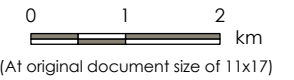


**APPENDIX C:  
EXISTING CONDITIONS FIGURES**



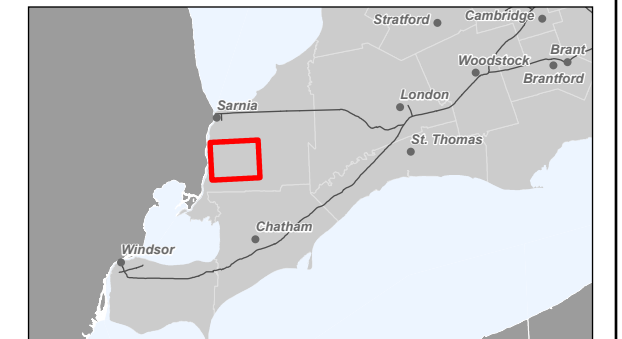
**Legend**

- Study Area
- Preferred Route
- Existing Station
- Railway
- Expressway / Highway
- Major Road
- Minor Road
- Watercourse (Permanent)
- Waterbody
- Bedrock Geology**
- 61: Shale; Port Lambton Gp.
- 60a: Kettle Point Fm.
- 59a: Hamilton Gp.



**Notes**

1. Coordinate System: Name: NAD 1983 UTM Zone 17N
2. Base features produced under license with the Ontario Ministry of Natural Resources and Forestry © Queen's Printer for Ontario, 2020.
3. Bedrock geology data source: Ontario Geological Survey 2011, 1:250 000 scale bedrock geology of Ontario; Ontario Geological Survey, Miscellaneous Release-Data 126-Revision 1. ISBN 978-1-4435-5704-7 (CD) ISBN 978-1-4435-5705-4



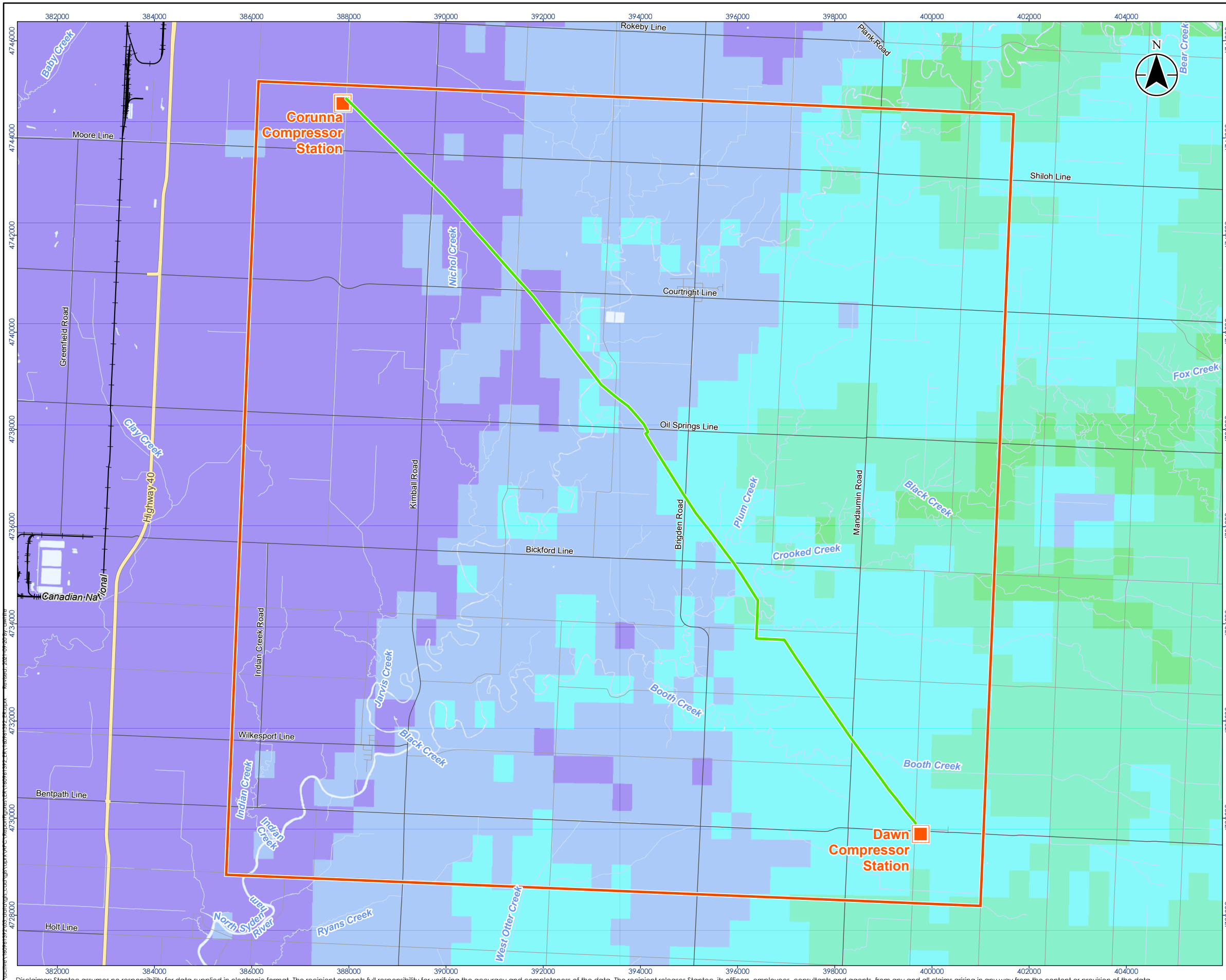
Project Location 160961392\_ER\_Fig01\_Bedrock\_Geology REVA  
 Lambton County Prepared by ABC on 2021-09-20  
 Technical Review by EH on 2021-09-17

Client/Project  
 ENBRIDGE GAS INC.  
 DAWN TO CORUNNA PIPELINE PROJECT

Figure No.  
**1**

Title  
**Bedrock Geology**

Esri, HERE, Garmin, INCREMENT P, USGS, EPA, NRCan



**Legend**

- Study Area
- Preferred Route
- Existing Station
- Railway
- Expressway / Highway
- Major Road
- Minor Road
- Watercourse
- Waterbody

**Drift Thickness (m)**

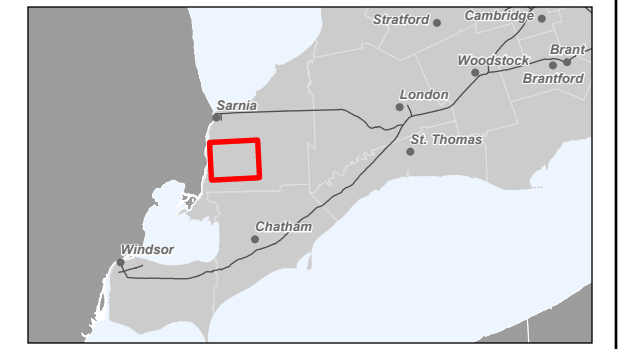
- ≤ 15
- ≤ 20
- ≤ 30
- ≤ 40
- ≤ 75



1: (At original document size of 11x17)

**Notes**

1. Coordinate System: Name: NAD 1983 UTM Zone 17N
2. Base features produced under license with the Ontario Ministry of Natural Resources and Forestry © Queen's Printer for Ontario, 2020.
3. Drift thickness data source: Gao, C., Shirota, J., Kelly, R.I., Brunton, F.R. and van Haafften, S. 2006. Bedrock topography and overburden thickness mapping, Southern Ontario; Ontario Geological Survey, Miscellaneous Release—Data 207.

