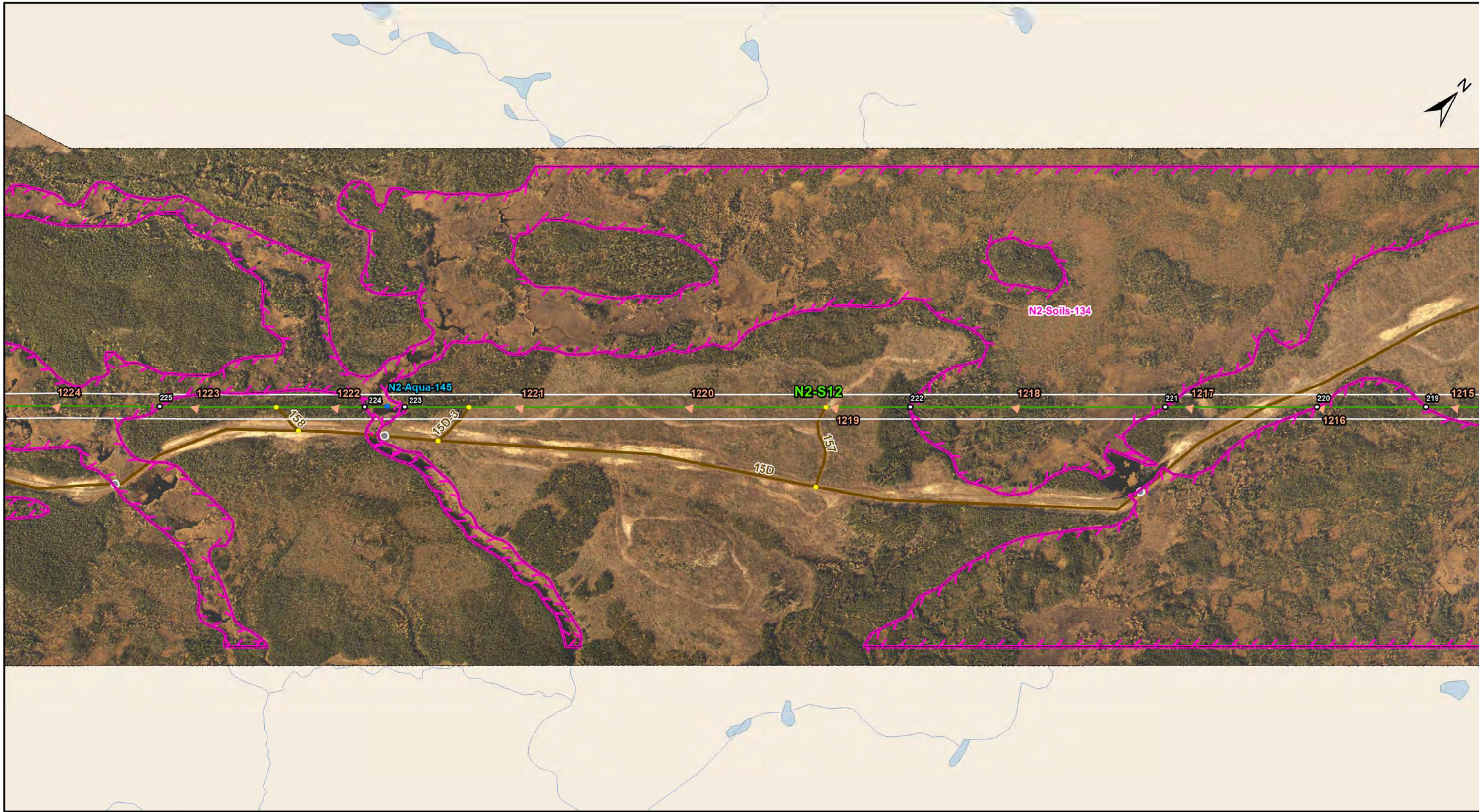
Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
N2-S12	N2-Soils-134	Permafrost	Site: 217 to 218	E-564904 N-6135432	E-564392 N-6134961	14N	696m

