

1:10,000

Metres

Mining
Provincial Park

Transmission Line Crossing Proposed Access Route
\*Labels correspond to BPIII
Access Management Database

Ecosystem Species of Concern Land Use

Conservation

**Environmentally Sensitive Site Locations** 

Map 151

### **MAP NUMBER:** 151

# **ESS Group:** Groundwater

Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	<b>UTM Zone</b>	Distance
N3-S16	N3-Aaua-201	Aquifers vulnerable to contamination	Site: 165 to 166	E-376422 N-5984936	E-372982 N-5980114	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	<b>UTM Zone</b>	Distance
N3-S16	N3-LUse-100	Tom Lamb WMA	Site: 177 to 178	E-372982 N-5980114	E-365184 N-5973831	14N	10015m

### **Potential Effects:**

Potential disruption to resource use activities

# **Specific Mitigation:**

Subject to permit conditions

ESS Group: Species of Concern

Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
N3-S16	N3-Eco-301	Plant Species of Concern	Site: 175 to 176	E-372982 N-5980114	E-369067 N-5976145	14N	5028m

### **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

### ESS Group: Birds and Habitat

Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
N3-S16		Waterfowl and colonial bird sensitivity area	Site: L13 to L14	E-372764 N-5979938	E-365184 N-5973830	14N	9734m

#### **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)
- 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: Permafrost

Sec-Seg ID	ESS ID	<b>ESS Name</b>	Location	Start	Stop	<b>UTM Zone</b>	Distance
N3-S16	N3-Soils-126	Permafrost	Site: 185 to 186	E-372640 N-5979838	E-371989 N-5979314	14N	835m

### **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

#### MAP NUMBER: 151 cont'd

- 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: Water Crossing

Sec Seg	ESS ID	ESS Name	Easting	Northing	UTM Zone	Channel Width	Wet Width	Fish Habitat Class	Habitat Sensitivity
N3-S	N3- 16 Aqua- 126	Little Frog Creek	371988	5979313	14N	N/A	8m	Important	Moderate

### **Potential Effects:**

Habitat loss & contamination from structure foundations & installations; increased erosion & sedimentation of streams; damage to stream banks; loss of riparian vegetation; fish habitat disturbance & 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 works or fording from April 15 July 15

# ESS Group: Mammals and Habitat

Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
N3-S16	N3-Wild-201	Sensitive Moose Range	Site: 182 to 183	E-372678 N-5979869	E-365184 N-593830	14N	9630mm

