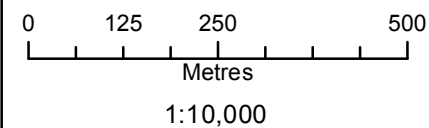


Coordinate System: UTM Zone 14N NAD83
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- Project Infrastructure**
- Angle Tower Locations
 - BPIII Final Preferred Route
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- Points of Access***
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- ESS Features**
- Heritage**
 - Archaeological
 - Water**
 - Water Crossing
 - Wildlife**
 - Reptiles/Amphibians
 - Resource Use**
 - Food/Medicinal
 - Water**
 - Groundwater

**Bipole III Transmission Project
 Construction Environmental Protection Plan
 Construction Section N4
 Environmentally Sensitive Site Locations**

Draft: For Discussion Purposes Only

ESS Group: Archaeological

Sec-Seg ID	ESS ID	ESS Name	Easting	Northing	UTM Zone
N4-S08	N4-Hert-105	Explorers Highroad creek leading to Steeprock	360352	5849284	14N
N4-S08	N4-Hert-106	Creek	360222	5848522	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
N4-S08	N4-Aqua-119	Unnamed tributary of Unnamed Lake	360359	5849312	14N	N/A	N/A	Moderate	Marginal
N4-S08	N4-Aqua-120	Unnamed tributary of Unnamed Lake	360349	5849258	14N	9m	N/A	Moderate	Marginal
N4-S08	N4-Aqua-121	Unnamed tributary of Unnamed Lake	360321	5849095	14N	8m	N/A	Moderate	Marginal
N4-S08	N4-Aqua-122	Unnamed tributary of Unnamed Lake	360218	5848502	14N	21m	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.
- Adhere to Department of Fisheries and Oceans (DFO) Operational Statements for Temporary Stream Crossings, Ice Bridges and Snow Fills, and Overhead Line Construction

ESS Group: Groundwater

Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
N4-S08	N4-Aqua-203	Aquifers Vulnerable to contamination	Site: 67 to 68	E-360025 N-5847383	E-359711 N-5845564	14N	1846 m

Potential Effects:

Potential groundwater contamination from a contingency event (e.g., spill)

Specific Mitigation:

- Marshalling yards will be located on upland sites where possible.
- An Emergency Preparedness and Spill Response Plan will be developed and an emergency response spill kit will be kept on-site at all times in case of fluid leaks or spills from machinery.
- Qualified driller with appropriate experience will be contracted to work in areas affected by artesian conditions.
- Emergency response plans for sealing/grouting and pumping will be implemented as required.

ESS Group: Food/Medicinal

Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
N4-S07	N4-Ruse-203	Berry Harvest	Site: 61 to 62	E-362722 N-5854855	E-360588 N-5850576	14N	4781m

Potential Effects:

Loss of vegetation as a result of clearing, construction, maintenance and decommissioning activities.

Specific Mitigation:

- Carry out construction activities on frozen or dry ground to minimize surface damage, rutting and erosion
- Minimize surface disturbance around the site to the extent possible
- Remove trees by low-disturbance methods
- No Herbicide to be applied during construction
- Confine vehicle traffic to established trails to the extent possible

ESS Group: Reptiles/Amphibians

Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
N4-S08	N4-Wild-301	Garter Snakes	Site: 65 to 66	E-360502 N-5850146	E-360310 N-5849037	14N	1124 m

Potential Effects:

Creation of movement corridor (RoW); disturbance/destruction of overwintering habitat, microhabitat alterations; sensory disturbance effects & direct mortality from machinery-related activity

Specific Mitigation:

- Use existing access roads and trails to the extent possible
- Carry out tower installation during summer months (June 1-August 31) or conduct summer field investigations prior to construction where polygons overlap tower footprints
- Remove trees by low-disturbance methods
- No blasting within 200 m of hibernacula habitat
- Identify and flag buffer areas prior to start of work
- Confine vehicle traffic to established trails to the extent possible
- Provide a 200 m vegetated (shrub and herbaceous) buffer around site

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 - Wildlife**
 - Birds and Habitat
 - Mammals and Habitat
 - Reptiles/Amphibians

- Water**
- Groundwater

**Bipole III Transmission Project
 Construction Environmental Protection Plan
 Construction Section N4
 Environmentally Sensitive Site Locations**