Potential Effects:

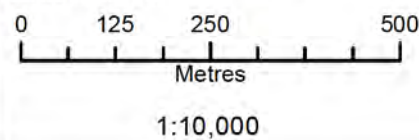
Melting or loss of permafrost due to disturbance of the active layer

Specific Mitigation:

- Carry out construction activities on frozen ground to minimize surface damage and rutting.
- Use existing trails, roads or cut lines whenever possible as access routes
- Maintain shrub and herbaceous vegetation to the extent possible
- Remove trees by low-disturbance methods
- Confine vehicle traffic to established trails to the extent possible
- Implement erosion protection before commencing construction in accordance with Erosion/Sediment Control Plan



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- Land Base**
- Transmission Line
 - Highway
 - Major Road
 - Local Road
 - Winter Road
 - Railway (Operational)
 - Railway (Discontinued)
 - Mining
 - Provincial Park

- Project Infrastructure**
- Angle Tower Locations*
 - Towers (Preliminary)*
 - BPIII Final Preferred Route
 - 66 m Right of Way
- *Towers are subject to change, and are only used as a rough guide
- Sensitive Sites***
- Point Features
 - Linear Features
 - Area Features
- *Currently outside the Project footprint

- Points of Access***
- Proposed Access Point
 - Major Stream Crossing
 - Abandoned Rail Crossing
 - Rail Crossing
 - Transmission Line Crossing
 - Bypass Trails
 - Approved Access Route

- ESS Features**
- Water**
- Water Crossing
- Soils and Terrain**
- Permafrost

Bipole III Transmission Project
Construction Environmental Protection Plan
 Construction Section N2
 Environmentally Sensitive Site Locations

ESS Group: Water Crossing

Sec-Seg ID	ESS ID	ESS Name	Easting	Northing	UTM Zone	Channel Width	Wet Width	Fish Habitat Class	Habitat Sensitivity
N2-S12	N2-Aqua-145	Unnamed Tributary into Wintering Lake	562137	6132888	14N	33.5m	33.5m	Moderate	Marginal

Potential Effects:

Habitat loss and contamination from structure foundations & installations; increased erosion & sedimentation of streams; Damage to stream banks; Loss of riparian vegetation; Fish habitat disturbances and impeded fish movement; Rutting of floodplain

Specific Mitigation:

- Carry out construction activities on frozen ground to minimize surface damage, rutting and erosion
- Use existing trails, roads or cut lines whenever possible as access routes
- Identify and flag buffer areas prior to start of work
- Riparian Buffers shall be a minimum of 30m and increase in size based on slope of land entering waterway. Within these buffers shrub and herbaceous understory veg will be maintained along with trees that do not violate MH Veg Clearance Requirements.
- 7m no machine zone will restrict equipment in close proximity to the waterbody except at the trail crossing.
- No instream works or fording from April 1 - July 15