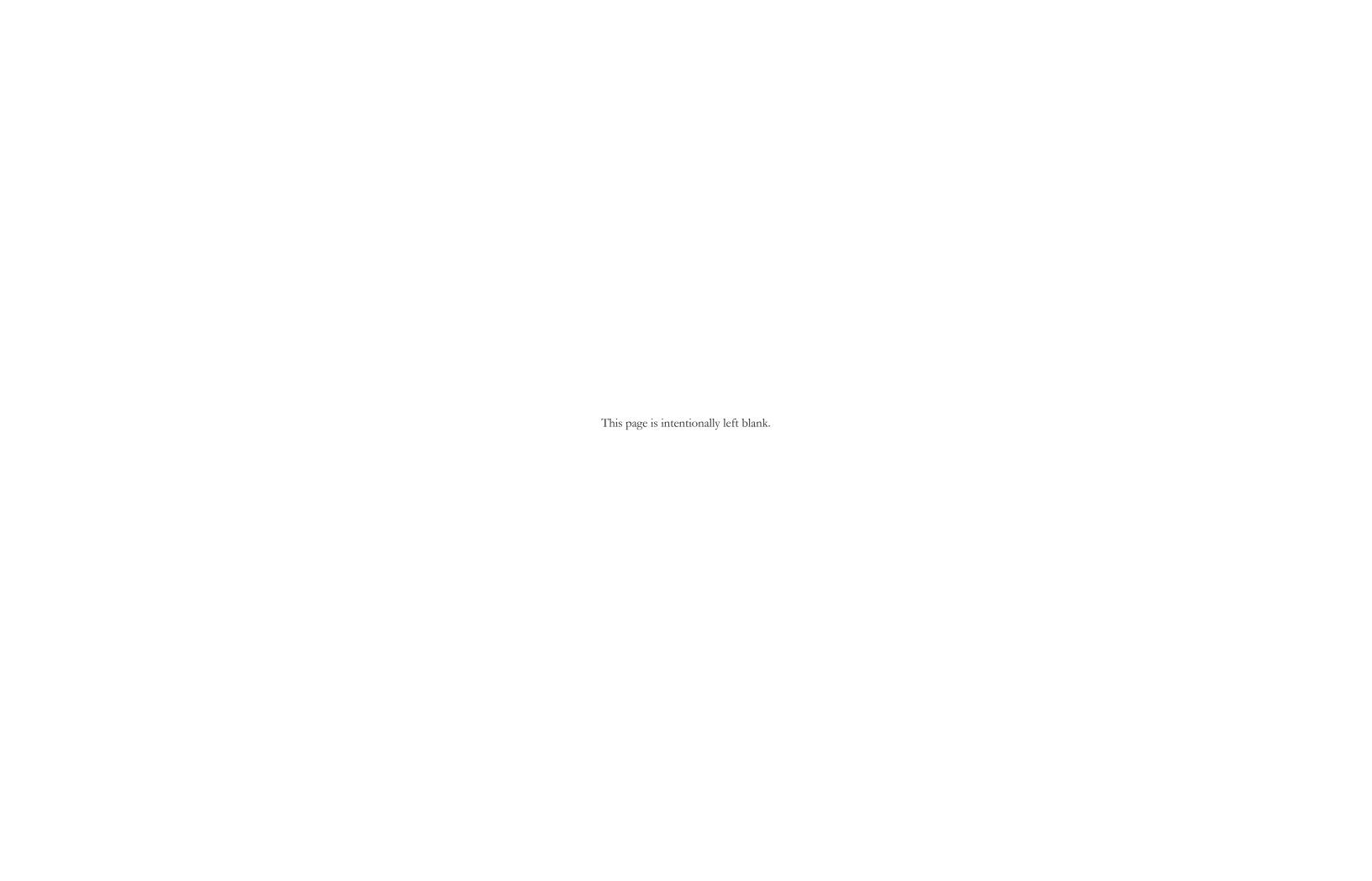
# **Potential Effects:**

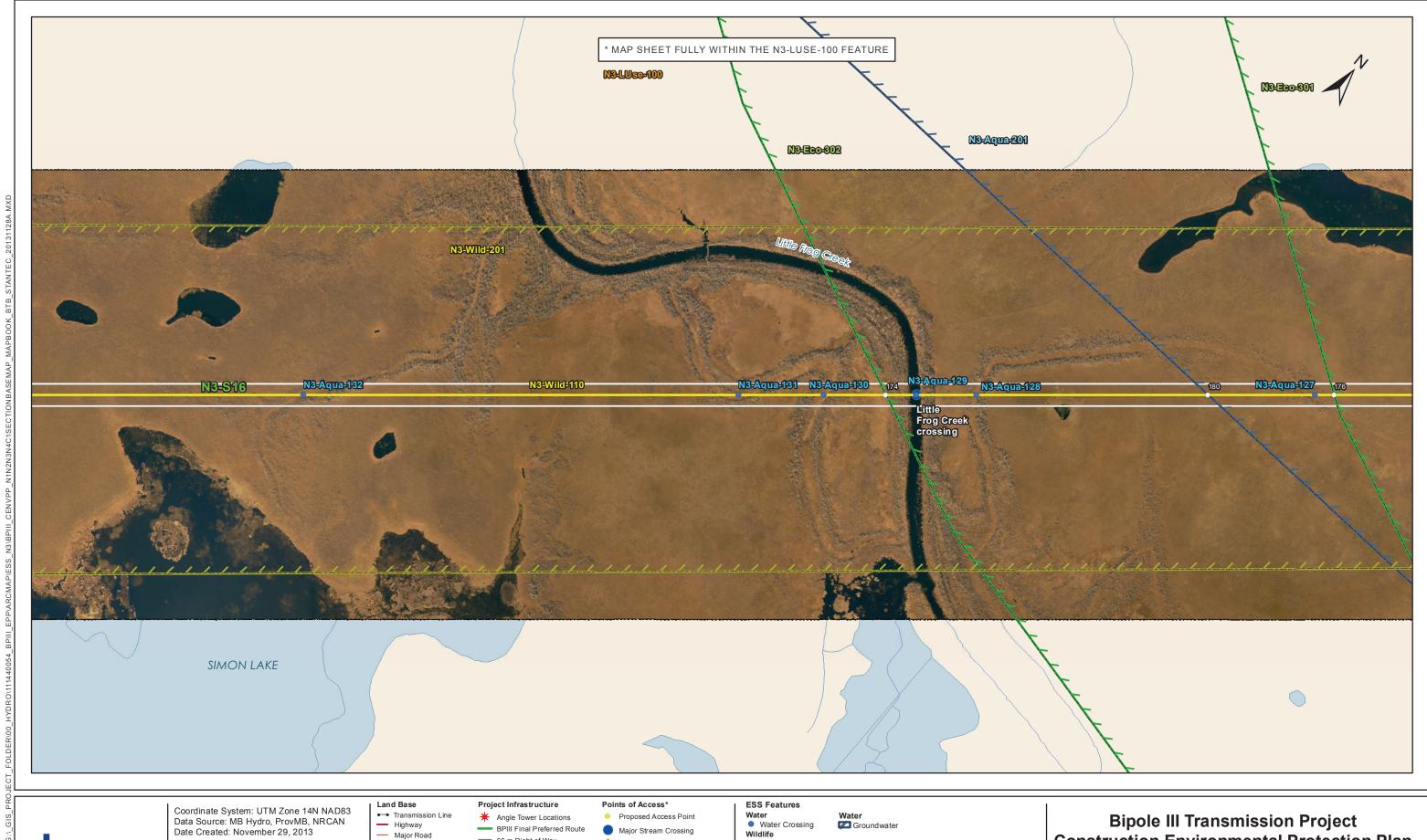
Potential disturbance to and loss of sensitive moose habitat

