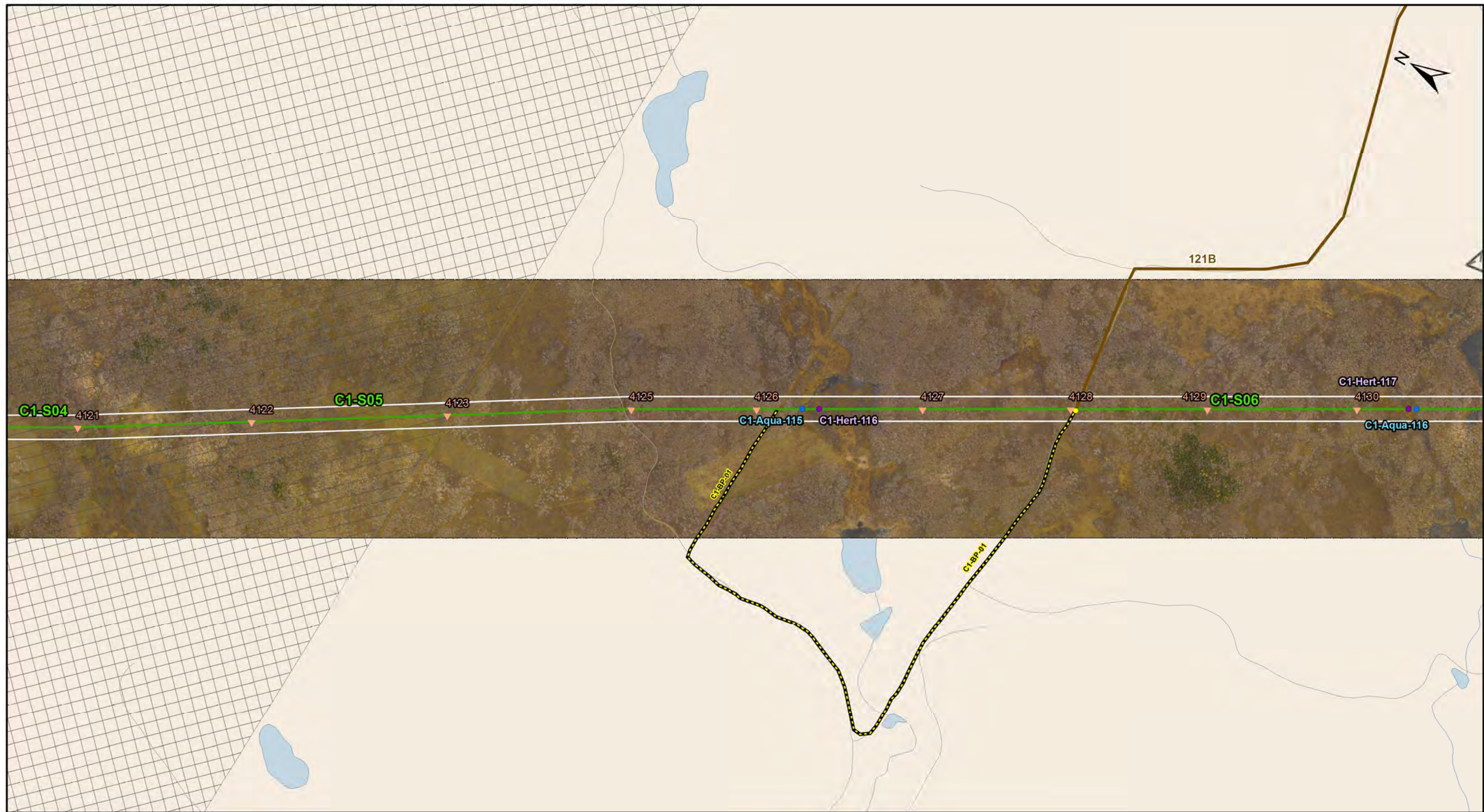


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Land Base

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

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 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

Bipole III Transmission Project
Construction Environmental Protection Plan
Construction Section C1
Environmentally Sensitive Site Locations

ESS Group: Archaeological

Sec-Seg ID	ESS ID	ESS Name	Easting	Northing	UTM Zone
C1-S06	C1-Hert-116	Bigstone Creek	412838	5736927	14N
C1-S06	C1-Hert-117	Bigstone Creek	413649	5735551	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
C1-S06	C1-Aqua-115	Unnamed tributary of Wellburns Creek	412814	5736966	14N	11m	N/A	Moderate	Marginal
C1-S06	C1-Aqua-116	Unnamed tributary of Wellburns Creek	413660	5735532	14N	N/A	N/A	Low	Marginal