ESS Group: Permafrost

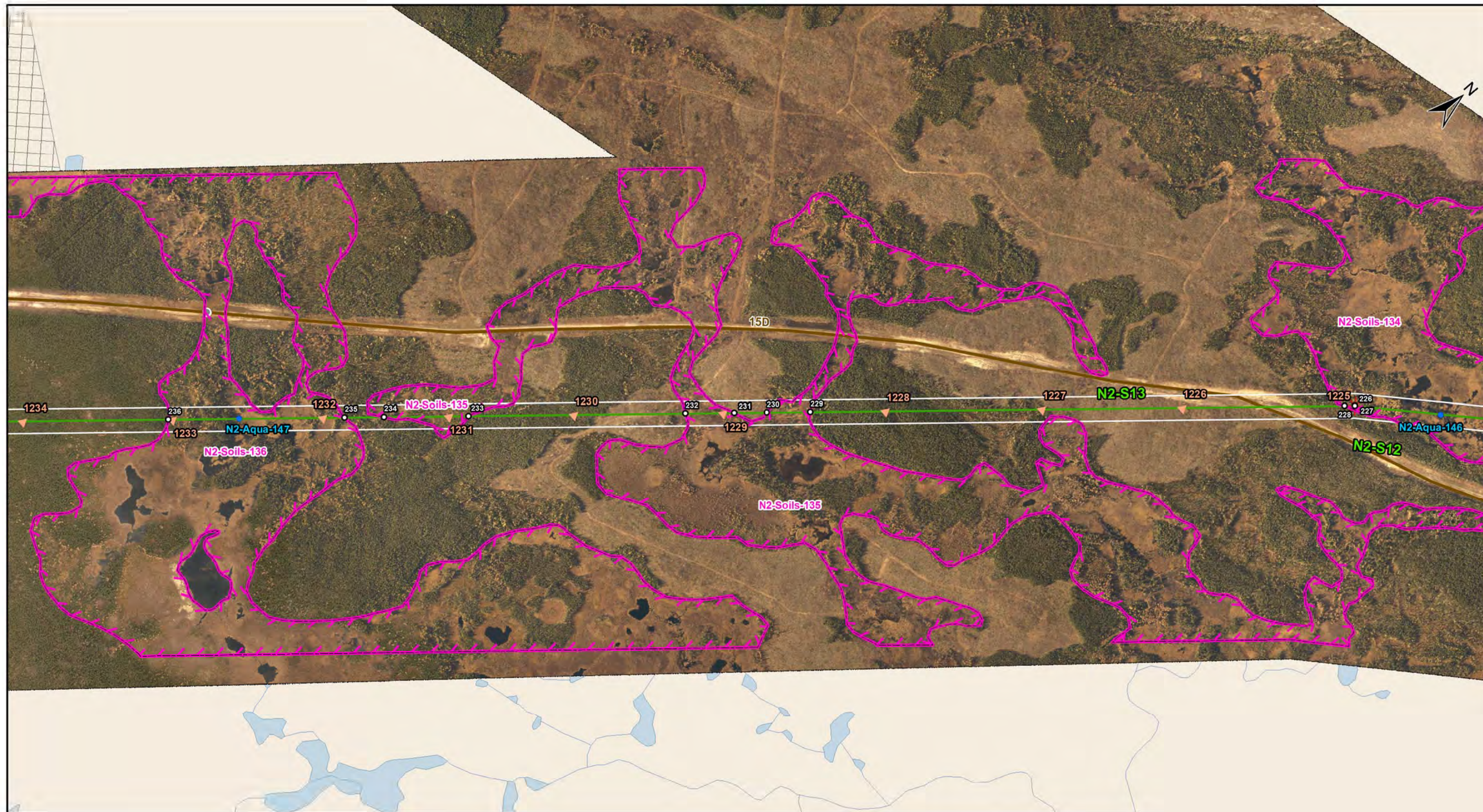
Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
N2-S12	N2-Soils-134	Permafrost	Site: 219 to 220	E-564209 N-6134793	E-563992 N-6134594	14N	294m
N2-S12	N2-Soils-134	Permafrost	Site: 221 to 222	E-563690 N-6134315	E-563181 N-6133848	14N	690m
N2-S12	N2-Soils-134	Permafrost	Site: 223 to 224	E-562173 N-6132920	E-562092 N-6132846	14N	109m
N2-S12	N2-Soils-134	Permafrost	Site: 225 to 226	E-561683 N-6132471	E-561159 N-6131988	14N	713m

Potential Effects:

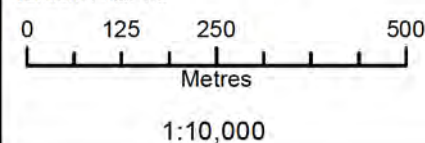
Melting or loss of permafrost due to disturbance of the active layer

Specific Mitigation:

- Carry out construction activities on frozen ground to minimize surface damage and rutting.
- Use existing trails, roads or cut lines whenever possible as access routes
- Maintain shrub and herbaceous vegetation to the extent possible
- Remove trees by low-disturbance methods
- Confine vehicle traffic to established trails to the extent possible
- Implement erosion protection before commencing construction in accordance with Erosion/Sediment Control Plan



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Land Base

- Transmission Line
- Highway
- Major Road
- Local Road
- Winter Road
- Railway (Operational)
- Railway (Discontinued)
- Mining
- Provincial Park

Project Infrastructure

- Angle Tower Locations*
- Towers (Preliminary)*
- BPIII Final Preferred Route
- 66 m Right of Way

*Towers are subject to change, and are only used as a rough guide

Sensitive Sites*

- Point Features
- Linear Features
- Area Features

*Currently outside the Project footprint

Points of Access*

- Proposed Access Point
- Major Stream Crossing
- Abandoned Rail Crossing
- Rail Crossing
- Transmission Line Crossing
- Bypass Trails
- Approved Access Route

ESS Features

Water

- Water Crossing

Soils and Terrain

- Permafrost

Bipole III Transmission Project Construction Environmental Protection Plan

Construction Section N2 Environmentally Sensitive Site Locations

ESS Group: Water Crossing

Sec-Seg ID	ESS ID	ESS Name	Easting	Northing	UTM Zone	Channel Width	Wet Width	Fish Habitat Class	Habitat Sensitivity
N2-S12	N2-Aqua-146	Unnamed Tributary into Wintering Lake	561332	6132147	14N	225.6m	N/A	Moderate	Marginal
N2-S13	N2-Aqua-147	Unnamed Tributary into Wintering Lake	559187	6129698	14N	110.1m	N/A	Moderate	Marginal

Potential Effects:

Habitat loss and contamination from structure foundations & installations; increased erosion & sedimentation of streams; Damage to stream banks; Loss of riparian vegetation; Fish habitat disturbances and impeded fish movement; Rutting of floodplain

Specific Mitigation:

- Carry out construction activities on frozen ground to minimize surface damage, rutting and erosion
- Use existing trails, roads or cut lines whenever possible as access routes
- Identify and flag buffer areas prior to start of work
- Riparian Buffers shall be a minimum of 30m and increase in size based on slope of land entering waterway. Within these buffers shrub and herbaceous understory veg will be maintained along with trees that do not violate MH Veg Clearance Requirements.
- 7m no machine zone will restrict equipment in close proximity to the waterbody except at the trail crossing.
- No instream works or fording from April 1 - July 15

ESS Group: Permafrost

Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
N2-S12	N2-Soils-134	Permafrost	Site: 225 to 226	E-561683 N-6132471	E-561159 N-6131988	14N	713 m
N2-S13	N2-Soils-134	Permafrost	Site: 227 to 228	E-561159 N-6131988	E-561141 N-6131966	14N	28 m
N2-S13	N2-Soils-135	Permafrost	Site: 229 to 230	E-560200 N-6130867	E-560123 N-6130776	14N	118 m
N2-S13	N2-Soils-135	Permafrost	Site: 231 to 232	E-560066 N-6130709	E-559980 N-6130609	14N	132 m
N2-S13	N2-Soils-135	Permafrost	Site: 233 to 234	E-559599 N-6130163	E-559450 N-6129989	14N	228 m
N2-S13	N2-Soils-136	Permafrost	Site: 235 to 236	E-559380 N-6129907	E-559071 N-6129545	14N	475 m

Potential Effects:

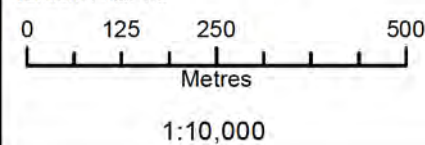
Melting or loss of permafrost due to disturbance of the active layer

Specific Mitigation:

- Carry out construction activities on frozen ground to minimize surface damage and rutting.
- Use existing trails, roads or cut lines whenever possible as access routes
- Maintain shrub and herbaceous vegetation to the extent possible
- Remove trees by low-disturbance methods
- Confine vehicle traffic to established trails to the extent possible
- Implement erosion protection before commencing construction in accordance with Erosion/Sediment Control Plan



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Land Base

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Project Infrastructure

- Angle Tower Locations*
- Towers (Preliminary)*
- BPIII Final Preferred Route
- 66 m Right of Way

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Sensitive Sites*

- Point Features
- Linear Features
- Area Features

*Currently outside the Project footprint

Points of Access*

- Proposed Access Point
- Major Stream Crossing
- Abandoned Rail Crossing
- Rail Crossing
- Transmission Line Crossing
- Bypass Trails
- Approved Access Route

ESS Features

Water

- Water Crossing

Soils and Terrain

- Permafrost

Bipole III Transmission Project **Construction Environmental Protection Plan** **Construction Section N2** **Environmentally Sensitive Site Locations**

ESS Group: Water Crossing

Sec-Seg ID	ESS ID	ESS Name	Easting	Northing	UTM Zone	Channel Width	Wet Width	Fish Habitat Class	Habitat Sensitivity
N2-S13	N2-Aqua-148	Unnamed Tributary into Wintering Lake	558358	6128723	14N	N/A	N/A	Low	Marginal

Potential Effects:

Habitat loss and contamination from structure foundations & installations; increased erosion & sedimentation of streams; Damage to stream banks; Loss of riparian vegetation; Fish habitat disturbances and impeded fish movement; Rutting of floodplain

Specific Mitigation:

- Carry out construction activities on frozen ground to minimize surface damage, rutting and erosion
- Use existing trails, roads or cut lines whenever possible as access routes
- Identify and flag buffer areas prior to start of work
- Riparian Buffers shall be a minimum of 30m and increase in size based on slope of land entering waterway. Within these buffers shrub and herbaceous understory veg will be maintained along with trees that do not violate MH Veg Clearance Requirements.
- 7m no machine zone will restrict equipment in close proximity to the waterbody except at the trail crossing.
- No instream works or fording from April 1 - July 15

ESS Group: Permafrost

Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
N2-S13	N2-Soils-137	Permafrost	Site: 237 to 238	E-558402 N-6128763	E-558334 N-6128683	14N	104 m
N2-S13	N2-Soils-138	Permafrost	Site: 239 to 240	E-557376 N-6127563	E-556983 N-6127103	14N	605 m
N2-S14	N2-Soils-138	Permafrost	Site: 241 to 242	E-556520 N-6126576	E-556381 N-6126432	14N	199 m
N2-S14	N2-Soils-138	Permafrost	Site: 243 to 244	E-556311 N-6126359	E-556274 N-6126321	14N	53 m

Potential Effects:

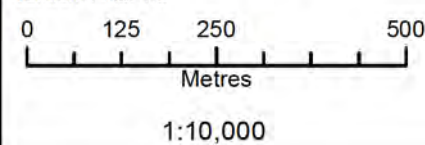
Melting or loss of permafrost due to disturbance of the active layer

Specific Mitigation:

- Carry out construction activities on frozen ground to minimize surface damage and rutting.
- Use existing trails, roads or cut lines whenever possible as access routes
- Maintain shrub and herbaceous vegetation to the extent possible
- Remove trees by low-disturbance methods
- Confine vehicle traffic to established trails to the extent possible
- Implement erosion protection before commencing construction in accordance with Erosion/Sediment Control Plan



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Land Base

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Project Infrastructure

- Angle Tower Locations*
- Towers (Preliminary)*
- BPIII Final Preferred Route
- 66 m Right of Way

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Sensitive Sites*

- Point Features
- Linear Features
- Area Features

*Currently outside the Project footprint

Points of Access*

- Proposed Access Point
- Major Stream Crossing
- Abandoned Rail Crossing
- Rail Crossing
- Transmission Line Crossing
- Bypass Trails
- Approved Access Route

