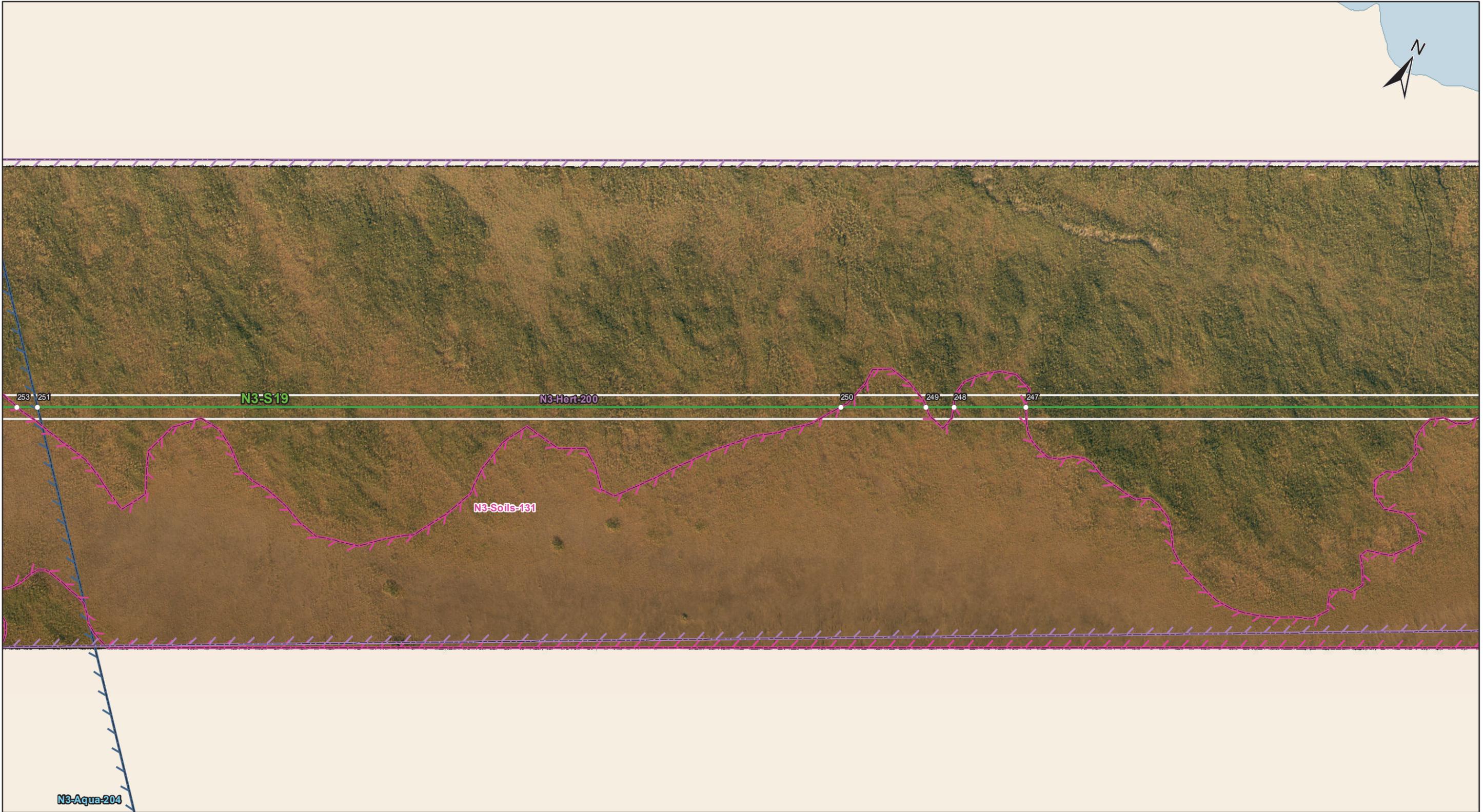


DOCUMENT PATH: G:\GIS\PROJECT_FOLDER\011440054_BPIII_EPPARCMAPIESS_N3\BPIII_CENVPP_NIN2N3N4C1\SECTIONBASEMAP_MAPBOOK_BTIB_STANTEC_20131128A.MXD



Coordinate System: UTM Zone 14N NAD83
 Data Source: MB Hydro, ProvMB, NRCAN
 Date Created: November 29, 2013

0 125 250 500
 Metres
 1:10,000

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

- Project Infrastructure**
- Angle Tower Locations
 - BPIII Final Preferred Route
 - 66 m Right of Way

- Points of Access***
- Proposed Access Point
 - Major Stream Crossing
 - Abandoned Rail Crossing
 - Rail Crossing
 - Transmission Line Crossing
 - Proposed Access Route
- *Labels correspond to BPIII Access Management Database

- ESS Features**
- Heritage**
 - Heritage, Cultural
 - Soils and Terrain**
 - Permafrost
 - Water**
 - Groundwater

**Bipole III Transmission Project
 Construction Environmental Protection Plan
 Construction Section N3
 Environmentally Sensitive Site Locations**

MAP NUMBER : 157

ESS Group : Permafrost

Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
N3-S19	N3-Soils-131	Permafrost	Site: 247 to 248	E-359478 N-5960311	E-359305 N-5960220	14N	196m
N3-S19	N3-Soils-131	Permafrost	Site: 249 to 250	E-359239 N-5960186	E-359034 N-5960079	14N	231m
N3-S19	N3-Soils-131	Permafrost	Site: 253 to 254	E-357058 N-5959043	E-355802 N-5958385	14N	1418m

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
- Avoid organic soils containing permafrost to the extent possible
- 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 : Groundwater

Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
N3-S19	N3-Aqua-204	Aquifers vulnerable to contamination	Site: 251 to 252	E-357107 N-5959069	E-354917 N-5957921	14N	2472m

