

1:10,000

500 -- Winter Road Railway (Operational) -+ Railway (Discontinued) Mining
Provincial Park

== 66 m Right of Way

A Rail Crossing

Transmission Line Crossing

Proposed Access Route
*Labels correspond to BPIII
Access Management Database

Land Use Conservation Resource Use Forestry

Construction Environmental Protection Plan Construction Section N3 Environmentally Sensitive Site Locations

MAP NUMBER: 147

ESS Group : Groundwater

Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
N3-S14	N3-Aqua-201	Aquifers vulnerable to contamination	Site: 145 to 146	E-383776 N-5992189	E-376422 N-5984936	14N	10329m

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

ESS Group: Conservation

Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
N3-S14	N3-LUse-100	Tom Lamb WMA	Site: 141 to 142	E-383776 N-5992189	E-376422 N-5984936	14N	10329m

Potential Effects:

Potential disruption to resource use activities

Specific Mitigation:

• Subject to permit conditions

ESS Group : Permafrost

Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
N3-S14	N3-Soils-125	Permafrost	Site: 149 to 150	E-381101 N-5989551	E-380794 N-5989248	14N	432m

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

ESS Group : Forestry

Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
N3-S14	N3-RUse-301	Fuel Wood Area	Site: 143 to 144	E-383776 N-5992189	E-378823 N-5987304	14N	6957m
N3-S14	N3-RUse-302	Fuel Wood Area	Site: 147 to 148	E-381511 N-5989955	E-379564 N-5988036	14N	2734m

Potential Effects:

Potential to disrupt access to fuel wood area

Specific Mitigation:

- · Carry out construction activities on frozen or dry ground to minimize surface damage, rutting and erosion
- Avoid surface damage to and obstruction of access route
- Make fuel wood from ROW clearing available to local community where demand exists

ESS Group: Birds and Habitat

Sec-Seg I	D ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
N3-S14	N3-Wild-108	Waterfowl sensitivity area	Site: L9 to L10	E-380030 N-5988495	E-381382 N-5989828	14N	1899m

Potential Effects:

Higher risk of wire collision, disturbance during breeding and nesting, risk of wire collision is localized to the right-of-way while construction disturbance can effect colonies up to 1000 meters away

Specific Mitigation:

• Adhere to reduced risk timing windows for protection of birds (August 1- April 30)

