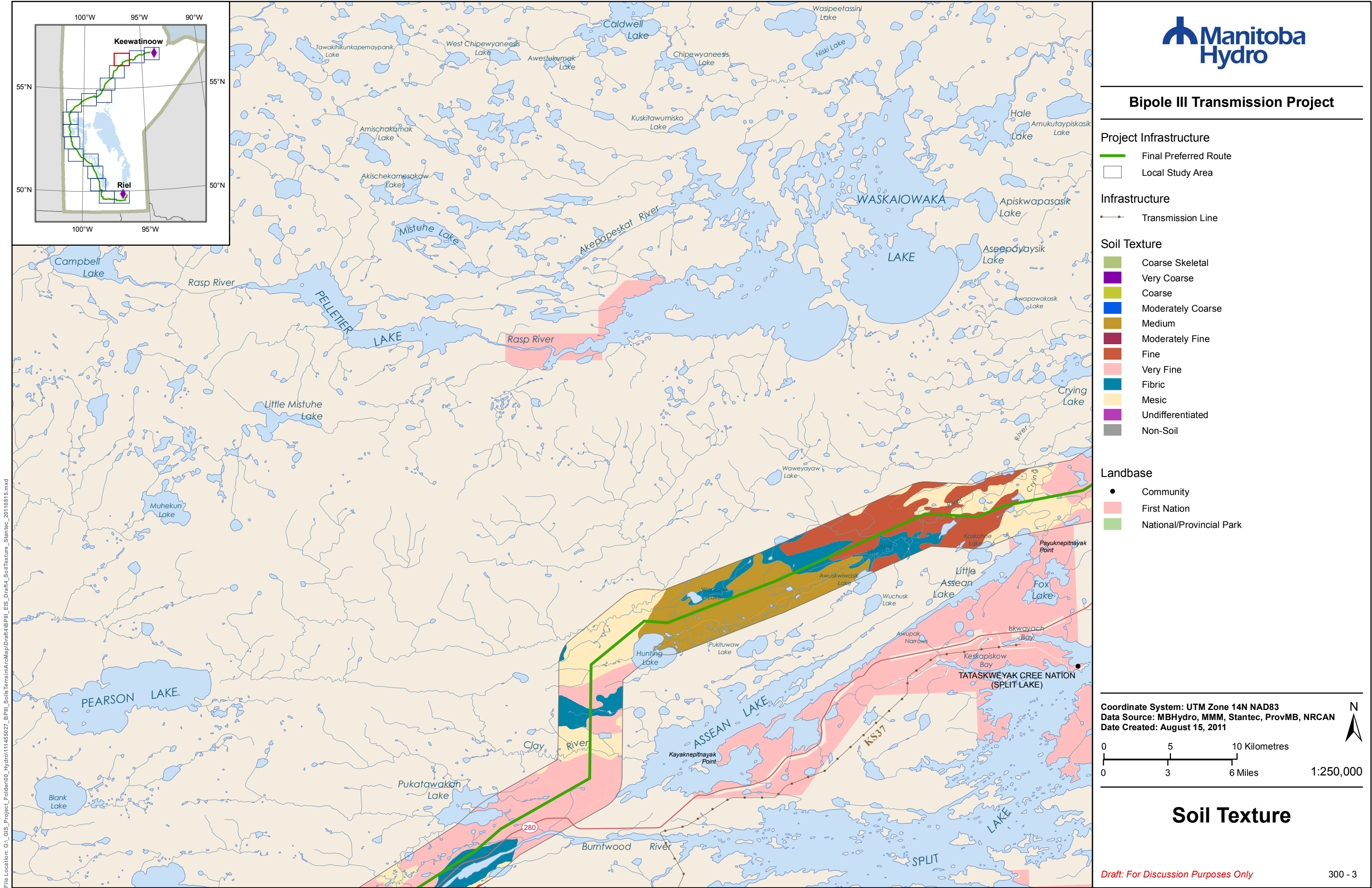
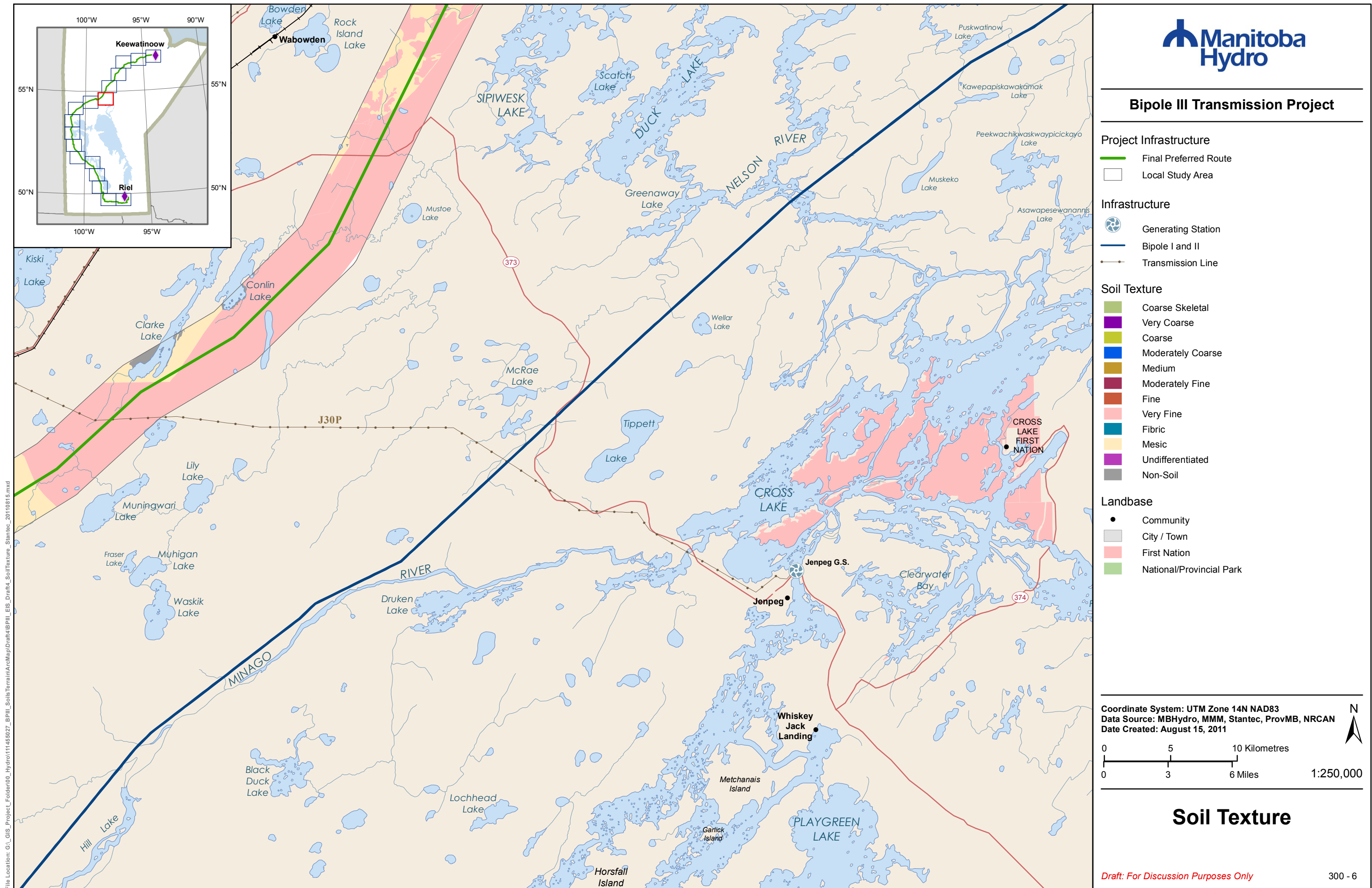
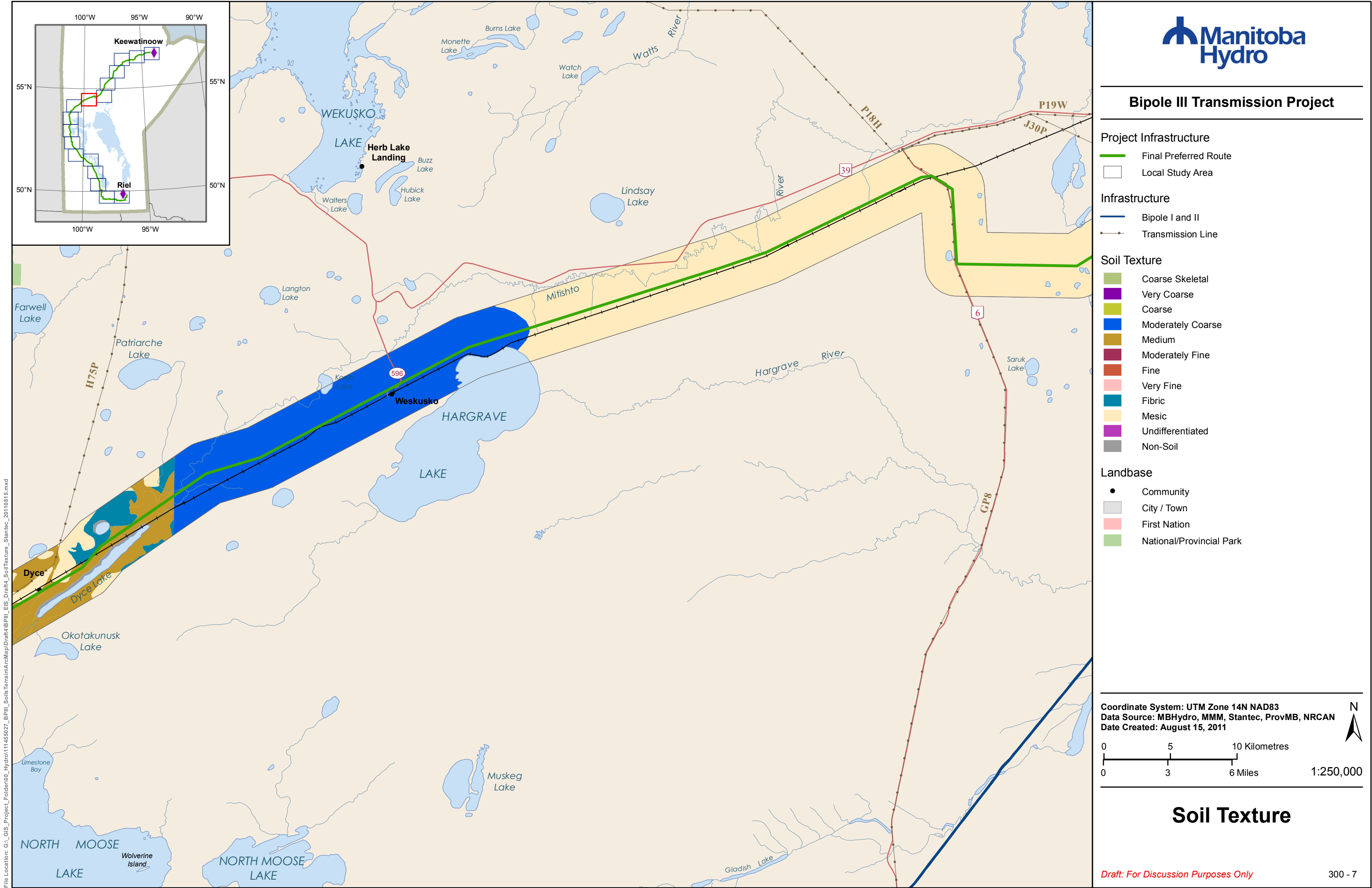


