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Canada

**VIA EMAIL, RESS and COURIER**

October 07, 2019

Ms. Kirsten Walli  
Board Secretary  
Ontario Energy Board  
2300 Yonge Street, 27th Floor  
Toronto, ON M4P 1E4

Dear Ms. Walli:

**Re: Enbridge Gas Inc. (Enbridge Gas)  
Ontario Energy Board (Board) File No.: EB-2019-0218  
2021 Sarnia Industrial Line Reinforcement Project – Application and Evidence -  
REDACTED**

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Enbridge Gas Inc. ("Enbridge Gas") is seeking approval from the Ontario Energy Board ("OEB") for leave to construct approximately 1.2 kilometres of 6620 kPag, NPS 20 pipeline from the Dow Valve Site to the Bluewater Interconnect (the "Project"). The Project also includes construction of a new LaSalle Pipeline Valve Site in the area of the Bluewater Interconnect, tie-in's to the existing Sarnia Industrial Line ("SIL") system, modifications to the existing Novacor Corunna Station and Dow Valve Site and a provision for tie-in to the Shell Take-Off Valve Site.

Enbridge Gas is also seeking approval of the Form of Easement and Temporary Land Use agreements required to construct the Project.

Enclosed, please find two copies of the redacted application and evidence for the above noted proceeding. Commercially sensitive customer information, as well as the names and addresses of landowners and certain stakeholders have been removed from or redacted within the following exhibits to safeguard privacy and confidentiality:

- Exhibit B, Tab 1, Schedule 2, Attachment 1 – T2 Contract;
- Exhibit C, Tab 7, Schedule 1 – Proposed Project Location Map;
- Exhibit C, Tab 7, Schedule 2 – Landowner Line List; and
- Exhibit C, Tab 8, Schedule 2 – Indigenous Consultation Report: Log and Correspondence.

Confidential or unredacted versions of these exhibits will be provided to the OEB upon request.

Please contact the undersigned if you have any questions.

Yours truly,

(Original Signed)

Adam Stiers  
Technical Manager, Regulatory Applications

c.c.: Guri Pannu (Enbridge Gas)

## EXHIBIT LIST

### A – ADMINISTRATION

<u>EXHIBIT</u>	<u>TAB</u>	<u>SCHEDULE</u>	<u>DESCRIPTION</u>
A	1	1	Exhibit List
		2	Glossary of Acronyms and Defined Terms
	2	1	Application

### B – WRITTEN EVIDENCE

B	1	1	Project Summary
		2	Description of Existing System
		3	Alternatives and Proposed Project
		4	Project Costs and Economics
		5	Engineering and Construction
		6	Environmental Matters
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		8	Indigenous Consultation

### C – SUPPORTING SCHEDULES

C	1	1	Letters of Support
	2	1	Schematic of SIL System
		2	SIL System Design Day Demands
	3	1	SIL System 2021/2022 Winter Design Day Schematic
		2	SIL System 2021/2022 Winter Design Day Schematic Including the NPS 20 Dow to Bluewater Line
	4	1	Estimated Project Capital Costs

C – SUPPORTING SCHEDULES CONTINUED

<u>EXHIBIT</u>	<u>TAB</u>	<u>SCHEDULE</u>	<u>DESCRIPTION</u>
C	4	2	DCF Analysis
		3	DCF Analysis Key Input Parameters, Values and Assumptions
		4	Calculation of Incremental Project Revenue
	5	1	Proposed Project Schedule
		2	General Techniques and Methods of Construction
	6	1	Environmental Report
		2	OPCC Comments on Environmental Report
	7	1	Proposed Project Location Map
		2	Landowner Line List - REDACTED
		3	Pipeline Easement
		4	Temporary Land Use Agreement
	8	1	Indigenous Consultation Report: Summary Tables
		2	Indigenous Consultation Report: Log and Correspondence - REDACTED

### Glossary of Acronyms and Defined Terms

Act	The Ontario Energy Board Act, 1998
ACT	Advanced Chemicals Technologies
Ainsworth	Ainsworth Energy Co. Ltd.
ANR	American Natural Resources Pipeline
Applicant	Enbridge Gas Inc.
BGS	Bluewater Gas Storage, LLC
Bluewater Pipeline	St. Clair Pipelines L.P.'s pipeline connecting the BGS system to the SIL system at the Bluewater Interconnect.
Board	The Ontario Energy Board
Chemical Valley	Ontario's largest concentration of petrochemical industries, located in the Sarnia market.
CNG	Compressed Natural Gas
Courtright	Includes the Vector Courtright and Great Lakes Courtright Stations. Located on Greenfield Road, south of Oil Springs Line in the Township of St. Clair.
Dawn	The Dawn Compressor Station
DCF	Discounted Cash Flow
Delegation Letter	MOENDM letter indicating delegation of the procedural aspects of Indigenous consultation to Enbridge Gas for the Project.
DTE	DTE Energy
E.B.O. 188	E.B.O. 188 Report of the Board on Natural Gas System Expansion
EGD	Enbridge Gas Distribution Inc.
Enbridge Gas	Enbridge Gas Inc.
Environmental Guidelines	The OEB's Environmental Guidelines for the Location, Construction, and Operation of Hydrocarbon Pipelines and Facilities in Ontario (7 <sup>th</sup> Edition, 2016)
ER	Sarnia Industrial Line Reinforcement Project: Dow to Bluewater Environmental Report
GLC	Great Lakes Canada Pipeline Ltd.
GLGT	Great Lakes Gas Transmission
ICM	Incremental capital module
IDC	Interest during construction
IRP	Integrated Resource Planning
LCU	Loss of Critical Unit
LINK	Niagara Gas Transmission Limited LINK Pipeline
LNG	Liquefied Natural Gas
MECP	Ministry of Environment, Conservation and Parks
MOENDM	Ministry of Energy, Northern Development and Mines
MOP	Maximum Operating Pressure
Notice	Public Notice of Commencement, published in the Sarnia Observer on May 14, 2019.
NOVA	Nova Chemicals (Canada) Ltd.
NPS	Nominal Pipe Size



NPV	Net Present Value
OEB	The Ontario Energy Board
OPCC	Ontario Pipeline Coordinating Committee
PI	Profitability Index
Policy	Enbridge Inc. Indigenous Peoples Policy
Project	1.2 kilometers of NPS 20 pipeline from the Dow Valve Site to the Bluewater Interconnect and ancillary facilities.
RoW	Right of Way
Sarnia market	Residents, businesses and industry in the Sarnia area, located approximately 20 to 35 kilometres northwest of the Dawn Hub.
SIL	Sarnia Industrial Line
SIL system	Sarnia Industrial Line System
SRCP	Sarnia Regional Cogeneration Plant
Stantec	Stantec Consulting Ltd.
Tecumseh	Enbridge Gas's Tecumseh Gas Storage facility, located on Tecumseh Road between Rokeby Line and Moore Line.
Union	Union Gas Limited
Vector	Vector Pipeline L.P.
WCSB	Western Canadian Sedimentary Basin

## ONTARIO ENERGY BOARD

**IN THE MATTER OF** The Ontario Energy Board Act, 1998, S.O. 1998, c. 15, Schedule B, and in particular, S. 90 (1) and S. 97 thereof;

**AND IN THE MATTER OF** an Application by Enbridge Gas Inc. for an Order or Orders granting leave to construct natural gas pipelines and ancillary facilities in the Township of St. Clair in the County of Lambton.

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### APPLICATION

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1. Enbridge Gas Inc. ("Enbridge Gas" or the "Applicant") hereby applies to the Ontario Energy Board (the "OEB" or "Board"), pursuant to Section 90 (1) of the *Ontario Energy Board Act, 1998 S.O., 1988, c-15, Schedule B*, (the "Act"), for an Order or Orders granting leave to construct approximately 1.2 kilometres of Nominal Pipe Size ("NPS") 20 natural gas pipeline from the Dow Valve Site to the Bluewater Interconnect (the "Project"), in the Township of St. Clair, in the County of Lambton.
2. Enbridge Gas also applies to the OEB, pursuant to Section 97 of the Act, for an Order or Orders approving the Form of Easement and Form of Temporary Land Use Agreement found in the pre-filed evidence at Exhibit C, Tab 7, Schedule 3 and at Exhibit C, Tab 7, Schedule 4.
3. Attached hereto as Exhibit A, Tab 2, Schedule 1, Attachment 1, is a map showing the general location of the proposed Project, associated facilities, municipalities, highways, railways, utility lines through, under, over, upon or across which the pipeline will pass.

4. The route and location for the proposed facilities associated with the Project were selected by an independent environmental consultant through the process outlined in the OEB's *Environmental Guidelines for the Location, Construction, and Operation of Hydrocarbon Pipelines and Facilities in Ontario* (7<sup>th</sup> Edition, 2016) (the "Environmental Guidelines").
5. The persons affected by this Application are the owners of lands, government agencies and municipalities over which the pipeline will be constructed, the customers resident or located in the municipalities, police villages, the Indigenous Communities and Métis organizations served by Enbridge Gas, together with those to whom Enbridge Gas sells gas, or on whose behalf Enbridge Gas distributes, transmits or stores gas. It is impractical to set out in this Application the names and addresses of such persons because they are too numerous.
6. Enbridge Gas requests that this Application proceed by way of written hearing in English.
7. Enbridge Gas requests that the OEB issue the following Orders:
  - i. pursuant to Section 90 (1) of the Act, an Order or Orders granting leave to construct the Project.
  - ii. pursuant to Section 97 of the Act, an Order or Orders approving the Form of Easement agreement found at Exhibit C, Tab 7, Schedule 3 and the form of Temporary Land Use Agreement found at Exhibit C, Tab 7, Schedule 4.

8. Enbridge Gas requests that all documents in relation to the Application and its supporting evidence, including the responsive comments of any interested party, be served on Enbridge Gas and its counsel as follows:

Enbridge Gas Inc.  
P.O. Box 2001  
50 Keil Drive North  
Chatham, Ontario N7M 5M1

Attention: Adam Stiers  
Technical Manager, Regulatory Applications – Regulatory Affairs  
Telephone: (519) 436-4558  
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Email: [astiers@uniongas.com](mailto:astiers@uniongas.com)  
[egiregulatoryproceedings@enbridge.com](mailto:egiregulatoryproceedings@enbridge.com)

**-and-**

Attention: Guri Pannu  
Senior Legal Counsel, Regulatory  
Telephone: (416) 758-4761  
Fax: (416) 495-5994  
Email: [guri.pannu@enbridge.com](mailto:guri.pannu@enbridge.com)

Dated: October 7, 2019

**Enbridge Gas Inc.**

*[original signed by]*

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Adam Stiers  
Technical Manager, Regulatory Applications – Regulatory Affairs

# 2021 Sarnia Industrial Line Reinforcement Project

TOWNSHIP OF ST. CLAIR

TOWNSHIP OF ST. CLAIR

LASALLE LINE

CITY OF SARNIA

BLUEWATER  
INTERCONNECT  
TRANSMISSION  
STATION

DOW  
VALVE SITE


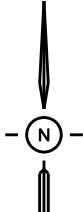
PROPOSED DOW TO BLUEWATER PIPELINE  
2021 SARNIA TRANSMISSION REINFORCEMENT PROJECT

EXISTING VALVE SITE

EXISTING PIPELINE

MUNICIPAL BOUNDARY

WATERCOURSE



PLOT SCALE 1:5000

TALFOURD CREEK

## PROJECT SUMMARY

1. As set out at Exhibit A, Tab 2, Schedule 1, in response to increasing demand for reliable and safe delivery of natural gas services to the Sarnia market and the Sarnia Industrial Line System (“SIL system”), Enbridge Gas Inc. (“Enbridge Gas”),<sup>1</sup> pursuant to Section 90 (1) of the *Ontario Energy Board Act, 1998* (the “Act”), is seeking approval from the Ontario Energy Board (the “Board” or “OEB”) for leave to construct approximately 1.2 kilometres of Nominal Pipe Size (“NPS”) 20 hydrocarbon (natural gas) pipeline and ancillary facilities (the “Project”). Enbridge Gas is also applying under Section 97 of the Act for approval of the Form of Easement and Temporary Land Use agreements required to construct the Project (see Exhibit C, Tab 7, Schedule 3 and Exhibit C, Tab 7, Schedule 4). Enbridge Gas has the necessary Certificate and Franchise Agreements in place to construct the Project. A map of the Project can be found at Exhibit A, Tab 2, Schedule 1, Attachment 1.
2. Enbridge Gas expects that the Project will meet the eligibility criteria for Incremental Capital Module (“ICM”) treatment, and will apply for such treatment at the appropriate time in accordance with the OEB’s ICM policies.
3. Letters of support for the Project from the St. Clair Township Council, the Lambton County Council and the Sarnia-Lambton Economic Partnership can be found at Exhibit C, Tab 1, Schedule 1.

<sup>1</sup> Enbridge Gas Distribution Inc. (“EGD”) and Union Gas Limited (“Union”) were Ontario corporations incorporated under the laws of the Province of Ontario carrying on the business of selling, distributing, transmitting and storing natural gas with the meaning of the Act. Effective January 1, 2019, EGD and Union amalgamated to become Enbridge Gas Incorporated.

4. This section of evidence is organized as follows:

- i) The SIL System
- ii) Demand Growth
- iii) The Project

i) The SIL System

5. As set out at Exhibit B, Tab 1, Schedule 2, Enbridge Gas's SIL system provides natural gas service to residents, businesses and industry in the Sarnia area (the "Sarnia market"). More specifically, the SIL system serves one of Enbridge Gas's most geographically concentrated in-franchise markets, consisting of one of the largest petrochemical and refined petroleum manufacturing areas in North America. The Sarnia market is located approximately 20 to 35 kilometres northwest of the Dawn Hub and is not directly connected to Enbridge Gas's Dawn Parkway System. While the Sarnia market is Enbridge Gas's closest major infranchise market to the Dawn Hub, the Sarnia market and the Dawn Hub are connected through the Enbridge Gas storage pipeline system (specifically the pipelines connecting storage pools to the Dawn Hub) as well as through third party pipelines connected to the Dawn Hub. The Sarnia market relies significantly upon natural gas deliveries on upstream third-party pipelines for supply to meet Design Day demand.
6. The SIL system is comprised of a series of parallel pipelines, metering and regulating stations operating at 6620 kPag maximum operating pressure ("MOP"). The SIL system starts at the Vector Courtright and Great Lakes Courtright Stations (collectively known as "Courtright") located on Greenfield Road, south of Oil Springs Line in the Township of St. Clair. From Courtright, the SIL system extends north and terminates within the limits of the City of Sarnia at the Sarnia Industrial Station, located near the intersection of Churchill Road and Vidal Street South.

ii) Demand Growth

7. Consistent with Union's 2014 Sarnia Expansion Pipeline Project application,<sup>2</sup> the Sarnia market has continued to grow, exceeding the 120 TJ/d of demand growth anticipated by 2019 that was set out in Union's 2014 application. Most recently, Enbridge Gas received a request for incremental firm T2 Storage and Transportation Carriage Service commencing in 2021 from Nova Chemicals (Canada) Ltd. ("NOVA"). This incremental demand will support a \$2 billion expansion of NOVA's existing Corunna site. This increased demand growth is driving the need for Enbridge Gas to increase the capacity of the SIL system.
8. Enbridge Gas forecasts further customer interest in firm services on the SIL system beyond 2021 from new market entrants considering investment in the Sarnia area. One such potential customer is Ainsworth Energy Co. Ltd. ("Ainsworth") who recently announced a planned \$1.9 billion investment in the Sarnia area that will rely on natural gas feedstock to produce gasoline.<sup>3</sup> Enbridge Gas continues to engage with Ainsworth and other such potential customers in order to maintain an awareness of future demand growth in the Sarnia market. Enbridge Gas takes potential future demand growth into consideration when proposing expansion of its SIL system and ancillary facilities.
9. Additional detail regarding Sarnia market and SIL system demand can be found at Exhibit B, Tab 1, Schedule 2.

iii) The Project

10. In order to provide reliable, secure and economic solutions to serve the increased demand growth contracted with NOVA beginning in November 2021 and

<sup>2</sup> EB-2014-0333, Section 1, p. 3.

<sup>3</sup> More information on Ainsworth's proposed investment in the Bluewater Energy Park adjacent to the Sarnia Regional Cogeneration Plant TransAlta Cogen can be found at <http://www.sarnialambton.on.ca/1-9-billion-investment-slated-for-transalta>.



considering the potential for continued future demand growth beyond 2021  
Enbridge Gas is seeking leave to construct the proposed Project.