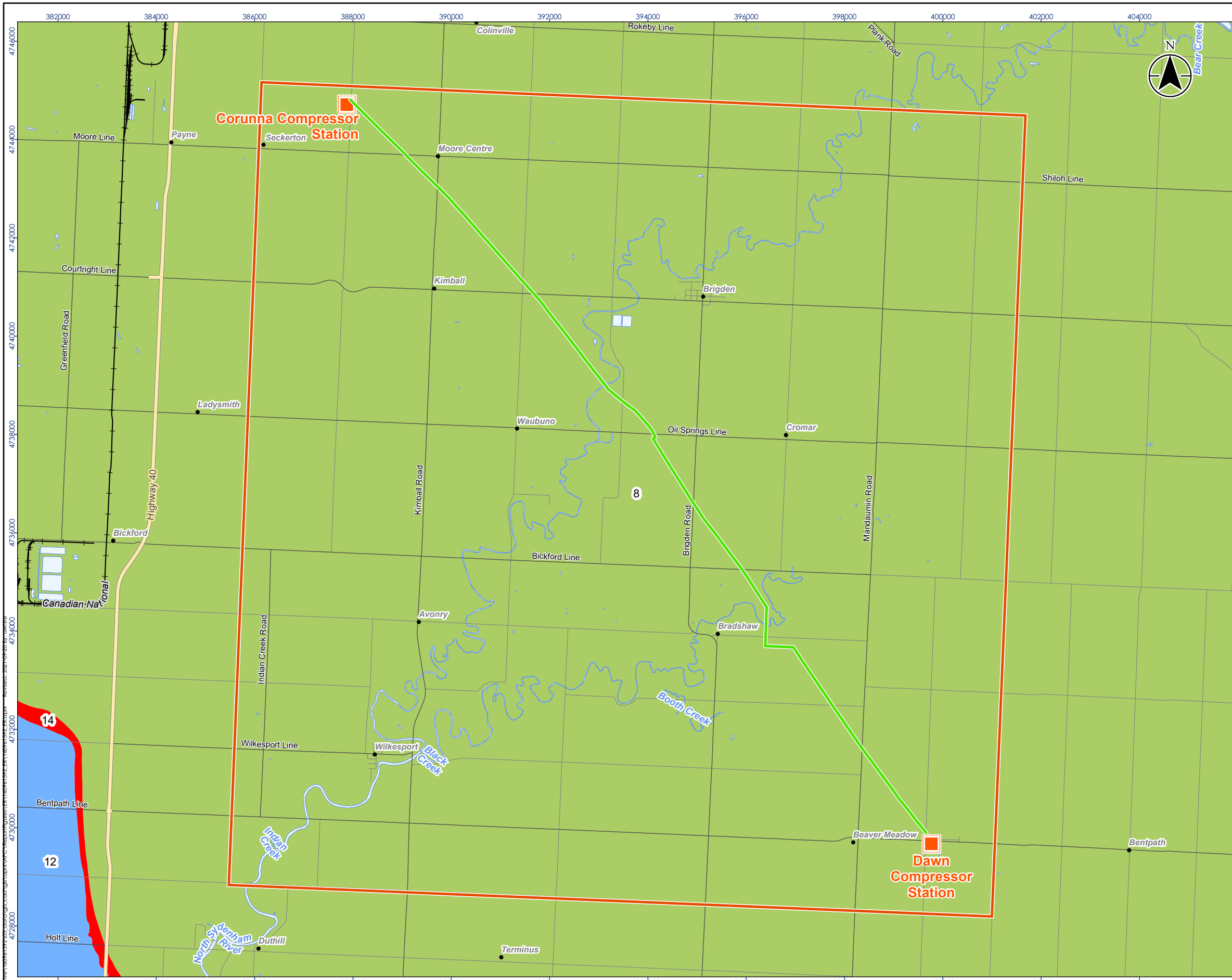


Project Location: Lambton County  
 Prepared by: awwhite on 2021-09-20  
 Technical Review by: EH on 2021-09-17

Client/Project: ENBRIDGE GAS INC.  
 DAWN TO CORUNNA PIPELINE PROJECT

Figure No. **2**

Title: **Drift Thickness**



Legend

- Study Area
- Preferred Route
- Existing Station
- Railway
- Expressway / Highway
- Major Road
- Minor Road
- Waterbody

Physiography

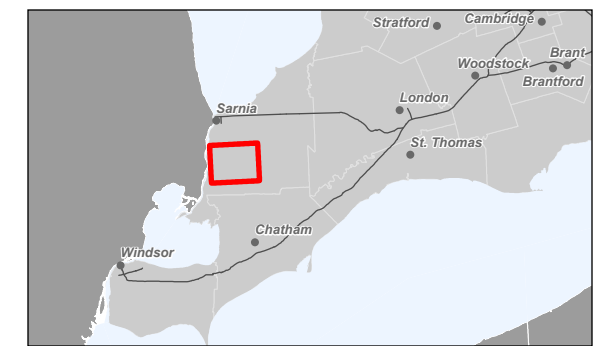
- 8: Bevelled Till Plains
- 12: Clay Plains
- 14: Beaches



1: (At original document size of 11x17)

Notes

1. Coordinate System: Name: NAD 1983 UTM Zone 17N
2. Base features produced under license with the Ontario Ministry of Natural Resources and Forestry © Queen's Printer for Ontario, 2020.
3. Physiography data source: Chapman, L.J. and Putnam, D.F. 2007. Physiography of southern Ontario; Ontario Geological Survey, Miscellaneous Release—Data 228.



Project Location: Lambton County  
 Prepared by: awwhite on 2021-09-20  
 Technical Review by: EH on 2021-09-17

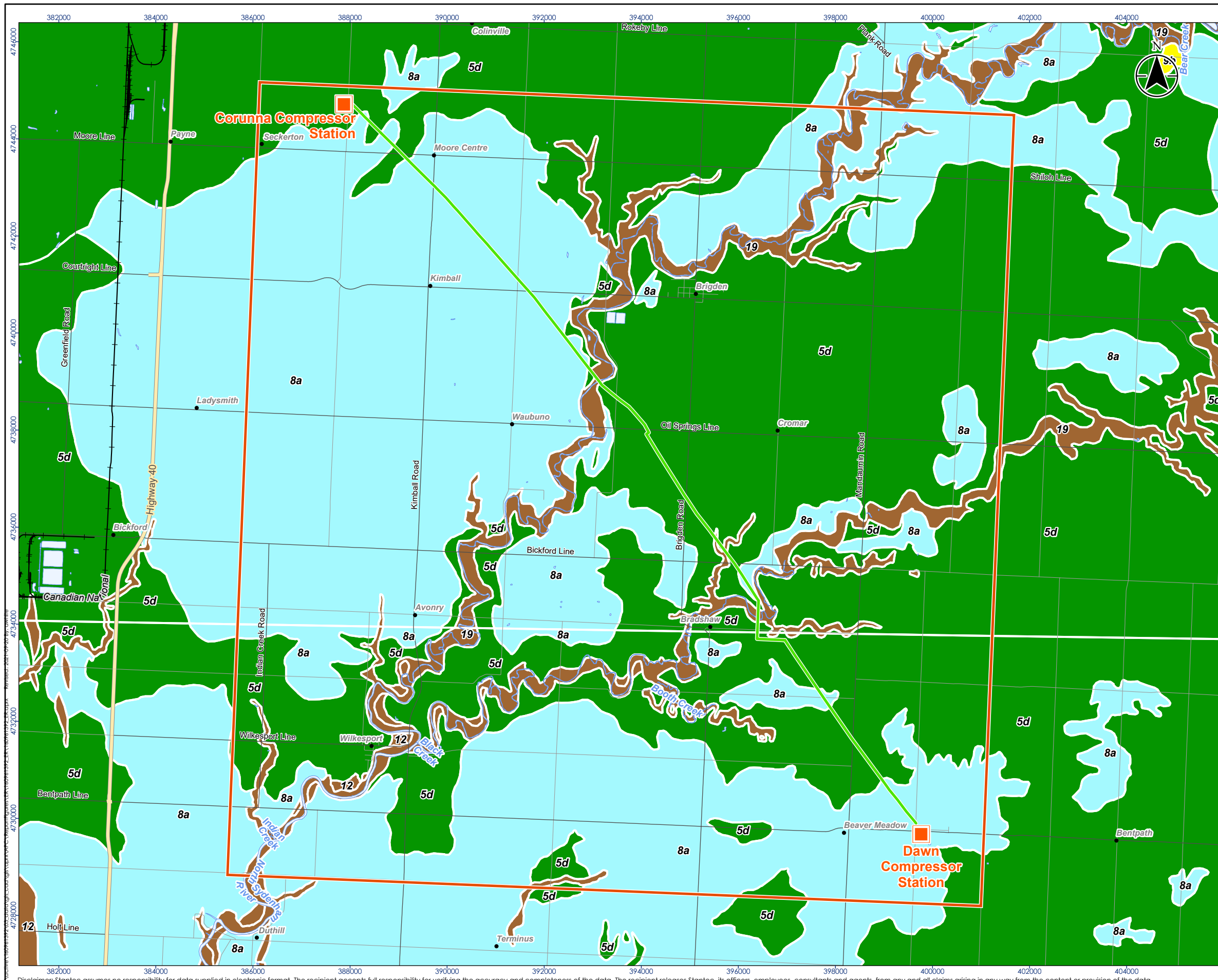
Client/Project: ENBRIDGE GAS INC., DAWN TO CORUNNA PIPELINE PROJECT

Figure No.

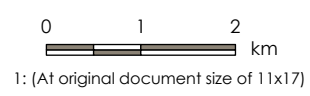
**3**

Title

**Physiography**

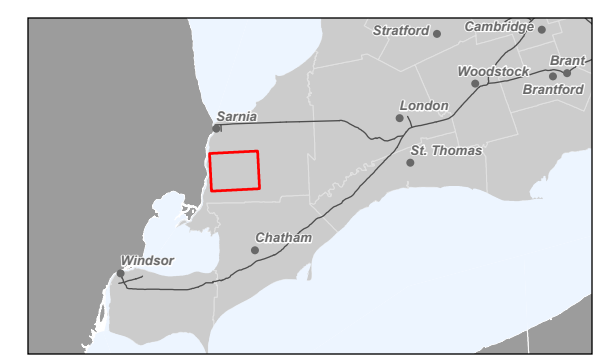


- Study Area
  - Preferred Route
  - Existing Station
  - Railway
  - Expressway / Highway
  - Major Road
  - Minor Road
  - Waterbody
- Surficial Geology**
- 5d: Glaciolacustrine-derived silty to clayey till
  - 8a: Fine-textured glaciolacustrine deposits (Massive-well laminated)
  - 9b: Coarse-textured glaciolacustrine deposits (Littoral-foreshore deposits)
  - 12: Older alluvial deposits
  - 19: Modern alluvial deposits



**Notes**

1. Coordinate System: Name: NAD 1983 UTM Zone 17N
2. Base features produced under license with the Ontario Ministry of Natural Resources and Forestry © Queen's Printer for Ontario, 2020.
3. Surficial geology data source: Ontario Geological Survey 2010. Surficial geology of Southern Ontario; Ontario Geological Survey, Miscellaneous Release-Data 128-REV ISBN 978-1-4435-2483-4.