Draft: For Discussion Purposes Only

ESS Group: Archaeological

Sec-Seg ID	ESS ID	ESS Name	Easting	Northing	UTM Zone
N4-S08	N4-Hert-107	Steeprock River	359794	5846041	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
N4-S09	N4-Aqua-123	Steeprock River	359789	5846011	14N	23.5m	12m	High	Important
N4-S09	N4-Aqua-124	Unnamed tributary of Mafeking Creek	359654	5843620	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.
- Adhere to Department of Fisheries and Oceans (DFO) Operational Statements for Temporary Stream Crossings, Ice Bridges and Snow Fills, and Overhead Line Construction

ESS Group: Birds and Habitat

Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
N2-S09	N4-Wild-106	Waterfowl sensitivity area	Site: L15 to L16	E-359788 N-5846012	E-359782 N-5845977	14N	34m

Potential Effects:

Higher risk of wire collision, Risk of wire collision is localized to the right-of-way

Specific Mitigation:

- Adhere to reduced risk timing windows for protection of birds (August 1- April 30)
- Maintain applicable setback during nesting and breeding timing window
- Conduct priority assessment for bird diverters and other measures prior to transmission line stringing
- Install bird diverters or other measures at high priority sites

ESS Group: Groundwater

Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
N4-S08	N4-Aqua-203	Aquifers Vulnerable to contamination	Site: 67 to 68	E-360025 N-5847383	E-359711 N-5845564	14N	1846m
N4-S09	N4-Aqua-203	Aquifers Vulnerable to contamination	Site: 69 to 70	E-359711 N-5845564	E-359667 N-5844085	14N	1479m

Potential Effects:

Potential groundwater contamination from a contingency event (e.g., spill)

Specific Mitigation:

- Marshalling yards will be located on upland sites where possible.
- An Emergency Preparedness and Spill Response Plan will be developed and an emergency response spill kit will be kept on-site at all times in case of fluid leaks or spills from machinery.
- Qualified driller with appropriate experience will be contracted to work in areas affected by artesian conditions.
- Emergency response plans for sealing/grouting and pumping will be implemented as required.

ESS Group: Mammals and Habitat

Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
N4-S09	N4-Wild-201	Moose Sensitive Area	Site: 71 to 72	E-359658 N-5843775	E-359468 N-5837321	14N	6456 m

Potential Effects:

Moose Meadows Sensitive Moose Range

Specific Mitigation:

- Manitoba Hydro will not support development of designated motorized recreational trail use within areas described above if requested.
- No shear blading to clear the ROW in the sensitive range. Selective cutting methods to be used leaving low shrub and herb plant communities on the ROW.
- Slash piles will be stockpiled every 200m-400m during clearing, adjacent to centerline trail, these piles will be placed on centerline trail post construction.
- Annual ground inspection of towers to occur late in winter season to avoid creating packed snow trails that facilitate predator use of the ROW.
- Selective cutting to remove danger trees only on portions of the ROW to reduce line of site for hunters and predators and facilitate wildlife movement across the ROW.
- Any access trails used to access the ROW for construction that will not be needed for future maintenance will be decommissioned on completion of construction.
- Any culverts or road improvements will be removed and the first 100 m from of the trail dug up to the extent possible. Available slash < 1 m in height will also be evenly distributed over the access trail to reduce the possibility of use be ATV traffic.

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MAP SHEET FULLY WITHIN THE N4-WILD-201 FEATURE

N4-Wild-201

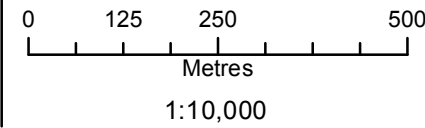
Madeking Creek

N

N4-S09



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- *Labels correspond to BPIII Access Management Database

- ESS Features**
- Wildlife**
- Mammals and Habitat

**Bipole III Transmission Project
 Construction Environmental Protection Plan
 Construction Section N4
 Environmentally Sensitive Site Locations**

Draft: For Discussion Purposes Only

ESS Group: Mammals and Habitat

Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
N4-S09	N4-Wild-201	Moose Sensitive Area	Site: 71 to 72	E-359658 N-5843775	E-359468 N-5837321	14N	6456m

Potential Effects:

Moose Meadows Sensitive Moose Range

Specific Mitigation:

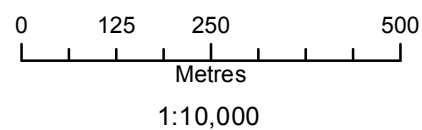
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MAP SHEET FULLY WITHIN THE N4-WILD-201 FEATURE

N4-Wild-201



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 Construction Environmental Protection Plan
 Construction Section N4
 Environmentally Sensitive Site Locations**

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ESS Group: Mammals and Habitat

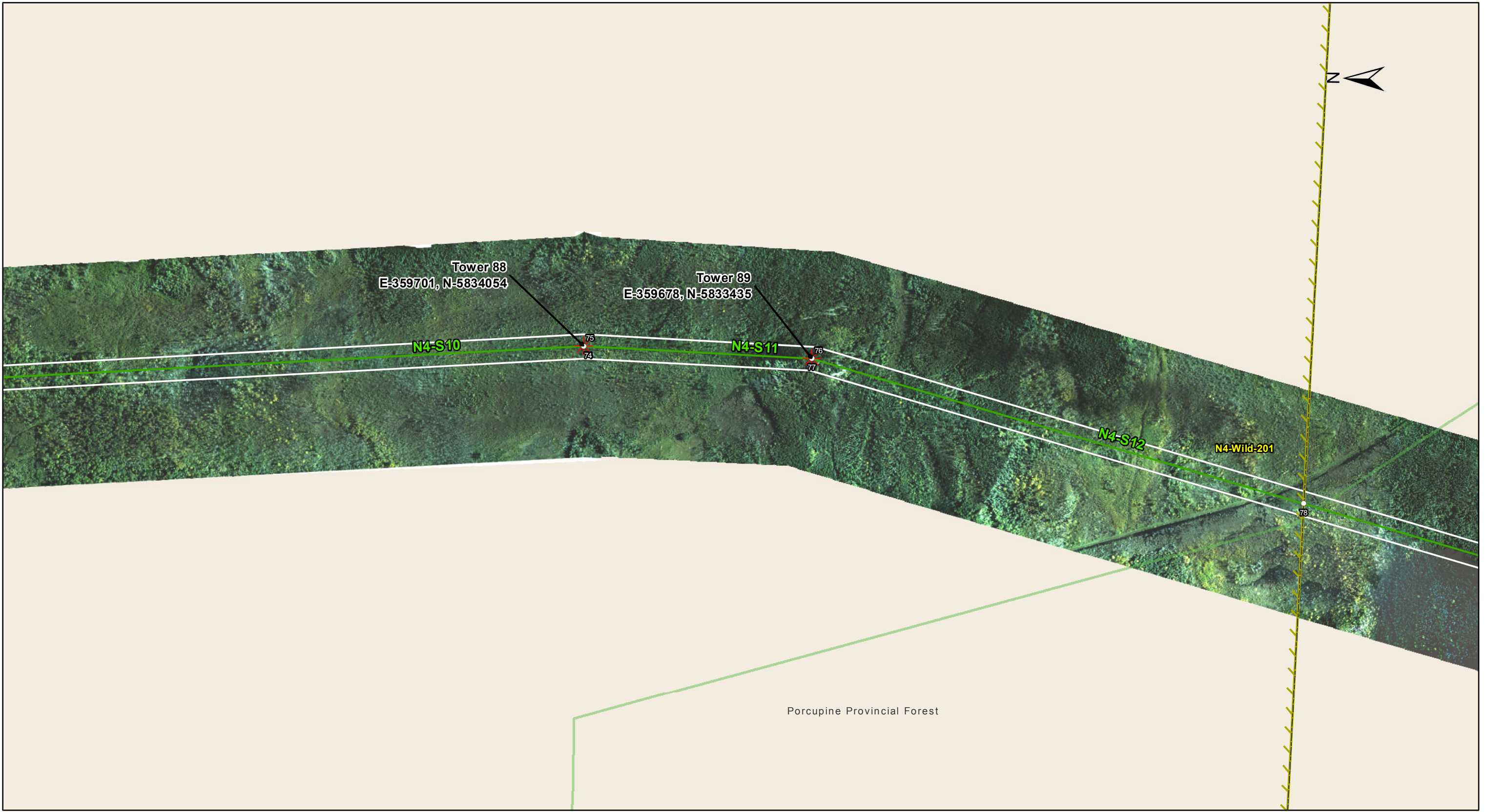
Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
N4-S09	N4-Wild-201	Moose Sensitive Area	Site: 71 to 72	E-359658 N-5843775	E-359468 N-5837321	14N	6456m
N4-S10	N4-Wild-201	Moose Sensitive Area	Site: 73 to 74	E-359468 N-5837321	E-359701 N-5834054	14N	3275m