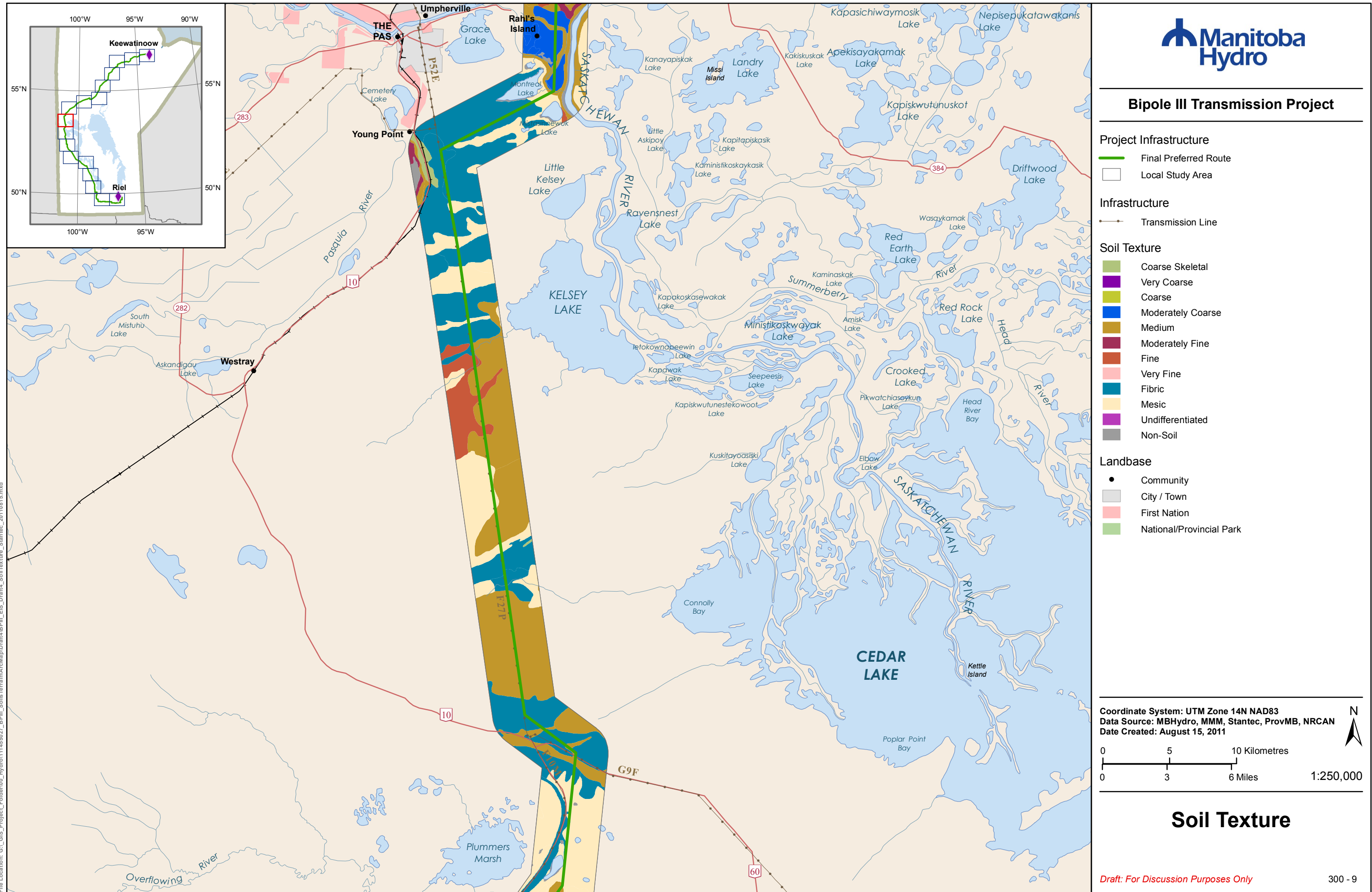
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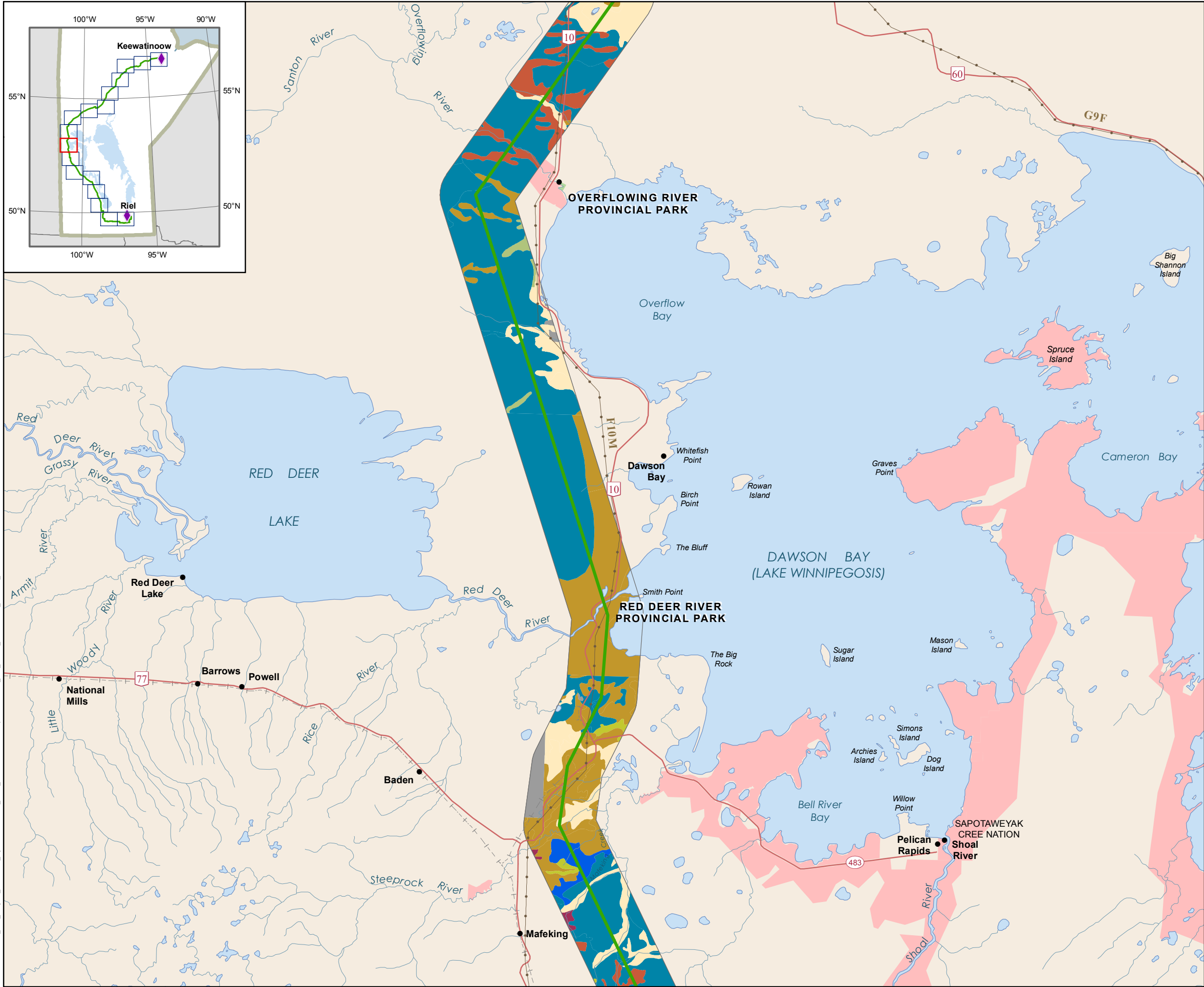