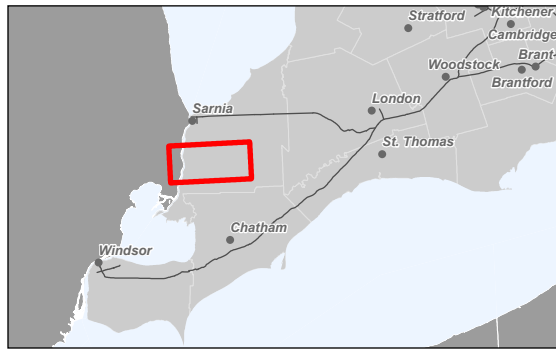
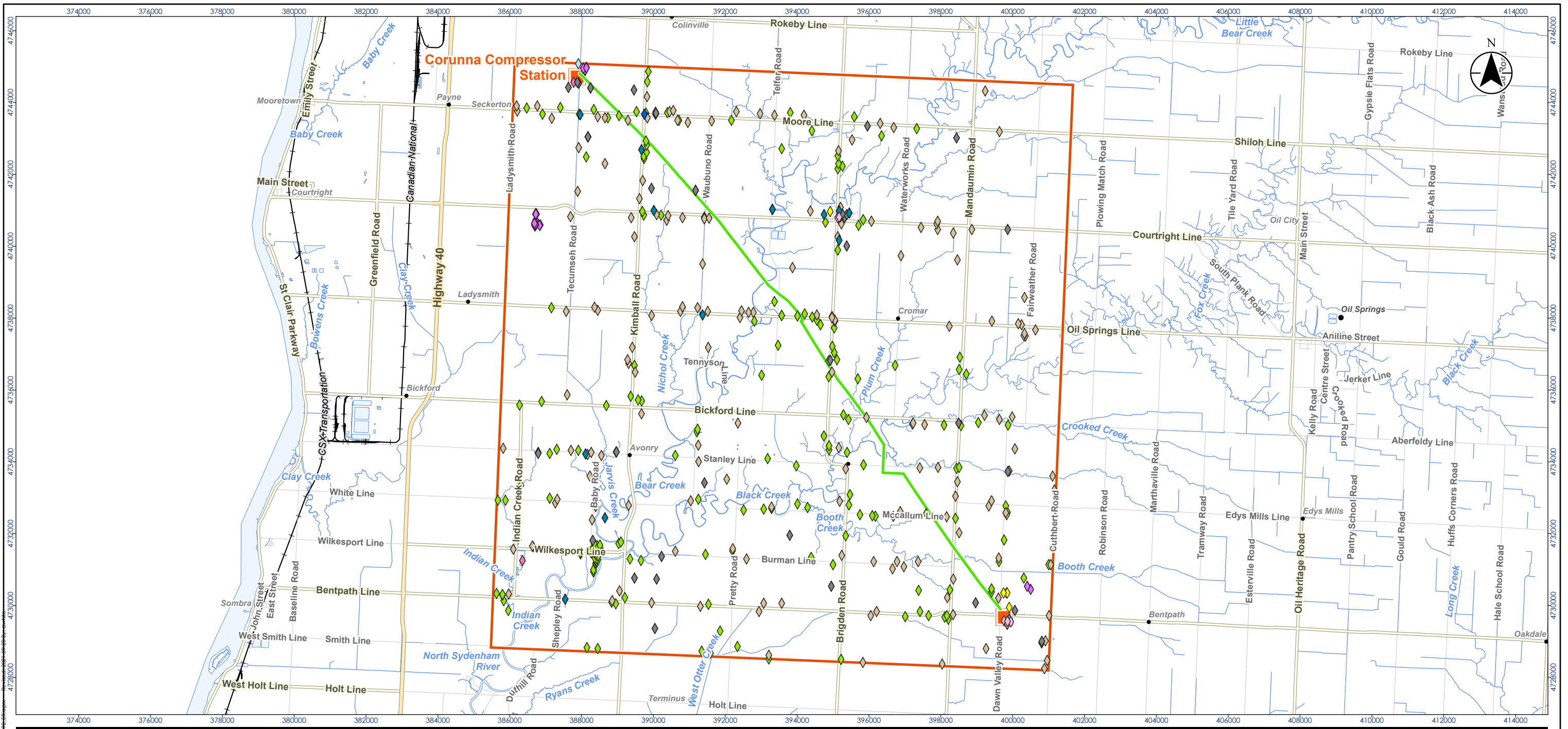


Project Location: Lambton County  
 Prepared by: awwhite on 2021-09-20  
 Technical Review by: EH on 2021-09-17

Client/Project: ENBRIDGE GAS INC., DAWN TO CORUNNA PIPELINE PROJECT

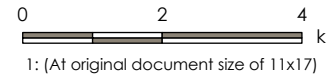
Figure No. **4**  
 Title: **Surficial Geology**

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**Legend**

- |                      |                            |            |                          |
|----------------------|----------------------------|------------|--------------------------|
| Study Area           | Minor Road                 | No Data    | Monitoring and Test Hole |
| Preferred Route      | Watercourse (Intermittent) | Livestock  | Test Hole                |
| Existing Station     | Watercourse (Permanent)    | Commercial | Industrial               |
| Railway              | Waterbody                  | Monitoring | Other                    |
| Expressway / Highway | <b>Water Well Use</b>      | Not Used   | Municipal                |
| Major Road           | Domestic                   | Public     | Cooling And A/C          |
|                      |                            | Irrigation |                          |



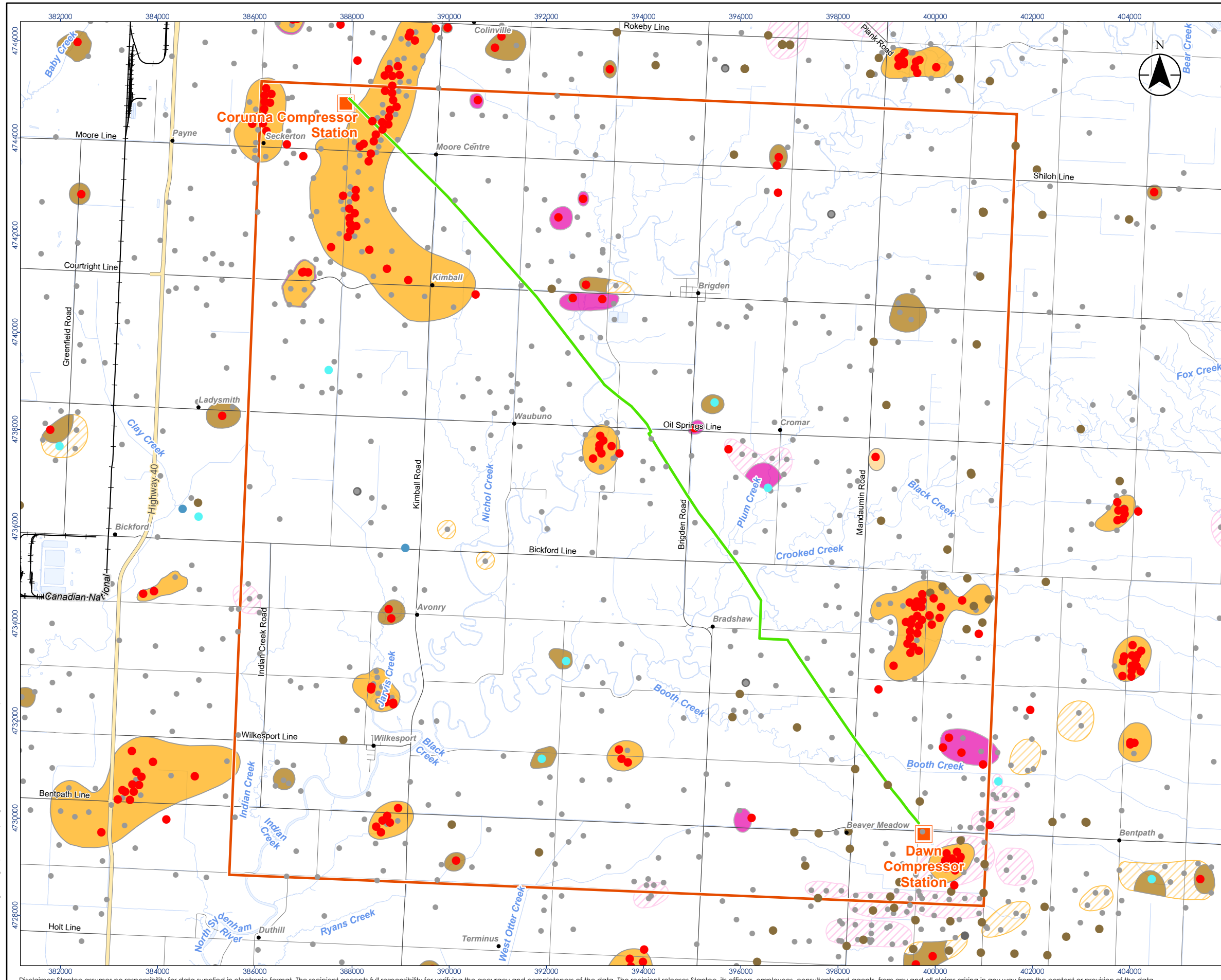
Project Location: Lambton County  
 Prepared by: awwhite on 2021-09-20  
 Technical Review by: EH on 2021-09-17

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 DAWN TO CORUNNA PIPELINE PROJECT

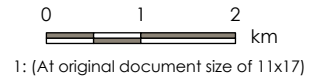
Figure No.: **5**  
 Title: **Groundwater Conditions**

**Notes**  
 1. Coordinate System: Name: NAD 1983 UTM Zone 17N  
 2. Base features produced under license with the Ontario Ministry of Natural Resources and Forestry © Queen's Printer for Ontario, 2020.