*Project Facilities*

11. As set out at Exhibit B, Tab 1, Schedule 3, Section iv), and at Exhibit B, Tab 1, Schedule 5, Enbridge Gas is seeking leave to construct a 1.2 km, 6620 kPag, NPS 20 pipeline from the Dow Valve Site to the Bluewater Interconnect including tie-in to the existing SIL system and modifications to the existing Novacor Corunna Station. As an ancillary benefit, the proposed Project enables enhanced in-line inspection capability by reducing pipeline velocities for appropriate speed control of inspection tools.
12. Construction of the Project is scheduled to commence in the spring of 2021 to utilize favourable summer construction weather and environmental windows. The proposed latest in-service date for the Project is November 2021. In order to adhere to this Project schedule, OEB approval is requested by April 30, 2020. This timing will ensure that the proposed Project facilities are approved and in place prior to NOVA completing construction of its expansion facilities.

*Project Costs and Economics*

13. As set out at Exhibit B, Tab 1, Schedule 4, the total estimated cost of the Project (pipelines and ancillary facilities) is \$30.8 million (total pipeline costs are estimated to be \$23.4 million and ancillary facilities are estimated to be \$7.3 million). These costs include materials, construction and labour, environmental protection measures, land acquisition, contingencies, indirect overheads and interest during construction ("IDC"). Excluding indirect overheads, the total estimated cost of the Project is \$27.8 million.

14. An economic analysis has been completed in accordance with the OEB's recommendations in its E.B.O. 188 Report of the Board on Natural Gas System Expansion ("E.B.O. 188"). The Project has a Net Present Value ("NPV") of \$2.5 million and a Profitability Index ("PI") of 1.1. Similarly, when the estimated costs and revenues for the Project are included in Enbridge Gas's rolling portfolio, the resulting PI is estimated to be 1.2. On this basis, Enbridge Gas submits that the Project is economically justified and in the public interest.
15. Consistent with Enbridge Gas's Leamington Expansion Project and Chatham-Kent Rural Project, which were approved by the OEB,<sup>4</sup> Enbridge Gas assessed an Hourly Allocation Factor to be applied to the capital costs of each new large volume customer serviced by the proposed Project. Enbridge Gas proposes to use this method to facilitate cost recovery of the capacity associated with future growth.

*Environmental Report*

16. As set out at Exhibit B, Tab 1, Schedule 6, the Sarnia Industrial Line Reinforcement Project: Dow to Bluewater Environmental Report ("ER") has been prepared for the Project. There will be minimal environmental impacts related to the construction of the Project given Enbridge Gas's standard construction procedures and the mitigation measures recommended in the ER.

*Lands*

17. As set out at Exhibit B, Tab 1, Schedule 7, in order to ensure area residents and other key stakeholders were made aware of the Project, Enbridge Gas implemented a consultation outreach plan. Enbridge Gas has discussed the Project with all directly affected landowners and has initiated negotiations with

<sup>4</sup> EB-2016-0013, Leamington Expansion Project – Updated Application, April 6, 2016, pp. 2-3; EB-2018-0188, Chatham-Kent Rural Project – Updated Application, March 14, 2019, pp. 15-16.

landowners from who either fee simple, permanent or temporary land rights are required. Enbridge Gas will have all land rights in place prior to construction. Enbridge Gas is seeking approval of the form of land agreements required for the Project.

*Indigenous Consultation*

18. As set out at Exhibit B, Tab 1, Schedule 8, Enbridge Gas has worked with the Ministry of Energy, Northern Development and Mines ("MOENDM") to ensure that affected Indigenous communities were consulted, with respect to the Project, and that their concerns and issues have been identified and addressed.

## DESCRIPTION OF EXISTING SYSTEM

1. The purpose of this section of evidence is to provide an overview of demands and supply impacting Enbridge Gas's SIL system. This section of evidence also provides an overview of SIL system operations.
2. This section of evidence is organized as follows:
  - i) Introduction
  - ii) Existing Facilities
  - iii) Demand
  - iv) Demand Growth
  - v) Supply
  - vi) System Operation

i) Introduction

3. The SIL system serves one of Enbridge Gas's most geographically concentrated infranchise markets, the Sarnia market, consisting of one of the largest petrochemical and refined petroleum manufacturing areas in North America. The Sarnia market is located 20-35 kilometers northwest of the Dawn Hub and is not directly connected to Enbridge Gas's Dawn Parkway System.<sup>1</sup> While the Sarnia market is Enbridge Gas's closest major infranchise market to the Dawn Hub, the Sarnia market and the Dawn Hub are connected through the Enbridge Gas storage system (specifically the pipelines connecting storage pools to the Dawn Hub) as well as through third party pipelines connected to the Dawn Hub. The

<sup>1</sup> Enbridge Gas's Dawn Parkway System and the Dawn Hub have been previously described in the following applications: EB-2012-0433, Parkway West Project – Updated Application, March 13, 2013, Section 2; EB-2013-0074, Brantford-Kirkwall/Parkway D Project - Application, April 2, 2013, Section 3; EB-2014-0261, Dawn Parkway 2016 Expansion Project - Application, September 30, 2014, Exhibit A, Tab 4; and EB-2015-0200, 2017 Dawn Parkway Project – Updated Application, September 24, 2015 Exhibit A, Tab 4.

Sarnia market relies significantly upon natural gas deliveries on third-party pipelines for supply to meet winter Design Day demand.

ii) Existing Facilities

4. The SIL system is comprised of a series of parallel pipelines, metering and regulating stations operating at 6620 kPag MOP. The SIL system starts at the Vector Courtright and Great Lakes Courtright stations located on Greenfield Road, south of Oil Springs Line in the Township of St. Clair. From Courtright, the SIL system extends north and terminates within the limits of the City of Sarnia at the Sarnia Industrial Station, located near the intersection of Churchill Road and Vidal Street South.
5. The original SIL system consists of an NPS 12 pipeline constructed in the 1960s, running east from Vector Courtright Station for 0.9 km and then north along the CN rail right-of-way ("RoW") for approximately 17.5 km, terminating at the Sarnia Industrial Station.
6. The NPS 12 SIL connects to Enbridge Gas's NPS 24 St. Clair pipeline via the St. Clair Pipeline Station.<sup>2</sup> The NPS 12 SIL is also connected to the NPS 20 Bluewater pipeline via St. Clair Pipelines LP's facilities at the Bluewater Interconnect.<sup>3</sup>
7. Over time, the SIL system was reinforced with pipeline looping projects, including:
  - (i) an NPS 10 pipeline from the Dow Valve Site to the Churchill Road Station (1992);<sup>4</sup>
  - (ii) an NPS 16 pipeline from the Novacor Corunna Station to the Dow

<sup>2</sup> Located approximately 1.5 km south of Courtright on Bickford Line at the CN railway east of Highway 40.

<sup>3</sup> Located on LaSalle Line at the CN railway east of Tashmoo Avenue.

<sup>4</sup> Located on River Road south of Churchill Road. Constructed by Dow Chemical Canada Inc. in 1978. The pipeline was purchased by Union in 1992.

Valve Site (1992);<sup>5</sup> (iii) an NPS 20 pipeline from Courtright to the Novacor Corunna Station (2002); (iv) an NPS 20 pipeline from the Novacor Corunna Station to the Dow Valve Site (2007); and (v) an NPS 20 pipeline from the Payne Storage pipeline to the Novacor Corunna Station (2015).

8. Approximately 90% of the length of the SIL system consists of at least two large diameter (NPS 12 or greater) interconnected pipelines between Courtright and the Bluewater Interconnect. The major industrial customers in the Sarnia market are directly connected to the SIL system, whereas nearby residential and smaller commercial markets are served by lower pressure pipelines fed from the SIL system.
9. The SIL system is directly connected to the Dawn Hub via the NPS 8 Dawn Kimball pipeline which is intended to supply the Sarnia market.<sup>6</sup> The SIL system is connected to the Dawn Hub through other pipelines within the Enbridge Gas storage system that are required to support storage operations, limiting availability to supply the Sarnia market. The storage pipelines that connect to the SIL system include the NPS 20 Payne Storage pipeline in combination with: the NPS 20 Payne to Sarnia Transmission pipeline,<sup>7</sup> the NPS 10 Payne Kimball pipeline,<sup>8</sup> and the NPS 24 Bickford Storage pipeline.<sup>9</sup>

<sup>5</sup> Located at Rokeby Line and the CN railway, 1.2 km south of LaSalle Line at the CN railway respectively.

<sup>6</sup> Operates at 2900 kPag and feeds into a lower pressure pipeline system. This system connects to the SIL system at the Novacor Corunna Station.

<sup>7</sup> Located between the Payne Pool station, on Ladysmith Line between Rokeby Line and Moore Line, and the Novacor Corunna Station. Supply from the Dawn Hub on this pipeline is only available on a limited basis as it is fed from the NPS 20 Payne Storage Pool pipeline which is required to support storage operations.

<sup>8</sup> Operates at 6620 kPag and connects to the SIL system between Courtright and Novacor Corunna Station. Supply from the Dawn Hub on this pipeline is only available on a limited basis as it is fed from the NPS 20 Payne Storage Pool pipeline which is required to support storage operations.

<sup>9</sup> Located between St. Clair Pipeline Station and the Dawn Hub. Supply from the Dawn Hub on this pipeline is only available on a limited basis as this pipeline is required to support storage operations.

**SARNIA INDUSTRIAL LINE SYSTEM  
SCHEMATIC OF EXISTING FACILITIES**

The diagram illustrates the Sarnia Industrial Line System, showing the St. Clair River and various industrial facilities. Key components include:

- Storage Pools:** Sarnia Pool, Bickford Pool, Sarnia Pool, Terminal Pool, Dawn Hub.
- Interconnect Stations:** Sarnia Industrial Station, Churchill Road Station, Novacor Corunna Station, Payne Pool Compressor, Kimball station.
- Regulator Stations:** NPS 20 SIL, NPS 12 SIL, NPS 10, NPS 8, NPS 30, NPS 24.
- Major Customers:** Dow A Pool, Dow Valve Site, Novacor Corunna Station, Payne Pool Compressor, Kimball station.
- Pipelines:**
  - MilchCon
  - St Clair Pipelines LP
  - Vector Pipeline
  - TC Energy GLGT
  - Bluewater Gas Storage
  - Niagara Gas "Link"
  - SIL System
  - Other Utility Pipelines

The system is located near the City of Sarnia, with a north arrow indicating orientation.

iii) Demand

12. The Sarnia market is primarily served from the SIL system which transports natural gas from supply sources to residential customers, commercial businesses and some of Enbridge Gas's largest industrial customers. The Sarnia market is home to Ontario's largest concentration of petrochemical industries (known as "Chemical Valley"), Canada's largest integrated hazardous waste management complex, Canada's largest and oldest petroleum research centre and Canada's largest ethanol plant. The Sarnia market also serves two large combined cycle natural gas power generation plants (TransAlta Generation Partnership and St Clair Power L.P.) which have the ability to impact demand for natural gas in the Sarnia market on short notice based on their production of electricity.
13. The majority (approximately 90%) of Sarnia market demand is consumed by contract rate industrial customers (mainly Rate T1 and Rate T2) such as power generators and large industrial customers. Residential and small commercial/industrial customers constitute the remainder of Sarnia market demand.
14. The Design Day demand for the Sarnia market is defined as the amount of general service, firm and interruptible contract rate demand Enbridge Gas is committed to transport through its pipeline systems on a Design Day.<sup>10</sup> Uniquely, the Sarnia market summer Design Day is almost equivalent to the winter Design Day.<sup>11</sup>

<sup>10</sup> The Design Day weather condition for the South rate zone is 43.1 Heating Degree Days (43.1 HDD), which represents an average daily temperature of -25.1 degrees centigrade. The highest probability of occurrence of a 43.1 HDD is from mid-January to mid-February.

<sup>11</sup> Summer Design Day demand is also increased due to the requirement to fill the Dow A Storage Pool.



These conditions result in hourly, daily and seasonal design and operational service requirements.<sup>12</sup>

iv) Demand Growth

15. Natural gas prices in North America are among the lowest in the world, drawing energy intensive industries to North America and Ontario. Sarnia market demand has more than doubled since 1998 largely driven by industrial (including petrochemical) and power generation demand growth. Significant amounts of both electricity and steam are typically required in petrochemical manufacturing processes. Since, natural gas is the primary fuel used in the production of steam and electricity it is a primary cost driver for industrial customers. Access to abundant, high pressure, low cost natural gas is a key element in the decision to expand existing facilities or to site new petrochemical plants. The petrochemical industry in the Sarnia market continues to grow in response to its access to abundant and affordable natural gas resources and access to services at the Dawn Hub, which are strategic advantages that help Sarnia compete with other North American jurisdictions for industrial investment.
16. NOVA operates three large chemical manufacturing facilities in the Sarnia market area: (i) NOVA Corunna; (ii) NOVA St. Clair; and (iii) NOVA Moore. These facilities are served by the SIL system. NOVA is also a participant in the Sarnia Regional Cogeneration Plant ("SRCP") which is also served by the SIL system. As a participant in SRCP, NOVA supplies natural gas to SRCP and receives steam and electricity in return.

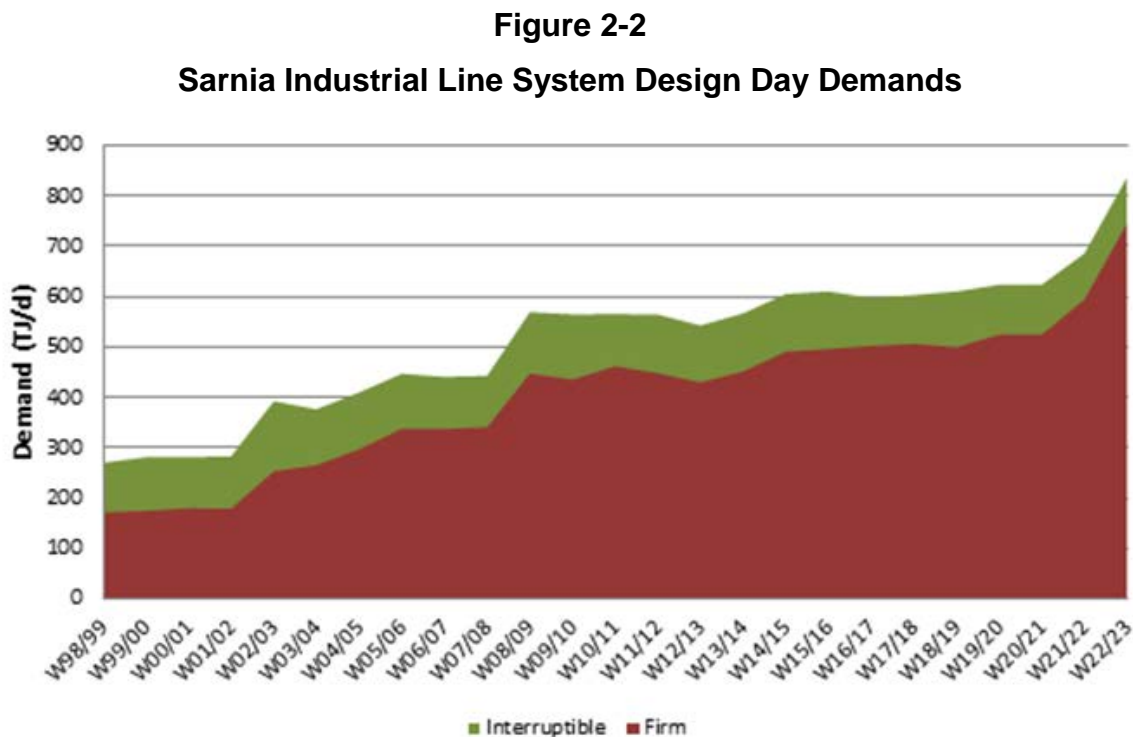
<sup>12</sup> Since industrial demand is relatively constant and considering contractual limitations to interruption and the contractual rights to use maximum hourly volumes during interruption, the SIL system must be designed for peak hourly usage including interruptible demand on Design Day.

