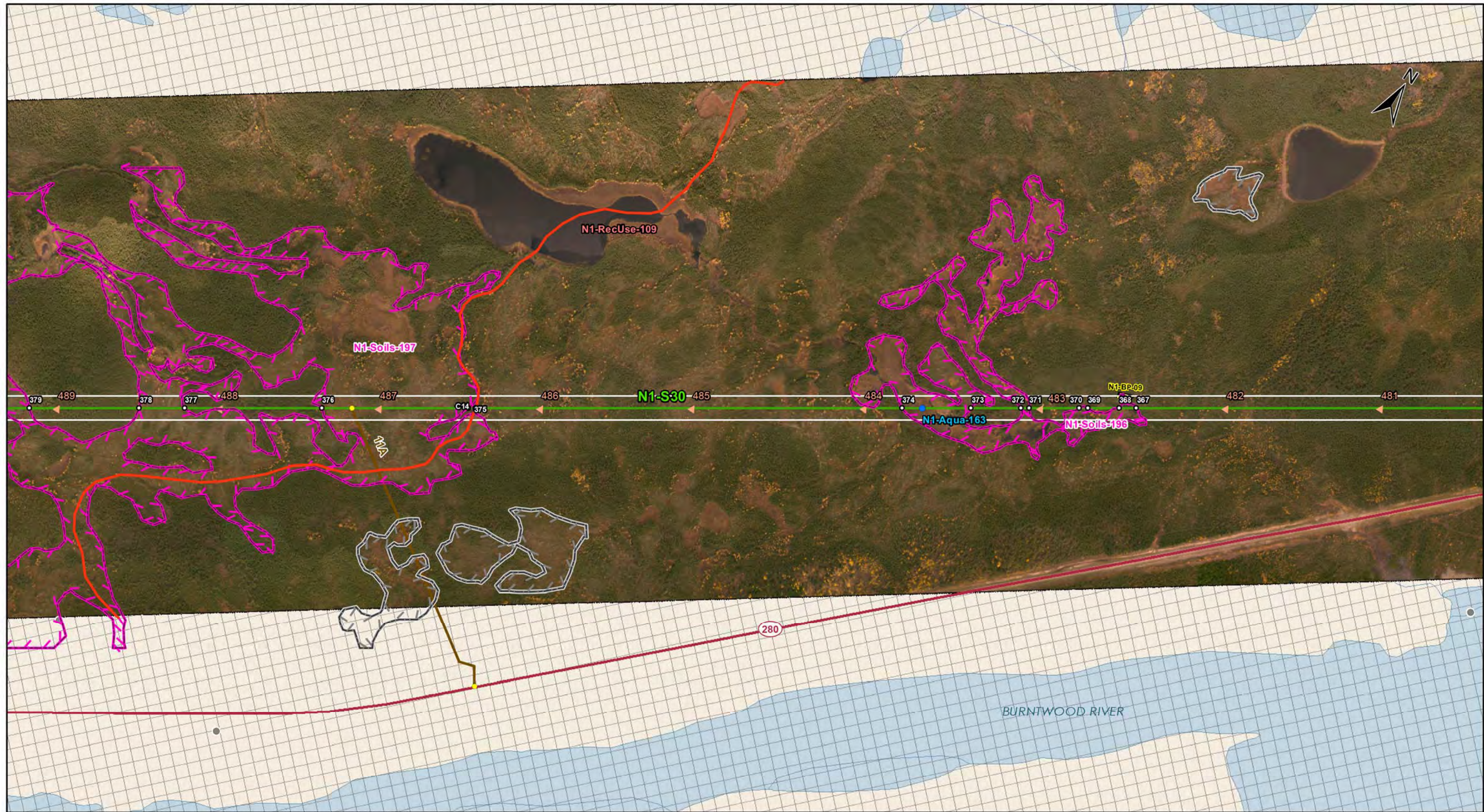
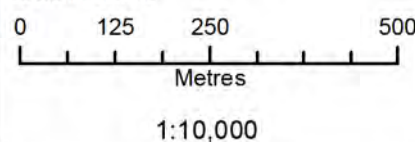


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Land Base

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

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
- RecUse
 - Intersection
- Soils and Terrain
 - Permafrost

Bipole III Transmission Project
Construction Environmental Protection Plan
Construction Section N1
Environmentally Sensitive Site Locations