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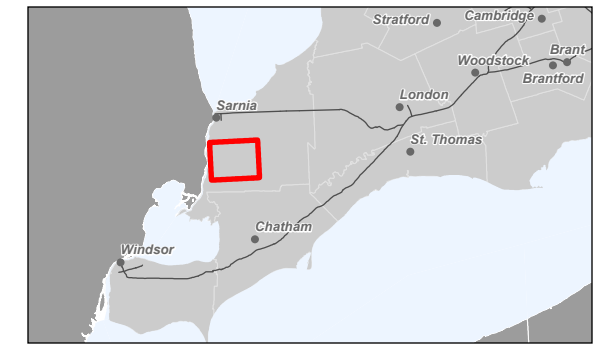


- Legend**
- Study Area
  - Preferred Route
  - Existing Station
  - Railway
  - Expressway / Highway
  - Major Road
  - Minor Road
  - Watercourse
  - Waterbody
- Well Mode**
- Active Well
  - Plugged back and whipstocked
  - Suspended Well
  - Abandoned Well
  - Abandoned and Junked (Lost)
  - No Well Found
  - Unknown
- Petroleum Pool (status)**
- Active, Natural Gas
  - Active, Natural Gas Storage
  - Suspended, Natural Gas
  - Abandoned, Natural Gas
  - Active, Oil
  - Abandoned, Oil



**Notes**

1. Coordinate System: Name: NAD 1983 UTM Zone 17N
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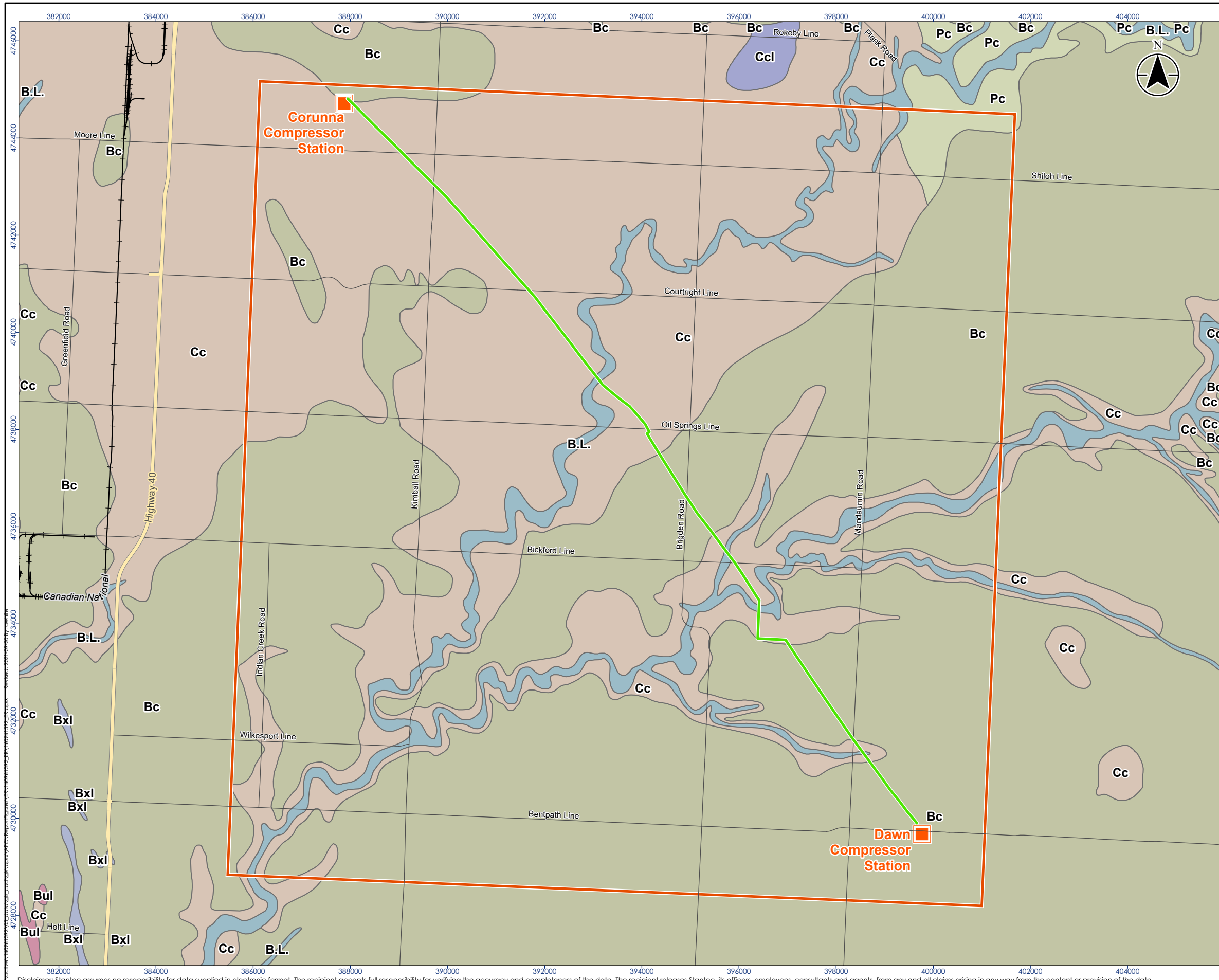


Project Location: Lambton County  
 Prepared by: 160961392 REVA  
 Technical Review by: EH on 2021-09-17

Client/Project: ENBRIDGE GAS INC.  
 DAWN TO CORUNNA PIPELINE PROJECT

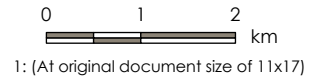
Figure No.: **6**  
 Title: **Aggregate and Petroleum Resources**

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 Reviewer: 2021-09-20 Br. owhite

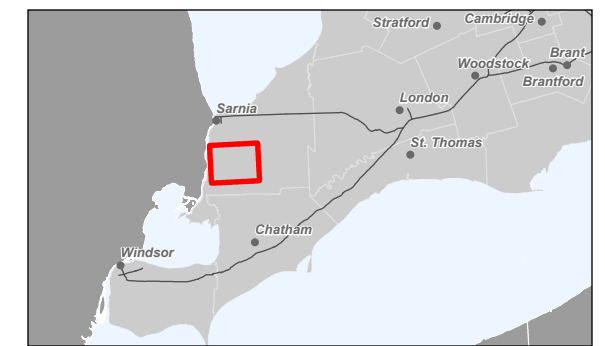


- Legend
- Study Area
  - Preferred Route
  - Existing Station
  - Railway
  - Expressway / Highway
  - Major Road
  - Minor Road

- Soils
- B.L. - BOTTOM LAND
  - Bc - BROOKSTON CLAY
  - Bul - BURFORD LOAM
  - Bxl - BRISBANE LOAM
  - Cc - CAISTOR CLAY
  - Ccl - CAISTOR CLAY LOAM
  - Pc - PERTH CLAY



- Notes
1. Coordinate System: Name: NAD 1983 UTM Zone 17N
  2. Base features produced under license with the Ontario Ministry of Natural Resources and Forestry © Queen's Printer for Ontario, 2020.