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Created By: Stantec



Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Local Study Area

Infrastructure

- Transmission Line

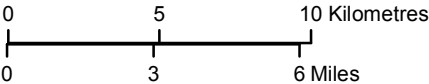
Soil Texture

- Coarse Skeletal
- Very Coarse
- Coarse
- Moderately Coarse
- Medium
- Moderately Fine
- Fine
- Very Fine
- Fibric
- Mesic
- Undifferentiated
- Non-Soil

Landbase

- Community
- City / Town
- First Nation
- National/Provincial Park

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, MMM, Stantec, ProvMB, NRCAN
Date Created: August 15, 2011

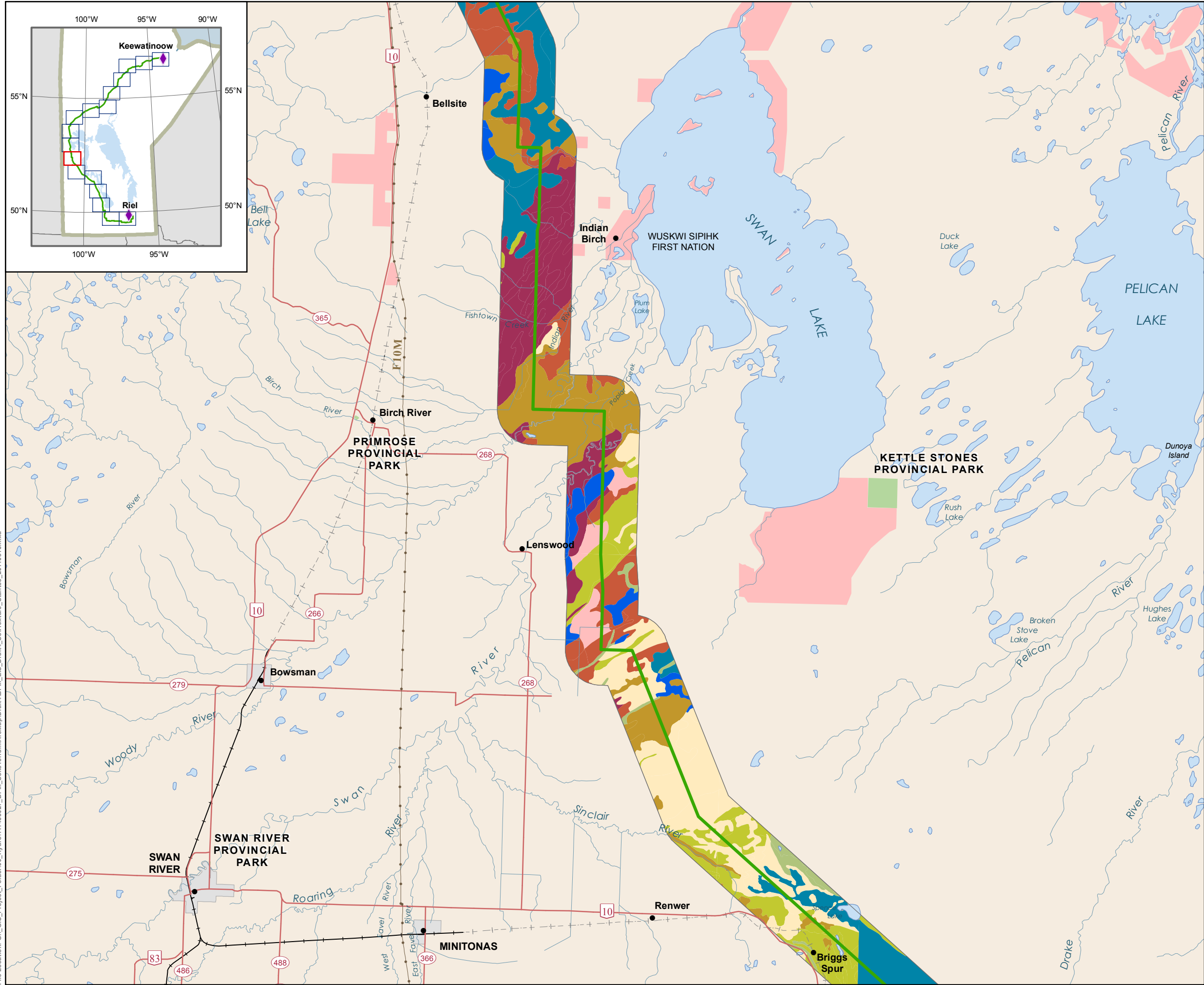


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Soil Texture

Draft: For Discussion Purposes Only

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Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Local Study Area

Infrastructure

- Transmission Line

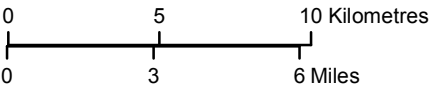
Soil Texture

- Coarse Skeletal
- Very Coarse
- Coarse
- Moderately Coarse
- Medium
- Moderately Fine
- Fine
- Very Fine
- Fibric
- Mesic
- Undifferentiated
- Non-Soil