MAP NUMBER: 147 cont'd

- 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 : Reptiles/Amphibians

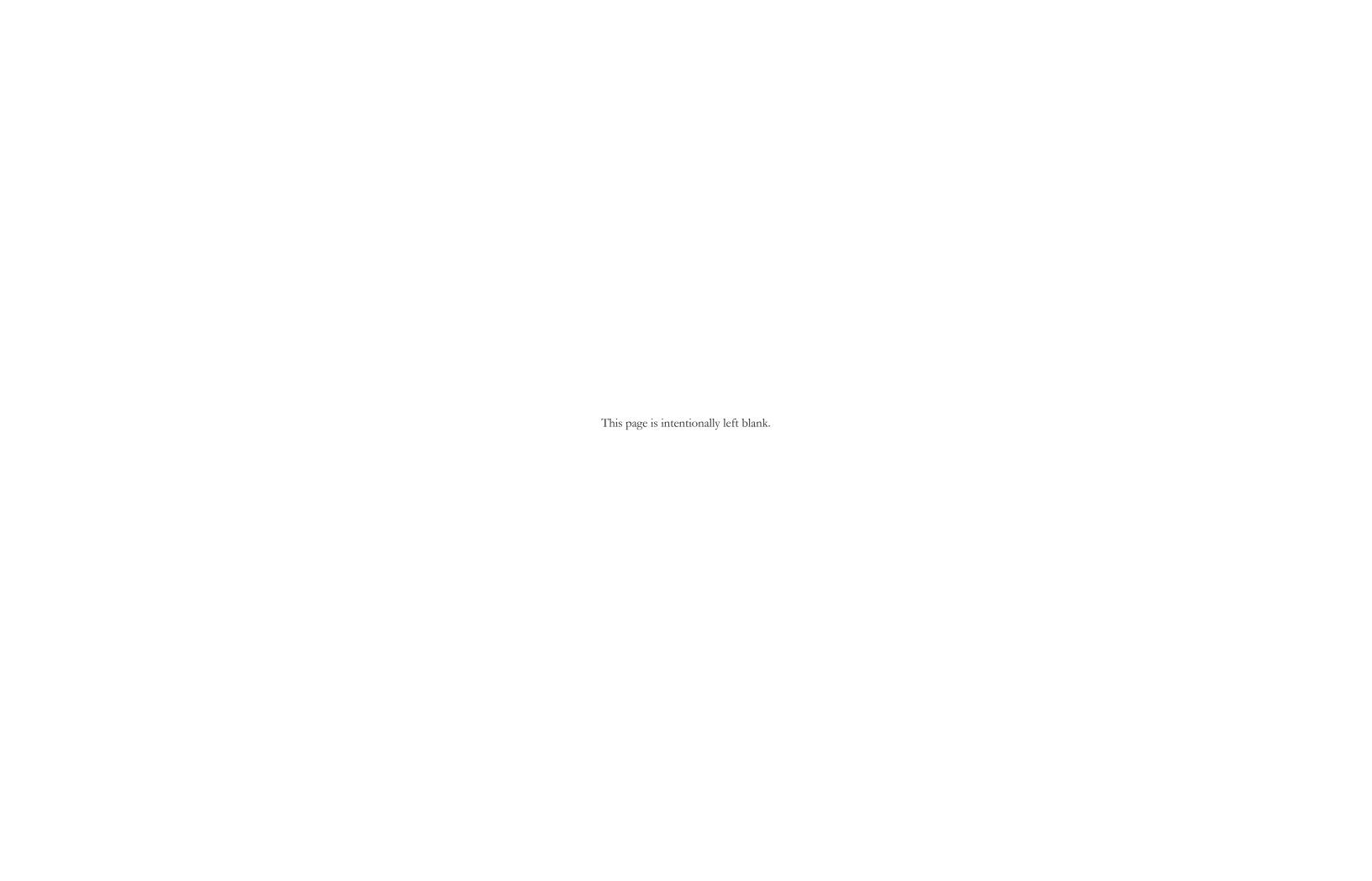
Sec-Seg ID	ESS ID	ESS Name	Location	Start	Ston	UTM Zone	Distance
N3-S14	N3-Wild-301	Snake Pit	Site: 151 to 152	E-380048 N-5988512	E-379129 N-5987607	14N	1290m

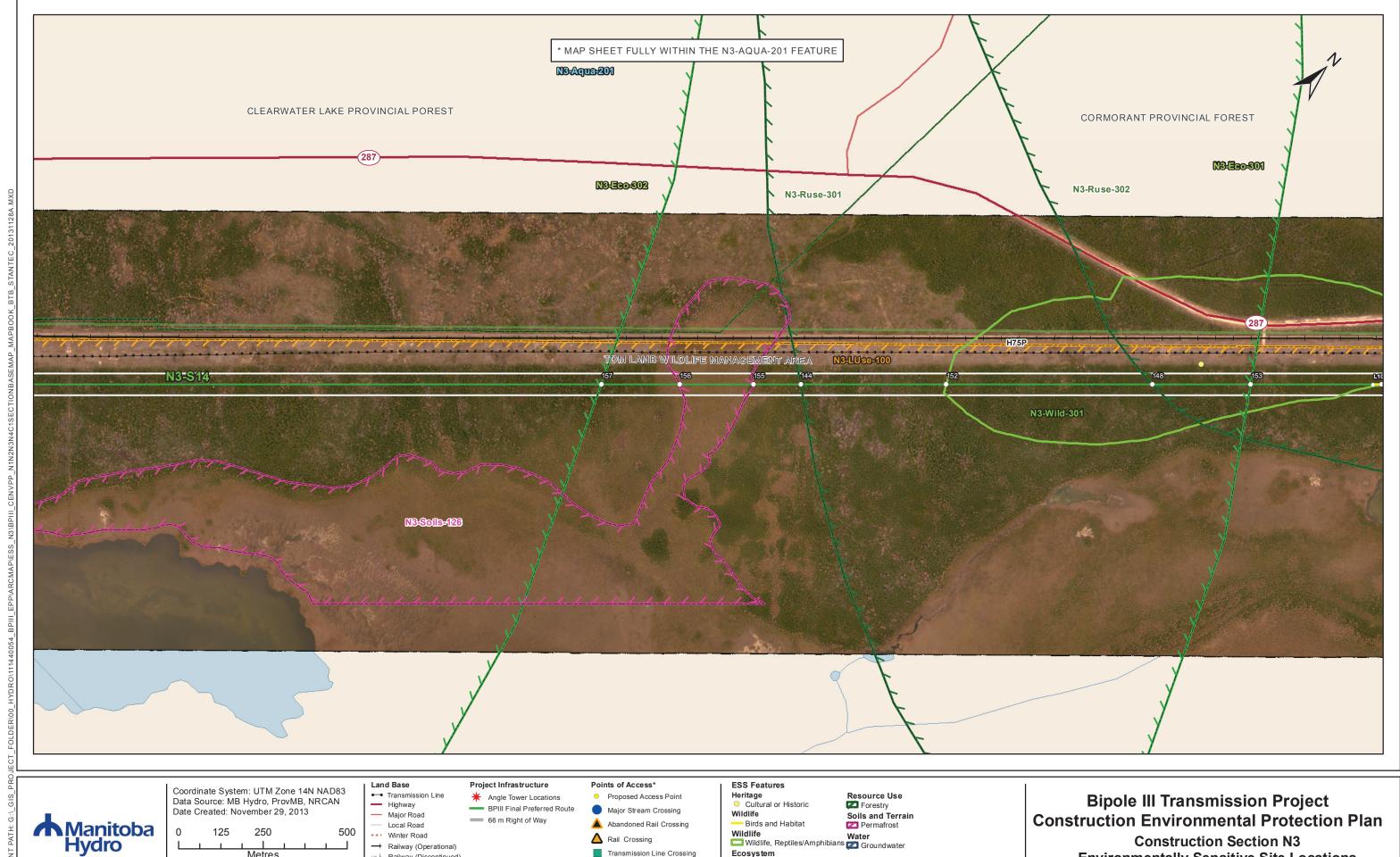
Potential Effects:

Potential loss of snake den

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





Metres 1:10,000

-+ Railway (Discontinued)

Mining
Provincial Park

Transmission Line Crossing

Ecosystem Species of Concern Proposed Access Route
*Labels correspond to BPIII
Access Management Database Land Use

Conservation

Environmentally Sensitive Site Locations

Map 148

MAP NUMBER: 148

ESS Group : Groundwater

Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
N3-S14	N3-Aqua-201	Aquifers vulnerable to contamination	Site: 145 to 146	E-383776 N-5992189	E-376422 N-5984936	14N	10329m

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

ESS Group: Conservation

Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
N3-S14	N3-LUse-100	Tom Lamb WMA	Site: 141 to 142	E-383776 N-5992189	E-376422 N-5984936	14N	10329m

Potential Effects:

Potential disruption to resource use activities

Specific Mitigation:

Subject to permit conditions

ESS Group : Permafrost

Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
N3-S14	N3-Soils-126	Permafrost	Site: 155 to 156	E-378722 N-5987205	E-378567 N-5987052	14N	218m

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 : Forestry

Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
N3-S14	N3-RUse-301	Fuel Wood Area	Site: 143 to 144	E-383776 N-5992189	E-378823 N-5987304	14N	6957m
N3-S14	N3-RUse-302	Fuel Wood Area	Site: 147 to 148	E-381511 N-5989955	E-379564 N-5988036	14N	2734m

Potential Effects:

Potential to disrupt access to fuel wood area

Specific Mitigation:

- · Carry out construction activities on frozen or dry ground to minimize surface damage, rutting and erosion
- Avoid surface damage to and obstruction of access route
- Make fuel wood from ROW clearing available to local community where demand exists

ESS Group: Species of Concern

Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
N3-S14	N3-Eco-301	Plant Species of Concern	Site: 153 to 154	E-379772 N-5988240	E-376422 N-5984936	14N	4705m
N3-S14	N3-Eco-302	Plant Species of Concern	Site: 157 to 158	E-378402 N-5986889	E-376422 N-5984936	14N	2781m

Potential Effects:

Potential loss of previously known plants of conservation concern 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 roads and access 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

MAP NUMBER: 148 cont'd

ESS Group : Reptiles/Amphibians

Sec-Seg ID	ESS ID	ESS Name	Location	Start	Ston	UTM Zone	Distance
N3-S14	N3-Wild-301	Snake Pit	Site: 151 to 152	E-380048 N-5988512	E-379129 N-5987607	14N	1290m

Potential Effects:

Potential loss of snake den

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