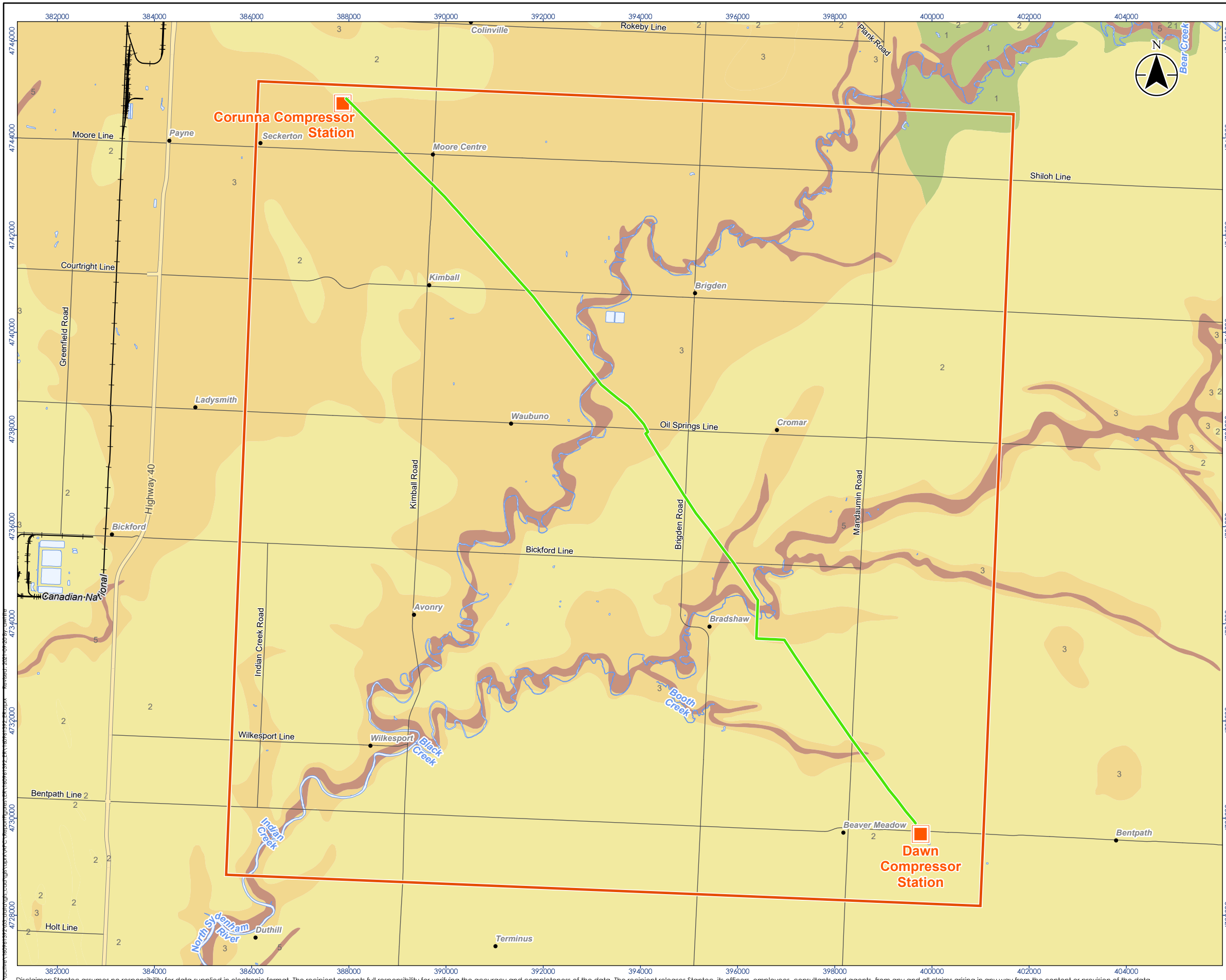
Project Location: Lambton County  
 Prepared by: awwhite on 2021-09-20  
 Technical Review by: EH on 2021-09-17  
 160961392 REVA

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Figure No. 7

Title: Soil Types



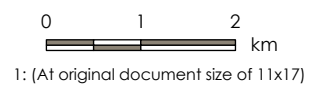


**Legend**

- Study Area
- Preferred Route
- Existing Station
- Expressway / Highway
- Major Road
- Minor Road
- Railway
- Waterbody

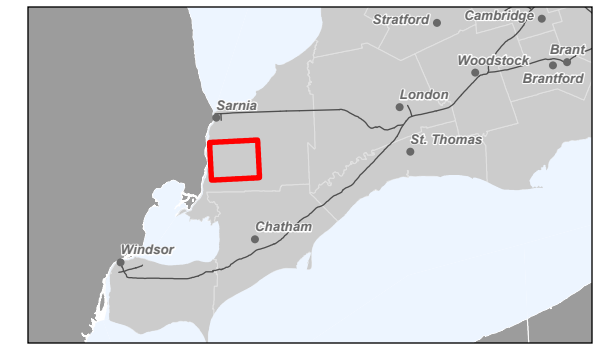
**Soil Capability Classification of Agriculture**

- 1: Soils in this class have no significant limitations in use for crops
- 2: Soils in this class have moderate limitations that restrict the range of crops or require moderate conservation practices
- 3: Soils in this class have moderately severe limitations that restrict the range of crops or require special conservation practices
- 5: Soils in this class have very severe limitations that restrict their capability in producing perennial forage crops, and improvement practices are feasible



**Notes**

1. Coordinate System: Name: NAD 1983 UTM Zone 17N
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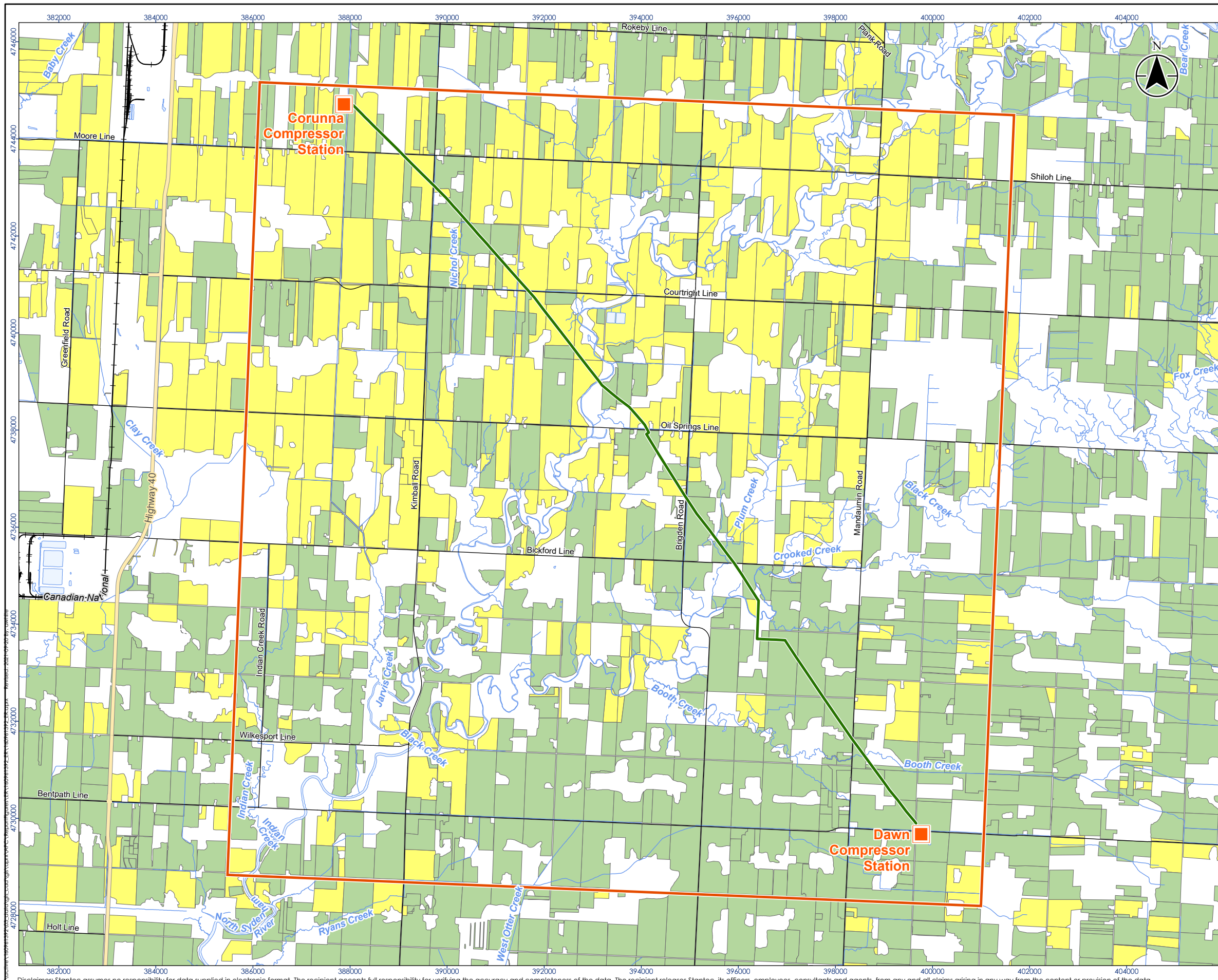
Project Location: Lambton County  
 Prepared by: awwhite on 2021-09-20  
 Technical Review by: EH on 2021-09-17

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Figure No. **8**

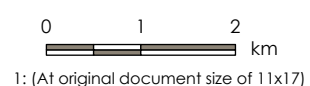
Title: **Soil Capability**

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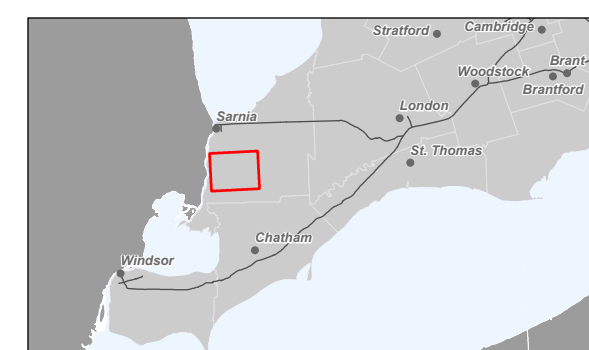


Legend

- Study Area
  - Preferred Route
  - Existing Station
  - Expressway / Highway
  - Major Road
  - Minor Road
  - Watercourse (Intermittent)
  - Watercourse (Permanent)
  - Waterbody
- Tile System Type**
- Random
  - Systematic



**Notes**  
 1. Coordinate System: Name: NAD 1983 UTM Zone 17N  
 2. Base features produced under license with the Ontario Ministry of Natural Resources and Forestry © Queen's Printer for Ontario, 2020.