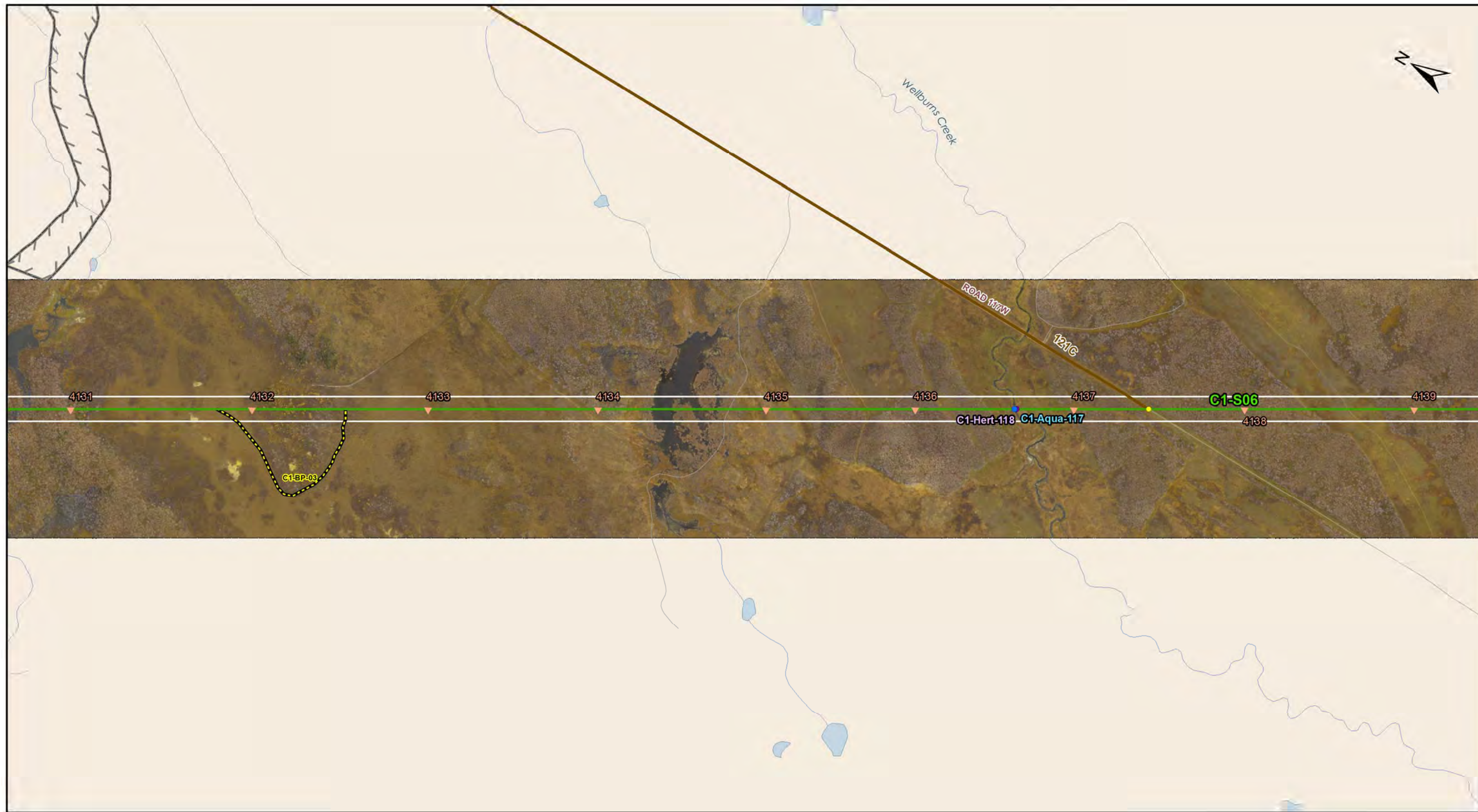
Potential Effects:

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

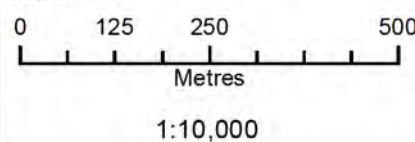
Specific Mitigation:

- 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

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Land Base

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Project Infrastructure

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Points of Access*

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

ESS Features

- Heritage**
- Archaeological
- Water**
- Water Crossing

Bipole III Transmission Project Construction Environmental Protection Plan Construction Section C1 Environmentally Sensitive Site Locations

ESS Group: Archaeological

Sec-Seg ID	ESS ID	ESS Name	Easting	Northing	UTM Zone
C1-S06	C1-Hert-118	Wellburns Creek	415123	5733054	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
C1-S06	C1-Aqua-117	Wellburns Creek	415118	5733061	14N	6.8m	5.4m	Moderate	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

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Land Base

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- Mining
- Provincial Forest

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 Project footprint

Points of Access*

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

ESS Features

Bipole III Transmission Project
Construction Environmental Protection Plan
Construction Section C1
Environmentally Sensitive Site Locations

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- Project Infrastructure**
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 - Area Features
- *Currently outside 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

**Bipole III Transmission Project
Construction Environmental Protection Plan
Construction Section C1
Environmentally Sensitive Site Locations**

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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 Project footprint*

Points of Access*

- Proposed Access Point
- Major Stream Crossing
- Abandoned Rail Crossing
- Rail Crossing
- Transmission Line Crossing
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ESS Features

Bipole III Transmission Project
Construction Environmental Protection Plan
Construction Section C1
Environmentally Sensitive Site Locations