17. NOVA's Corunna site is a world scale petrochemical complex which produces about 1.8 billion pounds of ethylene and up to 2.0 billion pounds of co-products annually. The Corunna facility started in late 1977 and was purchased by NOVA in 1988. It was the first fully integrated refinery and petrochemical complex in North America.
18. In 2011, NOVA launched a multi-million dollar investment to upgrade its processes and change its Corunna site feedstock from a mix of crude-oil based liquids to natural gas liquids (primarily ethane with lesser amounts of propane and butane) which started flowing from the Appalachian basin in December 2013. NOVA's elimination of their crude-oil based liquid feedstock at the Corunna site drove the need for NOVA to convert several large process boilers from crude-oil based fuel to natural gas.
19. In July 2019, Enbridge Gas contracted new firm natural gas delivery services with NOVA beginning November 1, 2021. This incremental demand will support a \$2 billion expansion of NOVA's Corunna site.<sup>13</sup>
20. Further, Ainsworth recently announced a planned \$1.9 Billion investment in the Sarnia area that will rely on natural gas feedstock to produce gasoline.<sup>14</sup> Enbridge Gas anticipates that it will be necessary to increase the capacity of the SIL system in order to serve the anticipated demand growth from Ainsworth.

<sup>13</sup> A redacted copy of NOVA's T2 Storage and Transportation Carriage Service contract can be found at Exhibit B, Tab 1, Schedule 2, Attachment 1. More information on NOVA's planned expansion can be found at <http://www.novachem.com/Pages/company/corunna-expansion.aspx>.

<sup>14</sup> More information on Ainsworth's proposed investment in the Bluewater Energy Park adjacent to the SRCP TransAlta Cogen can be found at <http://www.sarnialambton.on.ca/1-9-billion-investment-slated-for-transalta>.

21. In addition to Ainsworth, Enbridge Gas is in continued discussions with Advanced Chemicals Technologies (“ACT”) which in 2017 announced plans to evaluate a green methanol commercial scale demonstration facility in Sarnia. Enbridge Gas expects that it may also be necessary to increase the capacity of the SIL system in order to serve the anticipated demand growth from ACT.
22. SIL system Design Day demand from 1998/99 to 2022/23, including the incremental contracted demand from NOVA, is shown at Figure 2-2 and at Exhibit C, Tab 2, Schedule 2.



23. In its 2014 Sarnia Expansion Pipeline Project application, Enbridge Gas (formerly Union) predicted that, “...there will be an increase in demand from industrial customers for natural gas delivery services on the SIL system. This potential increase in demand for natural gas in the Sarnia-Lambton area is associated with

*investment in new and existing petrochemical-based industrial facilities and potential large volume end-use applications such as gas-fired generation and co-generation.”*<sup>15</sup> These predictions have come to fruition. Continued investment in industrial facilities in the Sarnia area since 2015 has consumed remaining system capacity. As a result, the SIL system requires incremental capacity created by the proposed Project in 2021 to meet the demands of NOVA identified above. Additionally, the proposed Project will create 12.2 TJ/d of capacity to serve future growth in the Sarnia market.

v) Supply

24. The Sarnia market is primarily supplied through a combination of four directly connected third-party pipelines as well as through Enbridge Gas’s own pipelines. A fifth pipeline, the Niagara Gas Transmission Limited LINK Pipeline, which is owned by an Enbridge Gas affiliate, interconnects with the Enbridge Gas Corunna Station but does not interconnect with the SIL system.<sup>16</sup>
25. The four third-party pipelines that flow gas from Michigan into Ontario and interconnect with the SIL system are:
- 1) Great Lakes Canada Pipeline Ltd. (“GLC”)/Great Lakes Gas Transmission (“GLGT”);
  - 2) Vector Pipeline L.P. (“Vector”);
  - 3) DTE Energy (“DTE”)/St. Clair Pipelines (St. Clair Pipelines L.P.); and

<sup>15</sup> EB-2014-0333, Section 3, November 4, 2014, p. 6.

<sup>16</sup> The LINK pipeline was constructed in 1995 by Niagara Gas Transmission Limited, which is an affiliate of Enbridge Gas. This NPS 24 pipeline connects to upstream pipelines in Michigan including ANR and DTE and downstream at Enbridge Gas’s Tecumseh Gas Storage facility (“Tecumseh”). Located on Tecumseh Road between Rokeby Line and Moore Line. From Tecumseh, the LINK pipeline connects to the Dawn Hub through two NPS 30 pipelines. This pipeline facility does not interconnect with Enbridge Gas’s SIL system. However, it does cross the NPS 20 Payne Sarnia pipeline, and the NPS 12 and NPS 20 SIL system pipelines.

4) Bluewater Gas Storage, LLC ("BGS")/Bluewater Pipeline (St. Clair Pipelines L.P.).

1) GLGT/GLC

26. The Dawn Extension Pipeline owned by TC Energy affiliate GLC directly connects to the SIL system at Courtright and also directly connects to the Dawn Hub further east. At the international border under the St. Clair River the Dawn Extension Pipeline connects to another TC Energy affiliate pipeline, GLGT, at a point called St. Clair, which is the southern terminus of the GLGT system. The Dawn Extension Pipeline is wholly located in Ontario. The combination of the Canadian Mainline, GLGT and GLC provide eastern markets access to natural gas supply from the Western Canadian Sedimentary Basin ("WCSB") via the GLGT connection to the TC Energy Mainline at Emerson, Manitoba.
27. Enbridge Gas has the ability to direct up to 0.4 PJ/d of supply from the GLC system into the SIL system at Great Lakes Courtright.<sup>17</sup> The SIL system was constructed north from this point and prior to 1989 was reliant on this pipeline as the sole supply from Michigan into the Sarnia market as it was the only pipeline flowing past the area.
28. Enbridge Gas contracts for firm transportation (21 TJ/d starting November 1, 2019) on the GLGT/GLC system to deliver natural gas to the Union South West Delivery Area (SWDA) which includes the SIL system at Great Lakes Courtright. While there are times when larger volumes of gas are flowing past Great Lakes Courtright, Enbridge Gas has no direct control over these volumes. At times, the GLGT/GLC system has experienced reverse flow conditions under which Enbridge

<sup>17</sup> Enbridge Gas directs flow into the SIL system at Courtright and to complete TC Energy's deliveries to Dawn on the Emerson to Dawn path, Enbridge Gas provides TC Energy the same amount of natural gas at Dawn as is directed into the SIL system (displacement).

Gas provides natural gas from Dawn to GLC/GLGT for flow into Michigan. Under reverse flow conditions Enbridge Gas cannot direct supply into the SIL system at Great Lakes Courtright from the Dawn Hub.<sup>18</sup>

2) Vector

29. The Vector pipeline system flows past the SIL system on its path to the Dawn Hub. The Vector pipeline directly connects to the SIL system at Vector Courtright and also directly connects to the Dawn Hub further east (similar to the GLGT/GLC system).
30. The Vector pipeline system was constructed in 2000 and starts in the Chicago area where it connects to a number of upstream pipelines including the Alliance Pipeline system. It runs eastward through Michigan, where it connects to the Rover Pipeline and the NEXUS Pipeline, and then into Ontario where it connects to the Dawn Hub.
31. Historically, the Vector pipeline system has received large amounts of natural gas supply from the WCSB (via the Alliance Pipeline system). In 2018, natural gas production from the Utica and Marcellus shale formations began to enter Canada through the Rover Pipeline and the NEXUS Pipeline, displacing volumes of natural gas from Chicago. The Vector pipeline has the ability to deliver approximately 2.3 PJ/d of natural gas to the Dawn Hub. Enbridge Gas has the ability to direct up to 0.6 PJ/d from the Vector pipeline system into the SIL system at Vector Courtright.

<sup>18</sup> Enbridge Gas cannot displace natural gas directed into the SIL system at either Emerson or other points on the GLGT system. To direct natural gas into the SIL system during reverse flow on the GLC/GLGT system, Enbridge Gas would require a Dawn to St. Clair transportation service on the TC Energy Mainline.

32. Enbridge Gas holds 269 TJ/d of firm long-term transportation capacity on Vector, of which 153 TJ/d is from Chicago to Dawn and 116 TJ/d is from Milford Junction to Dawn (associated with a NEXUS Pipeline contract) to serve the needs of infranchise customers. Enbridge Gas is able to utilize its transportation contract to deliver natural gas to Vector Courtright. Enbridge Gas can also use its transportation contract to deliver an equivalent amount of gas from the Dawn Hub to the SIL system at Vector Courtright on an interruptible basis. While there are times when larger volumes of gas are flowing past Vector Courtright, Enbridge Gas has no direct control over these volumes. At times, the Vector system has experienced reverse flow conditions under which Enbridge Gas provides natural gas from the Dawn Hub to Vector. Under reverse flow conditions Enbridge Gas cannot direct supply into the SIL system at Vector Courtright from the Dawn Hub.

3) DTE/St. Clair Pipeline

33. DTE is a large natural gas distribution utility located in Michigan which also owns transmission pipelines and storage assets. DTE connects to St. Clair Pipelines L.P.'s St. Clair River Crossing pipeline at the international border.<sup>19</sup> The St. Clair River Crossing pipeline flows into the Enbridge Gas NPS 24 St. Clair pipeline which connects to the SIL system at the St. Clair Pipeline Station located near Courtright.
34. DTE is directly connected to natural gas storage and production in Michigan and interconnects with numerous pipeline systems.<sup>20</sup> These pipelines transport natural gas from liquid hubs and production field zones to DTE's facilities.

<sup>19</sup> St. Clair Pipelines L.P., an affiliate of Enbridge Gas.

<sup>20</sup> Great Lakes Gas Transmission, American Natural Resources Pipeline, Panhandle Eastern Pipeline, Consumers Energy, Bluewater Gas Storage and Vector pipeline.

35. Enbridge Gas has the ability to direct up to 0.23 PJ/d of natural gas flowing from DTE into the SIL system at the St. Clair Pipeline Station.<sup>21</sup> Most of the natural gas delivered from DTE is consumed within the Sarnia market because the Bickford pipeline is often used for storage operations at pressures exceeding the delivery pressure from DTE with flow to the Dawn Hub originating east of the St. Clair pipeline station.
36. Enbridge Gas contracts for 158 TJ/d of firm St. Clair to Dawn transportation associated with a NEXUS Pipeline contract that must be consumed in the Sarnia market.

4) BGS/Bluewater Pipeline

37. BGS is a natural gas storage operator located in Michigan that offers storage, balancing and transportation (wheeling) services, some of which support services to inject in Michigan and withdraw at the Dawn Hub. The BGS system connects to St. Clair Pipelines L.P.'s Bluewater Pipeline at the international border. The Bluewater Pipeline connects to the SIL system at the Bluewater Interconnect. BGS is connected to multiple pipelines in Michigan.<sup>22</sup>
38. Enbridge Gas contracts for transportation capacity on the St. Clair Pipelines L.P. system (the "Bluewater Pipeline") which connects Enbridge Gas to BGS. The Bluewater Interconnect has the ability to flow 0.2 PJ/d to 0.3 PJ/d of BGS supply into the SIL system dependent upon operating conditions. BGS has a contract for 123 TJ/d of winter only, firm C1 transportation capacity from the Bluewater Interconnect to the Dawn Hub which is used to provide storage services.

<sup>21</sup> In the winter, under certain operating conditions, Enbridge Gas can also flow 0.29 PJ/d to the Dawn Hub on Enbridge Gas's St. Clair to Bickford system.

<sup>22</sup> DTE, Vector, American Natural Resources Pipeline ("ANR"), GLGT and Consumers Energy.



39. All of the natural gas delivered from BGS is consumed within the Sarnia market. Enbridge Gas does not contract for storage services with BGS to serve its infranchise customers. Therefore, Enbridge Gas does not have direct long-term control over the quantity of natural gas that flows to Ontario via BGS. Rather, flow from Michigan to Ontario via BGS is influenced by the quantity of services that BGS contracts that include Dawn Hub withdrawals and the market value of transportation between Michigan and the Dawn Hub. Historically, flow from Michigan to the Dawn Hub via BGS has been volatile based on market conditions.

*Enbridge Gas's Facilities*

40. Enbridge Gas's Dow A Pool provides supply directly into the Sarnia market. The Dow A Pool is located at the north end of the SIL system near the City of Sarnia. The Dow A Pool uses SIL system flow to inject (fill the pool) in the summer, which contributes to an increased summer Design Day demand in the Sarnia market of 44 TJ/d. During the winter, withdrawals from the Dow A Pool (empty the pool) of approximately 74 TJ/d are available to supply the Sarnia market on a winter Design Day.
41. Enbridge Gas also uses the NPS 8 Dawn Kimball pipeline to supply lower pressure pipeline systems located at the north end of the SIL system. The NPS 8 Dawn Kimball pipeline directly connects the SIL system to the Dawn Hub. However, due to its lower operating pressure, the Dawn Kimball pipeline cannot provide supply to the higher pressure SIL directly. The NPS 8 Dawn Kimball pipeline provides 18 TJ/d in the summer and 14 TJ/d in the winter, and is not a significant source of supply for the Sarnia market.
42. Enbridge Gas's NPS 10 Payne Kimball pipeline connects the SIL system to Enbridge Gas's storage system at the Payne Kimball Station. The NPS 10 Payne

Kimball pipeline can provide up to 82 TJ/d and has historically provided some security of supply for the Sarnia market in the summer. When the NPS 10 Payne Kimball pipeline is utilized, supply is sourced from the Dawn Hub via the NPS 20 Payne Pool Storage pipeline. This supply is not available on winter Design Day as the NPS 20 Payne Pool Storage pipeline is required to deliver gas from the storage pools to Dawn.

43. On February 26, 2015 the OEB approved Union's application for Leave to Construct the 4.8 km NPS 20 Payne Sarnia pipeline (EB-2014-0333). This pipeline runs from the Payne Storage Pool pipeline to the SIL system connecting at the Novacor Corunna Station.<sup>23</sup> The NPS 20 Payne Sarnia pipeline provided 120 TJ/d of growth capacity and 386 TJ/d of security of supply capacity during the summer for the Sarnia market. Currently forecasted winter 2021/2022 Sarnia market demands will exceed the 120 TJ/d of growth capacity created by the Payne Sarnia pipeline.
44. The majority of customers (approximately 90%) served in the Sarnia market have Direct Purchase contracts with gas supply obligated to be delivered to Dawn. There is insufficient pipeline capacity to transport Direct Purchase customers' gas supply from the Dawn Hub to the SIL system. Instead of transporting Direct Purchase customers' gas supply from the Dawn Hub to the SIL system, Enbridge Gas diverts firm system supply or third-party gas flowing on upstream pipelines such as, Vector, GLC, BGS and DTE into the Sarnia market and uses Direct Purchase customers' gas supply at the Dawn Hub to replace diverted supply.

<sup>23</sup> EB-2014-0333, OEB Decision and Order, February 26, 2015.

45. Historically, the volume of system supply gas flowing on Vector and/or GLC has been greater than the Sarnia market year round. For this reason, SIL system Design Day assumes Courtright as the primary source of gas supply.
46. The NPS 20 Payne Sarnia pipeline reduced the summer Design Day reliance on third-party volumes to serve the Sarnia market, however, Enbridge Gas continues to rely on third-party volumes to serve the Sarnia market on winter Design Day.
47. For the NPS 20 Payne Sarnia pipeline to provide security of supply on winter Design Day and reduce reliance on third-party volumes to serve the Sarnia market, reinforcement between the Dawn Hub and the SIL system is required.

vi) System Operation

48. Design Day demand for Enbridge Gas's infranchise market areas typically occurs in the winter, with summer demand being less. The SIL system serves mainly process type customer demand which is constant over the day and not weather dependent, meaning customer demand is the same rate all year round. The SIL system also serves two very large power generation plants with unpredictable usage schedules. These power plants tend to burn when the temperature is very cold (space heating) or very hot (air conditioning), when provincial electricity demands peak. As a result, the periods of highest demand in the Sarnia market are not limited to the coldest weather day. The period of highest demand can occur on the hottest summer days as frequently as the coldest winter days.
49. Another reason there is little difference between winter and summer Sarnia market demand is the need for Enbridge Gas to fill the Dow A Pool during the summer months which increases summer Sarnia market demand when residential heating demand is low.