Landbase

- Community
- City / Town
- First Nation
- National/Provincial Park

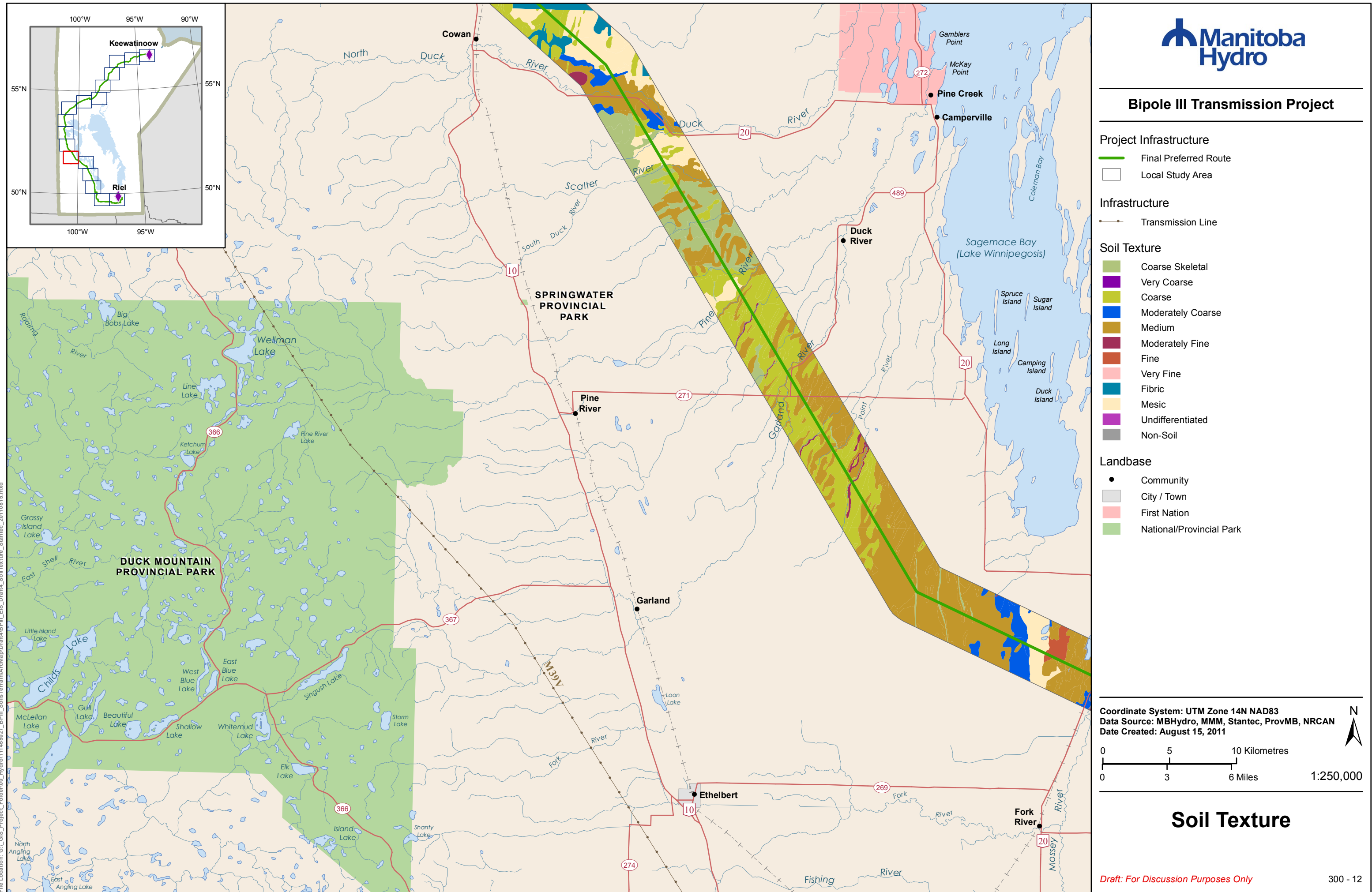
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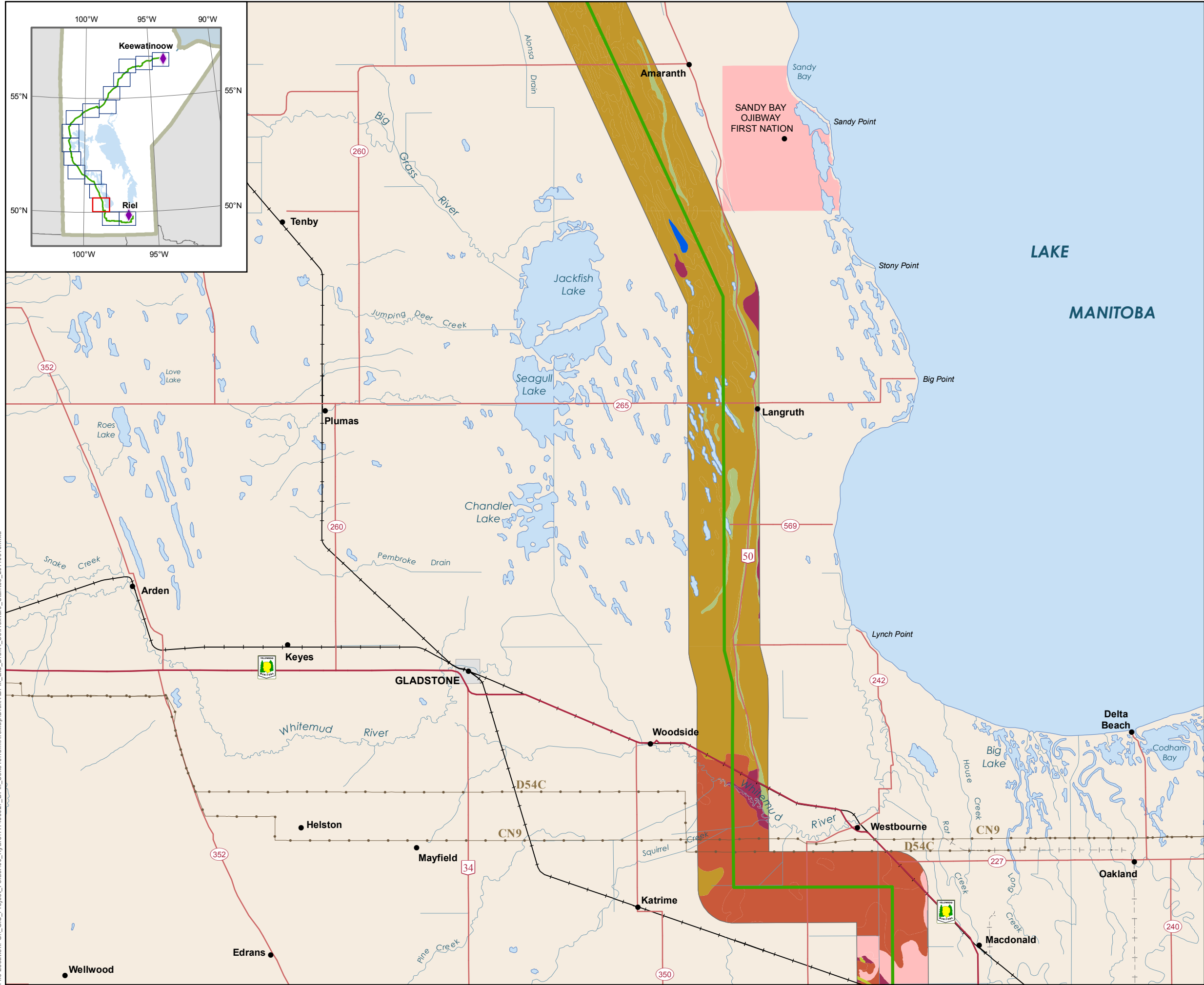
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Soil Texture

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Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Local Study Area

Infrastructure

- Transmission Line

Soil Texture

- Coarse Skeletal
- Very Coarse
- Coarse
- Moderately Coarse
- Medium
- Moderately Fine
- Fine
- Very Fine
- Fibric
- Mesic
- Undifferentiated
- Non-Soil

Landbase

- Community
- City / Town
- First Nation
- National/Provincial Park

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, MMM, Stantec, ProvMB, NRCAN
Date Created: August 15, 2011

0 5 10 Kilometres
0 3 6 Miles

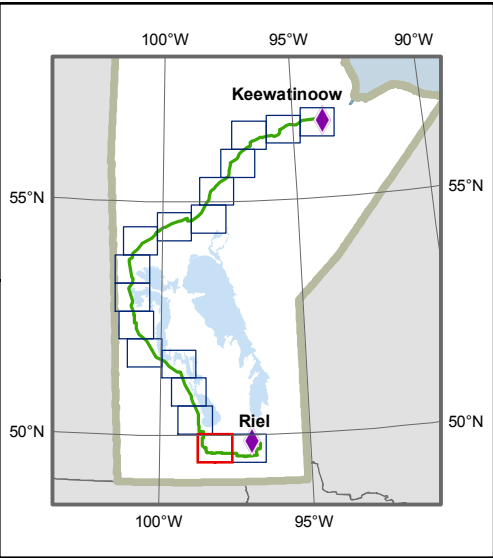
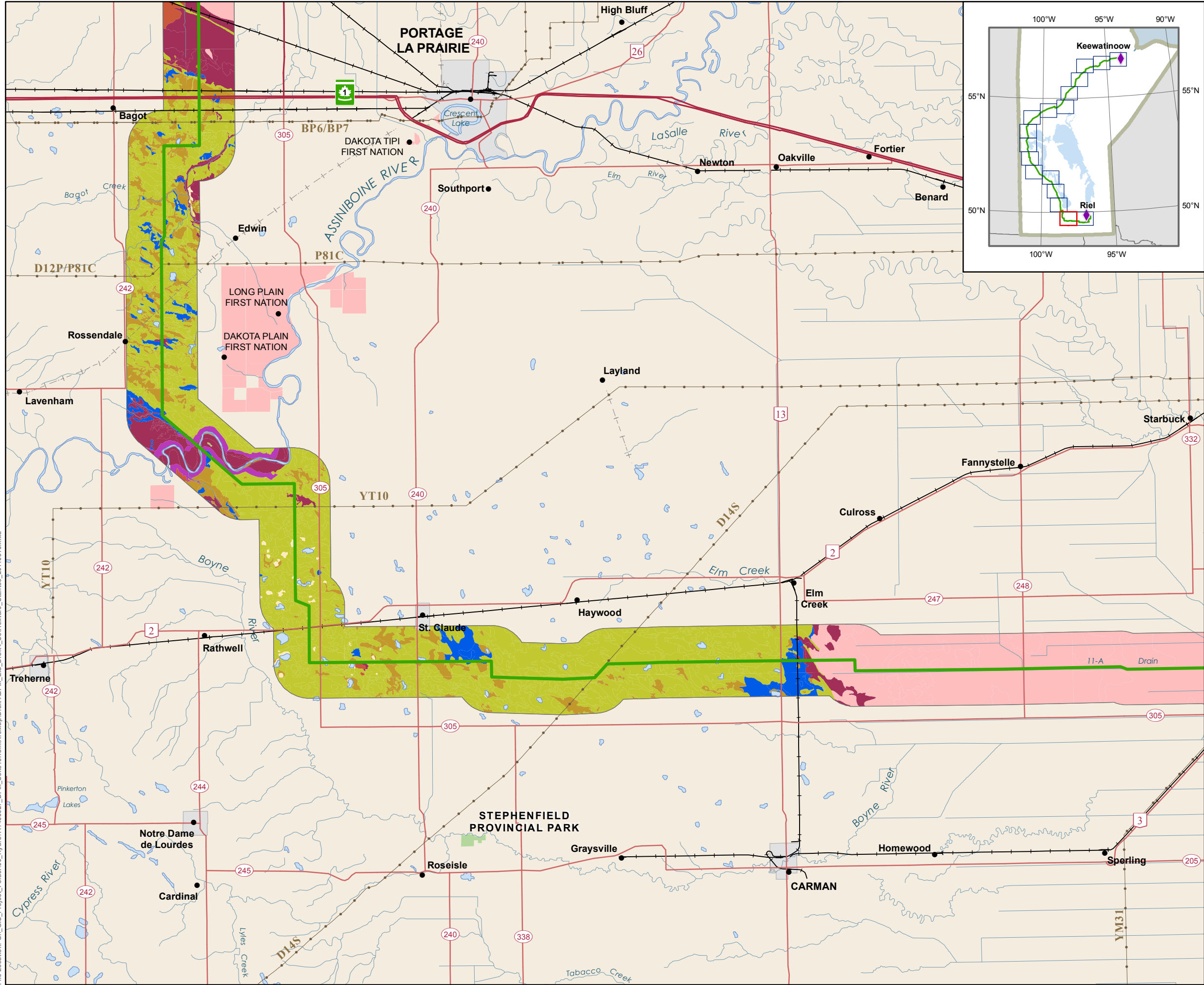
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Soil Texture

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300 - 15

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Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Local Study Area

Infrastructure

- Transmission Line

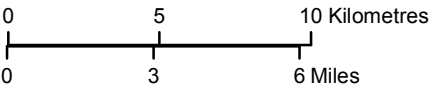
Soil Texture

- Coarse Skeletal
- Very Coarse
- Coarse
- Moderately Coarse
- Medium
- Moderately Fine
- Fine
- Very Fine
- Fibric
- Mesic
- Undifferentiated
- Non-Soil