ESS Features

Water

- Water Crossing

Soils and Terrain

- Permafrost

Bipole III Transmission Project **Construction Environmental Protection Plan** **Construction Section N2** **Environmentally Sensitive Site Locations**

ESS Group: Water Crossing

Sec-Seg ID	ESS ID	ESS Name	Easting	Northing	UTM Zone	Channel Width	Wet Width	Fish Habitat Class	Habitat Sensitivity
N2-S14	N2-Aqua-149	Patrick Creek	554579	6124560	14N	7m	9m	Moderate	Important
N2-S15	N2-Aqua-150	Halfway River	553549	6124053	14N	18m	18m	Low	Important

Potential Effects:

Habitat loss and contamination from structure foundations & installations; increased erosion & sedimentation of streams; Damage to stream banks; Loss of riparian vegetation; Fish habitat disturbances and impeded fish movement; Rutting of floodplain

Specific Mitigation:

- Carry out construction activities on frozen ground to minimize surface damage, rutting and erosion
- Use existing trails, roads or cut lines whenever possible as access routes
- Identify and flag buffer areas prior to start of work
- Riparian Buffers shall be a minimum of 30m and increase in size based on slope of land entering waterway. Within these buffers shrub and herbaceous understory veg will be maintained along with trees that do not violate MH Veg Clearance Requirements.
- 7m no machine zone will restrict equipment in close proximity to the waterbody except at the trail crossing.
- No instream works or fording from April 1 - July 15

ESS Group: Species of Concern

Sec-Seg ID	ESS ID	ESS Name	Easting	Northing	UTM Zone
N2-S15	N2-Eco-300	Plant species of concern	553581	6124010	14N

Potential Effects:

Plant species of concern

Specific Mitigation:

- Identify and flag prior to start of work
- Carry out construction activities on frozen or dry ground to minimize surface damage, rutting and erosion.
- Provide 5m vegetated (shrub and herbaceous) buffer around site
- Remove trees by low-disturbance methods
- Confine vehicle traffic to established trails to the extent possible