Potential Effects:

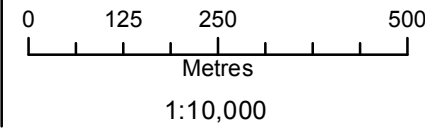
Moose Meadows Sensitive Moose Range

Specific Mitigation:

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**Bipole III Transmission Project
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 Environmentally Sensitive Site Locations**

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ESS Group: Mammals and Habitat

Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
N4-S10	N4-Wild-201	Moose Sensitive Area	Site: 73 to 74	E-359468 N-5837321	E-359701 N-5834054	14N	3275m
N4-S11	N4-Wild-201	Moose Sensitive Area	Site: 75 to 76	E-359701 N-5834054	E-359678 N-5833434	14N	619m
N4-S12	N4-Wild-201	Moose Sensitive Area	Site: 77 to 78	E-359678 N-5833434	E-359308 N-5832095	14N	1389m

Potential Effects:

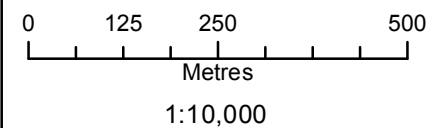
Moose Meadows Sensitive Moose Range

Specific Mitigation:

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**Bipole III Transmission Project
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 Environmentally Sensitive Site Locations**

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ESS Group: Water Crossing

Sec-Seg ID	ESS ID	ESS Name	Easting	Northing	UTM Zone	Channel Width	Wet Width	Fish Habitat Class	Habitat Sensitivity
N4-S13	N4-Aqua-125	Bell River	358510	5828959	14N	N/A	N/A	None	None

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.
- Adhere to Department of Fisheries and Oceans (DFO) Operational Statements for Temporary Stream Crossings, Ice Bridges and Snow Fills, and Overhead Line Construction
- No instream work or fording from September 15 to June 30