Landbase

- Community
- City / Town
- First Nation
- National/Provincial Park

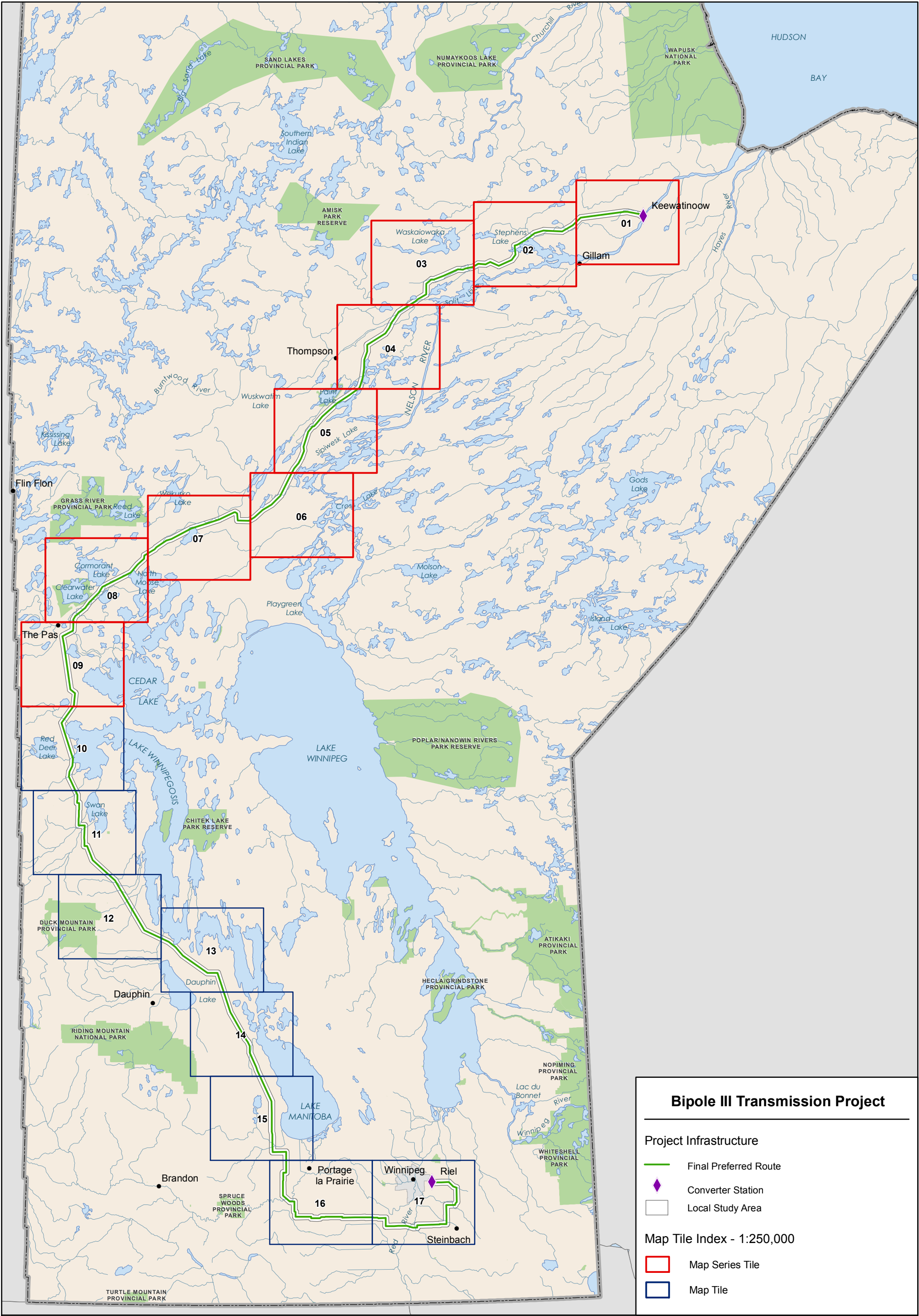
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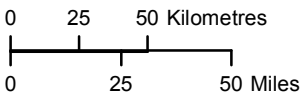
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Soil Texture

Draft: For Discussion Purposes Only



Coordinate System: UTM Zone 14N NAD83
Data Source: MB Hydro, MMM, ProvMB
Date Created: August 11, 2011