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Land Base

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- Local Road
- Winter Road
- Railway (Operational)
- Railway (Discontinued)
- Mining
- Provincial Forest

Project Infrastructure

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- Towers (Preliminary)*
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Sensitive Sites*

- Point Features
- Linear Features
- Area Features
- *Currently outside 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
Resource Use

- Forestry

Bipole III Transmission Project
Construction Environmental Protection Plan
Construction Section C1
Environmentally Sensitive Site Locations

ESS Group: Forestry

Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
C1-S07	C1-RUse-305	Shelterbelt	Site: 45 to 46	E-424910 N-5722439	E-424922 N-5722433	14N	13m

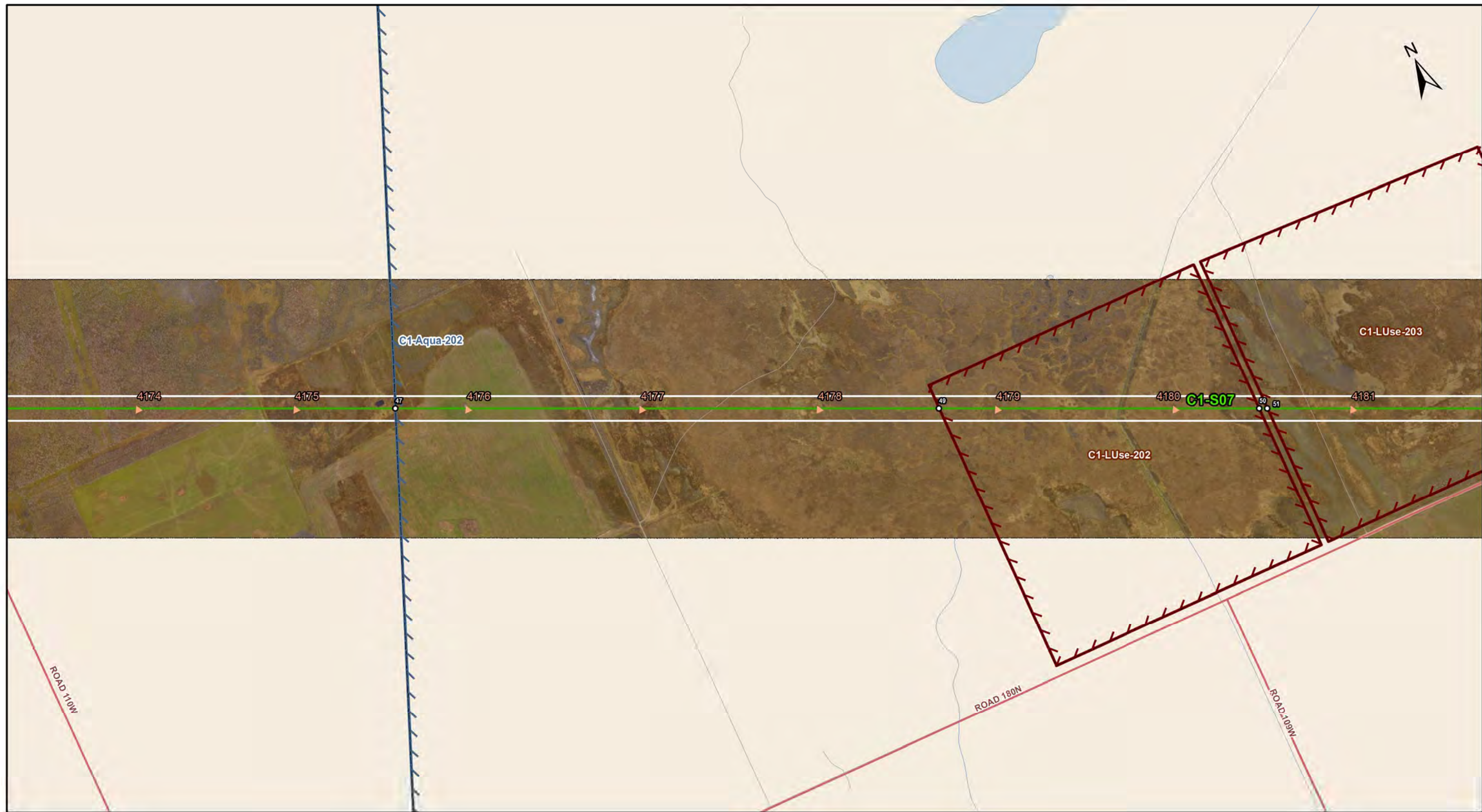
Potential Effects:

Removal in area of ROW intersect

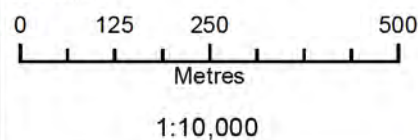
Specific Mitigation:

- Carry out construction activities on frozen or dry ground to minimize surface damage, rutting and erosion
- Identify and flag prior to start of work
- If Burning of clearing debris is required it must be conducted during winter months only and ensure that all fires are extinguished prior to spring break-up
- Notify landowner regarding construction activities and schedule, and address concerns prior to start of work
- Use existing access trails, roads or cut lines whenever possible as access routes
- Limit all equipment to project footprint only, where possible
- No damage to Vegetation on the edge of the Right of Way
- No pushing debris into adjacent timber