50. On winter Design Day, the Sarnia market demands are at their maximum since there is a small amount of heat sensitivity from general service and small contract rate customers. Enbridge Gas controlled firm supply includes withdrawal volumes from the Dow A storage pool directly connected to the SIL system and supply from the NPS 8 Dawn Kimball pipeline directly connected to the Dawn Hub. The primary source of supply for the SIL system is the Courtright and St. Clair Pipeline Stations located at the extreme southern end of the system.
51. The NPS 20 Payne Pool pipeline is not available to supply the system on very cold winter days as this pipeline is required to deliver storage gas to Dawn. This gas cannot be diverted into the Sarnia market because there are no dehydration facilities to dry the moisture laden gas withdrawn from storage which could freeze-off customer stations. Additional compression is also required at certain times of the year to increase the pressure of the gas coming out of the pool to SIL system operating pressure.
52. For the reasons outlined above, Enbridge Gas remains significantly reliant upon third-party supply to serve the Sarnia market during the winter.
53. On summer Design Day, customers' demands are slightly lower than on winter Design Day since there is a small amount of heat sensitivity from general service and small contract rate customers. However, during the summer, the SIL system is required to fill the Dow A pool which creates a large Sarnia market demand and eliminates the Dow A pool as a source of supply for the Sarnia market. The NPS 20 Payne Pool pipeline can be used every day in the summer to supplement system supply and third-party supply at Courtright and St. Clair Pipeline Stations. Reliance on third-party supply in the summer is essentially zero due to the ability to flow gas on the NPS 20 Payne Pool pipeline.

Contract ID	
Contract Name	

## T2 CONTRACT

This GAS STORAGE AND DISTRIBUTION CONTRACT ("Contract"), made as of the 23<sup>rd</sup> day of July, 2019.

BETWEEN:

**Enbridge Gas Inc. operating as Union Gas**

hereinafter called "**Union**"

- and -

**NOVA Chemicals (Canada) Ltd.**

hereinafter called "**Customer**"

**WHEREAS**, Customer has requested from Union, and Union has agreed to provide Customer with Services as specified in Schedule 1 (the "**Services**");

**AND WHEREAS** Union proposes to build certain natural gas facilities to provide Services to the Customer (the "**Expansion Facilities**");

**AND WHEREAS** Customer is expanding its Corunna facility (the "**Plant**") and has requested the provision by Union of transportation and related distribution services requiring all or a portion of the Expansion Facilities;

**AND WHEREAS**, Customer acknowledges that Union is relying on Customer's commitments and obligations set forth in this Contract in order to own, build and operate the Expansion Facilities;

**AND WHEREAS**, Union will distribute Customer owned Gas to Customer's Point(s) of Consumption or Storage under this Contract identified in Schedule 1;

**IN CONSIDERATION** of the mutual covenants contained herein, the parties agree as follows:

### 1. **INCORPORATIONS**

The following are hereby incorporated in and form part of this Contract:

- a) Contract Parameters contained in Schedule 1 as amended from time to time;
- b) The latest posted version of the T2 Contract Terms and Conditions contained in Schedule 2 (the "**T2 GT&Cs**") subject to Section 12.18 of Union's General Terms and Conditions;
- c) The latest posted version of Union's General Terms and Conditions (the "**GT&Cs**") subject to Section 12.18 of Union's General Terms and Conditions; and
- d) The applicable T2 Rate Schedule as amended from time to time and as approved by the Ontario Energy Board.

For the purposes of this Contract, "Point(s) of Receipt" shall mean those points identified in Schedule 1 where Union may receive Gas from Customer.

**2. CONDITIONS PRECEDENT**

The obligations of Union to provide Services hereunder are subject to the following conditions precedent that are for the sole benefit of Union and which may be waived or extended, in whole or in part, in the manner provided in this Contract:

- a) Union shall have obtained, in form and substance satisfactory to Union, and all conditions shall have been satisfied under all governmental, regulatory and other third party approvals, consents, orders and authorizations, that are required to:
  - i. provide the Services; and
  - ii. construct the Expansion Facilities;
- b) Union shall have obtained all internal approvals that are necessary or appropriate to:
  - i. provide the Services; and
  - ii. construct the Expansion Facilities;
- c) Union shall have completed and placed into Service the Expansion Facilities;
- d) Union shall have received from Customer the requisite financial assurances reasonably necessary to ensure Customer's ability to honour the provisions of this Contract, which financial assurances will be determined solely by Union in accordance with Section 12 herein; and
- e) Union shall have received the contributions in aid of construction from Customer, if any, in accordance with Section 9 herein, pursuant to Customer's obligations herein.

Union and Customer shall each use commercially reasonable efforts to satisfy and fulfill the conditions precedent specified in Sections a), c), d) and e) above. Union shall notify Customer forthwith in writing of Union's satisfaction or waiver of each condition precedent. If Union concludes that it will not be able to satisfy a condition precedent, Union may, upon written Notice to Customer, terminate this Contract and upon giving such Notice, this Contract shall be of no further force and effect and each of the parties shall be released from all further obligations hereunder, subject to Customer's obligations pursuant to Section 10 herein.

**3. CONTRACT TERM**

This Contract shall be effective from the date hereof. However, the Services and Union's obligation to provide the Services under Section 4 shall commence on the later of (such later date being the "Day of First Delivery") (a) **November 1, 2021**, and (b) the date that the last condition precedent as set out in Section 2 is satisfied or waived by Union. Subject to the



provisions hereof, this Contract shall commence on the Day of First Delivery and continue in full force and effect for a period of [REDACTED] (the “**Initial Term**”) and continuing thereafter on a year to year basis unless written Notice to terminate is provided by one party to the other at least three (3) Months prior to the end of the then-current term. “**Contract Year**” means a period of 12 consecutive Months, beginning on November 1 of any Contract Year and ending on the subsequent October 31, except for the first Contract Year which shall begin on the Day of First Delivery and end on October 31 of the subsequent calendar year.

4. **SERVICES PROVIDED**

Union agrees to provide Services as specified in Schedule 1 and Customer agrees to pay for such Services pursuant to these Contract terms and conditions as set out in this Contract, the referenced attachments, and the rate(s) referenced in Schedule 1.

Customer may at any time during the term of this Contract request an increase to the Contract Parameters and Union at its sole discretion will review whether it can accommodate Customer’s request. If Union can accommodate, Schedule 1 shall be amended to reflect Customer’s requested change in Contract Parameters.

[REDACTED]

[REDACTED]

[REDACTED]



5. **RATES FOR SERVICE**

Customer agrees to pay for Services herein pursuant to the terms and conditions of the following:

- a) The T2 Rate Schedule as amended from time to time by the Ontario Energy Board; and
- b) This Contract and the incorporations hereto.

6. **CD INCREASE DURING CONTRACT TERM**

If Customer uses more than: (i) 103% of its CD; or (ii) 103% of its MHV in any one hour period, Union, at its sole discretion, may increase the Customer's Firm CD with Notice up to the greater of: (i) the daily quantity of the Occurrence; or (ii) 20 times the peak hourly quantity of the Occurrence, for the remainder of the term of the Contract. Customer's Firm CD shall be immediately and retroactively increased as of the 1st day of the month in which the Notice was provided to Customer. The charges to Customer will reflect the increased Firm CD.

7. **EXPANSION FACILITIES**

Union will use commercially reasonable efforts to construct the Expansion Facilities to serve the Plant. The target date for completion of these facilities is **November 1, 2021**. Union will provide written Notice to Customer when such facilities are complete and placed into service.

Union and Customer agree that Union shall not be obligated to construct any portion of the Expansion Facilities between December 15 of any year and March 31 of the subsequent calendar year.

8. **OPERATIONAL CHANGES**

This Contract shall not be amended unless such amendments are agreed to in writing by the parties except:

- a) as contemplated in Section 12.18 of the GT&C; and
- b) as determined by Union acting reasonably, on 60 days prior written notice to the Customer to allow for any necessary operational or administrative changes, requested by the OEB and implemented by Union, or any changes necessary to implement an OEB decision.



9. AID AMOUNT PAYMENT SCHEDULE



10. TERMINATION PRIOR TO COMPLETION OF EXPANSION FACILITIES

Union shall have the right to terminate this Contract at any time prior to the Day of First Delivery, pursuant to Section 2, by giving written notice of termination to Customer, subject to the terms hereof.

If this Contract is terminated by Union as outlined above, then:

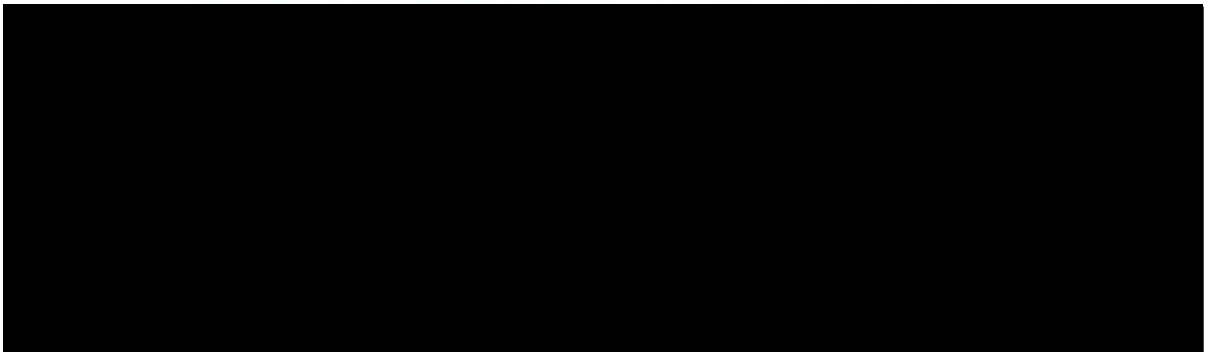
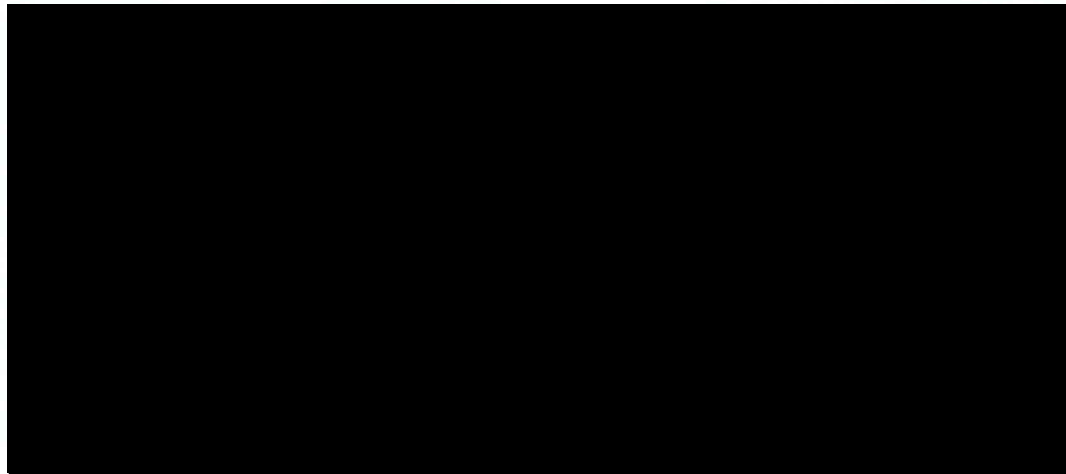
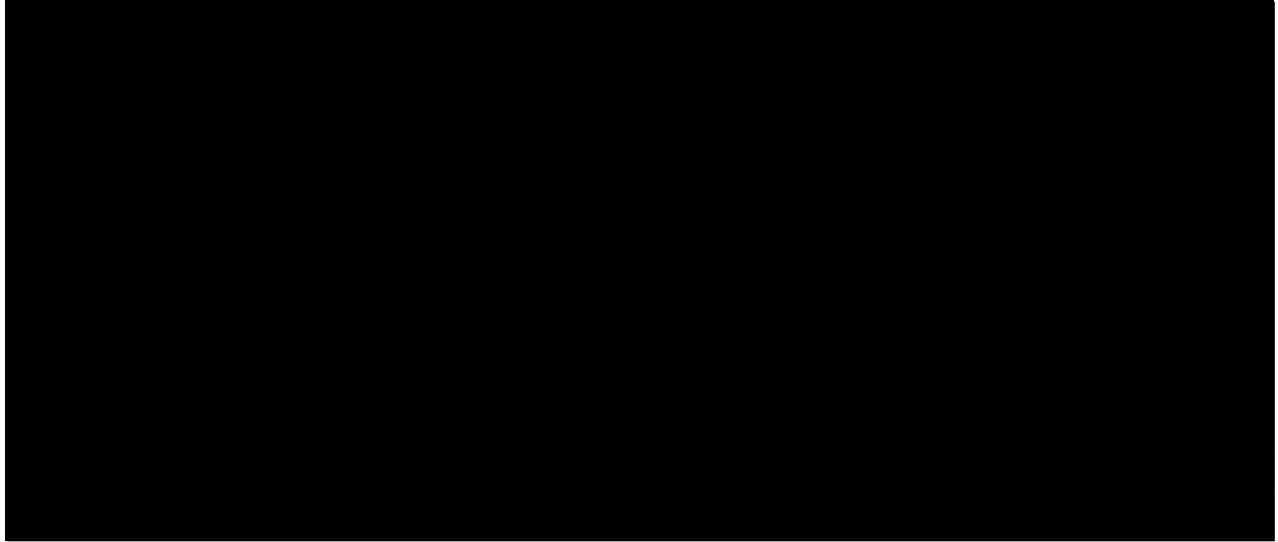
- (a) Upon such termination, this Contract shall be of no further force and effect and each of the parties shall be released from all further obligations hereunder, provided that any rights or remedies that a party may have for breaches of this Contract prior to such termination and any liability that a party may have incurred prior to such termination, and the parties' obligations under this Section 10, shall not thereby be released;
- (b) Customer shall reimburse Union for all Project Costs; and
- (c) Customer shall reimburse Union for all cancellation costs, fees or other amounts paid under contracts entered into by Union to support the satisfaction of the conditions precedent set out in Section 2, to the extent not covered under the definition of Project Costs ("**Cancellation Costs**").

Union may invoice amounts under this Section from time to time, with the expectation that there will be an invoice rendered within 30 days of termination, and subsequent invoices as additional amounts payable hereunder are incurred from time to time. In no event shall Union invoice Customer for any Cancellation Costs or Project Costs not previously invoiced by Union after 12 months from the termination date. Without limiting the foregoing, Customer shall have the right to audit at Customer's expense the costs claimed for reimbursement by Union for a period of 6 months after each invoice is issued.

"**Project Costs**" means any and all costs (including litigation costs, cancellation costs, carrying costs, and third party claims) expenses, losses, demands, damages, obligations, or other liabilities (whether of a capital or operating nature, and whether incurred or suffered before or after the date of this Contract) of Union including amounts paid to affiliates in accordance with the Affiliate Relationship Code as established by the Ontario Energy Board) in connection with or in respect of development and construction of the Expansion Facilities (including without limitation the construction and placing into service of the Expansion Facilities, the obtaining of all governmental, regulatory, and other third party approvals, and the obtaining of rights of way) except for costs that have arisen from the gross negligence, fraud, or willful misconduct of Union.

**11. LATE PAYMENT CHARGES**

Any amounts due and payable by Customer to Union arising under Section 9 or 10 of this Contract shall, if not paid by the due date thereof, be subject to late payment charges equal to 1.5% per month (for a nominal rate of 18% per annum compounded monthly) on any unpaid balance including previous arrears.



[REDACTED]

(d) [REDACTED]

(e) [REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

13. TERMINATION OF PREVIOUS T2 CONTRACT

Upon the Day of First Delivery, the T2 Contract between the parties, dated September 1, 2014, as amended from time to time is terminated and is replaced by this Contract.

*[signature page follows]*



**IN WITNESS WHEREOF** this Contract has been duly executed by the parties hereto as of the date first written above.

**NOVA Chemicals (Canada) Ltd.**

[REDACTED]

Please Print Name

**Enbridge Gas Inc. operating as Union Gas**

[REDACTED]

Authorized Signatory

[REDACTED]

Please Print Name

Initials

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Contract ID	
Contract Name	

**Schedule 1**  
Delivery, Storage and Distribution Services Parameters  
Rate T2

**1. DATES**

This Schedule 1 is effective on the Day of First Delivery.

**2. DAILY CONTRACT QUANTITY (DCQ)\***

Point(s) of Receipt

Location	Obligated Daily Contract Quantity (DCQ)  GJ per Day

\*Obligated DCQ does not include Compressor Fuel.