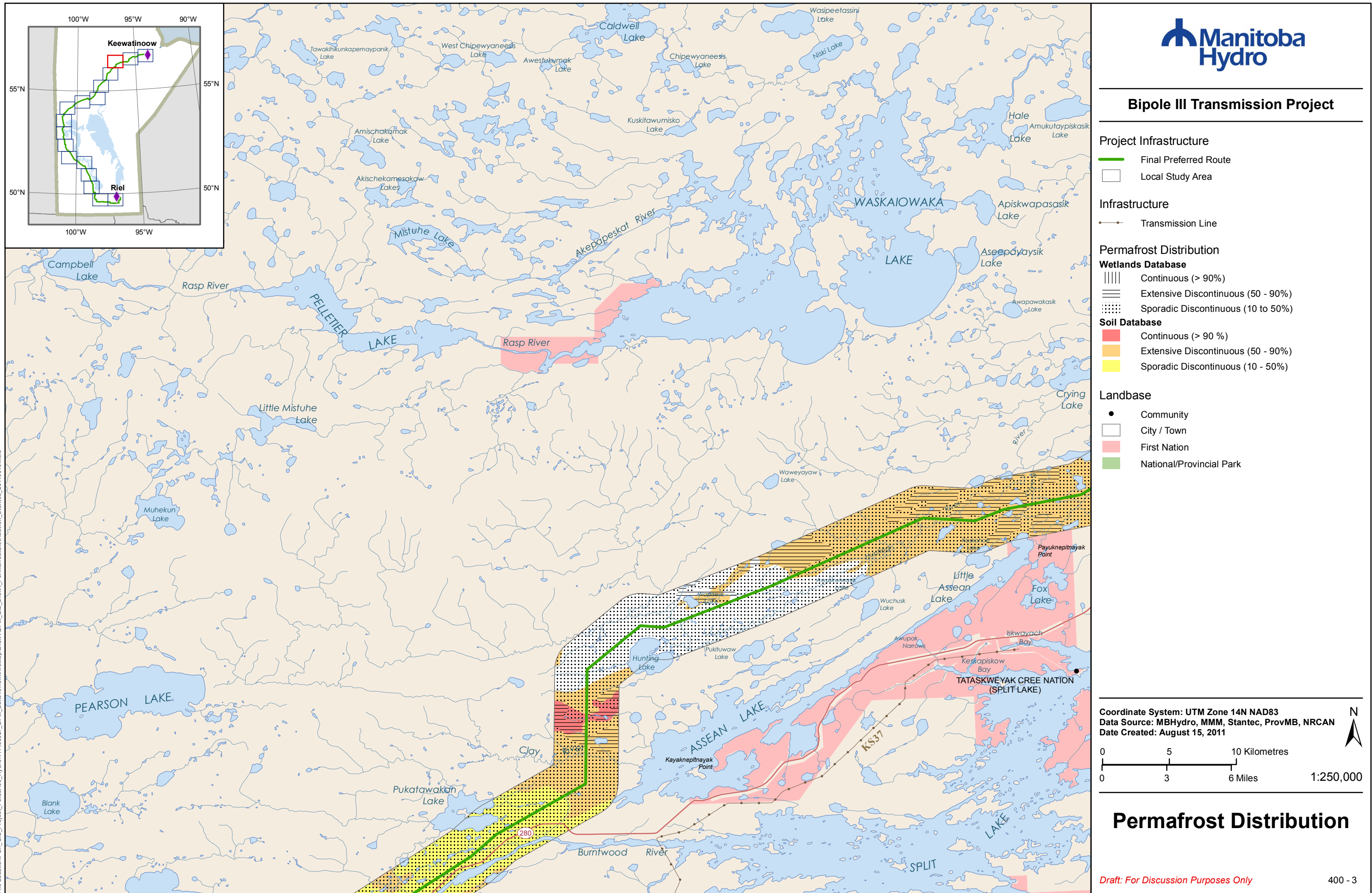
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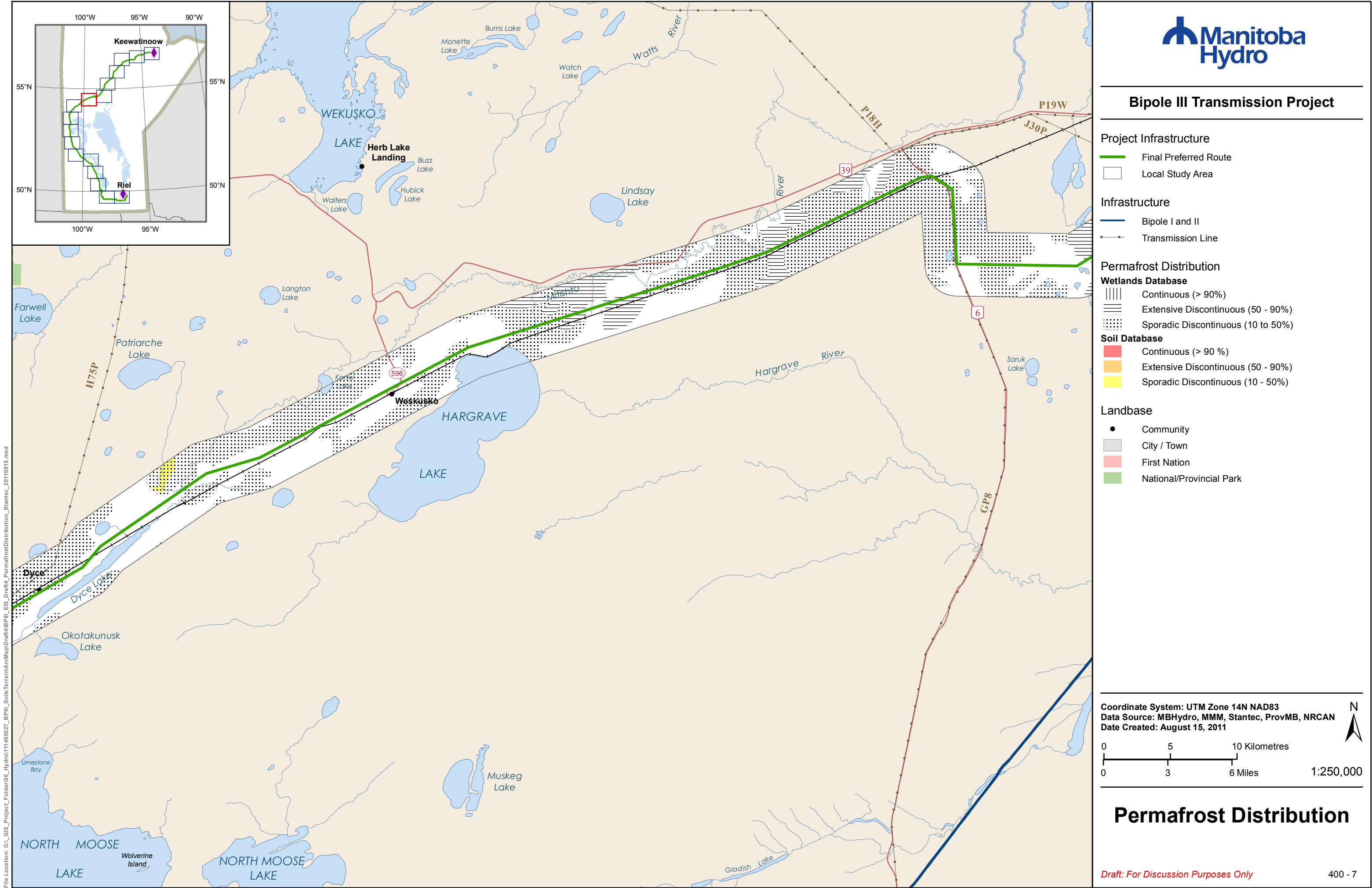
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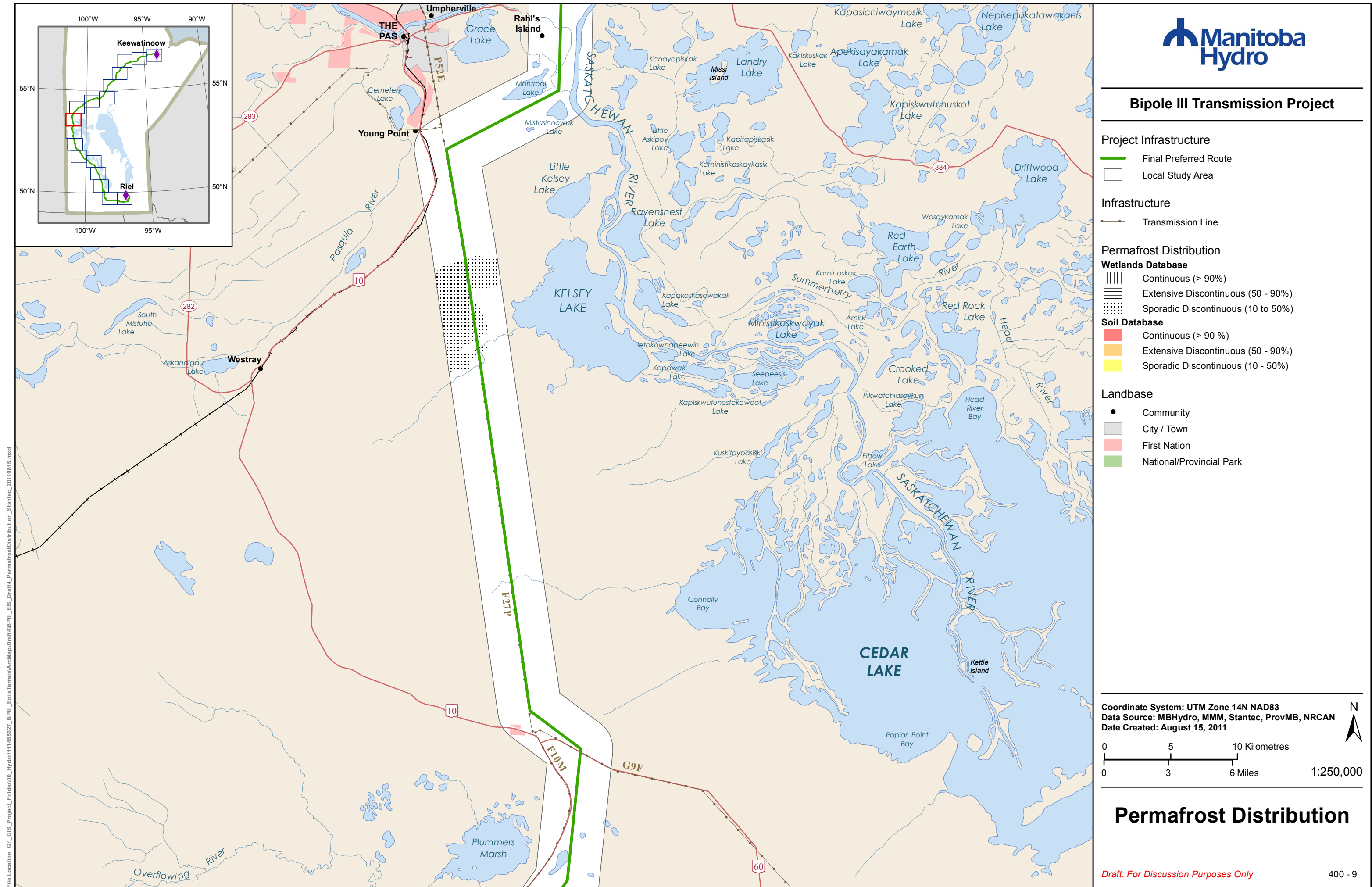