Project Location: Lambton County  
 Prepared by: awwhite on 2021-09-20  
 Technical Review by: EH on 2021-09-17

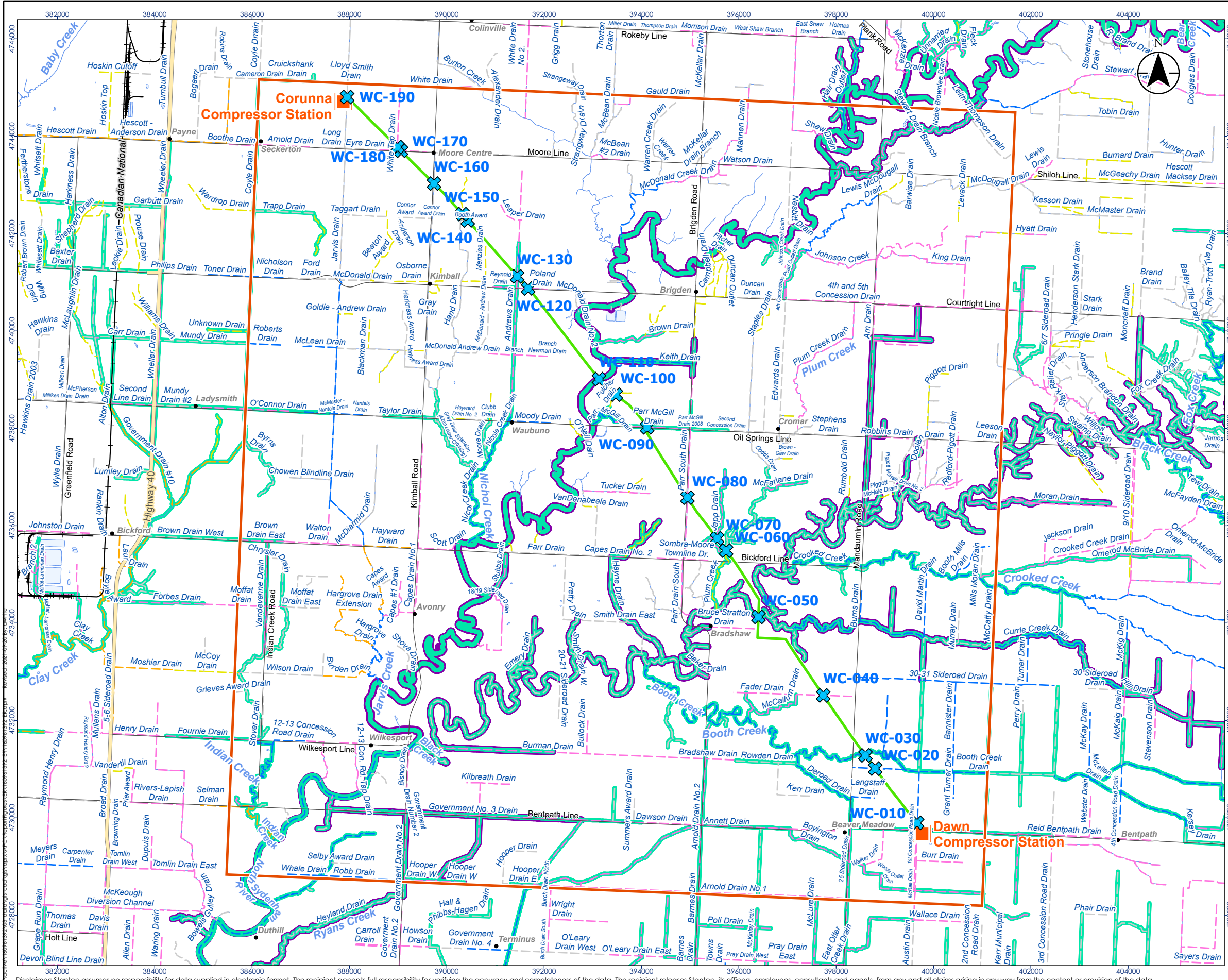
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Figure No. **9**

Title: **Known Agricultural Tile Drainage**

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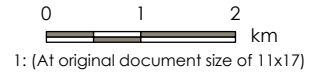


**Legend**

- Study Area
- Preferred Route
- ✕ Watercourse Crossing
- Watercourse (Permanent)
- DFO Aquatic Species at Risk - Fish
- DFO Aquatic Species at Risk - Mussel
- Waterbody

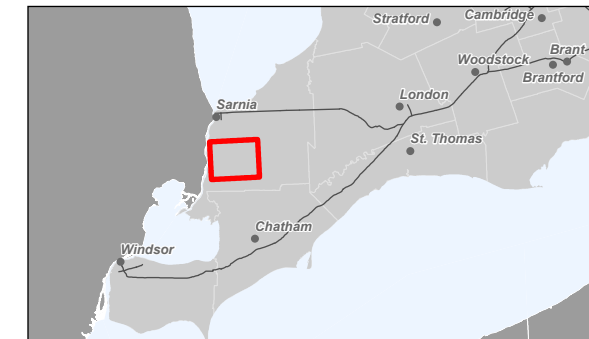
**DFO Drain Class**

- C
- E
- F
- T
- Not Ranked
- Expressway / Highway
- Major Road
- Minor Road
- Railway



**Notes**

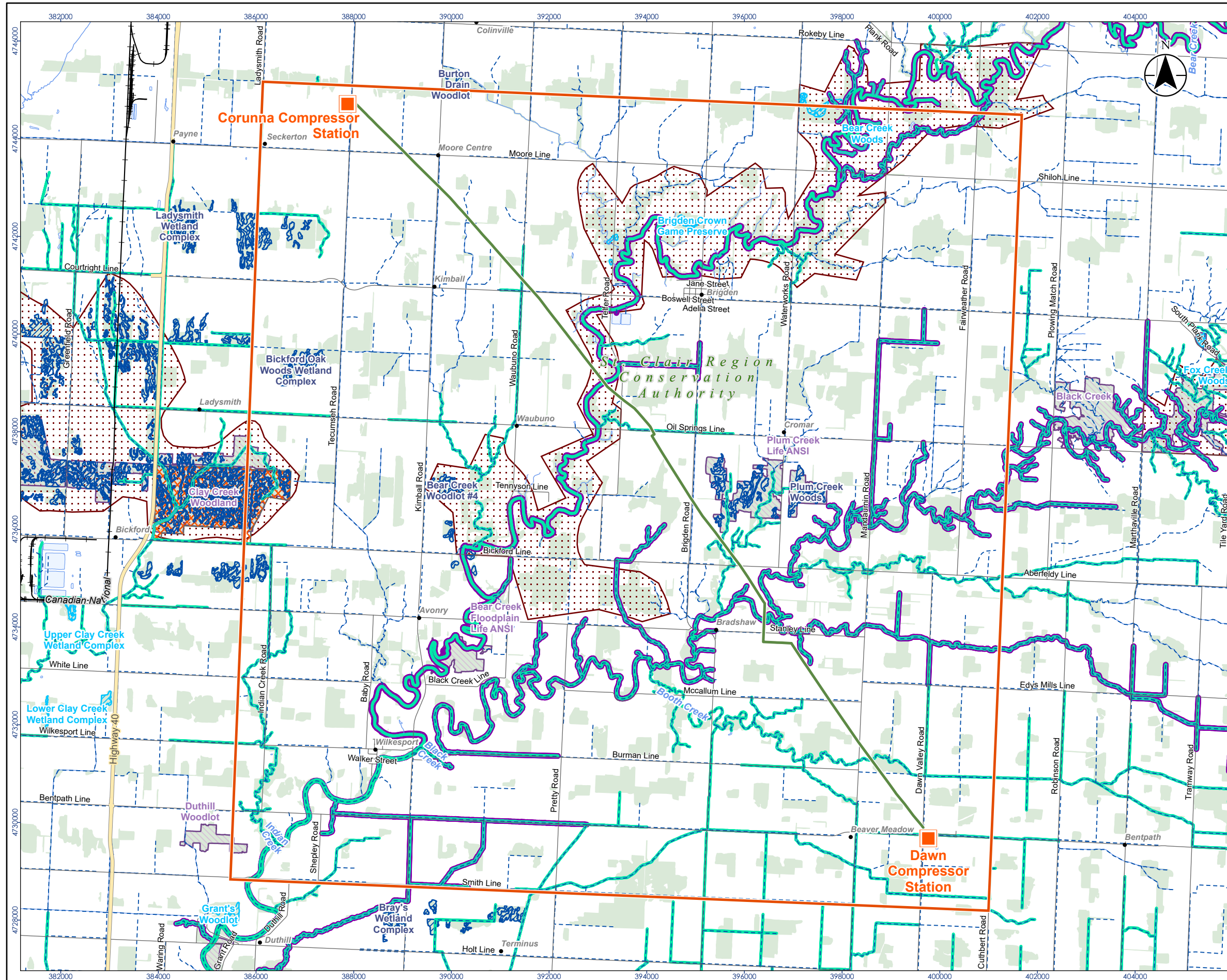
1. Coordinate System: Name: NAD 1983 UTM Zone 17N
2. Base features produced under license with the Ontario Ministry of Natural Resources and Forestry © Queen's Printer for Ontario, 2020.