Map 55

ESS Group: Water Crossing

Sec-Seg ID	ESS ID	ESS Name	Easting	Northing	UTM Zone	Channel Width	Wet Width	Fish Habitat Class	Habitat Sensitivity
N1-S30	N1-Aqua-163	Unnamed tributary of Burntwood River	632120	6221625	14N	N/A	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: Intersection

Sec-Seg ID	ESS ID	Location	ESS Name	Crossing Coordinates	UTM Zone
N1-S30	N1-RecUse-109	C14	Winter Trail	E-631102 N-6220970	14N

Potential Effects:

Potential disturbance of access

Specific Mitigation:

- Identify and flag prior to start of work
- Notify Manitoba Infrastructure and Transportation (MIT)/winter road operator and local authorities regarding construction activities and schedule, and address concerns prior to construction
- Avoid surface damage to and obstruction of access route
- Ensure that access road/trail are visible from RoW
- Provide warning signage for vehicle traffic and public safety

ESS Group: Permafrost

Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
N1-S30	N1-Soils-196	Permafrost	Site: 367 to 368	E-632609 N-6221940	E-632568 N-6221913	14N	48 m
N1-S30	N1-Soils-196	Permafrost	Site: 369 to 370	E-632497 N-6221868	E-632478 N-6221855	14N	23 m
N1-S30	N1-Soils-196	Permafrost	Site: 371 to 372	E-632363 N-6221781	E-632345 N-6221770	14N	21 m
N1-S30	N1-Soils-196	Permafrost	Site: 373 to 374	E-632231 N-6221697	E-632074 N-6221595	14N	187 m
N1-S30	N1-Soils-197	Permafrost	Site: 375 to 376	E-631085 N-6220960	E-630751 N-6220744	14N	397 m
N1-S30	N1-Soils-197	Permafrost	Site: 377 to 378	E-630439 N-6220544	E-630335 N-6220477	14N	122 m
N1-S30	N1-Soils-197	Permafrost	Site: 379 to 380	E-630086 N-6220317	E-630026 N-6220278	14N	71 m

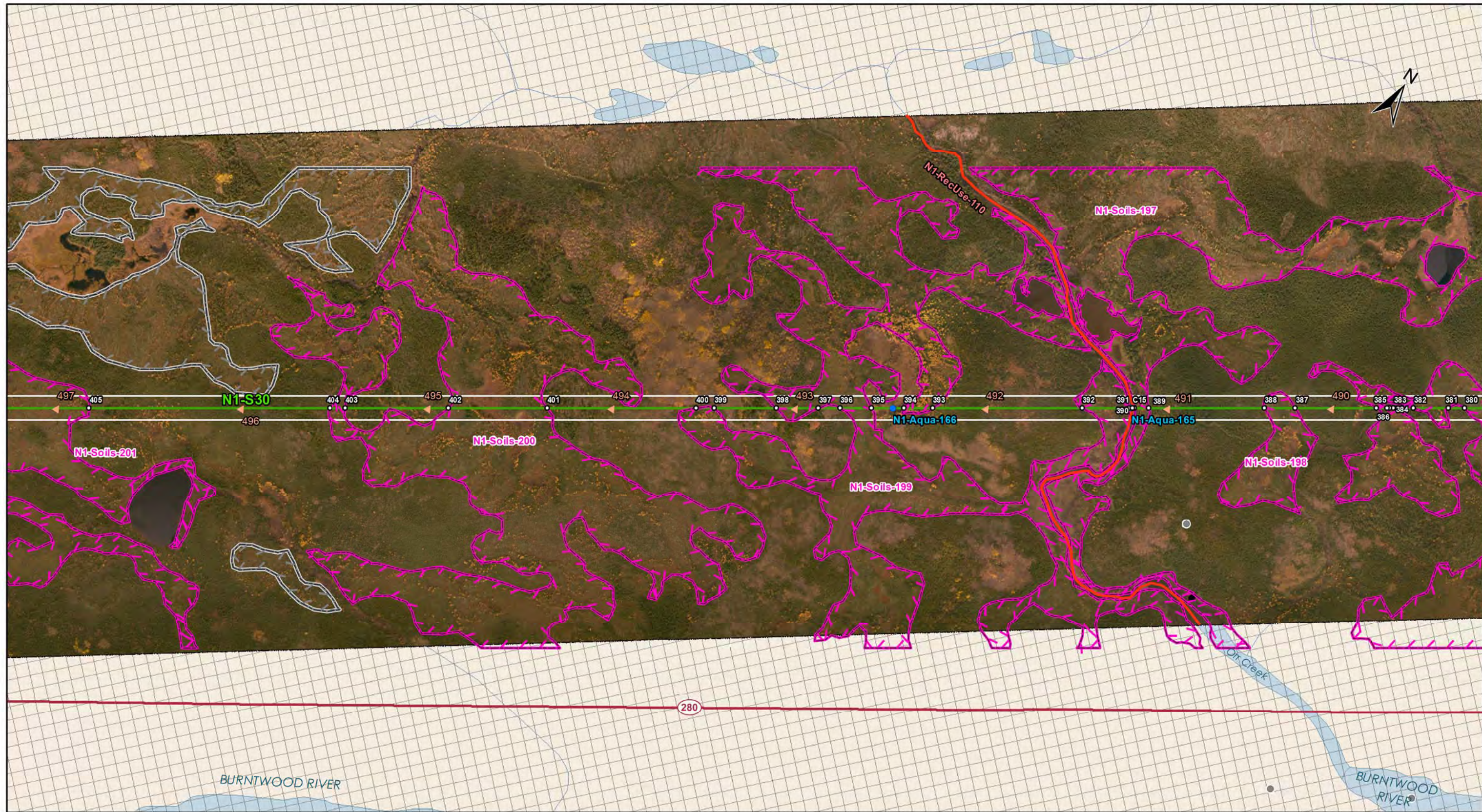
Potential Effects:

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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Data Source: MB Hydro, ProvMB, NRCAN
Date Created: November 12, 2015
Version: Final 4.0

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Land Base

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

Project Infrastructure

- Angle Tower Locations*
- Towers (Preliminary)*
- BP/II 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
- RecUse
- Intersection
- Soils and Terrain
- Permafrost

Bipole III Transmission Project
Construction Environmental Protection Plan
Construction Section N1
Environmentally Sensitive Site Locations
Map 56

ESS Group: Water Crossing

Sec-Seg ID	ESS ID	ESS Name	Easting	Northing	UTM Zone	Channel Width	Wet Width	Fish Habitat Class	Habitat Sensitivity
N1-S30	N1-Aqua-165	Orr Creek	629266	6219790	14N	12m	9m	Moderate	Important
N1-S30	N1-Aqua-166	Unnamed tributary of Orr Creek	628722	6219441	14N	N/A	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: Intersection

Sec-Seg ID	ESS ID	Location	ESS Name	Crossing Coordinates	UTM Zone
N1-S30	N1-RecUse-110	C15	Winter Trail/Trapping	E-629269 N-6219792	14N

Potential Effects:

Potential disturbance of access

Specific Mitigation:

- Identify and flag prior to start of work
- Notify Manitoba Infrastructure and Transportation (MIT)/winter road operator and local authorities regarding construction activities and schedule, and address concerns prior to construction
- Avoid surface damage to and obstruction of access route
- Ensure that access road/trail are visible from RoW
- Provide warning signage for vehicle traffic and public safety

ESS Group: Permafrost

Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
N1-S30	N1-Soils-197	Permafrost	Site: 379 to 380	E-630086 N-6220317	E-630026 N-6220278	14N	71 m
N1-S30	N1-Soils-197	Permafrost	Site: 381 to 382	E-629988 N-6220254	E-629909 N-6220203	14N	94 m
N1-S30	N1-Soils-197	Permafrost	Site: 383 to 384	E-629863 N-6220174	E-629854 N-6220168	14N	10 m
N1-S30	N1-Soils-197	Permafrost	Site: 385 to 386	E-629849 N-6220164	E-629825 N-6220149	14N	28 m
N1-S30	N1-Soils-197	Permafrost	Site: 389 to 390	E-629307 N-6219816	E-629274 N-6219794	14N	39 m
N1-S30	N1-Soils-198	Permafrost	Site: 387 to 388	E-629640 N-6220030	E-629569 N-6219985	14N	84 m
N1-S30	N1-Soils-199	Permafrost	Site: 400 to 391	E-628273 N-6219151	E-629261 N-6219786	14N	127 m
N1-S30	N1-Soils-199	Permafrost	Site: 392 to 393	E-629154 N-6219718	E-628813 N-6219498	14N	78 m
N1-S30	N1-Soils-199	Permafrost	Site: 394 to 395	E-628747 N-6219456	E-628674 N-6219409	14N	85 m
N1-S30	N1-Soils-199	Permafrost	Site: 396 to 397	E-628602 N-6219363	E-628553 N-6219331	14N	113 m
N1-S30	N1-Soils-199	Permafrost	Site: 398 to 399	E-628457 N-6219270	E-628315 N-6219178	14N	49 m
N1-S30	N1-Soils-200	Permafrost	Site: 401 to 402	E-627934 N-6218933	E-627710 N-6218789	14N	266 m
N1-S30	N1-Soils-200	Permafrost	Site: 403 to 404	E-627474 N-6218637	E-627439 N-6218615	14N	41 m
N1-S30	N1-Soils-201	Permafrost	Site: 405 to 406	E-626891 N-6218263	E-626576 N-6218060	14N	375 m