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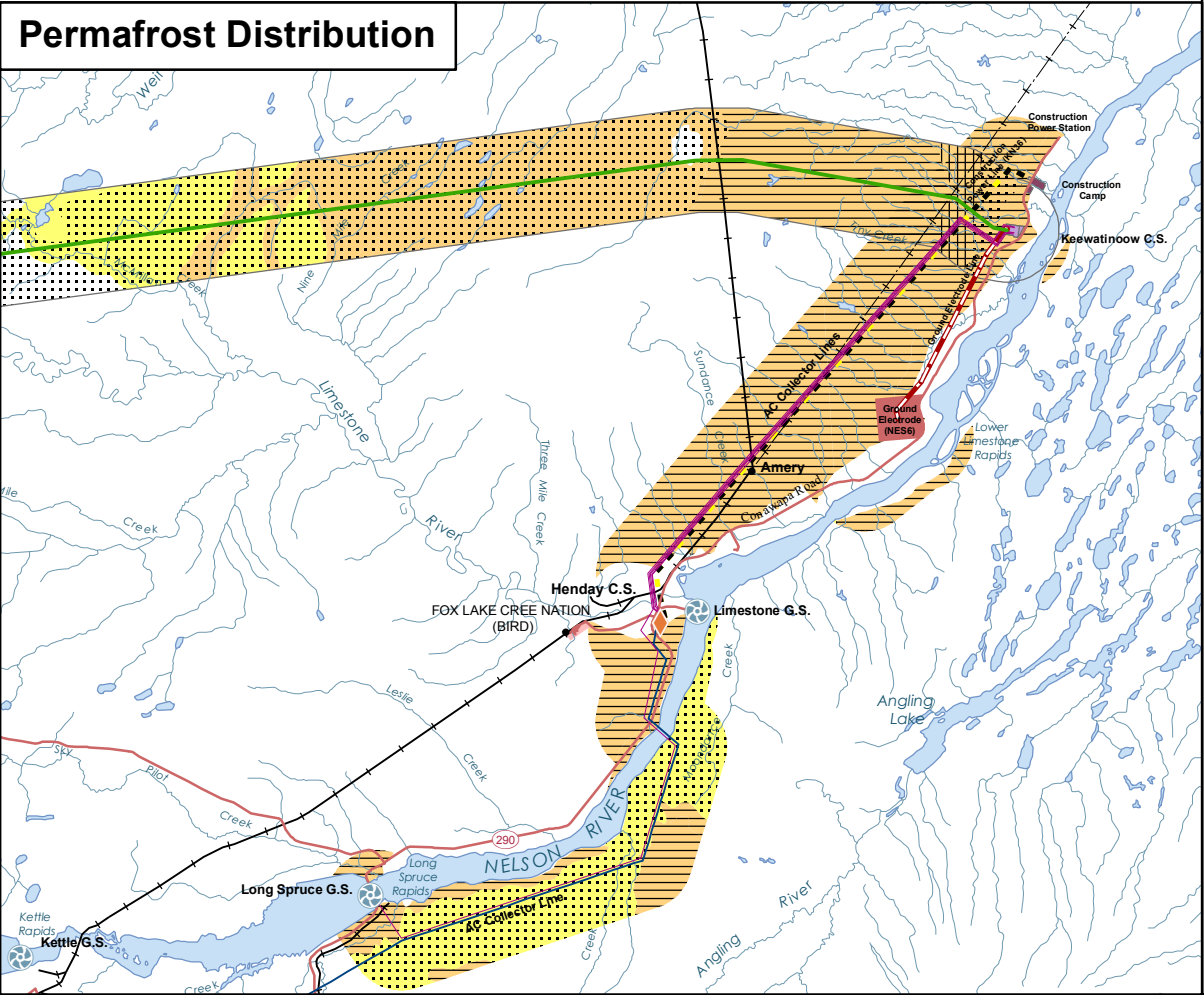
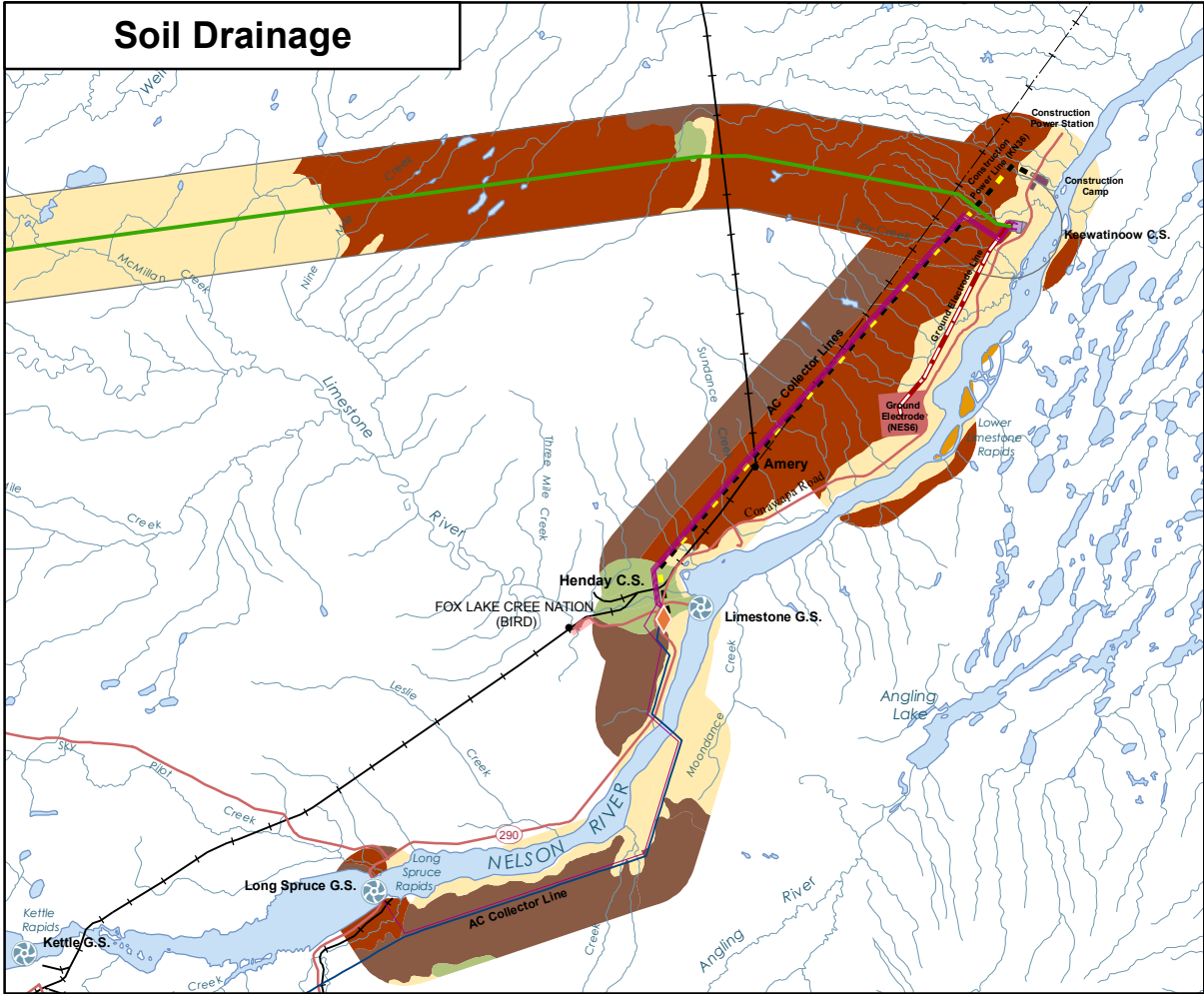
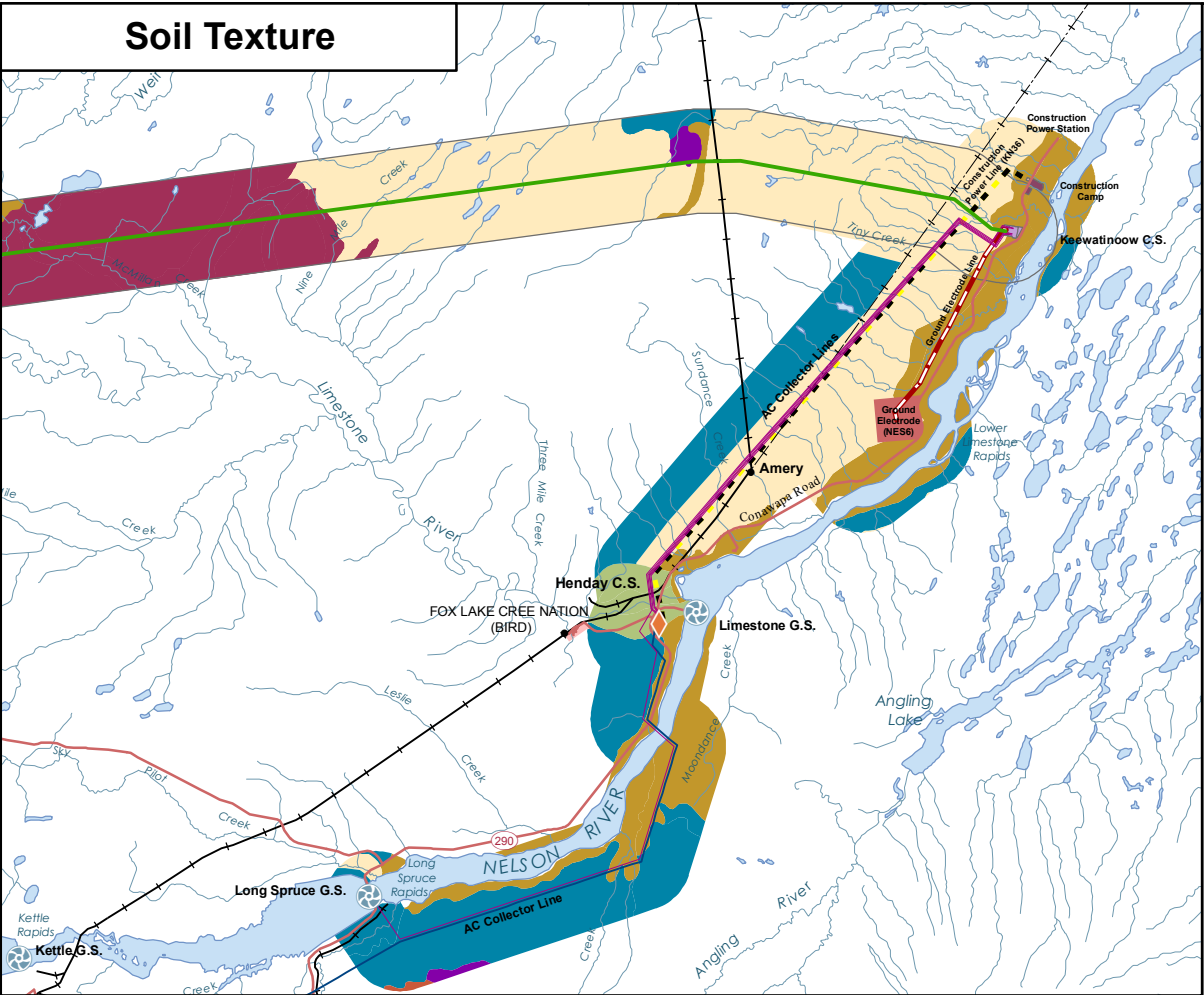
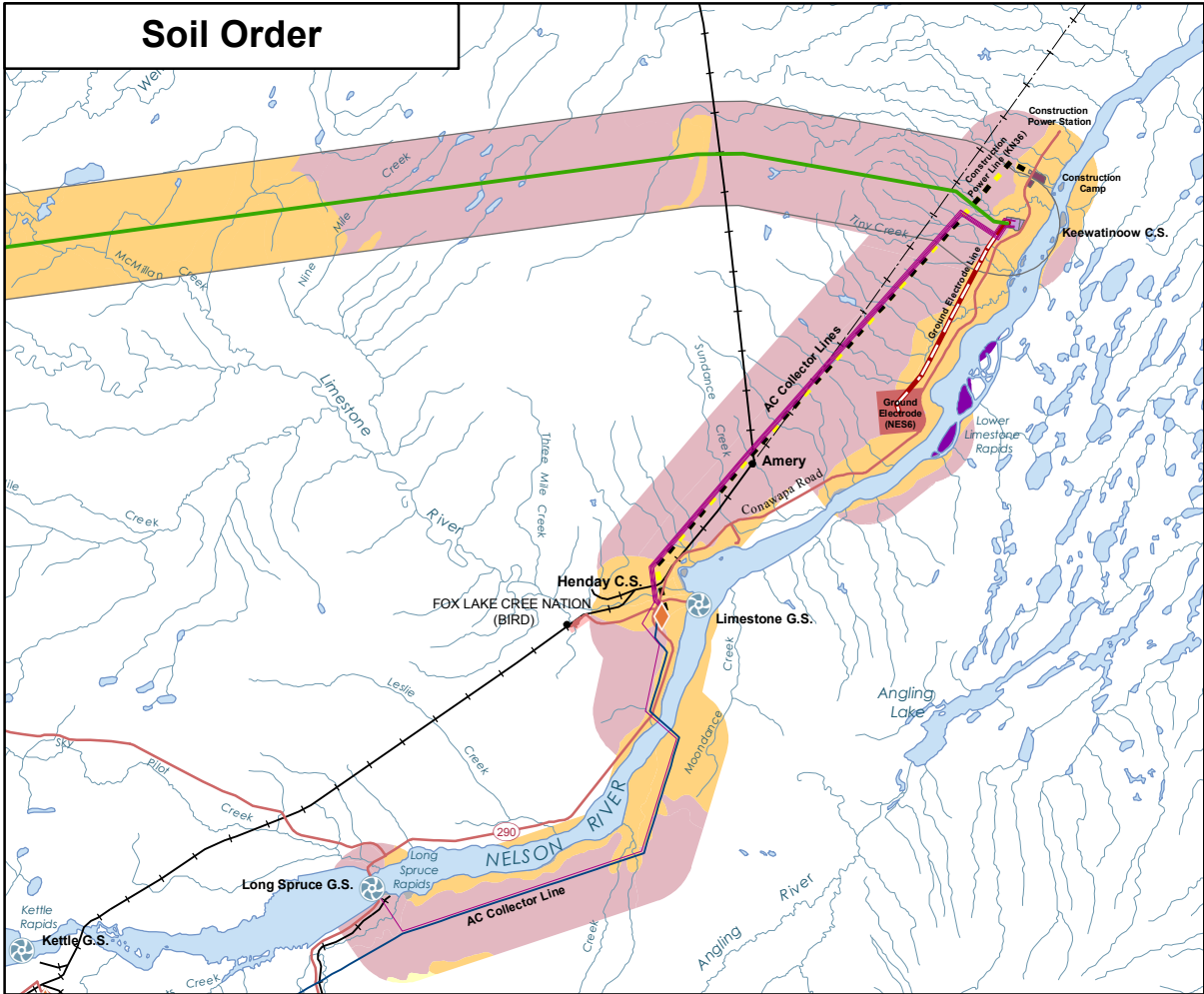
Permafrost Distribution