Project Location: Lambton County  
 Prepared by ABC on 2021-09-20  
 Technical Review by EH on 2019-09-17

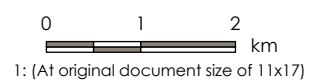
Client/Project: ENBRIDGE GAS INC.  
 DAWN TO CORUNNA PIPELINE PROJECT

Figure No.: **11**  
 Title: **Potential Watercourse Crossings**

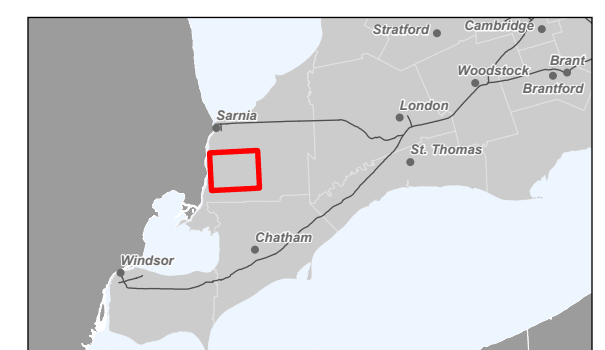


Legend

- Study Area
- Preferred Route
- Existing Station
- Railway
- Constructed Drain
- Watercourse (Permanent)
- Conservation Reserve
- DFO Aquatic Species at Risk - Fish
- DFO Aquatic Species at Risk - Mussel
- ANSI, Life Science
- Wetland, Provincially Significant
- Wetland, Other Evaluated
- Deer Wintering Area (Stratum 2)
- Waterbody
- Wooded Area



**Notes**  
 1. Coordinate System: Name: NAD 1983 UTM Zone 17N  
 2. Base features produced under license with the Ontario Ministry of Natural Resources and Forestry © Queen's Printer for Ontario, 2020.

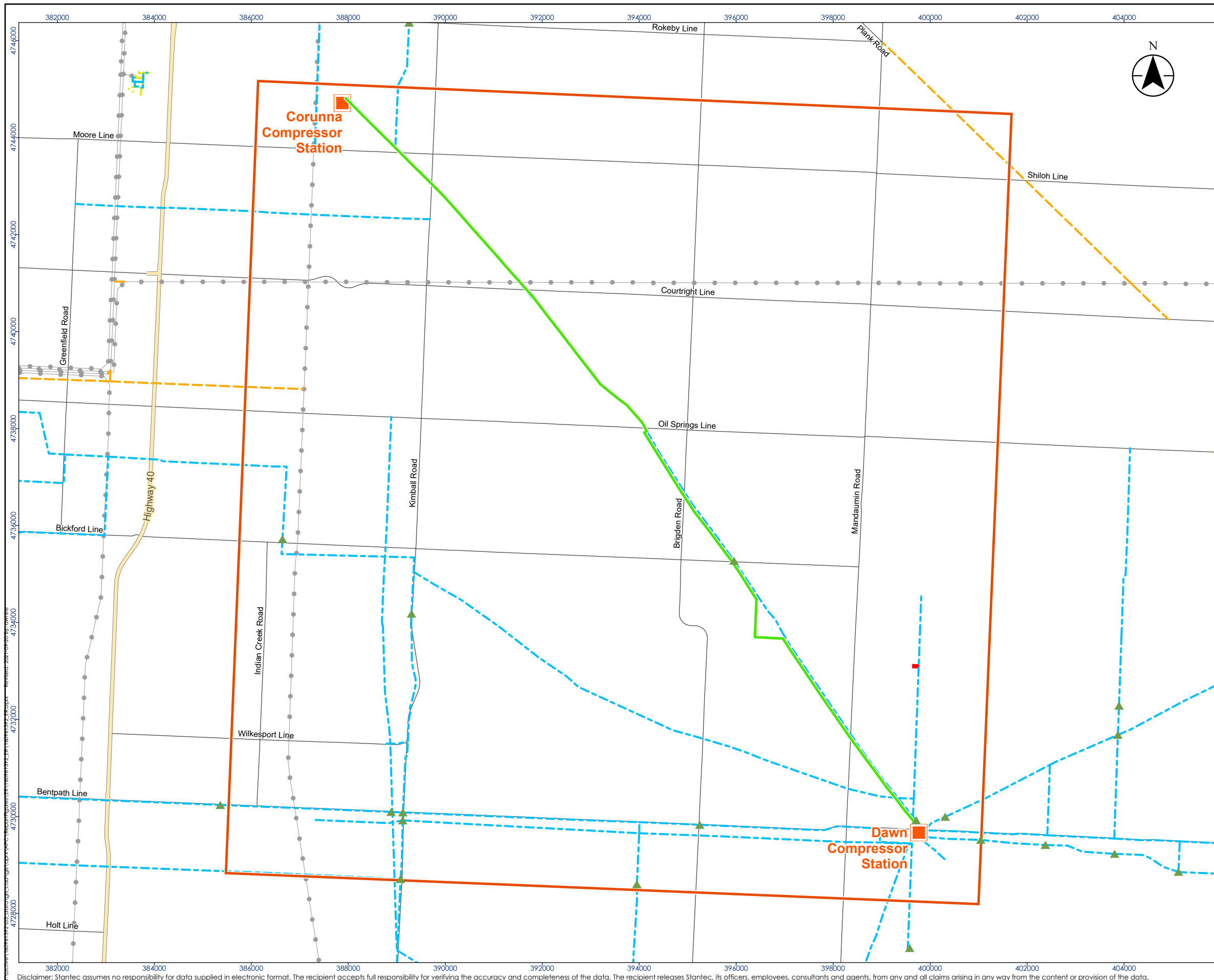


Project Location: Lambton County  
 Prepared by ABC on 2021-09-20  
 Technical Review by EH 2021-09-17

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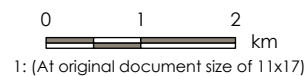
Figure No. **12**  
 Title: **Designated Natural Heritage Features**

WA:\active\160961392\03\_data\gdl\_csr\gdl\aprc\ReportFigures\EN\160961392\_REV1\160961392\_EB.aprx Revised: 2021-09-20 By: cwhite

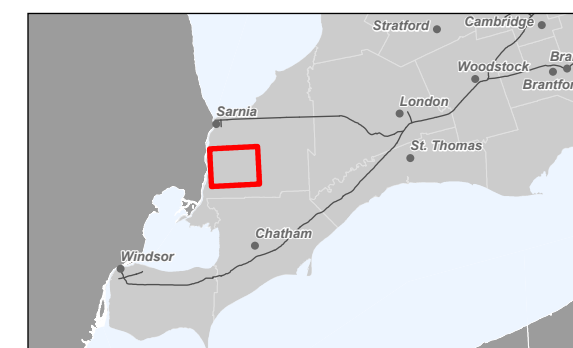


**Legend**

- Study Area
- Preferred Route
- Existing Station
- Existing Enbridge Valve
- Existing Enbridge Station (Distribution)
- Existing Enbridge Pipeline (Transmission)
- Other Pipeline (CanVec)
- Existing Enbridge Pipeline (Distribution)
- Transformer Station
- Hydro Line
- Unknown Pipeline
- Unknown Transmission Line
- Expressway / Highway
- Major Road
- Minor Road



- Notes**
1. Coordinate System: Name: NAD 1983 UTM Zone 17N
  2. Base features produced under license with the Ontario Ministry of Natural Resources and Forestry © Queen's Printer for Ontario, 2020.



Project Location: Lambton County  
 Prepared by AMW on 2021-09-20  
 Technical Review by EH on 2021-09-17  
 160961392 REVA

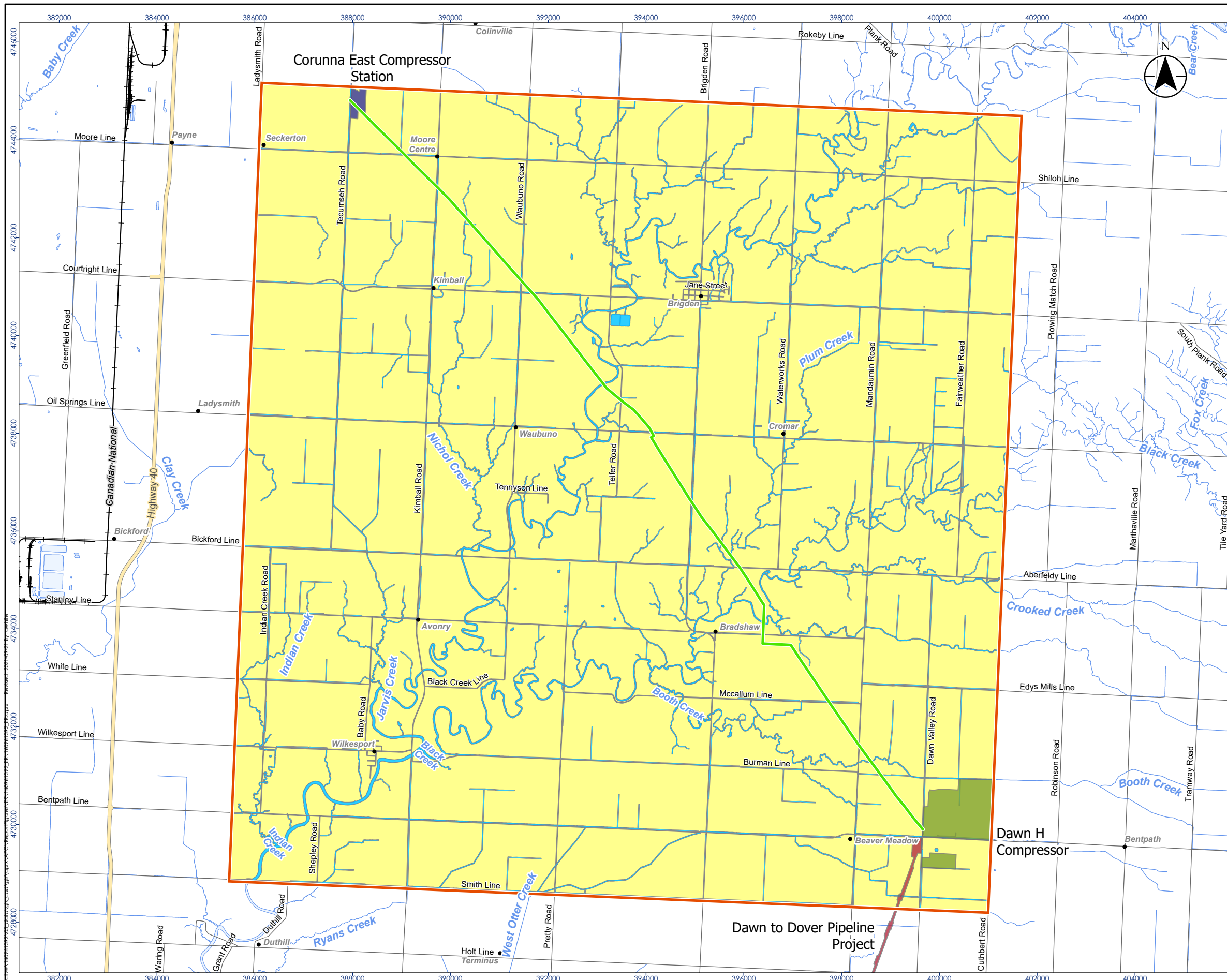
Client/Project: ENBRIDGE GAS INC.  
 DAWN TO CORUNNA PIPELINE PROJECT