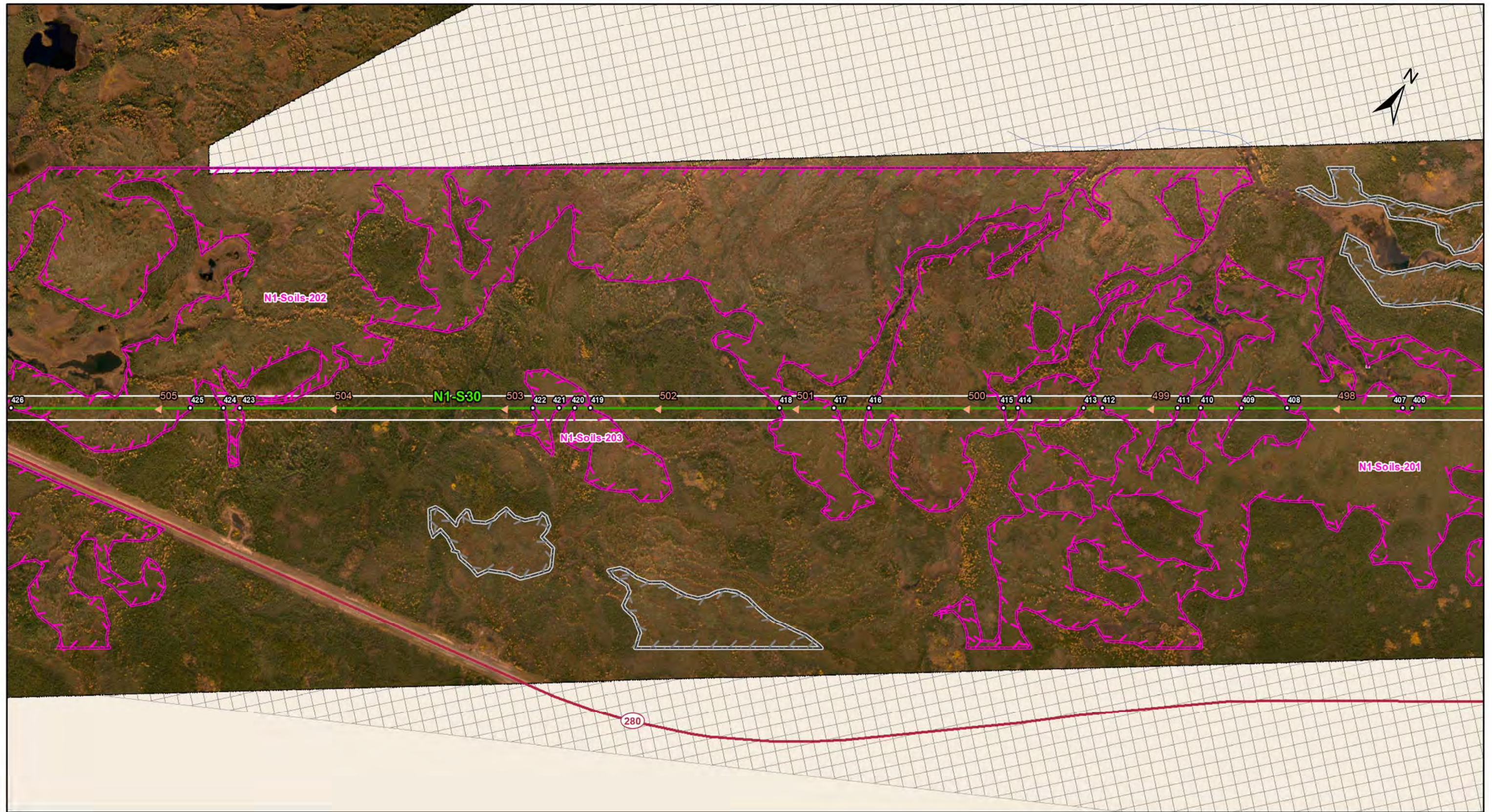
Potential Effects:

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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Data Source: MB Hydro, ProvMB, NRCAN
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Version: Final 4.0

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Land Base

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

Project Infrastructure

- Angle Tower Locations*
- Towers (Preliminary)*
- BP/III 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

- Soils and Terrain
- Permafrost

Bipole III Transmission Project
Construction Environmental Protection Plan
Construction Section N1
Environmentally Sensitive Site Locations
Map 57

ESS Group: Permafrost

Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
N1-S30	N1-Soils-201	Permafrost	Site: 405 to 406	E-626891 N-6218263	E-626576 N-6218060	14N	375 m
N1-S30	N1-Soils-201	Permafrost	Site: 407 to 408	E-626554 N-6218045	E-626291 N-6217877	14N	312 m
N1-S30	N1-Soils-201	Permafrost	Site: 409 to 410	E-626187 N-6217809	E-626094 N-6217750	14N	110 m
N1-S30	N1-Soils-201	Permafrost	Site: 411 to 412	E-626041 N-6217716	E-625868 N-6217605	14N	205 m
N1-S30	N1-Soils-201	Permafrost	Site: 413 to 414	E-625826 N-6217578	E-625677 N-6217482	14N	177 m
N1-S30	N1-Soils-201	Permafrost	Site: 415 to 416	E-625644 N-6217461	E-625337 N-6217263	14N	364 m
N1-S30	N1-Soils-202	Permafrost	Site: 417 to 418	E-625258 N-6217212	E-625133 N-6217132	14N	147 m
N1-S30	N1-Soils-202	Permafrost	Site: 423 to 424	E-623904 N-6216341	E-623866 N-6216317	14N	45 m
N1-S30	N1-Soils-202	Permafrost	Site: 425 to 426	E-623791 N-6216269	E-623383 N-6216007	14N	485 m
N1-S30	N1-Soils-203	Permafrost	Site: 419 to 420	E-624702 N-6216855	E-624666 N-6216832	14N	42 m
N1-S30	N1-Soils-203	Permafrost	Site: 421 to 422	E-624632 N-6216809	E-624571 N-6216771	14N	71 m

Potential Effects:

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

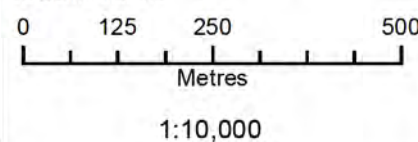
Specific Mitigation:

- 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

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

- Ecosystems**
- Permafrost Sampling Site
- Water**
- Water Crossing
- RecUse**
- Intersection
- Soils and Terrain**
- Permafrost

Bipole III Transmission Project Construction Environmental Protection Plan Construction Section N1 Environmentally Sensitive Site Locations

Map 58

ESS Group: Water Crossing

Sec-Seg ID	ESS ID	ESS Name	Easting	Northing	UTM Zone	Channel Width	Wet Width	Fish Habitat Class	Habitat Sensitivity
N1-S30	N1-Aqua-167	Unnamed tributary of Burntwood River	621912	6215061	14N	N/A	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: Intersection

Sec-Seg ID	ESS ID	Location	ESS Name	Crossing Coordinates	UTM Zone
N1-S30	N1-RecUse-111	C16	Old Portage Trail	E-621913 N-6215061	14N

Potential Effects:

Potential disturbance of access

Specific Mitigation:

- Identify and flag prior to start of work
- Notify Manitoba Infrastructure and Transportation (MIT)/winter road operator and local authorities regarding construction activities and schedule, and address concerns prior to construction
- Avoid surface damage to and obstruction of access route
- Ensure that access road/trail are visible from RoW
- Provide warning signage for vehicle traffic and public safety