ESS Group: Permafrost

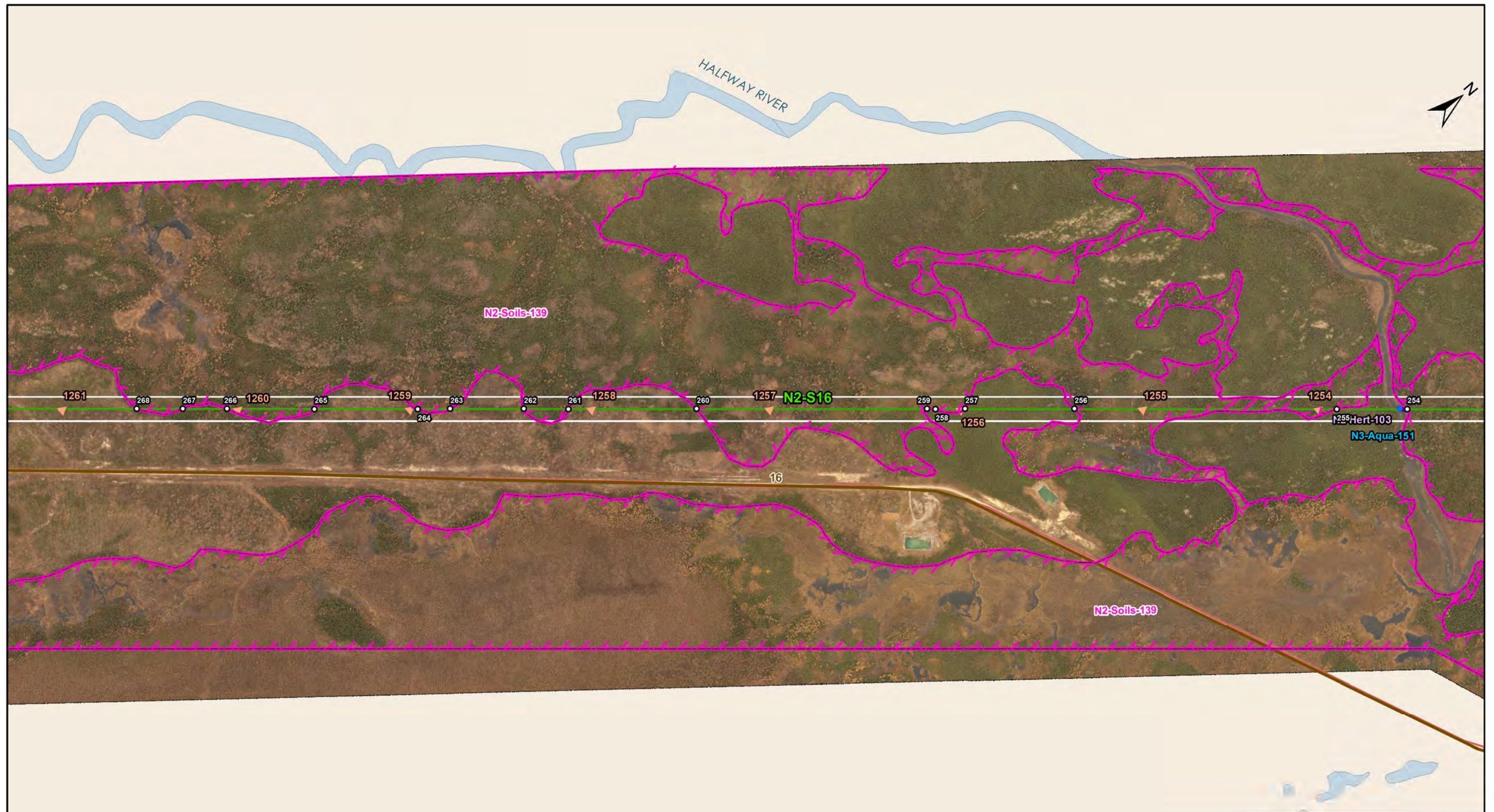
Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
N2-S14	N2-Soils-138	Permafrost	Site: 245 to 246	E-556014 N-6126050	E-555963 N-6125998	14N	73 m
N2-S14	N2-Soils-138	Permafrost	Site: 247 to 248	E-555346 N-6125356	E-555269 N-6125277	14N	110 m
N2-S15	N2-Soils-139	Permafrost	Site: 249 to 250	E-554101 N-6124269	E-553792 N-6124147	14N	332 m
N2-S15	N2-Soils-140	Permafrost	Site: 251 to 252	E-553497 N-6124031	E-553135 N-6123889	14N	388 m
N2-S16	N2-Soils-140	Permafrost	Site: 253 to 254	E-553135 N-6123889	E-552987 N-6123714	14N	228 m

Potential Effects:

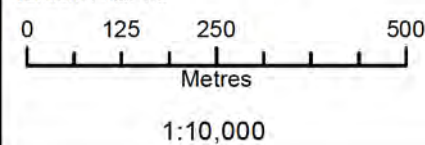
Melting or loss of permafrost due to disturbance of the active layer

Specific Mitigation:

- Carry out construction activities on frozen ground to minimize surface damage and rutting.
- Use existing trails, roads or cut lines whenever possible as access routes
- Maintain shrub and herbaceous vegetation to the extent possible
- Remove trees by low-disturbance methods
- Confine vehicle traffic to established trails to the extent possible
- Implement erosion protection before commencing construction in accordance with Erosion/Sediment Control Plan



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Land Base

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- Mining
- Provincial Park

Project Infrastructure

- Angle Tower Locations*
- Towers (Preliminary)*
- BPIII Final Preferred Route
- 66 m Right of Way

*Towers are subject to change, and are only used as a rough guide

Sensitive Sites*

- Point Features
- Linear Features
- Area Features

*Currently outside the Project footprint

Points of Access*

- Proposed Access Point
- Major Stream Crossing
- Abandoned Rail Crossing
- Rail Crossing
- Transmission Line Crossing
- Bypass Trails
- Approved Access Route