Figure No.

**13**

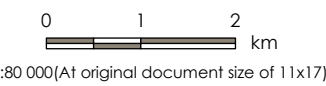
Title

**Infrastructure**

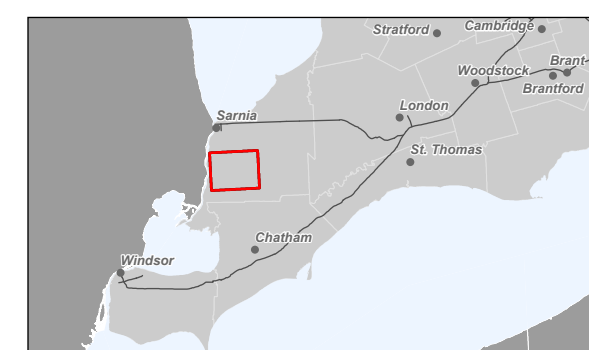


**Legend**

- Study Area
  - Preferred Route
  - Previously Assessed, Stantec (2015b)
  - Previously assessed, Stantec (2017a)
  - Previously Assessed, TMHC (2017)
- Stage 1 Archaeological Potential**
- Retains Archaeological Potential; Stage 2 Assessment Required
  - Municipal/Provincial Road ROW, May Retain Archaeological Potential; Stage 2 Assessment Required to Confirm Disturbance
  - Low and Permanently Wet Areas, Low to No Archaeological Potential; Stage 2 Assessment Required to Confirm Presence



- Notes**
1. Coordinate System: Name: NAD 1983 UTM Zone 17N
  2. Base features produced under license with the Ontario Ministry of Natural Resources and Forestry © Queen's Printer for Ontario, 2020.
  3. Known Archaeological Sites from MTCs 2021.

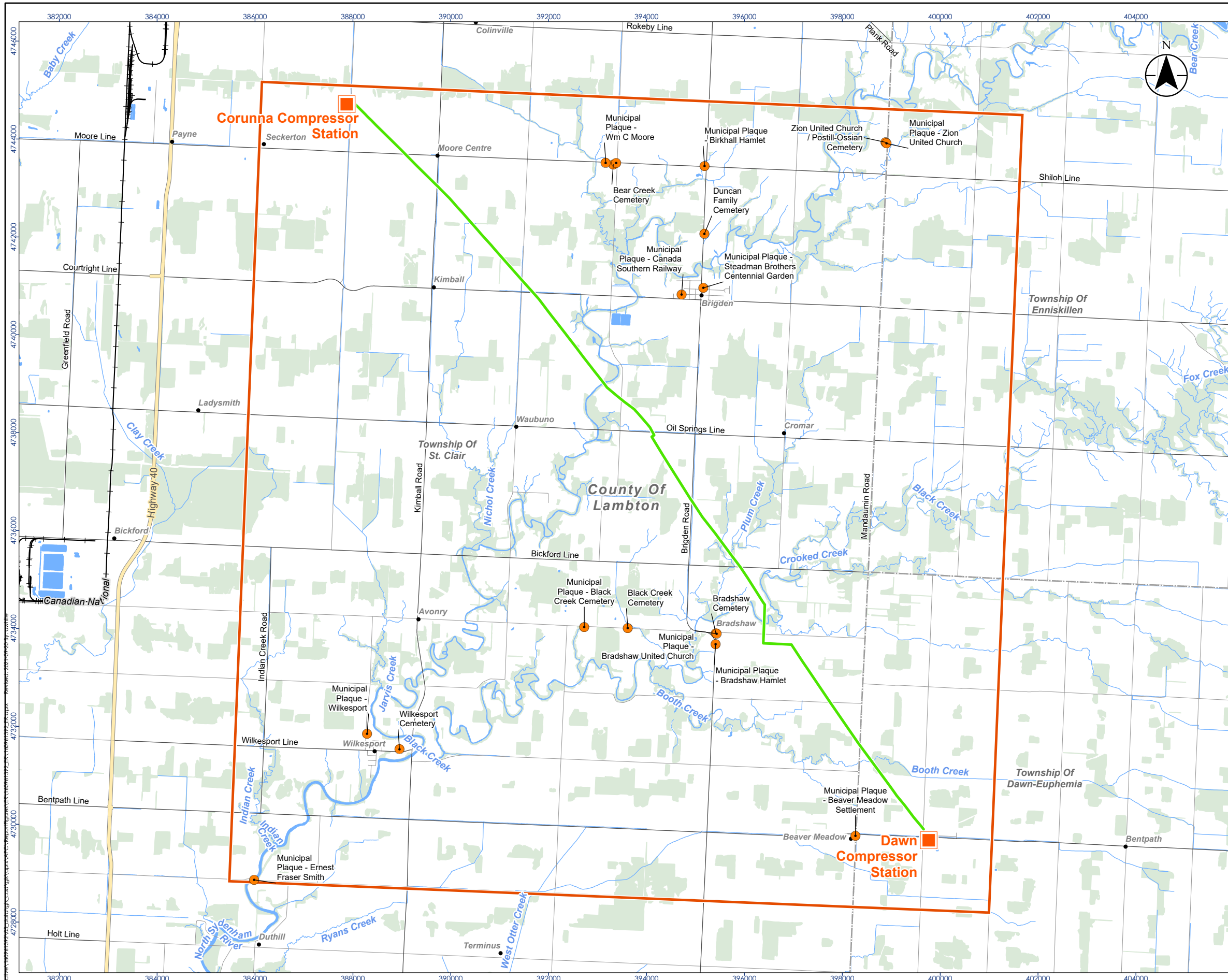


Project Location: Lambton County  
 Prepared by: awhite on 2021-09-21  
 Technical Review by: EH on 2021-09-17

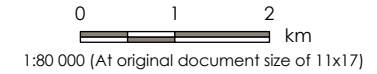
Client/Project: ENBRIDGE GAS INC. DAWN TO CORUNNA PIPELINE PROJECT

Figure No. **14**  
 Title: **Archaeological Potential**

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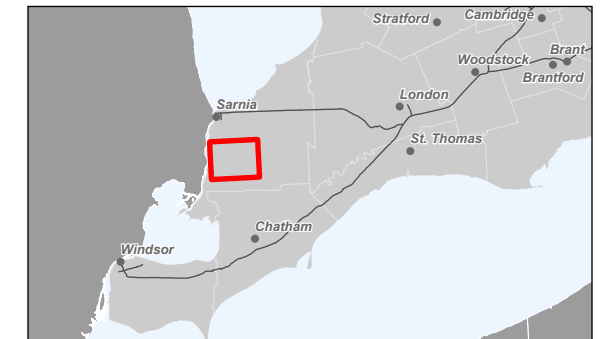


- Legend**
- Study Area
  - Identified Heritage Resource
  - Preferred Route
  - Existing Station
  - Municipal Boundary, Upper
  - Municipal Boundary, Lower
  - Railway - Operational
  - Expressway / Highway
  - Major Road
  - Minor Road
  - Watercourse
  - Waterbody
  - Wooded Area



**Notes**

1. Coordinate System: Name: NAD 1983 UTM Zone 17N
2. Base features produced under license with the Ontario Ministry of Natural Resources and Forestry © Queen's Printer for Ontario, 2020.



Project Location: Lambton County  
 Prepared by AMW on 2021-09-20  
 Technical Review by EH on 2021-09-17  
 160961392 REVA

Client/Project: ENBRIDGE GAS INC.  
 DAWN TO CORUNNA PIPELINE PROJECT

Figure No. 15

Title: Cultural Heritage Sites