**3. SUPPLY OF COMPRESSOR FUEL**

Customer shall supply Compressor Fuel for Union's distribution and storage services.

**4. STORAGE PARAMETERS**

Parameters	Quantity	Unit of Measure
Storage:		

**5. DISTRIBUTION PARAMETERS**

**5.1) Point(s) of Consumption**

	A	B	C	D
Location	NOVA Corunna	NOVA Moore	NOVA St. Clair	NOVA SRCP
Station	12F-203I	12F-205	12F-101	N/A
Meter	1936802 - South meter #3  2006605 - Lots 23 & 24 Concession X, Moore township, County of Lambton	2547833 - 100m North of Boiler House  2547834 - 100m North of Boiler House	2476541  2547809	V44444444- 12107439

**5.2) Contract Parameters**

	Unit of Measure	Point(s) of Consumption			
		A	B	C	D
Daily Contract Demand (CD):					
Firm Contract Demand	m <sup>3</sup> /Day				
Interruptible Contract Demand	m <sup>3</sup> /Day				
Firm Hourly Quantity	m <sup>3</sup> /hour				
Maximum Hourly Volume	m <sup>3</sup> /hour				
Minimum Gauge Pressure	kPa				
Notice Period for Interruption	hours				
Maximum Number of Days Interruption	days				

**5.3) Rate Parameters**

	Unit of Measure	Point(s) of Consumption			
		A	B	C	D
Interruptible Transportation Commodity	cents per m3				

**6. MINIMUM ANNUAL VOLUME**

	Unit of Measure	Point(s) of Consumption			
		A	B	C	D
Firm Minimum Annual Volume	m <sup>3</sup> /year				
Interruptible Minimum Annual Volume	m <sup>3</sup> /year				

## ALTERNATIVES AND PROPOSED PROJECT

1. The purpose of this section of evidence is to review and compare the facility and non-facility alternatives assessed to provide reliable, secure and economic natural gas to serve NOVA as well as future Sarnia market demand growth.
2. The proposed Project is a facility alternative to construct an NPS 20 pipeline from the existing Dow Valve Site to the existing Bluewater Interconnect. This facility provides an incremental 73.6 TJ/d of SIL system capacity at an estimated capital cost of \$23.5 million.<sup>1</sup>
3. This section of evidence is organized as follows:
  - i) Description of Alternatives
  - ii) Description of Evaluation Criteria
  - iii) Assessment of Alternatives
  - iv) Proposed Project

### i) Description of Alternatives

4. The proposed Project was assessed against both facility and non-facility alternatives. A facility alternative involves the construction of additional pipeline reinforcement and/or station infrastructure, compression, or peaking plants to increase capacity from existing or new supply sources. Non-facility alternatives include commercial services from third-parties such as incremental supply delivered to the Sarnia market and Integrated Resource Planning (“IRP”) options which could offset the need for facilities or commercial alternatives to serve demand growth forecasted for 2021 and beyond.

<sup>1</sup> Not inclusive of ancillary costs including station costs. Station costs are required regardless of the alternative chosen.



ii) Description of Evaluation Criteria

*Facility Requirements*

5. Facility alternatives need to provide a minimum of 61.4 TJ/d of incremental SIL system capacity to serve NOVA demand beginning November 1, 2021, through new facilities.

*Design Day and Operational Requirements*

6. The current winter Design Day and operational requirements to serve the Sarnia market from the SIL system includes the following assumptions:
  - All infranchise customers are consuming volumes equivalent to Design Day and peak hour estimates, which are derived from historical consumption, customers contracted demand and forecasted growth;
  - Minimum delivery pressures for stations and customers' requirements are met and flows are within station capacities;
  - Required firm and third-party supply is available from Vector and/or GLGT/GLC at Courtright at a pressure of 4826 kPag (700 psig);
  - Required firm supply is available from DTE at the St Clair Pipeline Station at a pressure of 5170 kPag (750 Psig) at the international border;
  - Required supply is available from the Dawn Hub via the NPS 8 Dawn Kimball pipeline;
  - Required supply is available from the Dow A Pool;
  - Pressure at the system constraint, which is at the inlet to Sarnia Industrial Station, remains above the required minimum inlet pressure of 3545 kPag (514 Psig); and
  - Pipeline velocity remains below requirements for in-line inspection and acceptable operating limits.

*Commercial Non-Facility Requirements*

7. In order to determine whether or not commercial non-facility alternatives are feasible in comparison to the proposed Project, Enbridge Gas evaluated the alternatives and assessed them against the following criteria:
  - Must be economically viable with price certainty;
  - Must meet Design Day and Operational Requirements;
  - Must provide reliable firm service; and
  - Must be commercially available - a minimum 3 year term with renewal rights (allowing for replacement with a facility build).
8. For a commercial non-facility alternative to be feasible, firm gas delivery of 61.4 TJ/d is required at the Bluewater Interconnect to serve incremental NOVA demand beginning November 1, 2021.

*IRP Non-Facility Requirements*

9. In order to determine whether or not IRP alternatives are feasible, Enbridge Gas considered the following criteria:
  - The economic feasibility of the proposed Project;
  - The nature of Sarnia market demand driving the proposed Project, including the make-up of the demand growth, the relative sophistication of market participants and their appetite for incremental energy efficiency programming; and
  - The ability to implement and verify energy savings resulting from any IRP alternative by November 1, 2021.

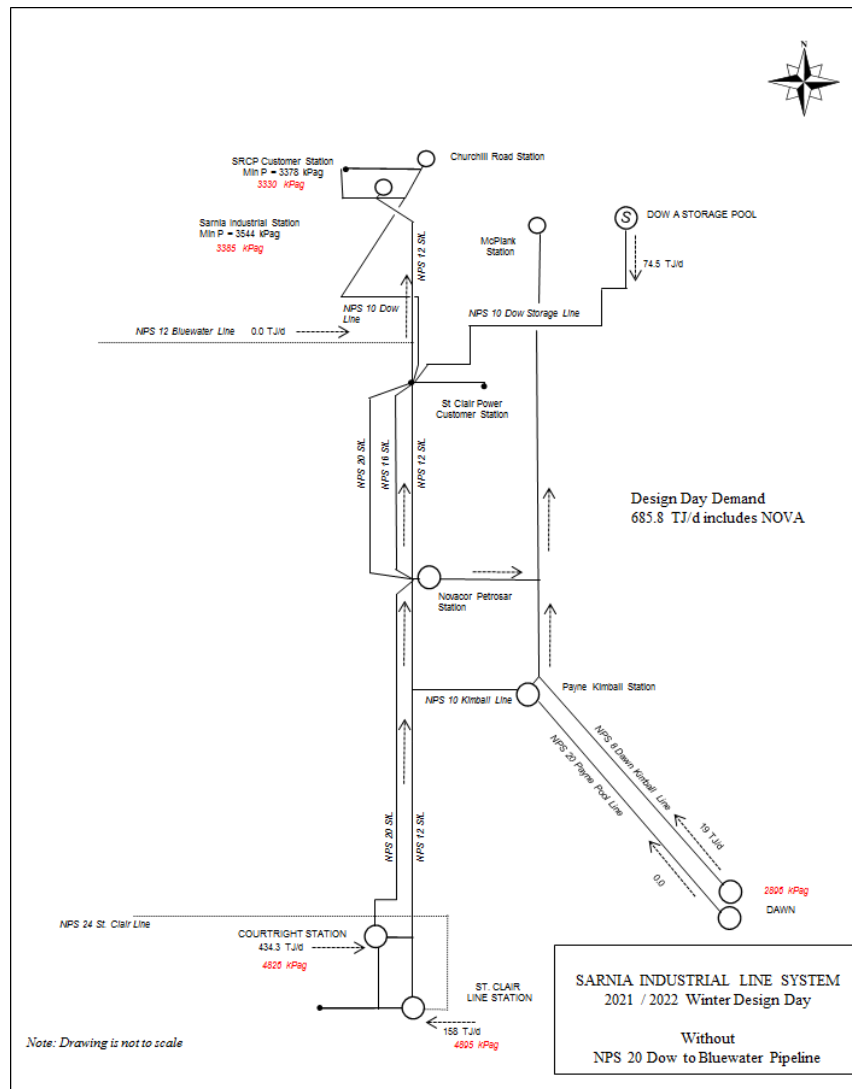
iii) Assessment of Alternatives

10. For an alternative to be acceptable, it is required to provide a minimum of 61.4 TJ/d on a firm basis to meet NOVA demand requirements beginning November 1, 2021. Alternatives could also support some continued growth of the Sarnia market

beyond 2021/2022. Acceptable alternatives must also meet the Design Day and Operational Requirements summarized above.

11. A schematic of the SIL system reflecting the forecast 2021/2022 winter Design Day with the NOVA demand but without the proposed Project is provided at Figure 3-1 and at Exhibit C, Tab 3, Schedule 1.

**Figure 3-1**  
**SIL System 2021/2022 Winter Design Day Schematic**



12. The following facility and non-facility alternatives were identified and assessed. Further detail on each alternative is provided below:

*Facility Alternatives*

- New Pipeline from Dow Valve Site to Bluewater Interconnect;
- New Pipeline from Bluewater Interconnect to the Churchill Road Station and Sarnia Industrial Station;
- New Pipeline from Great Lakes Courtright to Courtright Line;
- New Pipeline from the Dawn Hub to the Payne Pool Station;
- Replace the NPS 10 Dow pipeline between Bluewater Interconnect and Churchill Road Station;
- Replace NPS 12 SIL between Bluewater Interconnect and Sarnia Industrial Station;
- New Compressor Plant;
- New Liquefied Natural Gas Plant; and
- New Compressed Natural Gas Facilities.

*Non-Facility Alternatives*

- Firm Gas Supply Delivered at Bluewater Interconnect; and
- Integrated Resource Planning.

*Facility Alternatives*

*New Pipeline from Dow Valve Site to Bluewater Interconnect*

13. Construction of 1.2 km of 6620 kPag MOP pipeline facilities to loop the existing NPS 12 SIL and NPS 10 Dow pipeline between the Dow Valve Site and the Bluewater Interconnect will reduce the pressure loss in the SIL system and increase SIL system capacity. This alternative relieves a system pressure bottleneck as it is one of the last remaining sections of the SIL system which does not have a large diameter pipeline looping (greater than NPS 12).

14. Enbridge Gas reviewed multiple pipeline diameter options to loop the SIL system, including an NPS 16, NPS 20, and NPS 24 and concluded that the NPS 20 pipeline from the Dow Valve Site to the Bluewater Interconnect is the preferred alternative. The NPS 16 pipeline was determined to be unacceptable due to its inability to serve any incremental Sarnia market growth beyond that contracted by NOVA, increased cost associated with the need for additional launcher and receiver facilities and the potential to create a system pressure bottleneck in the future. The NPS 24 pipeline was rejected due to the increased cost associated with the larger diameter and need for additional launcher and receiver facilities.
15. The capital cost required for a 1.2 km NPS 20 pipeline is estimated to be \$23.5 million. The existing SIL system pipeline running south from the Dow Valve Site is also NPS 20 therefore this alternative does not require the installation of additional launcher and receiver facilities at the Dow Valve Site. Looping this section of the SIL system will set the SIL system up for future growth without stranding pipeline assets. This alternative is the preferred facility and the proposed Project.

*New Pipeline from Bluewater Interconnect to the Churchill Road Station and Sarnia Industrial Station*

16. Construction of 24 km of 6620 kPag MOP pipeline facilities to loop the existing NPS 12 SIL and NPS 10 Dow pipeline between the Bluewater Interconnect and the NPS 12 SIL at the Sarnia Industrial Station and the NPS 10 Dow pipeline at the Churchill Road Station will reduce pressure loss in the SIL system and increase SIL system capacity. This section of the SIL system, along with the Dow Valve site to Bluewater Interconnect is one of the last remaining sections of the SIL which does not have a large diameter pipeline.
17. Enbridge Gas reviewed a pipeline option to loop the SIL system with a 6620 kPag MOP pipeline and concluded that this alternative was unacceptable due to the

increased cost and potential impacts associated with 24 kilometres of pipeline compared to the 1.2 km of NPS 20 required for the proposed Project.

*New Pipeline from Great Lakes Courtright to Courtright Line*

18. Construction of 4.5 km of 6620 kPag MOP pipeline facilities to loop the existing SIL between the Great Lakes Courtright Station and the intersection of the CN railway and Courtright Line will reduce the pressure loss in the SIL system and increase SIL system capacity.
19. Enbridge Gas reviewed a pipeline option to loop the SIL system with a 6620 kPag MOP pipeline and concluded that this alternative was unacceptable due to the increased cost associated with 4.5 km of pipeline and the need for additional launcher and receiver facilities compared to the 1.2 km of NPS 20 required for the proposed Project.

*New Pipeline from the Dawn Hub to the Payne Pool Station*

20. Construction of 21 km of 6895 kPag MOP pipeline facilities from the Dawn Hub to the NPS 20 Payne Sarnia pipeline located at the Payne Pool Station will provide a large volume direct connection to Dawn.
21. Enbridge Gas reviewed an NPS 20 diameter option with a 6895 kPag MOP and concluded that this alternative was unacceptable due to the increased cost associated with 21 km of pipeline compared to the 1.2 km of NPS 20 required for the proposed Project.

*Replace the NPS 10 Dow pipeline between Bluewater Interconnect and Churchill Road Station*

22. Replacement of the existing NPS 10 Dow pipeline between the Bluewater Interconnect and Churchill Road Station was considered as an alternative. The

NPS 10 Dow pipeline runs on easement directly through the Aamjiwnaang First Nation Reserve lands. It is not feasible to “lift and lay” a new pipeline in the existing easement as the SIL system cannot serve firm demands with the existing NPS 10 Dow pipeline out of service. As such, Enbridge Gas would require a new easement and temporary land use prior to removal of the existing NPS 10 pipeline. Enbridge Gas initiated discussions with Aamjiwnaang First Nation and respects their decision to not provide Enbridge Gas a new easement through their lands. Further, this alternative is unacceptable due to the increased cost and potential impacts associated with 3.5 kilometres of pipeline compared to the 1.2 km of NPS 20 required for the proposed Project.

*Replace NPS 12 SIL between Bluewater Interconnect and Sarnia Industrial Station*

23. Replacement of the NPS 12 SIL between the Bluewater Interconnect and Sarnia Industrial Station was considered as an alternative. The NPS 12 SIL runs on the railway RoW that passes directly through the Aamjiwnaang First Nation Reserve lands. It is not feasible to “lift and lay” a new pipeline in the existing easement as the SIL system cannot serve the firm demands with the existing NPS 12 SIL out of service. The railway RoW does not have sufficient space to install a larger diameter pipeline and Enbridge Gas would require additional easement and temporary land use adjacent to the railway RoW from Aamjiwnaang First Nation prior to removal of the existing NPS 12 pipeline. Enbridge Gas initiated discussions with Aamjiwnaang First Nation and respects their decision to not provide Enbridge Gas a new easement through their lands. Further, this alternative is unacceptable due to the increased cost and potential impacts associated with 2.5 kilometres of pipeline compared to the 1.2 km of NPS 20 required for the proposed Project.

*New Compressor Plant*

24. Enbridge Gas considered installing a new compressor plant as an alternative. The compressor plant would need to be sited at the southern end of the SIL system near Courtright which is the primary source of supply into the Sarnia market. A new compressor plant would strand gas flowing on DTE and BGS as the discharge pressure during the winter operating season would be higher than the pressure that DTE and Bluewater Pipeline can supply at. The compressor would also require Loss of Critical Unit (“LCU”) coverage (i.e. a second back-up compressor unit) to ensure reliability to serve firm customer demands in the event of an unplanned outage. This alternative is unacceptable due to the increased cost of constructing and operating the compressor and LCU requirement as compared to the proposed Project.