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Land Base

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- Railway (Operational)
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Project Infrastructure

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Points of Access*

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

ESS Features

- Land Use**
- Residential
- Water**
- Groundwater

Bipole III Transmission Project Construction Environmental Protection Plan Construction Section C1 Environmentally Sensitive Site Locations

ESS Group: Groundwater

Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
C1-S07	C1-Aqua-202	Freshwater artesian areas	Site: 47 to 48	E-427715 N-5721099	E-439095 N-5715659	14N	12612 m

Potential Effects:

Wetting the surficial environment near potential discharge from tower foundation drill hole (ground saturation); Also, potential level drop in the aquifer.

Specific Mitigation:

- 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.
- Follow up inspections of installed foundations will be undertaken to monitor for excess moisture.

ESS Group: Residential

Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
C1-S07	C1-LUse-202	Remote Cottage – Crown land encumbrance	Site: 49 to 50	E-429045 N-5720463	E-429829 N-5720088	14N	868 m
C1-S07	C1-LUse-203	Fish Camp – Crown land encumbrance	Site: 51 to 52	E-429849 N-5720079	E-430655 N-5719693	14N	893 m

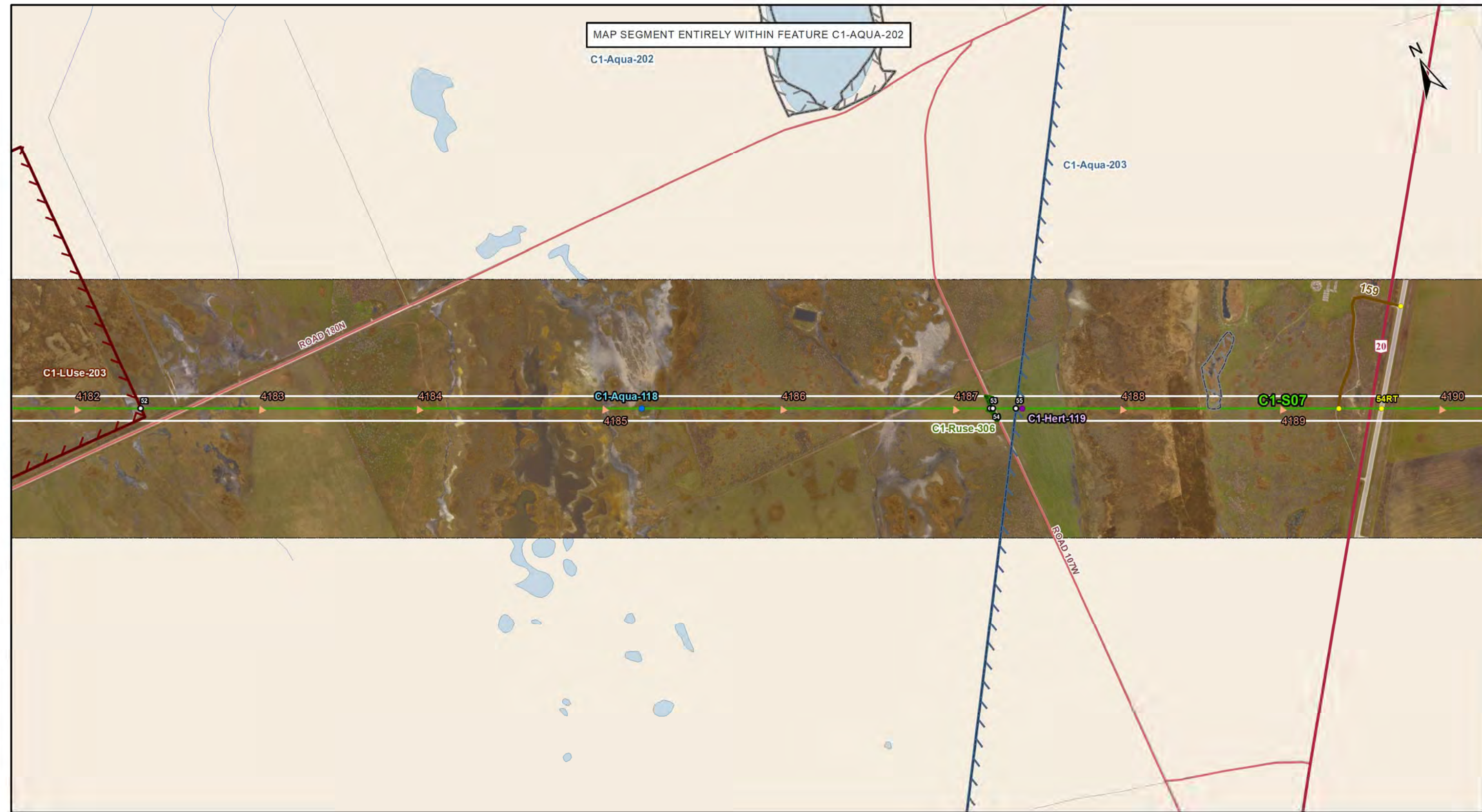
Potential Effects:

Potential disruption to resource/recreational use activities

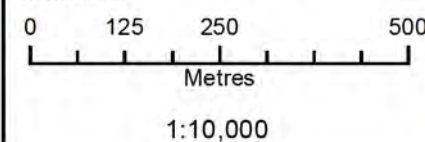
Specific Mitigation:

- Notify Manitoba Conservation, local authorities and operator regarding construction activities and schedule, and address concerns prior to construction
- Observe municipal and local by-laws and protocols including noise and work scheduling
- Minimize noise, dust and other emissions from work activities and maintain clean and aesthetic appearance of work site
- Provide warning signage for vehicle traffic and public safety

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Land Base

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

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 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
- Land Use**
- Residential
- Resource Use**
- Forestry
- Water**
- Groundwater

Bipole III Transmission Project Construction Environmental Protection Plan Construction Section C1 Environmentally Sensitive Site Locations

ESS Group: Archaeological

Sec-Seg ID	ESS ID	ESS Name	Easting	Northing	UTM Zone
C1-S07	C1-Hert-119	High elevation	432809	5718664	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
C1-S07	C1-Aqua-118	Unnamed small lake	431879	5719109	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; 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.

ESS Group: Groundwater

Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
C1-S07	C1-Aqua-202	Freshwater artesian areas	Site: 47 to 48	E-427715 N-5721099	E-439095 N-5715659	14N	12612 m

Potential Effects:

Wetting the surficial environment near potential discharge from tower foundation drill hole (ground saturation); Also, potential level drop in the aquifer.

Specific Mitigation:

- 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.
- Follow up inspections of installed foundations will be undertaken to monitor for excess moisture.

ESS Group: Groundwater

Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
C1-S07	C1-Aqua-203	Aquifers Vulnerable to contamination	Site: 55 to 56	E-432794 N-5718671	E-434241 N-5717979	14N	1604 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: Residential

Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
C1-S07	C1-LUse-203	Fish Camp – Crown land encumbrance	Site: 51 to 52	E-429849 N-5720079	E-430655 N-5719693	14N	893m

Potential Effects:

Potential disruption to resource/recreational use activities

Specific Mitigation:

- Notify Manitoba Conservation, local authorities and operator regarding construction activities and schedule, and address concerns prior to construction
- Observe municipal and local by-laws and protocols including noise and work scheduling
- Minimize noise, dust and other emissions from work activities and maintain clean and aesthetic appearance of work site
- Provide warning signage for vehicle traffic and public safety

ESS Group: Forestry

Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
C1-S07	C1-RUse-306	Shelterbelt	Site: 53 to 54	E-432731 N-5718701	E-432737 N-5718698	14N	7 m

Potential Effects:

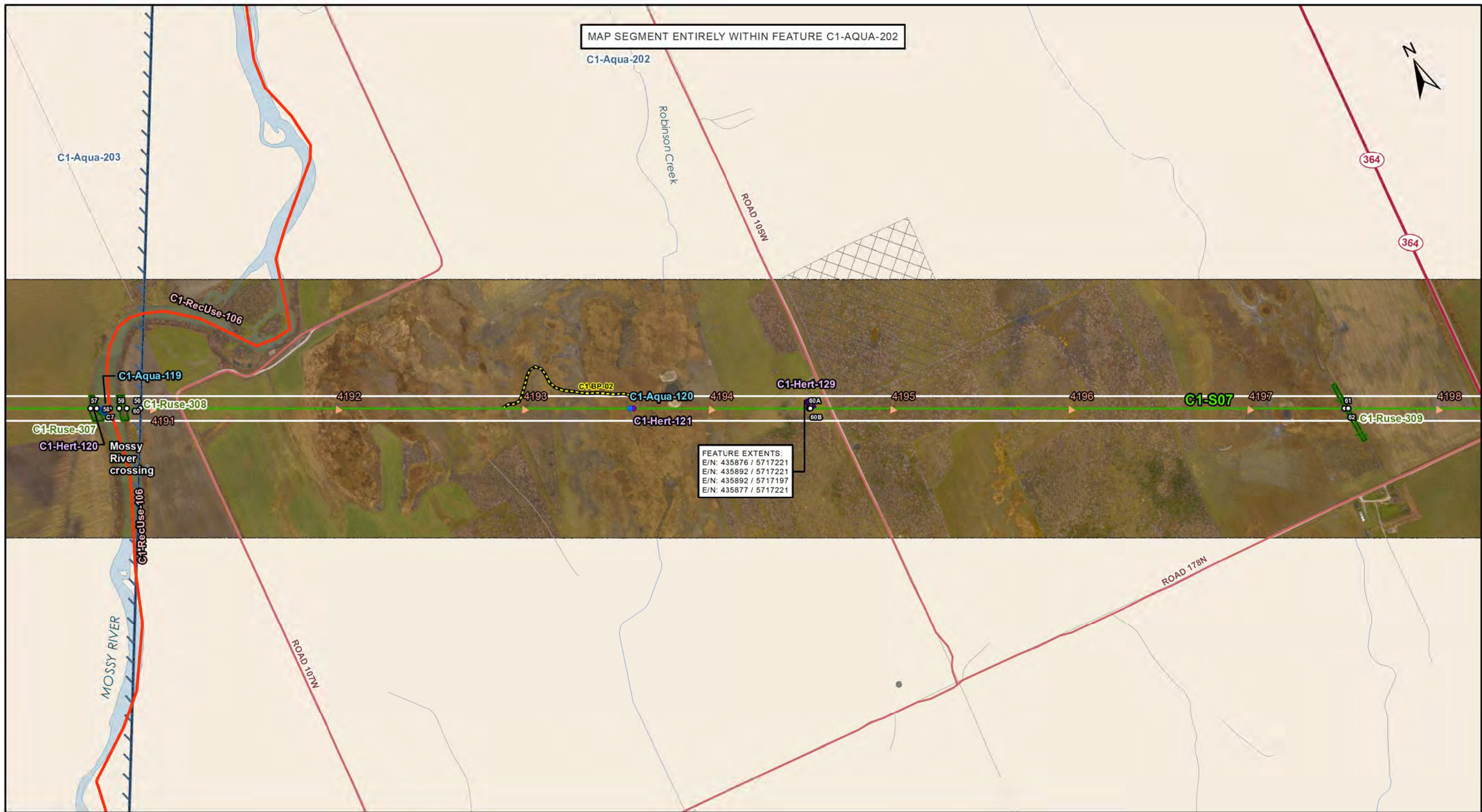
Removal in area of ROW intersect

Specific Mitigation:

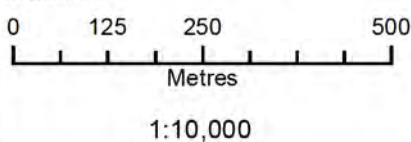
- Carry out construction activities on frozen or dry ground to minimize surface damage, rutting and erosion
- Identify and flag prior to start of work
- If Burning of clearing debris is required it must be conducted during winter months only and ensure that all fires are extinguished prior to spring break-up
- Notify landowner regarding construction activities and schedule, and address concerns prior to start of work
- Use existing access trails, roads or cut lines whenever possible as access routes
- Limit all equipment to project footprint only, where possible
- No damage to Vegetation on the edge of the Right of Way
- No pushing debris into adjacent timber

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Points of Access*

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

ESS Features

- Heritage**
- Archaeological
- Water**
- Water Crossing
- RecUse**
- Intersection
- Heritage**
- Historic
- Resource Use**
- Forestry
- Water**
- Groundwater

Bipole III Transmission Project Construction Environmental Protection Plan Construction Section C1 Environmentally Sensitive Site Locations

ESS Group: Archaeological

Sec-Seg ID	ESS ID	ESS Name	Easting	Northing	UTM Zone
C1-S07	C1-Hert-120	Mossey River	434121	5718038	14N
C1-S07	C1-Hert-121	Robinson Creek	435447	5717404	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: Historic

Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
C1-S07	C1-Hert-129	Gruber Townsite	Site: 60A to 60B	E-435879 N-5717198	E-435880 N-5717196	14N	4 m

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
- Access trail should be routed around site. Should equipment travel through the area be unavoidable construction (i.e Stringing) matting will be placed to protect it
- 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

ESS Group: Water Crossing

Sec-Seg ID	ESS ID	ESS Name	Easting	Northing	UTM Zone	Channel Width	Wet Width	Fish Habitat Class	Habitat Sensitivity
C1-S07	C1-Aqua-119	Mossy River	434154	5718022	14N	50m	50m	Low	Important
C1-S07	C1-Aqua-120	Robinson Creek	435438	5717408	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: Intersection

Sec-Seg ID	ESS ID	Location	ESS Name	Crossing Coordinates	UTM Zone
C1-S07	C1-RecUse-106	C7	Canoe Route	E-434166 N-5718015	14N

Potential Effects:

Potential aesthetic concerns with the presence of canoe route traffic; disruption from operational activities

Specific Mitigation:

- Where possible carry out construction activities during frozen ice conditions to avoid conflict with canoe route traffic
- If construction is to take place during the summer months post warning markers and signs upstream and downstream of the crossing

ESS Group: Groundwater

Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
C1-S07	C1-Aqua-202	Freshwater artesian areas	Site: 47 to 48	E-427715 N-5721099	E-439095 N-5715659	14N	12612 m

Potential Effects:

Wetting the surficial environment near potential discharge from tower foundation drill hole (ground saturation); Also, potential level drop in the aquifer.

Specific Mitigation:

- 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.
- Follow up inspections of installed foundations will be undertaken to monitor for excess moisture.