ESS Group: Birds and Habitat

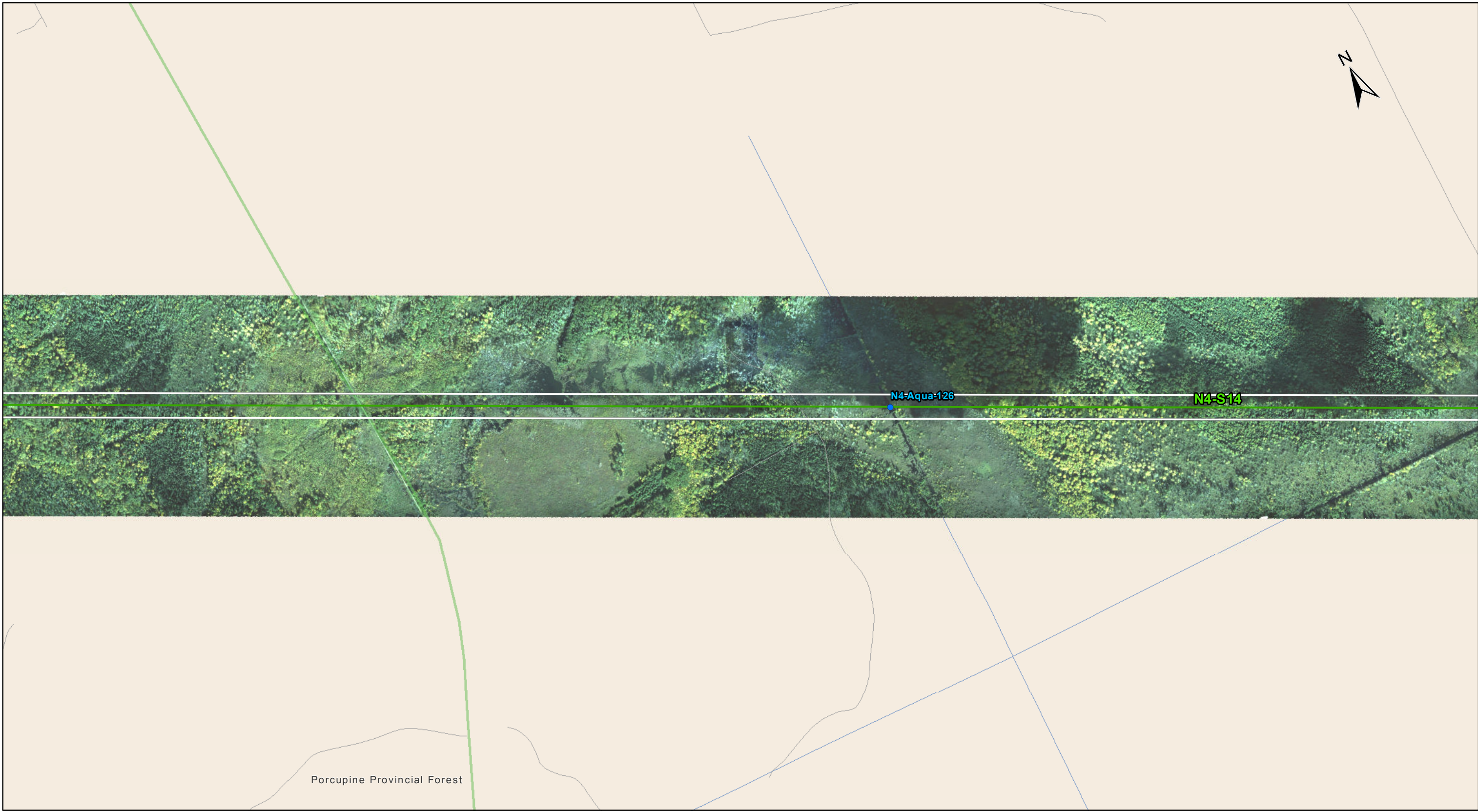
Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
N2-S13	N4-Wild-107	Waterfowl sensitivity area	Site: L17 to L18	E-358506 N-5829022	E-358517 N-5828865	14N	157m

Potential Effects:

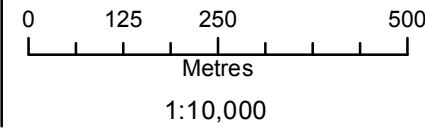
Higher risk of wire collision, Risk of wire collision is localized to the right-of-way

Specific Mitigation:

- Adhere to reduced risk timing windows for protection of birds (August 1- April 30)
- Maintain applicable setback during nesting and breeding timing window
- Conduct priority assessment for bird diverters and other measures prior to transmission line stringing
- Install bird diverters or other measures at high priority sites



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- ESS Features**
- Water**
- Water Crossing

**Bipole III Transmission Project
 Construction Environmental Protection Plan
 Construction Section N4
 Environmentally Sensitive Site Locations**