*New Liquefied Natural Gas Plant*

25. Enbridge Gas considered installing a new Liquefied Natural Gas (“LNG”) facility as an alternative. As Sarnia market customer demands are primarily process oriented in nature, operating continually year round, there may be difficulties filling an LNG facility while serving market demand. Similarly, once filled, an LNG facility may not provide the continuous supply required to serve market demand as the facility has a finite size and must be refilled. This alternative is unacceptable due to the increased cost of constructing and operating an LNG facility compared to the proposed Project.<sup>2</sup>

*New Compressed Natural Gas Facilities*

26. Enbridge Gas considered installing new Compressed Natural Gas (“CNG”) facilities as an alternative. CNG facilities are most economical to serve winter

<sup>2</sup> As detailed at EB-2016-0186, Exhibit JT1.24, to serve 106 TJ/d an LNG facility was costed at approximately \$235 million with about \$5 million in annual operating costs. On a simple pro-rated basis, the 61.4 TJ/d required for NOVA is 57% or \$134 million plus operating costs of approximately \$3 million per year.



peaking demands in areas where significant reinforcement is required on a limited number of days per year. Similar to a new LNG facility, this alternative was rejected due to the increased cost of constructing and operating a CNG facility and truck/trailer fleet compared to the proposed Project.<sup>3</sup>

#### *Non-Facility Alternatives*

##### *Firm Gas Supply Delivered at Bluewater Interconnect*

27. Enbridge Gas could serve incremental NOVA demand by delivering firm gas supply from BGS to the Sarnia market at the Bluewater Interconnect Station. In order to transport natural gas on the BGS system, a shipper must contract storage services with BGS. Enbridge Gas understands that BGS does not offer a firm transportation service to the Sarnia market from the interconnected pipelines. An interruptible wheeling service does not provide the reliability required to serve Sarnia market demand.

##### *Integrated Resource Planning*

28. IRP is not a viable alternative to serve NOVA's incremental Sarnia market demand beginning November 1, 2021, for the following reasons:
  - The proposed Project and associated Application are being driven by incremental demand from a single large volume (Rate T2) industrial customer located in the Sarnia market and served from the SIL system. No aid-to-construct is required from NOVA, the Project is economically feasible and in the public interest (as detailed at Exhibit B, Tab 1, Schedule 4).
  - As set out at Exhibit B, Tab 1, Schedule 2, the Sarnia market is primarily served from the SIL system and is home to Ontario's largest concentration of petrochemical industries, which include the most sophisticated energy users in

<sup>3</sup> As detailed at EB-2016-0186, Exhibit JT1.24, to serve 106 TJ/d a CNG facility was costed at approximately \$97 million, with trucks and trailers costing a further \$62 million and about \$16 million in annual operating costs. On a pro-rated basis, the 61.4 TJ/d required for NOVA is 57% or \$91 million plus operating costs of approximately \$9 million per year.

the country most of which have been active participants in historic and current DSM programs. Further, the majority (approximately 90%) of the Sarnia market demand is consumed by these same contract rate industrial customers (mainly Rate T1 and Rate T2). Residential and small commercial/industrial customers constitute the remainder of the Sarnia market, leaving inadequate potential for IRP to offset large regional industrial demands such as those of NOVA, Ainsworth and ACT.

- As set out at Exhibit B, Tab 1, Schedule 2, Section iv), Enbridge Gas only just executed a new firm natural gas delivery service contract with NOVA in July 2019, for service beginning November 1, 2021. The proposed Project is designed to serve this need in the most efficient and cost-effective manner possible. By contrast and as set out above, Enbridge Gas has not identified any IRP alternatives feasible to implement and verify before November 1, 2021.

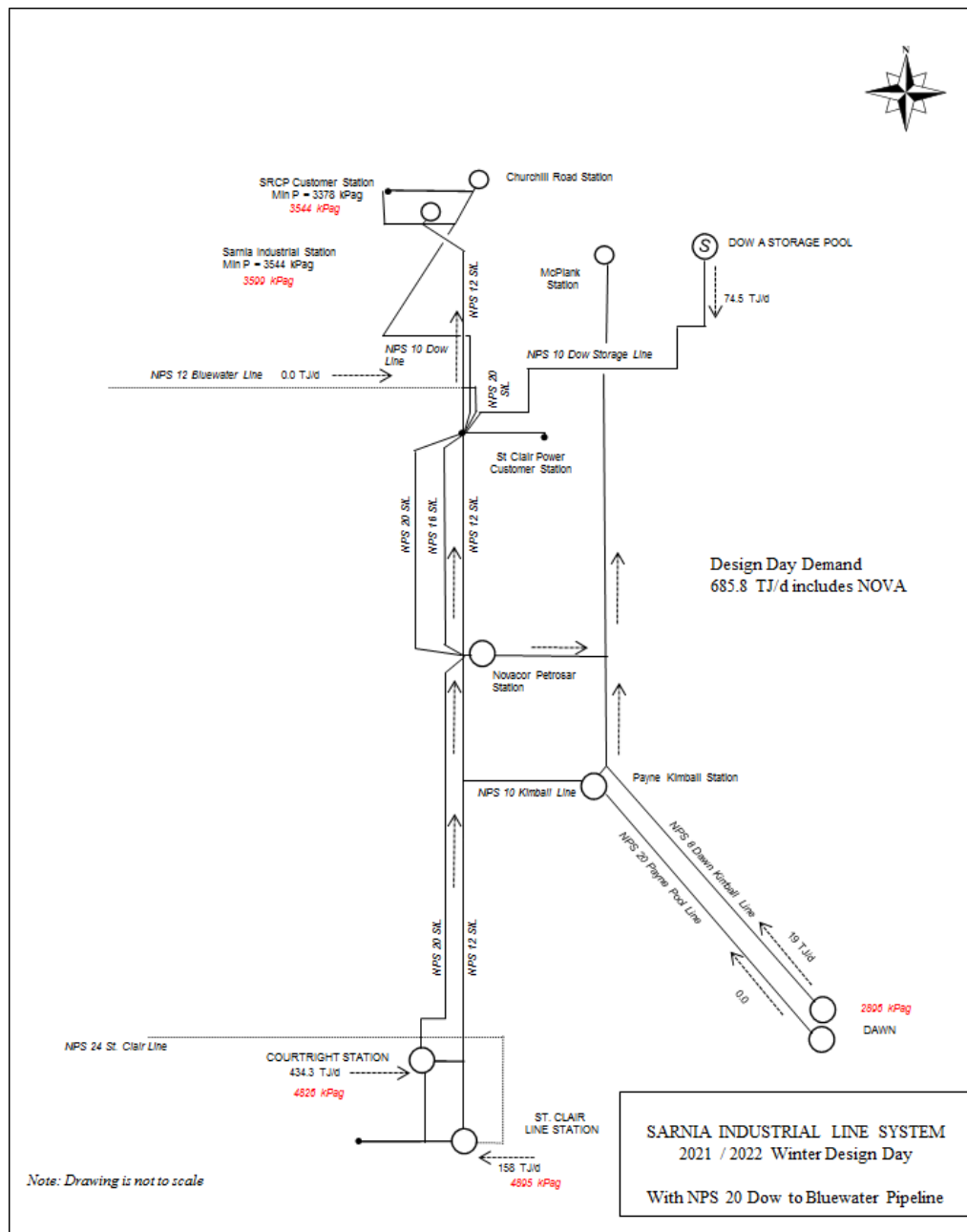
29. IRP options will be considered as alternatives to traditional natural gas infrastructure projects in the future to offset growing demand. Enbridge Gas intends to make an application to the OEB seeking approval of any IRP proposals later this year.

iv) Proposed Project

30. In order to provide reliable, secure and economic solutions to serve the growing Design Day demand of the Sarnia market, Enbridge Gas is proposing to install a 1.2 km, 6620 kPag MOP, NPS 20 pipeline from the Dow Valve Site to the Bluewater Interconnect including tie-in's to the existing SIL system. The Project also includes modifications to the existing Novacor Corunna Station to increase delivery capacity.

31. The proposed NPS 20 pipeline increases system capacity sufficiently to serve NOVA, ensures enhanced system reliability by looping the smaller diameter pipelines in this area, enables enhanced in-line inspection capability by reducing pipeline velocities in this section of pipeline for appropriate speed control and will help meet the capacity requirements of forecasted firm growth beyond 2021 as discussed in further detail at Exhibit B, Tab 1, Schedule 2.
32. The proposed Project should be approved as it:
  - is the lowest cost alternative;
  - is the shortest pipeline route with the least resulting environmental impact;
  - is the most efficient project, eliminating the need to build two separate facilities;
  - provides enhanced system reliability; and
  - enables enhanced integrity inspections on the SIL system.
33. A schematic of the SIL system reflecting 2021/2022 winter Design Day with the proposed Project and NOVA demand is provided at Figure 3-2 below and at Exhibit C, Tab 3, Schedule 2.

**Figure 3-2**  
**SIL System 2021/2022 Winter Design Day Schematic Including the NPS 20 Dow to**  
**Bluewater Pipeline**



## PROJECT COSTS AND ECONOMICS

1. The purpose of this section of evidence is to provide an overview of the estimated costs of the Project and the economic analysis that was completed to demonstrate that the Project is economically feasible and in the public interest. The total estimated cost of the Project is \$30.8 million (total pipeline costs are estimated to be \$23.4 million and total station costs are estimated to be \$7.3 million) as shown at Exhibit C, Tab 4, Schedule 1, including: (i) materials and equipment; (ii) construction and labour; (iii) environmental protection measures; (iv) land acquisitions; (v) contingencies; (vi) indirect overheads; (vii) ancillary facilities; and (viii) IDC. Excluding indirect overheads, the total estimated incremental cost of the Project is \$27.8 million.
2. This section of evidence is organized as follows:
  - i) Hourly Allocation Factor
  - ii) Project Economics
  - iii) Project Specific Discounted Cash Flow Analysis
- i) Hourly Allocation Factor
3. Consistent with Enbridge Gas's OEB-approved Leamington Expansion Project and Chatham-Kent Rural Project,<sup>1</sup> Enbridge Gas assessed an Hourly Allocation Factor to be applied to the capital costs of each new large volume customer served by the proposed Project in the future. Enbridge Gas proposes to use this method to facilitate cost recovery of the capacity associated with future growth.
4. As detailed in Figure 4-1 below, the proposed Hourly Allocation Factor of \$244 per m<sup>3</sup>/hour will be allocated to the individual economics of every large volume customer receiving incremental capacity from the Project based on their peak hour

<sup>1</sup> EB-2016-0013, Leamington Expansion Project – Updated Application, April 6, 2016, pp. 2-3; EB-2018-0188, Chatham-Kent Rural Project – Updated Application, March 14, 2019, pp. 15-16.

need. This allocated capital cost is in addition to the costs of any required customer specific facilities. Enbridge Gas will cease to apply the Hourly Allocation Factor once the incremental capacity of 13,021 m<sup>3</sup>/hour (or 12.2 TJ/d as discussed at Exhibit B, Tab 1, Schedule 2, Section iv)) has been fully contracted.

**Figure 4-1**

**Hourly Allocation Factor Determination**

Line	Item	Amount
1	Cost of Future Growth Capacity	\$ 3,180,000
2	Capacity (m <sup>3</sup> /hour)	13,021
3	Hourly Allocation Factor (\$/m <sup>3</sup> /hour)	<u>\$ 244</u>

ii) Project Economics

5. Consistent with Union's 2014 Sarnia Expansion Pipeline Project application (EB-2014-0333), Enbridge Gas has employed an economic feasibility test to assess the economics of the Project in accordance with E.B.O. 188. Enbridge Gas has concluded that the Project is in the public interest, and the tests set out in E.B.O. 188 are appropriate for purposes of evaluating the Project.
6. To provide the OEB with additional information, a standalone Discounted Cash Flow ("DCF") analysis consistent with E.B.O. 188 has been completed. All incremental cash inflows and outflows resulting from the Project are identified. The NPV of the cash inflows is divided by the NPV of the cash outflows to arrive at a PI. If the NPV of the cash inflows is equal to or greater than the NPV of the cash outflows, PI is equal to or greater than 1.0 and the Project is considered economic based on current approved rates.
7. The OEB has found that new distribution facilities are in the public interest if no undue burden is placed on existing customers. When the estimated costs and

revenues for the Project are included in the Enbridge Gas 2020 new business portfolio, the resulting PI is estimated to be 1.1. Similarly, when the estimated costs and revenues for the Project are included in the Enbridge Gas rolling portfolio, as at September 2019, the resulting PI is estimated to be 1.2.

iii) Project Specific Discounted Cash Flow Analysis

8. The DCF analysis for the Project can be found at Exhibit C, Tab 4, Schedule 2. This schedule indicates that the Project has a NPV of \$2.5 million and a PI of 1.1. A summary of the key input parameters, values and assumptions used in the DCF analysis can be found at Exhibit C, Tab 4, Schedule 3. In order to provide a comprehensive analysis, costs and revenue associated with the Nova Corunna Station have been included.
9. Incremental cash inflows are estimated based on the current approved T2 Storage and Transportation Carriage demand rate. The calculation for the incremental Project revenue can be found at Exhibit C, Tab 4, Schedule 4.
10. The incremental transmission revenue is the portion of the customers' rate that is attributed to transmission facilities. The transmission margin rate has been used in determining the revenue attributed to future growth. The remaining portion of the customers' rate would be used to support the customers' distribution facilities. This segmented approach is consistent with previous filings and E.B.O. 188. This approach ensures that customer revenue is not counted more than once when facilities are built in different time periods.
11. The calculation for NOVA's incremental revenue includes transmission and distribution margin since the costs of NOVA's distribution facilities are included in the analysis. Revenue attributed to future growth includes only transmission margin since no cost for future distribution facilities has been included.

12. Enbridge Gas submits that the Project is economically feasible and in the public interest.



## ENGINEERING AND CONSTRUCTION

1. The purpose of this section of evidence is to provide an overview of the proposed Project facilities including related schedule, design and construction methods.
2. This section of evidence is organized as follows:
  - i) Proposed Facilities
  - ii) Project Schedule
  - iii) Design and Pipeline Specifications
  - iv) Pipeline Construction

### i) Proposed Facilities

3. Enbridge Gas proposes to construct the NPS 20 Dow to Bluewater pipeline, extending north approximately 1.2 kilometers from the Dow Valve Site to the Bluewater Interconnect at a new LaSalle Pipeline Valve Site just south of the existing Bluewater Interconnect Station.
4. Enbridge Gas will construct a new LaSalle Pipeline Valve Site in the area of the Bluewater Interconnect, where it will complete tie-in's to the existing Enbridge Gas NPS 10 Dow pipeline and NPS 12 SIL. A provision to tie-in to the Shell Take-Off Valve Site will also be installed.
5. In addition, Enbridge Gas will also make modifications to the following stations:
  - Novacor Corunna Station; and
  - Dow Valve Site.

### ii) Project Schedule

6. The Project schedule, including construction, beginning in the spring of 2021, is provided at Exhibit C, Tab 5, Schedule 1. The construction schedule takes

advantage of drier summer months thereby minimizing the impact of construction on agricultural lands and other features. The planned Project in-service date is fall 2021.

iii) Design and Pipeline Specifications

7. The proposed pipeline, associated valve site and station facilities will be designed and constructed in accordance with Ontario Regulations 210/01 under the Technical Standards and Safety Act 2000, Oil and Gas Pipeline Systems; the regulation governing the installation of pipelines in the Province of Ontario.
8. The proposed pipeline, associated valve site and station facilities will meet or exceed the design and construction requirements of the applicable current edition of CSA Z662 Standard for Oil and Gas Pipeline Systems in accordance with the Code Adoption document under Ontario Regulations.
9. The proposed pipeline is within a Class 2 location and will be designed to meet or exceed the minimum requirements for Class 2 locations.
10. The proposed pipeline has an outside diameter of 508 mm, a minimum wall thickness of 9.5 mm and minimum specified yield strength of 359 MPa. The pipe will be manufactured to the applicable current edition of the CSA Z245.1 of Steel Line Pipe Standard for Pipeline Systems and Materials or API 5L of the American Petroleum Institute Specification for Steel Pipe. The proposed pipeline will have a Design Pressure of 6620 kPa and a MOP of 6620 kPa. Figure 5-1 summarizes the minimum design and pipe parameters.