ESS Group: Groundwater

Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
C1-S07	C1-Aqua-203	Aquifers Vulnerable to contamination	Site: 55 to 56	E-432794 N-5718671	E-434241 N-5717979	14N	1604 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: Forestry

Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
C1-S07	C1-RUse-307	Shelterbelt	Site: 57 to 58	E-434119 N-5718037	E-434135 N-5718030	14N	17 m
C1-S07	C1-RUse-308	Shelterbelt	Site: 59 to 60	E-434189 N-5718004	E-434208 N-5717995	14N	21 m
C1-S07	C1-RUse-309	Shelterbelt	Site: 61 to 62	E-437187 N-5716571	E-437196 N-5716567	14N	10 m

Potential Effects:

Removal in area of ROW intersect

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
- If Burning of clearing debris is required it must be conducted during winter months only and ensure that all fires are extinguished prior to spring break-up
- Notify landowner regarding construction activities and schedule, and address concerns prior to start of work
- Use existing access trails, roads or cut lines whenever possible as access routes
- Limit all equipment to project footprint only, where possible
- No damage to Vegetation on the edge of the Right of Way
- No pushing debris into adjacent timber

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Coordinate System: UTM Zone 14N NAD83
Data Source: MB Hydro, ProvMB, NRCAN
Date Created: November 03, 2016
Version: 4.0

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Land Base

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

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 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

Water

- Groundwater

Bipole III Transmission Project
Construction Environmental Protection Plan
Construction Section C1
Environmentally Sensitive Site Locations

ESS Group: Archaeological

Sec-Seg ID	ESS ID	ESS Name	Easting	Northing	UTM Zone
C1-S03	C1-Hert-122	Unnamed Tributary of Cork Cliff Creek	438531	5715930	14N
C1-S03	C1-Hert-123	Abandoned Building	439083	5715666	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
C1-S04	C1-Aqua-121	Unnamed Tributary of Cork Cliff Creek	438520	5715935	14N	N/A	2m	Low	Marginal
C1-S04	C1-Aqua-122	Cork Cliff Creek	439146	5715620	14N	N/A	4m	Moderate	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: Groundwater

Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
C1-S07	C1-Aqua-202	Freshwater artesian areas	Site: 47 to 48	E-427715 N-5721099	E-439095 N-5715659	14N	12612m
C1-S8	C1-Aqua-202	Freshwater artesian areas	Site: 63 to 64	E-439095 N-5715659	E-440586 N-5714720	14N	1762m

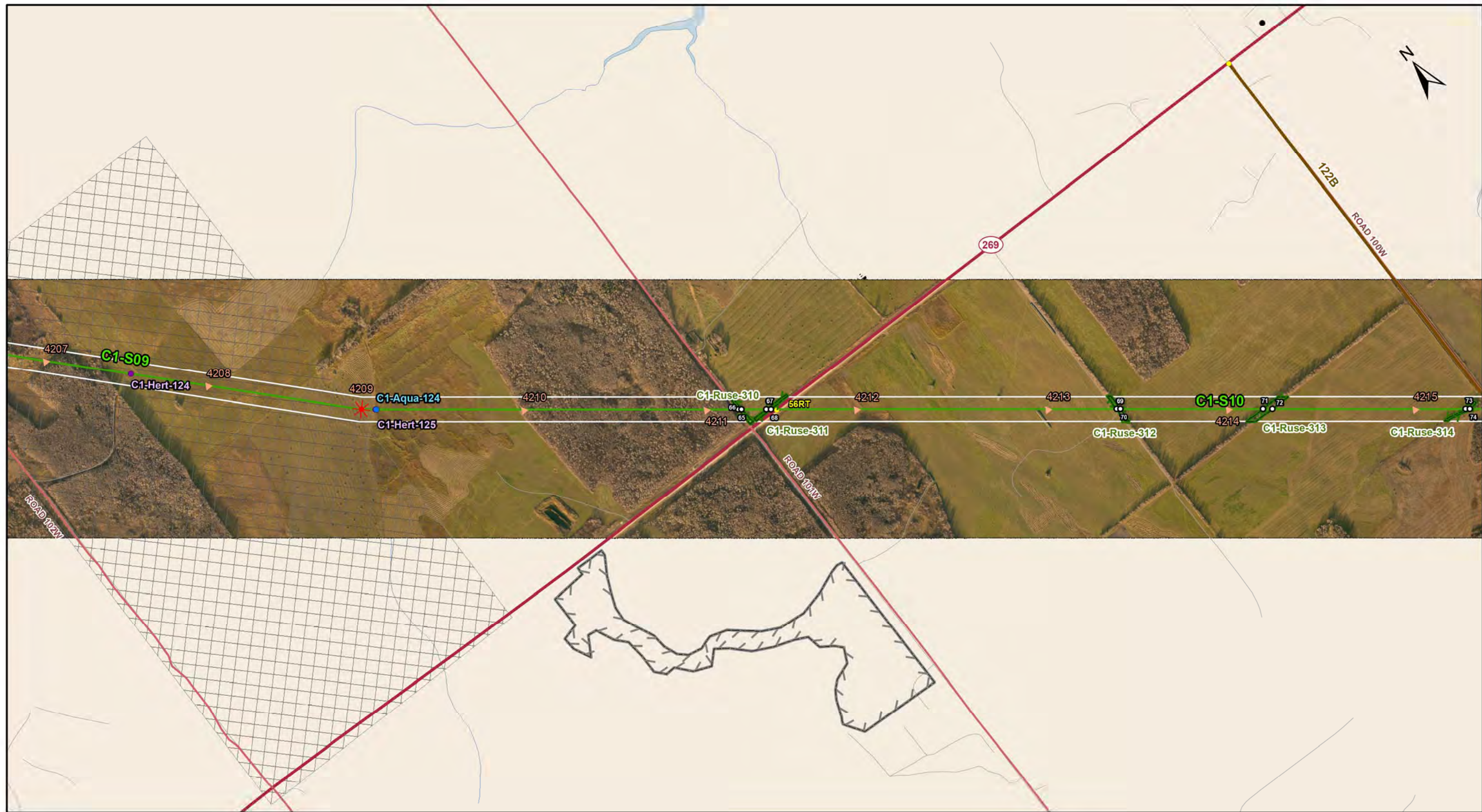
Potential Effects:

Wetting the surficial environment near potential discharge from tower foundation drill hole (ground saturation); Also, potential level drop in the aquifer.

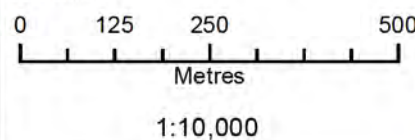
Specific Mitigation:

- 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.
- Follow up inspections of installed foundations will be undertaken to monitor for excess moisture.

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Land Base

- Transmission Line
- Highway
- Major Road
- Local Road
- Winter Road
- Railway (Operational)
- Railway (Discontinued)
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- 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 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
- Resource Use**
- Forestry

Bipole III Transmission Project Construction Environmental Protection Plan Construction Section C1 Environmentally Sensitive Site Locations

Map 231

ESS Group: Archaeological

Sec-Seg ID	ESS ID	ESS Name	Easting	Northing	UTM Zone
C1-S09	C1-Hert-124	Unnamed Tributary	441106	5714203	14N
C1-S10	C1-Hert-125	Unnamed Tributary of Lake Winnipegosis	441568	5713717	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
C1-S10	C1-Aqua-124	Unnamed Tributary of Lake Winnipegosis	441570	5713715	14N	4m	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: Forestry

Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
C1-S10	C1-RUse-310	Shelterbelt	Site: 65 to 66	E-442342 N-5713108	E-442349 N-5713103	14N	8 m
C1-S10	C1-RUse-311	Shelterbelt	Site: 67 to 68	E-442402 N-5713061	E-442411 N-5713053	14N	12 m
C1-S10	C1-RUse-312	Shelterbelt	Site: 69 to 70	E-443147 N-5712475	E-443155 N-5712469	14N	10 m
C1-S10	C1-RUse-313	Shelterbelt	Site: 71 to 72	E-443461 N-5712229	E-443480 N-5712214	14N	24 m
C1-S10	C1-RUse-314	Shelterbelt	Site: 73 to 74	E-443892 N-5711890	E-443901 N-5711883	14N	11 m

Potential Effects:

Removal in area of ROW intersect

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
- If Burning of clearing debris is required it must be conducted during winter months only and ensure that all fires are extinguished prior to spring break-up
- Notify landowner regarding construction activities and schedule, and address concerns prior to start of work
- Use existing access trails, roads or cut lines whenever possible as access routes
- Limit all equipment to project footprint only, where possible
- No damage to Vegetation on the edge of the Right of Way
- No pushing debris into adjacent timber

ESS Group: Archaeological

Sec-Seg ID	ESS ID	ESS Name	Easting	Northing	UTM Zone
C1-S10	C1-Hert-126	German Creek	443999	5711807	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
C1-S10	C1-Aqua-125	German Creek	444003	5711804	14N	N/A	2m	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: Forestry

Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
C1-S10	C1-RUse-314	Shelterbelt	Site: 73 to 74	E-443892 N-5711890	E-443901 N-5711883	14N	11m

Potential Effects:

Removal in area of ROW intersect

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
- If Burning of clearing debris is required it must be conducted during winter months only and ensure that all fires are extinguished prior to spring break-up
- Notify landowner regarding construction activities and schedule, and address concerns prior to start of work
- Use existing access trails, roads or cut lines whenever possible as access routes
- Limit all equipment to project footprint only, where possible
- No damage to Vegetation on the edge of the Right of Way
- No pushing debris into adjacent timber

ESS Group: Habitat

Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
C1-S11	C1-Eco-100	Dry Upland Prairie	Site: 75 to 76	E-446142 N-5709565	E-446176 N-5709527	14N	50 m

Potential Effects:

Potential loss of plants of conservation concern and grassland species/communities from clearing, construction, maintenance and decommissioning activities.

Specific Mitigation:

- Carry out construction activities on frozen or dry ground to minimize surface damage, rutting and erosion
- Use existing access roads and trails to the extent possible
- Remove trees by low-disturbance methods
- Confine vehicle traffic to established trails to the extent possible
- Stabilize sites immediately after construction and re-vegetate disturbed areas in accordance with site Rehabilitation Plan