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ESS Group: Water Crossing

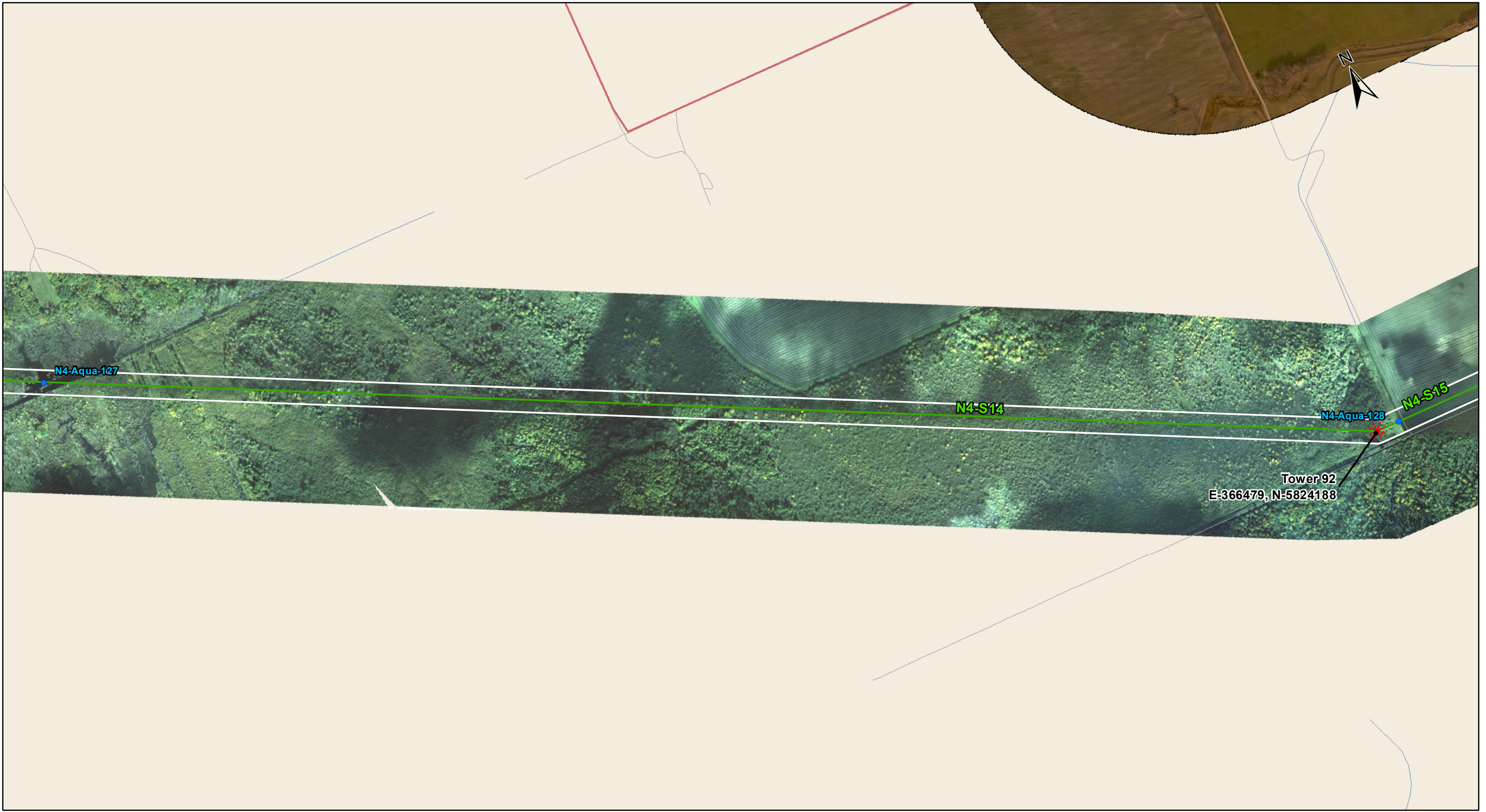
Sec-Seg ID	ESS ID	ESS Name	Easting	Northing	UTM Zone	Channel Width	Wet Width	Fish Habitat Class	Habitat Sensitivity
N4-S14	N4-Aqua-126	Unnamed Agricultural Drain	361830	5826669	14N	N/A	N/A	None	None

Potential Effects:

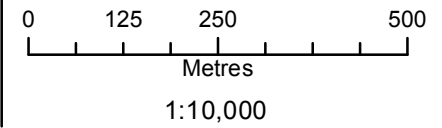
Habitat loss and contamination from structure foundations & installations; increased erosion & sedimentation of streams; Damage to stream banks; Loss of riparian vegetation; Fish habitat disturbances and impeded fish movement; Rutting of floodplain

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
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- 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.
- Adhere to Department of Fisheries and Oceans (DFO) Operational Statements for Temporary Stream Crossings, Ice Bridges and Snow Fills, and Overhead Line Construction



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- Water**
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**Bipole III Transmission Project
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 Construction Section N4
 Environmentally Sensitive Site Locations**

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ESS Group: Water Crossing

Sec-Seg ID	ESS ID	ESS Name	Easting	Northing	UTM Zone	Channel Width	Wet Width	Fish Habitat Class	Habitat Sensitivity
N4-S15	N4-Aqua-127	Unnamed Agricultural Drain	363288	5825891	14N	N/A	N/A	None	None
N4-S15	N4-Aqua-128	Unnamed Tributary of Bell Creek	366543	5824186	14N	N/A	N/A	None	None

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.
- Adhere to Department of Fisheries and Oceans (DFO) Operational Statements for Temporary Stream Crossings, Ice Bridges and Snow Fills, and Overhead Line Construction
- No instream work or fording from April 1 to June 30