**Figure 5-1**  
**Minimum Design and Pipe Parameters**

NPS 20 Dow to Bluewater Pipeline	
Maximum Operating Pressure	6620 kPa
Mainline Test Medium	Water
Mainline Minimum Test Pressure	8275 kPa (MOP X 1.25)
Grade	359 MPa
Wall Thickness	9.5 mm
% SMYS	49.3%
Category	CAT I

11. The minimum installation depth of cover is 0.6 metres from the top of the pipe to final grade and will be in accordance with Section 4.11 Cover and Clearance in Table 4.9 of the applicable current edition of CSA Z662. Additional depth of cover greater than the minimum will be provided to accommodate existing or planned underground facilities and where ground conditions allow greater depth.

iv) Pipeline Construction

12. Exhibit C, Tab 5, Schedule 2, describes the General Techniques and Methods of Construction that will be employed in the construction of the Project. This schedule details the following activities: surveying, clearing and grading, stringing of new pipe, trenching, welding, backfilling, tile repair, tie-ins, cleaning, testing and restoration.
13. No blasting is anticipated along the proposed pipeline route.
14. The proposed pipeline will be hydrostatically tested in compliance with Clause 8 of the applicable current edition of CSA Z662 and Ontario Regulation requirements. Sources for hydrostatic test water have not yet been determined. Any water taken from the environment for hydrostatic testing will be reviewed as part of the Permit to Take Water issued by the Ministry of Environment, Conservation and Parks

("MECP") and will comply with all conditions of the permit. After the test water is removed, the pipeline will be dried. An inspection tool will then be run to check for dents or ovality. Cathodic protection will be applied to the completed pipeline.

15. Enbridge Gas anticipates no issues with obtaining material for the Project within the proposed timelines. Pipe will need to be ordered in 2020 to meet the in-service date of fall 2021. Enbridge Gas also anticipates no issues in obtaining a pipeline contractor to complete construction.
16. Enbridge Gas will construct the proposed pipeline in compliance with: (i) engineering design; (ii) current construction procedures and specifications; (iii) environmental mitigation identified in the Project environmental report; (iv) permit conditions; and (v) commitments to regulators and landowners. Enbridge Gas annually updates and refines its construction procedures and specifications and complies with environmental mitigation recommended to minimize potential impacts to the environment and lands. Enbridge Gas has contacted landowners along the route prior to construction to obtain any site specific requirements such as access points. This information is included in the construction contract so that the pipeline contractor is contractually obligated to fulfill all commitments made to the landowner.
17. Enbridge Gas anticipates that a single agricultural property will be impacted by the Project due to temporary land use. While Enbridge Gas does not anticipate that any pre-construction tiling is necessary for this property, further investigation will be conducted in order to confirm that this is the case. In the unlikely instance that pre-construction tiling is required, Enbridge Gas will complete such work in accordance with past practice and with the assistance of a third-party drainage consultant.

18. All necessary permits, approvals and authorizations will be obtained by Enbridge Gas at the earliest appropriate opportunity. Enbridge Gas expects to receive all required approvals prior to commencing construction of the Project. Enbridge Gas will assign inspection staff to ensure that contractual obligations between Enbridge Gas and the pipeline contractor, provincial ministries, municipal government and landowners are complied with.

## ENVIRONMENTAL MATTERS

1. The purpose of this section of evidence is to provide an overview of the Sarnia Industrial Line Reinforcement Project: Dow to Bluewater Environmental Report completed for the Project and to provide specific details on certain aspects of the ER.
2. This section of evidence is organized as follows:
  - i) Environmental Report
  - ii) Species at Risk
  - iii) Archaeology
  - iv) Tree Removal
  - v) Wetlands
  - vi) Watercourses
  - vii) Social-Economic Features
  - viii) Construction
- i) Environmental Report
3. Enbridge Gas retained Stantec Consulting Ltd. ("Stantec") to prepare the ER for the Project in 2019, identifying the environmental and socio-economic features along the route of the proposed pipeline. The ER was prepared to meet the intent of the OEB's *"Environmental Guidelines for the Location, Construction and Operation of Hydrocarbon Pipelines in Ontario [7<sup>th</sup> Edition, 2016]*. The ER prepared for the Project is not included in the electronic filing. Rather, two hard copies and USB drives will be sent by courier to the OEB and an electronic version of the ER will be available on the Enbridge Gas website. Enbridge Gas has included a cover sheet for the ER within its Application at Exhibit C, Tab 6, Schedule 1.

4. The ER was forwarded to the Ontario Pipeline Coordinating Committee (“OPCC”) on August 15, 2019. A summary of the OPCC comments along with Enbridge Gas’s responses will be filed, upon completion, at Exhibit C, Tab 6, Schedule 2. Copies of the ER were also sent to the St. Clair Region Conservation Authority, affected municipalities and local Indigenous communities.
5. To inform and solicit input from landowners and the general public with respect to the Project, a public Notice of Commencement (“Notice”) was published on May 14, 2019 in the Sarnia Observer. The Notice described the project, provided a map of the proposed route and listed project contact information. Notice letters and e-mails were sent to OPCC members, relevant agencies, directly impacted and adjacent landowners and local Indigenous communities. A Project webpage was also developed on the Enbridge Gas website.<sup>1</sup> The webpage contains information about the Project, the regulatory review process, and Enbridge Gas’s commitment to the environment.
6. Stantec and Enbridge Gas have considered comments provided by agencies, landowners and the general public in the preparation of the ER, general design and construction of the Project.
7. The ER includes an assessment of the preferred pipeline route, describes the natural and socio-economic setting of the Project area and assesses the residual impacts of the Project on various environmental and socio-economic components. Various mitigation measures are recommended in the ER to minimize impacts to the natural and socio-economic environment. Species at risk is one of the natural environmental features assessed in the ER. Noise, safety and general construction inconveniences are some of the socio-economic considerations noted in the ER.

<sup>1</sup> [www.uniongas.com/projects/sarnia-industrial-reinforcement](http://www.uniongas.com/projects/sarnia-industrial-reinforcement)

8. The results of the ER indicate that the location of the Project is environmentally acceptable. By following its standard construction practices and adhering to the mitigation measures proposed in the ER, construction of the Project will have negligible environmental or cumulative impacts. Enbridge Gas commits to adopting and implementing the mitigation measures noted in the ER.

ii) Species at Risk

9. A number of species at risk are known to, or potentially, inhabit the lands in the vicinity of the Project. Enbridge Gas has and will continue to work closely with the MECP to develop appropriate mitigation measures to protect species at risk and obtain all required permits and approvals.

iii) Archaeology

10. An archaeological assessment will be completed by a licensed archaeological firm along the pipeline route, as recommended in the ER. Enbridge Gas proposes to complete the majority of the archaeological assessment during the 2019/2020 field seasons.

iv) Tree Removal

11. In accordance with Enbridge Gas's tree replacement program, trees removed from the proposed easement and temporary working space will be replaced with at least twice the woodlot area cleared for construction. Coniferous and deciduous seedlings native to Ontario are planted within the region of the Project and maintained up to a period of five years or until the trees reach a free-to-grow status defined by a height of one meter and are free of adjacent brush competition. Replanting must be done in accordance with Enbridge Gas's policies regarding tree planting so that the easement is left open for access to the pipeline and aerial patrol. Landowners are given first right of refusal for tree planting.



v) Wetlands

12. Based on a review of available information no evaluated wetlands are located with the Project area. Additional environmental field surveys will be completed in 2019/2020 to determine if any unregulated wetlands are located within the Project area.

vi) Watercourses

13. The Project does not include any watercourse crossings. The nearest watercourse is greater than 30 metres from the Project. Enbridge Gas will develop an appropriate sediment and erosion control plan and mitigation to reduce potential negative impacts to watercourses within the vicinity of the Project.

vii) Social-Economic Features

14. The Project bisects two businesses, and two railway spur lines associated with one of the businesses. Enbridge Gas has and will continue to develop appropriate mitigation measures to reduce potential negative impacts to these social-economic features.

viii) Construction

15. Enbridge Gas will implement an environmental inspection program during construction of the Project. An inspector trained in environmental issues will monitor construction activities and ensure that all activities comply with the mitigation measures recommended in the ER.
16. Enbridge Gas will minimize socio-economic impacts resulting from construction of the Project through procedures such as: dust control; safety fencing; and advanced notice to landowners and the general public concerning construction activities. Enbridge Gas will also assign resources to the Project as appropriate to

address issues or complaints raised by landowners or the general public (see Exhibit B, Tab 1, Schedule 7 for additional detail).

## LAND MATTERS

1. The purpose of this section of evidence is to provide an overview of land rights required for the Project, Enbridge Gas's forms of easement and of temporary land use and the status of outreach and negotiations with affected landowners.
2. This section of evidence is organized as follows:
  - i) Land Rights
  - ii) Easement Requirements
  - iii) Landowner Issues
  - iv) Negotiation of Land Rights
  - v) Construction Monitoring and Follow-up

### i) Land Rights

3. Drawings showing the location of Project facilities are provided at Exhibit C, Tab 7, Schedule 1. The names and addresses of landowners have been removed from this schedule to safeguard landowner privacy. The proposed pipeline is roughly 1.2 kilometers in length requiring approximately: 1.72 hectares (4.24 acres) of permanent easement; 3.79 hectares (9.36 acres) of temporary easement; and 0.58 hectares (1.43 acres) of fee simple lands.
4. Enbridge Gas has initiated negotiations with directly impacted landowners from whom either fee simple, permanent or temporary land rights are required. Enbridge Gas will have all land rights in place prior to construction.

### ii) Easement Requirements

5. The Project will be constructed on private easements. Enbridge Gas's Form of Easement and Form of Temporary Land Use Agreement can be found at Exhibit C, Tab 7, Schedule 3 and Exhibit C, Tab 7, Schedule 4 respectively. As part of this

Application, pursuant to Section 97 of the Act, Enbridge Gas is requesting approval of the Form of Easement and Form of Temporary Land Use Agreement.

6. Enbridge Gas's Form of Easement covers the installation, operation, and maintenance of one pipeline.
7. Enbridge Gas's Form of Temporary Land Use Agreement is in a form consistent with those provided to the OEB and used by Enbridge Gas in the past on similar projects. These agreements typically apply for a period of two years, beginning in the year of construction. This allows Enbridge Gas an opportunity to return in the year following construction to perform further clean-up work as required.
8. Enbridge Gas will also require fee simple land at the Bluewater Interconnect. The location of the required fee simple land is shown at Exhibit C, Tab 7, Schedule 1.
9. A summary of fee simple lands, permanent easement area and TLU area required for the Project are provided at Exhibit C, Tab 7, Schedule 2. The names and addresses on this schedule have been redacted to safeguard landowner privacy.

iii) Landowner Issues

10. Enbridge Gas will implement a comprehensive program to provide landowners, tenants and other interested parties with information regarding the Project. Information was previously distributed through Notice in the Sarnia Observer on May 14, 2019 and subsequent correspondence sent to OPCC members, relevant agencies, directly impacted and adjacent landowners, municipalities and local Indigenous communities, as discussed at Exhibit B, Tab 1, Schedule 6.

iv) Negotiation of Land Rights

11. Enbridge Gas commenced easement negotiations with private landowners in 2019. Preliminary discussions have not identified any strong objection to the Project. Enbridge Gas will have all land rights in place prior to construction.

v) Construction Monitoring and Follow-up

12. Enbridge Gas has a comprehensive and proven landowner relations program in place. The key elements of this program include a complaint tracking system and assignment of resources to ensure that commitments made to landowners are fulfilled, to address questions and concerns of landowners and to act as a liaison between landowners, the pipeline contractor and Enbridge Gas Project personnel.

### INDIGENOUS<sup>1</sup> CONSULTATION

1. The purpose of this section of evidence is to provide an overview of consultations with Indigenous groups potentially affected by the Project.
2. This section of evidence is organized as follows:
  - i) Aboriginal Engagement Program Objectives
  - ii) Overview of Aboriginal Engagement Program Activities
  - iii) Ongoing Aboriginal Engagement Program Activities
3. Enbridge Gas is committed to creating processes that support meaningful engagement with potentially affected Indigenous groups (First Nations and Métis). Enbridge Gas works to: build an understanding of project related interests; ensure regulatory requirements are met; mitigate or avoid project-related impacts on Aboriginal interests including rights; and provide mutually beneficial opportunities where possible.
4. Pursuant to the OEB's Environmental Guidelines, Enbridge Gas provided the MOENDM with a project description for the Project on July 5, 2018. This Project description is set out at Exhibit B, Tab 1, Schedule 8, Attachment 1.
5. Subsequently, on September 10, 2018, Enbridge Gas received a letter from the MOENDM indicating that the MOENDM had delegated the procedural aspects of consultation to Enbridge Gas for the Project (the "Delegation Letter"). The Delegation Letter identified five Indigenous communities to be consulted with. A copy of the Delegation Letter is provided at Exhibit B, Tab 1, Schedule 8, Attachment 2.

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<sup>1</sup> Enbridge Gas has used the terms "Aboriginal" and "Indigenous" interchangeably in its application. "Indigenous" has the meaning assigned by the definition "aboriginal peoples of Canada" in subsection 35(2) of the *Constitution Act, 1982*

6. Enbridge Gas will provide this Exhibit of evidence along with a summary of the Indigenous Consultation Report at Exhibit C, Tab 8, Schedule 1, and the Indigenous Consultation Report: Log and Correspondence (and associated attachments) at Exhibit C, Tab 8, Schedule 2 to the MOENDM on October 7, 2019, and will request that the MOENDM determine whether or not the procedural aspects of the Duty to Consult for the Project have been sufficient. Collectively, the aforementioned Exhibits and Schedules form the Indigenous Consultation Report for the Project. Enbridge Gas will update this Application (specifically, Exhibit B, Tab 1, Schedule 8, Attachment 3) when a sufficiency letter is received from the MOENDM. Information gathered during the course of Enbridge Gas's engagement with Indigenous groups was incorporated into the Stage 1 Archaeological Assessment and Environmental Report set out in Exhibit C, Tab 6, Schedule 1, and will be incorporated into the Stage 2 Archaeological Assessment when completed. This work was completed under the auspices of the Environmental Guidelines which include duty to consult requirements for hydrocarbon facility proponents.

i) Aboriginal Engagement Program Objectives

7. The design of the Aboriginal engagement program was based on adherence to the OEB's Environmental Guidelines and Enbridge Gas's Indigenous Peoples Policy and principles as follows:
  - Enbridge Inc. has instituted a company-wide Indigenous Peoples Policy ("Policy") (set out at Exhibit B, Tab 1, Schedule 8, Attachment 4). The Policy lays out key principles for establishing relationships with Indigenous groups which includes, among other things, respect for traditional ways and land, heritage sites, the environment and traditional knowledge.
  - Enbridge Gas has established meaningful relationships, has provided timely exchanges of information, understands and addresses Indigenous Project-

specific concerns, and ensures ongoing dialogue about its projects, their potential implications and benefits.

- Enbridge Gas aligns its interests with those of Indigenous communities through meaningful, direct Indigenous economic activity in projects corresponding to community capacity and project needs, where possible.
- The Indigenous engagement program for the Project recognizes the rights of Indigenous groups and assists Enbridge Gas in engaging in meaningful dialogue with potentially affected Indigenous groups about the Project. It also assists Enbridge Gas in meeting the procedural aspects of consultation that may be required by the Crown and the Environmental Guidelines.

ii) Overview of Aboriginal Engagement Program Activities

8. Enbridge Gas conducts its Indigenous consultation generally through phone calls, in-person meetings, mail-outs, open houses and email communications. During these engagement activities, Enbridge Gas representatives provide an overview of the Project, respond to questions and concerns, and address any interests or concerns expressed by Indigenous communities to appropriately mitigate any Project-related impacts. In order to accurately document Indigenous engagement activities and ensure follow-up, applicable supporting documents are tracked using a database.

iii) Ongoing Aboriginal Engagement Program Activities

9. Enbridge Gas will continue to actively engage all identified Indigenous groups in meaningful ongoing dialogue concerning the Project and will endeavor to meet with each Indigenous group, provided they are willing, for the purpose of exchanging information regarding the Project and to respond to inquiries in a timely manner. Enbridge Gas will hear and address concerns as is feasible and will seek information on the exercise of, and potential impacts to, Aboriginal and Treaty rights, traditional use in the Project area and how any potential Project-related



impacts can be mitigated.

10. The information presented in the aforementioned Exhibits and Schedules reflects Enbridge Gas's Indigenous engagement activities for the Project up to and including August 28, 2019. However, Enbridge Gas will continue to engage during the regulatory process and throughout the life of the Project.



July 5, 2018

Ms. Shereen Smithanik  
Senior Policy Advisor  
Indigenous Energy Policy  
Ministry of Energy  
77 Grenville Street, 6<sup>th</sup> Floor  
Toronto, ON M7A 2C1

Dear Ms. Smithanik:

**Re: Sarnia Expansion Project**

Enclosed please find Union's Report to the Ministry of Energy to determine the Indigenous Consultation required for the above noted project. I have also enclosed a copy of the proposed pipeline options and the Crown Land map for your reference. In the event that you have any questions on the above or would like to discuss in more detail, please do not hesitate to contact me.