ESS Group: Permafrost

Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
N1-S30	N1-Soils-202	Permafrost	Site: 427 to 428	E-623364 N-6215994	E-623248 N-6215920	14N	137 m
N1-S30	N1-Soils-204	Permafrost	Site: 429 to 430	E-623105 N-6215828	E-622916 N-6215706	14N	225 m
N1-S30	N1-Soils-204	Permafrost	Site: 431 to 432	E-622839 N-6215657	E-622733 N-6215589	14N	125 m
N1-S30	N1-Soils-204	Permafrost	Site: 433 to 434	E-622672 N-6215549	E-622619 N-6215515	14N	62 m
N1-S30	N1-Soils-204	Permafrost	Site: 435 to 436	E-622584 N-6215493	E-622551 N-6215471	14N	39 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

ESS Group: Research

Sec-Seg ID	ESS ID	ESS Name	Easting	Northing	UTM Zone
N1-S30	N1-Eco-201	Permafrost Monitoring Site	623052	6215792	14N

Potential Effects:

Permafrost monitoring site, buried thermistor is exposed 5-10cm at the surface and is susceptible to damage

Specific Mitigation:

- Identify and flag sensor's location to protect it damage
- Notify construction crews of sensor location

ESS Group: Archaeological

Sec-Seg ID	ESS ID	ESS Name	Easting	Northing	UTM Zone
N1-S31	N1-Hert-111	Odei River	620453	6213114	14N
N1-S31	N1-Hert-112	Odei River	620246	6212793	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
N1-S31	N1-Aqua-168	Odei River	620364	6212978	14N	119m	119m	Low	Important
N1-S31	N1-Aqua-169	Unnamed Tributary of Odei River	619430	6211533	14N	19.01m	19.01m	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: Intersection

Sec-Seg ID	ESS ID	Location	ESS Name	Crossing Coordinates	UTM Zone
N1-S31	N1-RecUse-112	C17	Portage	E-619119 N-6211051	14N

Potential Effects:

Potential disturbance of access

Specific Mitigation:

- Identify and flag prior to start of work
- Notify Manitoba Infrastructure and Transportation (MIT)/winter road operator and local authorities regarding construction activities and schedule, and address concerns prior to construction
- Avoid surface damage to and obstruction of access route
- Ensure that access road/trail are visible from RoW
- Provide warning signage for vehicle traffic and public safety

ESS Group: Permafrost

Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
N1-S31	N1-Soils-205	Permafrost	Site: 442 to 437	E-617263 N-6208332	E-618416 N-6209963	14N	382m