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Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station Site
- AC Collector Line
- Ground Electrode Line
- Ground Electrode Site
- Construction Power (KN36)
- Construction Power Site
- Construction Camp Site
- Local Study Area

Infrastructure

- Converter Station
- Generating Station
- Bipole I and II

Soil Order

- Brunisols
- Chernozems
- Cryosols
- Gleysols
- Luvisols
- Organics
- Regosols
- Vertisols
- Non-Soil

Soil Texture

- Coarse Skeletal
- Very Coarse
- Coarse
- Moderately Coarse
- Medium
- Moderately Fine
- Fine
- Fibric
- Mesic
- Undifferentiated
- Non-Soil

Soil Drainage

- Rapid
- Well
- Moderately Well
- Imperfect
- Poor
- Very Poor
- Non-Soil

Permafrost Distribution

- Wetlands Database
 - Continuous (> 90%)
 - Extensive Discontinuous (50 - 90%)
 - Sporadic Discontinuous (10 to 50%)
- Soils Database
 - Continuous (> 90%)
 - Extensive Discontinuous (50 - 90%)
 - Sporadic Discontinuous (10 - 50%)

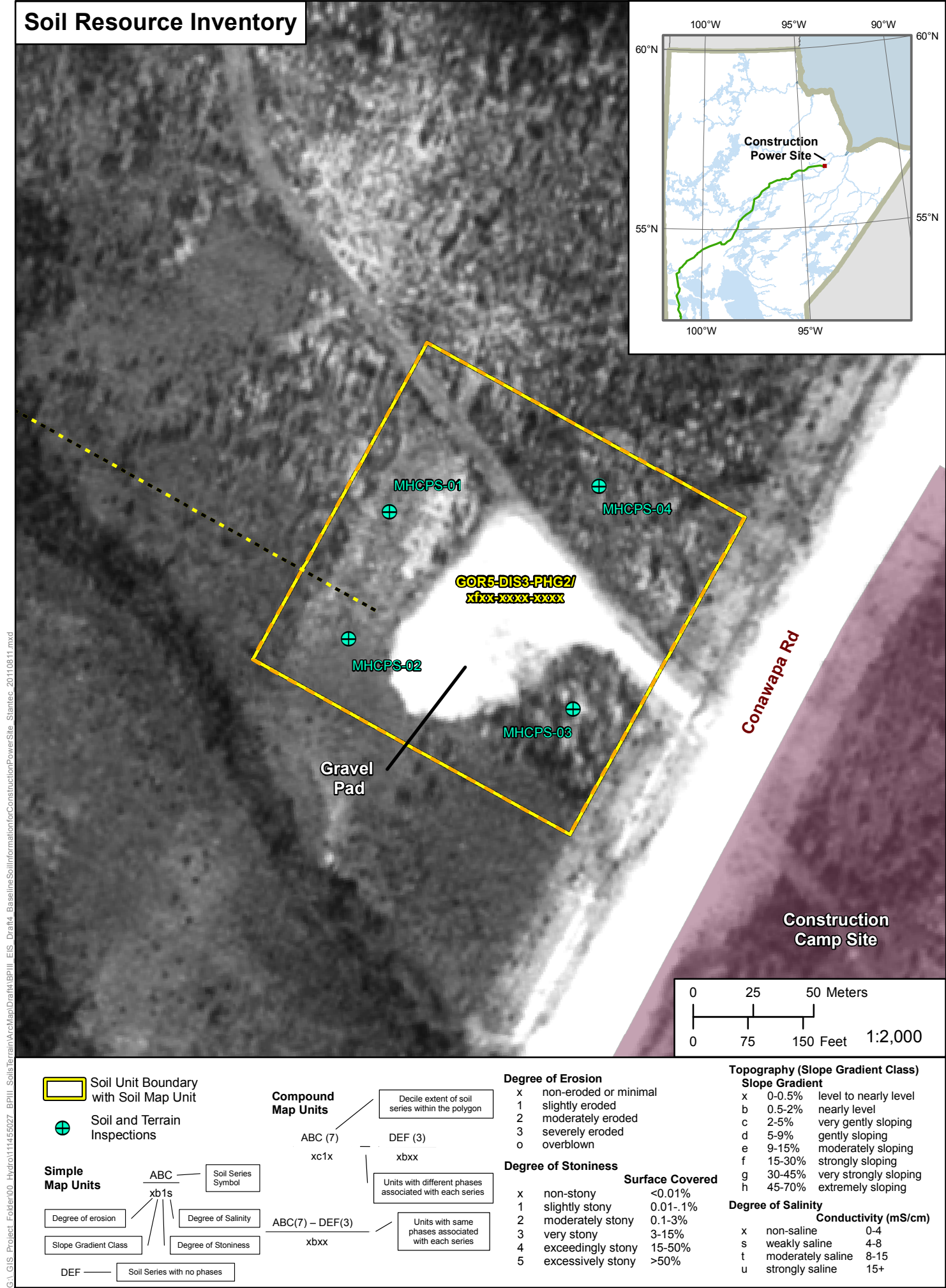
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Data Source: MBHydro, MMM, ProvMB, Stantec
Date Created: August 11, 2011



Northern Infrastructure Lines Soil Baseline Conditions

Draft: For Discussion Purposes Only

Map 5



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Bipole III Transmission Project

Project Infrastructure

- Construction Power (KN36)
- Construction Camp Site
- Construction Power Site Study Area

Soil Baseline Conditions

Soil Drainage

- Rapid
- Well
- Moderately Well
- Imperfect
- Poor
- Very Poor
- Non-Soil

Soil Texture

- Coarse Skeletal
- Very Coarse
- Coarse
- Moderately Coarse
- Medium
- Moderately Fine
- Fine
- Very Fine
- Fibric
- Mesic
- Undifferentiated
- Non-Soil

Permafrost Distribution

Wetlands Database

- Continuous (> 90%)
- Extensive Discontinuous (50 - 90%)
- Sporadic Discontinuous (10 to 50%)

Soils Permafrost

- Continuous (> 90 %)
- Extensive Discontinuous (50 - 90%)
- Sporadic Discontinuous (10 - 50%)

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, MMM, ProvMB, Stantec
Date Created: August 11, 2011

Construction Power Site Soil Baseline Conditions

Draft: For Discussion Purposes Only

Map 6