# **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. Majority of t-line in this area will not
  require clearing due to the absence of tree cover. Selective cutting methods to be used for any treed
  areas leaving low shrub and plant communities on the ROW. Access approaches from Moose lake
  road will be decommissioned
- 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</li>







125 250 500

Metres 1:10,000

== 66 m Right of Way Local Road -- Winter Road

Railway (Operational)

Mining
Provincial Park

-+ Railway (Discontinued)

Abandoned Rail Crossing A Rail Crossing Transmission Line Crossing

Proposed Access Route

\*Labels correspond to BPIII Access Management Database

Birds and Habitat Wildlife Mammals and Habitat Ecosystem Species of Concern Land Use Conservation

**Construction Environmental Protection Plan Construction Section N3 Environmentally Sensitive Site Locations** 

Map 152

**MAP NUMBER:** 152

ESS Group: Groundwater

Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	<b>UTM Zone</b>	Distance
N3-S16	N3-Aqua-201	Aquifers vulnerable to contamination	Site: 179 to 180	E-372982 N-5980114	E-368783 N-5976731	14N	5393m

#### **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: Water Crossing

Sec- Seg ID	ESS ID	ESS Name	Easting	Northing	UTM Zone	Channel Width	Wet Width	Fish Habitat Class	Habitat Sensitivity
N3-S16	N3- Aqua- 127	Unnamed tributary of Little Frog Creek	369023	5976925	14N	23m	Dry	No Fish Habitat	Low
N3-S16	N3- Aqua- 128	Unnamed tributary of Little Frog Creek	368260	5976309	14N	19m	Dry	No Fish Habitat	Low
N3-S16	N3- Aqua- 130	Unnamed tributary of Little Frog Creek	367916	5976032	14N	30m	Dry	No Fish Habitat	Low
N3-S16	N3- Aqua- 131	Unnamed tributary of Little Frog Creek	367723	5975877	14N	26m	Dry	No Fish Habitat	Low
N3-S16	N3- Aqua- 132	Unnamed tributary of Little Frog Creek	366742	5975086	14N	16m	Dry	No Fish Habitat	Low

# **Potential Effects:**

Habitat loss & 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.
- 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: Water Crossing

Sec-Seg ID	ESS ID	ESS Name	Easting	Northing	UTM Zone	Channel Width	Wet Width	Fish Habitat Class	Habitat Sensitivity
N3-S16	N3-Aqua- 129	Little Frog Creek	368260	5976309	14N	28m	28m	Important	Moderate

### **Potential Effects:**

Habitat loss & contamination from structure foundations & installations; increased erosion & sedimentation of streams; damage to stream banks; loss of riparian vegetation; fish habitat disturbance & 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.
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- 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 works or fording from April 15 July 15

# **ESS Group:** Species of Concern

Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
N3-S16	N3-Eco-301	Plant Species of Concern	Site: 175 to 176	E-372982 N-5980114	E-369067 N-5976145	14N	5028m
N3-S16	N3-Eco-302	Plant Species of Concern	Site: 173 to 174	E-372982 N-5980114	E-368057 N-5976145	14N	6326m

#### **Potential Effects:**

Potential loss of previously known plants of conservation concern from clearing, construction, maintenance and decommissioning activities

MAP NUMBER: 152 cont'd

# **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

# ESS Group: Birds and Habitat

Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
N3-S16		Waterfowl and colonial bird sensitivity area	Site: 113 to 114		E-365184 N-5973830	14N	9734m

#### **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)
- Maintain applicable setback during nesting and breeding timing window
- · Conduct priority assessment for bird diverters and other measures prior to transmission line stringing
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### **ESS Group:** Conservation

!	Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	<b>UTM Zone</b>	Distance
	N3-S16	N3-LUse-100	Tom Lamb WMA	Site: 177 to 178	E-372982 N-5980114	E-365184 N-5973831	14N	10015m

### **Potential Effects:**

Potential disruption to resource use activities

# **Specific Mitigation:**

Subject to permit conditions

# **ESS Group:** Mammals and Habitat

Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	<b>UTM Zone</b>	Distance
N3-S16	N3-Wild-201	Sensitive Moose Range	Site: 182 to 183	E-372678 N-5979869	E-365184 N-593830	14N	9630mm

### **Potential Effects:**

Potential disturbance to and loss of sensitive moose habitat

### **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. Majority of t-line in this area will not
  require clearing due to the absence of tree cover. Selective cutting methods to be used for any treed
  areas leaving low shrub and plant communities on the ROW. Access approaches from Moose lake
  road will be decommissioned
- 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</li>