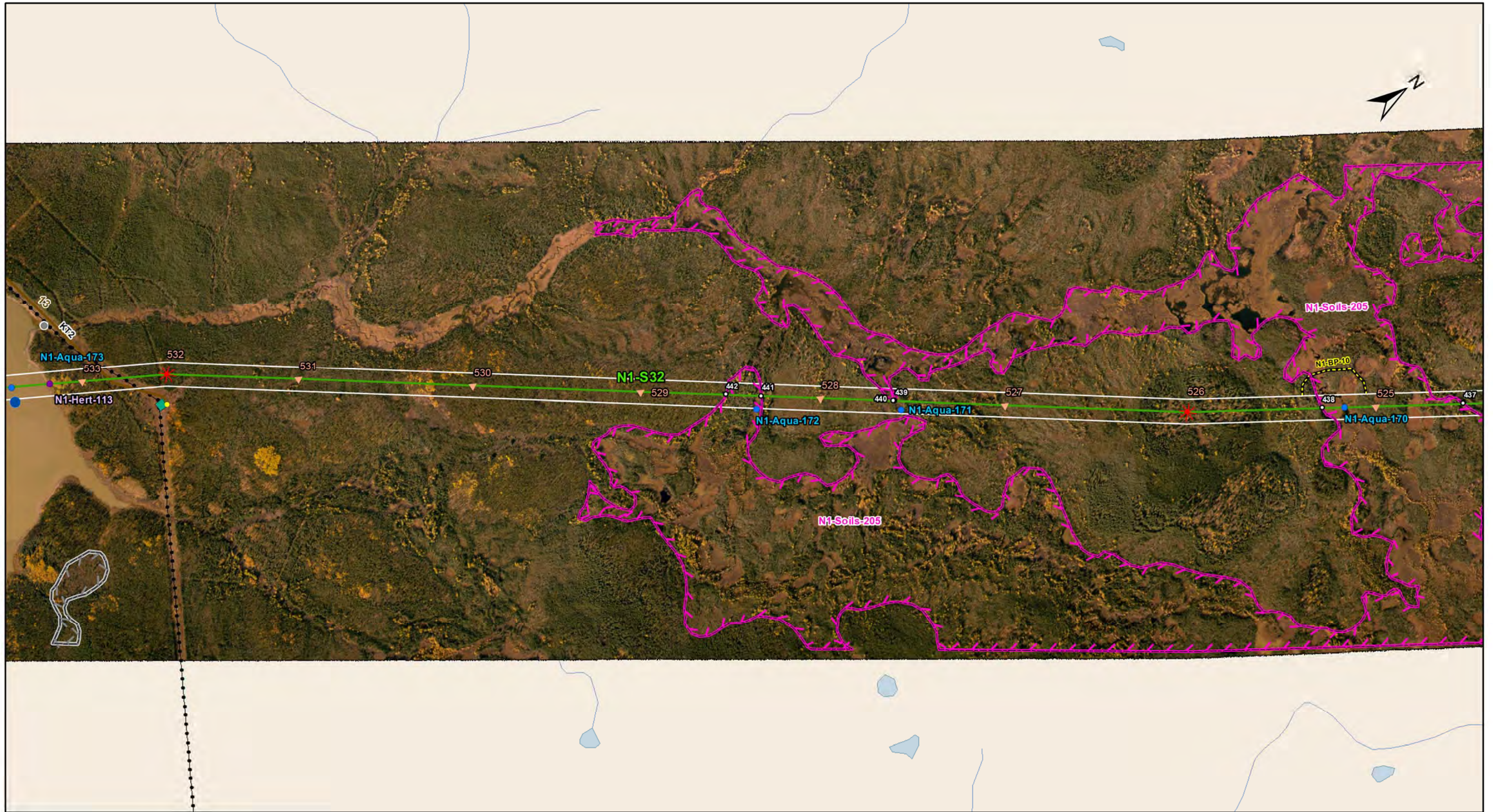
Potential Effects:

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

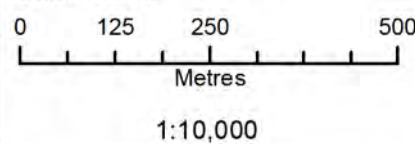
Specific Mitigation:

- Carry out construction activities on frozen ground to minimize surface damage and rutting.
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- 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

Project Infrastructure

- Angle Tower Locations*
- Towers (Preliminary)*
- BP/III 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 N1 Environmentally Sensitive Site Locations

Map 60

ESS Group: Archaeological

Sec-Seg ID	ESS ID	ESS Name	Easting	Northing	UTM Zone
N1-S31	N1-Hert-113	Burntwood River	616252	6206823	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
N1-S31	N1-Aqua-170	Unnamed Tributary of Burntwood River	618241	6209693	14N	12.8m	12.8m	Moderate	Marginal
N1-S31	N1-Aqua-171	Unnamed Tributary of Burntwood River	617565	6208700	14N	23.4m	N/A	Low	Marginal
N1-S31	N1-Aqua-173	Burntwood River	616194	6206740	14N	100m	N/A	High	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: Water Crossing

Sec-Seg ID	ESS ID	ESS Name	Easting	Northing	UTM Zone	Channel Width	Wet Width	Fish Habitat Class	Habitat Sensitivity
N1-S31	N1-Aqua-172	Unnamed Tributary of Burntwood River	617340	6208378	14N	N/A	N/A	Low	No Fish Habitat

Potential Effects:

Habitat loss and contamination from structure foundations & installations; increased erosion & sedimentation of streams; Damage to stream banks; Loss of riparian vegetation

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

ESS Group: Permafrost

Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
N1-S31	N1-Soils-205	Permafrost	Site: 442 to 437	E-617263 N-6208332	E-618416 N-6209963	14N	382m
N1-S32	N1-Soils-205	Permafrost	Site: 438 to 439	E-618208 N-6209642	E-617536 N-6208699	14N	4m
N1-S32	N1-Soils-205	Permafrost	Site: 440 to 441	E-617534 N-6208696	E-617321 N-6208409	14N	97m

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