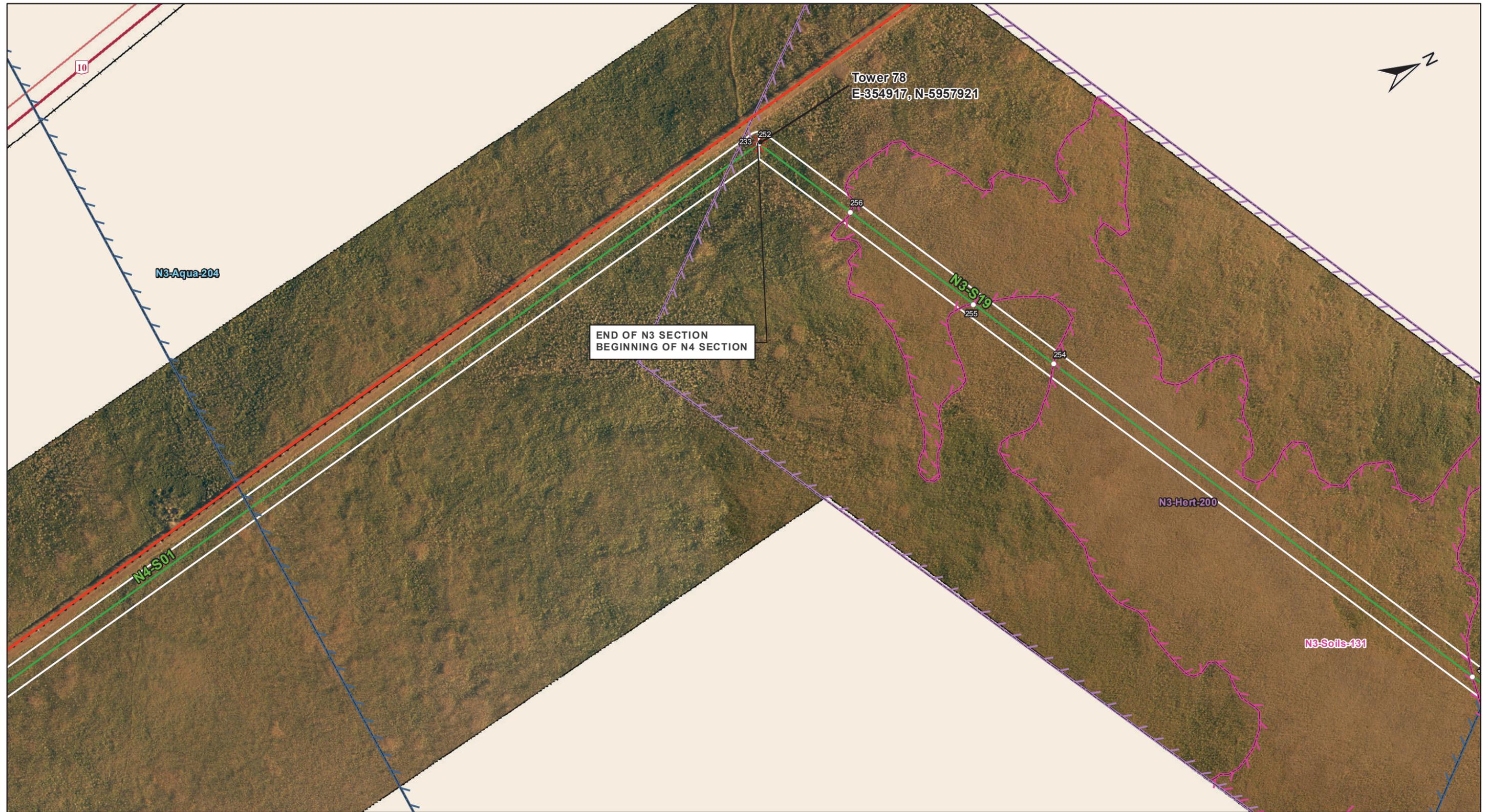
Potential Effects:

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

Specific Mitigation:

- Marshaling 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

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Coordinate System: UTM Zone 14N NAD83
 Data Source: MB Hydro, ProvMB, NRCAN
 Date Created: November 29, 2013

0 125 250 500
 Metres
 1:10,000

- Land Base**
- Transmission Line
 - Highway
 - Major Road
 - Local Road
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 - BPIII Final Preferred Route
 - 66 m Right of Way

- Points of Access***
- Proposed Access Point
 - Major Stream Crossing
 - Abandoned Rail Crossing
 - Rail Crossing
 - Transmission Line Crossing
 - Proposed Access Route
- *Labels correspond to BPIII Access Management Database

- ESS Features**
- Access
 - Intersection
 - Heritage
 - Heritage, Cultural
 - Soils and Terrain
 - Permafrost
 - Water
 - Groundwater

**Bipole III Transmission Project
 Construction Environmental Protection Plan
 Construction Section N3
 Environmentally Sensitive Site Locations**

MAP NUMBER : 158

ESS Group : Permafrost

Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
N3-S19	N3-Soils-131	Permafrost	Site: 253 to 254	E-357058 N-5959043	E-355802 N-5958385	14N	1418m
N3-S19	N3-Soils-131	Permafrost	Site: 255 to 256	E-355561 N-5958259	E-355192 N-5958065	14N	417m

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
- Avoid organic soils containing permafrost to the extent possible
- 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 : Groundwater

Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
N3-S19	N3-Aqua-204	Aquifers vulnerable to contamination	Site: 251 to 252	E-357107 N-5959069	E-354917 N-5957921	14N	2472m

Potential Effects:

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

Specific Mitigation:

- Marshaling 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