ESS Features

Heritage

- Archaeological

Water

- Water Crossing

Soils and Terrain

- Permafrost

Bipole III Transmission Project **Construction Environmental Protection Plan** **Construction Section N2** **Environmentally Sensitive Site Locations**

ESS Group: Archaeological

Sec-Seg ID	ESS ID	ESS Name	Easting	Northing	UTM Zone
N2-S16	N2-Hert-103	Halfway River Identified Aug 2010	552977	6123702	14N

Potential Effects:

potential disturbance to heritage Resources

Specific Mitigation:

- Carry out construction activities on frozen or dry ground to minimize surface damage, rutting and erosion
- Identify and flag prior to start of work
- Conduct site investigation with Archaeologist post clearing and prior to construction
- Minimize surface disturbance around the site to the extent possible
- Inspect excavated materials or surface disturbance for heritage resources and report any finds to Environmental Inspector
- Implement additional mitigation from site investigation

ESS Group: Water Crossing

Sec-Seg ID	ESS ID	ESS Name	Easting	Northing	UTM Zone	Channel Width	Wet Width	Fish Habitat Class	Habitat Sensitivity
N2-S16	N2-Aqua-151	Halfway River	552974	6123698	14N	12m	12m	Low	Important

Potential Effects:

Habitat loss and contamination from structure foundations & installations; increased erosion & sedimentation of streams; Damage to stream banks; Loss of riparian vegetation; Fish habitat disturbances and impeded fish movement; Rutting of floodplain

Specific Mitigation:

- Carry out construction activities on frozen ground to minimize surface damage, rutting and erosion
- Use existing trails, roads or cut lines whenever possible as access routes
- Identify and flag buffer areas prior to start of work
- Riparian Buffers shall be a minimum of 30m and increase in size based on slope of land entering waterway. Within these buffers shrub and herbaceous understory veg will be maintained along with trees that do not violate MH Veg Clearance Requirements.
- 7m no machine zone will restrict equipment in close proximity to the waterbody except at the trail crossing.
- No instream works or fording from April 1 - July 15

ESS Group: Permafrost

Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
N2-S16	N2-Soils-139	Permafrost	Site: 255 to 256	E-552864 N-6123569	E-552405 N-6123025	14N	711 m
N2-S16	N2-Soils-139	Permafrost	Site: 257 to 258	E-552214 N-6122799	E-552162 N-6122738	14N	79 m
N2-S16	N2-Soils-139	Permafrost	Site: 259 to 260	E-552147 N-6122720	E-551744 N-6122243	14N	624 m
N2-S16	N2-Soils-139	Permafrost	Site: 261 to 262	E-551520 N-6121978	E-551442 N-6121886	14N	121 m
N2-S16	N2-Soils-139	Permafrost	Site: 263 to 264	E-551313 N-6121733	E-551257 N-6121667	14N	86 m
N2-S16	N2-Soils-139	Permafrost	Site: 265 to 266	E-551076 N-6121453	E-550923 N-6121272	14N	237 m
N2-S16	N2-Soils-139	Permafrost	Site: 267 to 268	E-550846 N-6121180	E-550766 N-6121086	14N	123 m
N2-S16	N2-Soils-140	Permafrost	Site: 253 to 254	E-553135 N-6123889	E-552987 N-6123714	14N	228 m

Potential Effects:

Melting or loss of permafrost due to disturbance of the active layer

Specific Mitigation:

- Carry out construction activities on frozen ground to minimize surface damage and rutting.
- Use existing trails, roads or cut lines whenever possible as access routes
- Maintain shrub and herbaceous vegetation to the extent possible
- Remove trees by low-disturbance methods
- Confine vehicle traffic to established trails to the extent possible
- Implement erosion protection before commencing construction in accordance with Erosion/Sediment Control Plan