Yours truly,

*Ken McCorkle*

Ken McCorkle  
Manager, Indigenous Affairs  
Union Gas Limited  
50 Keil Drive North  
Chatham, ON N7M 5M1  
Phone: 519-436-4600 ext. 5002243  
Email: kmccorkle@uniongas.com

## **Union Gas Limited – Sarnia Expansion Project**

### **Summary for Ministry of Energy**

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#### **1. Introduction**

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This Summary Report has been prepared to provide the Ministry of Energy ("MOE") with an overview of the Sarnia Expansion Project ("Project"), to support the preparation of a contact list of indigenous communities that may have an interest in the Project.

##### **1.1 Project Overview**

Union Gas Limited ("Union Gas") is proposing to expand the capacity of the existing natural gas system in south Sarnia. The existing system expansion is being proposed to increase the available natural gas supply in the south Sarnia area for current and future customers. Due to the complexity of the existing infrastructure in the Sarnia area a proposed route has not yet been developed beyond the identification of a proposed start point and three potential end points.

The Project will consist of one or a combination of a pipeline replacement or new pipeline installation between the DOW Valve Site (Start Point) and the Churchill Road Station (End Point). Currently four potential pipeline routes have been identified (Figure 1 and 2) with the preferred route to be identified at a later date following additional design and planning processes. The proposed Project study area includes portions of the City of Sarnia, Aamjiwnaang First Nation, and the Township of St.Clair. A map indicating the Project study area is shown in Figure 1 and 2 (attached).

The following co-ordinates are the approximate proposed locations of the take off and end point for the new pipeline:

<b>Proposed Locations</b>	<b>Latitude</b>	<b>Longitude</b>
<b>Start Point</b> <b>DOW Valve Site</b>	42.900854	-82.426075
<b>End Point 2</b> <b>Churchill Road Station</b>	42.932876	-82.427549

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#### **2. Regulatory Requirements and Approvals**

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Ontario Energy Board ("OEB") review and approval is required before this project can proceed. As part of that application, an Environmental Review (ER) will be conducted in accordance with the OEB Environmental Guidelines for the Location, Construction and Operation of Hydrocarbon Pipelines and Facilities in Ontario 7<sup>th</sup> Edition (2016). The ER for this Project is anticipated to be completed and submitted to the OEB as early as December 2018, and the proposed project to be in service by November 2020. Other permits and authorizations for the project will be determined and may be necessary at the Federal, Provincial and Municipal levels.

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### 3. Environmental Planning Process

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The environmental planning process for the Project will be initiated in 2018 by Union Gas, with support provided throughout the process by consultant archaeologists, cultural heritage specialists, and environmental professionals. The following provides a general overview of the environmental planning process for the Project:

- **Complete an Environmental Report (ER)**
  - Describe the proposed work necessary for the Project;
  - Describe the procedures that will be followed during construction of the facilities;
  - Identify potential environmental impacts and recommend measures to minimize those impacts; and
  - Describe the public consultation opportunities.
- **Complete all necessary studies and assessments**
  - An Archaeological Assessment will be conducted by a licensed archaeologist in accordance with the Ministry of Tourism, Culture and Sport (MTCS) guidelines to identify known or potential archaeological resources within the Project area and will develop an appropriate mitigation plan if required.
  - A heritage specialist will review the running line for potential cultural heritage landscapes and built heritage resources and will develop an appropriate mitigation plan if required.
  - A qualified biologist will review the running line for potential species at risk and determine if any species will be impacted by construction activities and will develop an appropriate mitigation plan if required.
- **Obtain all necessary environmental permits and approvals**
  - Union Gas will work with all relevant governing agencies (i.e. Environment Canada (EC), Ministry of Natural Resources and Forestry (MNRF), St. Clair Region Conservation Authority (SCRC), Fisheries and Oceans Canada (DFO), Aamjiwaang First Nation) to obtain any permits and/or approvals should it be necessary.

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### 4. Consultation

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Consultation is an important part of the environmental planning process and may include discussions with the relevant federal and provincial agencies, municipalities, interested and potentially affected landowners, and interest groups, as well as First Nations and Metis Nations as identified by the MOE.

Union Gas will contact with the City of Sarnia, EC, MNRF, DFO and SCRC to discuss and review the project. Union Gas will also contact landowners along the proposed route.

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### 5. Project Activities

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The pipeline will be installed using Unions standard construction practices which include grading the site, digging the trench, installing the welded pipeline in the trench, testing the pipeline, and restoring the area to its original condition.

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## **6. Summary and Conclusion**

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The purpose of this report is to provide MOE with preliminary information regarding the Project and acquire a list of Indigenous communities that may be interested in providing feedback during the project planning process. Field work and data collection will be undertaken to determine the potential effects of this Project during the construction, and operation phases. Mitigation measures to manage these potential effects will be identified and will include proposed monitoring and contingency plans which will be implemented to ensure effects are minimized.

Ministry of Energy, Northern  
Development and Mines

77 Grenville Street  
6<sup>th</sup> Floor  
Toronto ON M7A 2C1

Tel: (416) 325-6544

Ministère de l'Énergie, du  
Développement du Nord et des  
Mines

77, rue Grenville  
6<sup>e</sup> étage  
Toronto ON M7A 2C1

Tél: (416) 325-6544



## Indigenous Energy Policy

VIA EMAIL

September 10, 2018

Ken McCorkle  
Manager, Indigenous Affairs  
Union Gas Limited  
P.O. Box 2001, 50 Keil Drive North  
Chatham ON N7M 5M1

### Re: Sarnia Expansion Project

Dear Mr. McCorkle,

Thank you for notifying the Ministry of Energy, Northern Development and Mines of Union Gas' intention to apply for Leave to Construct for the Sarnia Expansion Project through the Ontario Energy Board and requesting clarification on Duty to Consult requirements.

Based on the information provided by Union Gas, we understand that Union Gas is planning to expand the capacity of the existing natural gas system in south Sarnia and that, due to the complexity of existing infrastructure in the area, an intended route for the project has not yet been determined. Union Gas has identified four different potential routes in the study areas which includes portions of the City of Sarnia, Aamjiwnaang First Nation, and the Township of St. Clair.

The Ministry has reviewed the information provided relative to its current understanding of the interests of First Nation and Métis communities in the area and has determined that it may have the potential to affect First Nation and Métis communities who hold or claim Aboriginal or treaty rights protected under Section 35 of Canada's *Constitution Act* 1982.

As you are aware, the Government of Ontario (the Crown) has a constitutional duty to consult and accommodate First Nation and Métis communities when Crown project approvals may lead to an appreciable adverse impact on established or asserted Aboriginal or treaty rights. While the legal duty to consult falls on the Crown, the Crown may delegate the day-to-day, procedural

aspects of consultation to project proponents. The Ministry of the Energy, Northern Development and Mines is delegating the procedural aspects of consultation to Union Gas through this letter.

Based on the Crown's preliminary assessment of First Nation and Métis community rights and project impacts, the following Aboriginal communities should be consulted on the basis that they have or may have constitutionally protected Aboriginal or treaty rights that may be adversely affected by the Project:

Community	Mailing Address
Aamjiwnaang First Nation	978 Tashmoo Avenue Sarnia ON N7T 7H5
Bkejwanong (Walpole Island) First Nation	RR 3 Wallaceburg ON N8A 4K9
Chippewas of the Thames First Nation	320 Chippewa Road, RR #1 Muncey ON N0L 1Y0
Chippewas Of Kettle and Stony Point First Nation	6247 Indian Lane Kettle & Stony Point FN, ON N0N 1J0
Oneida Nation of the Thames	RR 2 Southwold ON N0L 2G0

This rights-based consultation list is based on information that is subject to change. First Nation and Métis communities may make new rights assertions at any time, and other developments (e.g. the discovery of Aboriginal archaeological sites) can occur that may require additional First Nation and/or Métis communities to be notified and/or consulted. If you become aware of potential rights impacts on communities that are not listed above at any stage of the consultation and approval process, kindly bring this to the attention of the Ministry with any supporting information regarding the claim. The Ministry will then assess whether it is necessary to include the community on the rights-based consultation list above.

It is the Ministry's expectation that Union Gas will communicate directly with the communities listed above, and that Union Gas will:

- Notify the communities that Union Gas has been delegated the procedural aspects of consultation by the Ministry of Energy, Northern Development and Mines on behalf of Ontario;
- Notify the communities that they may contact the Crown directly should they have any questions or concerns.
- Provide the communities with the following contact information should they wish to communicate directly with the Ministry:  
 Shereen Smithanik  
 Senior Advisor, Indigenous Energy Policy  
 Ministry of Energy, Northern Development and Mines  
 416-326-0513 / Shereen.Smithanik@ontario.ca

Please copy the Ministry contact when communicating the above information.

The Ministry relies on consultation conducted by proponents when it assesses the Crown's obligations and directs proponents during the regulatory process. Union Gas' responsibilities for procedural aspects of consultation include:

- Providing the First Nation and Métis communities with timely notice of the project for the purposes of considering possible impacts on their Aboriginal and/or treaty rights;
- In that notice, clearly stating that Union Gas has been delegated the procedural aspects of consultation by the Ministry of Energy, Northern Development and Mines on behalf of Ontario for the project.
- Providing First Nation and Métis communities with information about the project including anticipated impacts, and information on project timelines;
- Following up with First Nation and Métis communities to ensure they have received project information and that they are aware of the opportunity to express comments and concerns about the project;
- Explaining the regulatory and approval processes that apply to the project;
- Gathering information about how the project may adversely impact the relevant Aboriginal and/or treaty rights (for example, hunting, fishing) or sites of cultural significance (for example, burial grounds, archaeological sites);
- Considering the comments and concerns raised by First Nation and Métis communities and providing responses;
- Where appropriate, discussing accommodation, including mitigation or other measures to address potential adverse impacts on Aboriginal and/or treaty rights;
- Where appropriate, developing and discussing with the Crown appropriate accommodation measures;
- Taking reasonable steps to foster positive relationships with the First Nation and Métis communities;
- Bearing the reasonable costs associated with these procedural aspects of consultation; and
- Maintaining records of activities in relation to carrying out the delegated procedural aspects of consultation and providing information to the Ministry.

If you have any questions about this letter or require any additional information, please contact Shereen Smithanik at 416-326-0513 or [Shereen.Smithanik@ontario.ca](mailto:Shereen.Smithanik@ontario.ca).

Sincerely,



Morgan Owen  
A/Manager  
Indigenous Energy Policy

C: Ontario Pipeline Coordinating Committee (OPCC)



Ministry of Energy, Northern Development and Mines Letter:

Review and Confirmation of Adequacy of Enbridge Gas's Indigenous Consultation  
Report

TO BE FILED UPON RECEIPT

# Enbridge Inc. Indigenous Peoples Policy

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# Enbridge Indigenous Peoples Policy

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Enbridge recognizes the diversity of Indigenous Peoples who live where we work and operate. We understand that the history of Indigenous Peoples in both Canada and the United States has had destructive impacts on the social and economic wellbeing of Indigenous Peoples. Enbridge recognizes the importance of reconciliation between Indigenous communities and broader society. Positive relationships with Indigenous Peoples, based on mutual respect and focused on achieving common goals, will create constructive outcomes for Indigenous communities and for Enbridge.

Enbridge commits to pursuing sustainable relationships with Indigenous Nations and groups in proximity to where Enbridge conducts business. To achieve this, Enbridge will govern itself by the following principles:

- We recognize the legal and constitutional rights possessed by Indigenous Peoples in Canada and in the U.S., and the importance of the relationship between Indigenous Peoples and their traditional lands and resources. We commit to working with Indigenous communities in a manner that recognizes and respects those legal and constitutional rights and the traditional lands and resources to which they apply, and we commit to ensuring that our projects and operations are carried out in an environmentally responsible manner.
- We recognize the importance of the United Nations Declaration on the Rights of Indigenous Peoples (UNDRIP) within the context of existing Canadian and U.S. law and the commitments that governments in both countries have made to protecting the rights of Indigenous Peoples.

- We engage in forthright and sincere consultation with Indigenous Peoples about Enbridge's projects and operations through processes that seek to achieve early and meaningful engagement so their input can help define our projects that may occur on lands traditionally used by Indigenous Peoples.
- We commit to working with Indigenous Peoples to achieve benefits for them resulting from Enbridge's projects and operations, including opportunities in training and education, employment, procurement, business development, and community development.
- We foster understanding of the history and culture of Indigenous Peoples among Enbridge's employees and contractors, in order to create better relationships between Enbridge and Indigenous communities.

This commitment is a shared responsibility involving Enbridge and its affiliates, employees and contractors, and we will conduct business in a manner that reflects the above principles. Enbridge will provide ongoing leadership and resources to ensure the effective implementation of the above principles, including the development of implementation strategies and specific action plans.

Enbridge commits to periodically reviewing this policy to ensure it remains relevant and meets changing expectations.



**Township of St. Clair**

Chief Administrative Officer	519-867-2021
Administration / Clerks Dept.	519-867-2021
Finance & Treasury Dept.	519-867-2024
Water Dept.	519-867-2128
Engineering Dept.	519-867-2125
Public Works Dept.	519-867-2993
Fire Dept. Administration	519-481-0111

July 25, 2019

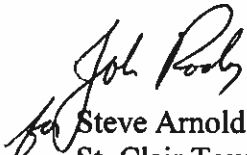
Steven Jelich  
Director, Southwest Region Operations  
Enbridge Gas Inc.  
109 Commissioners Road West  
London, ON N6J 1X7

To Whom It May Concern:

**Re: 2021 Sarnia Industrial Pipeline Reinforcement Project**

There is an increasing demand for natural gas by industries in our Community. The proposed 20 inch steel line, 1.2 kilometers in length, paralleling the existing Sarnia Industrial system is intended to meet the increased demand. This line is important for the attraction and retention of industries in our area and is supported by St. Clair Township Council

Yours truly,

  
Steve Arnold, Mayor  
St. Clair Township

Cc: Brian Lennie, Senior Advisor



**Legal Services / Clerk's Department**

789 Broadway Street, Box 3000  
Wyoming, ON N0N 1T0

Telephone: 519-845-0801

Toll-free: 1-866-324-6912

Fax: 519-845-0818

July 09, 2019

Enbridge Gas Inc.  
745 Richmond Street  
Chatham, ON N7M 5J5

**Attention: Brian Lennie, Senior Advisor, Municipal Affairs & Stakeholder Relations**

---

Brian Lennie:

**Re: Council Support 2021 Sarnia Industrial Pipeline Reinforcement Project**

At its regular meeting of July 03, 2019, Lambton County Council heard a presentation from Darryl Arnold, Manager, Operations London/Sarnia regarding Enbridge Gas proposed 2021 Sarnia Industrial Pipeline Reinforcement Project and Enbridge Gas 2020/2021 Corunna Compressor Station Project.

For your information, the following motion was passed:

***#5: Bradley/Broad: That County Council support the 2021 Sarnia Industrial Pipeline Reinforcement Project as presented.***

Carried.

Sincerely,

Stéphane Thiffeault  
County Clerk

cc: Monte McNaughton, MPP Lambton-Kent-Middlesex Riding  
Bev Shipley, MP Lambton-Kent-Middlesex Riding  
Bob Bailey, MPP Sarnia-Lambton Riding  
Marilyn Gladu, MP Sarnia-Lambton Riding

July 3, 2019

Steven Jelich  
Director, Southwest Region Operations  
Enbridge Gas Inc.  
109 Commissioners Rd W,  
London, ON N6A 4P1  
[steven.jelich@enbridge.com](mailto:steven.jelich@enbridge.com)

**RE: Application to the OEB for Sarnia Industrial Pipeline Reinforcement Project**

Dear Mr. Jelich:

On behalf of the Sarnia-Lambton Economic Partnership, I am writing to indicate our support for the Enbridge Gas Sarnia Industrial Pipeline Reinforcement Project.

The Sarnia-Lambton Economic Partnership is the economic development agency for the 11 municipalities that comprise Lambton County. Structured as a not-for-profit corporation, we are governed by a board of directors composed of community leaders and our core funding is from government. We provide business retention & expansion services, investment promotion, entrepreneurship and new resident attraction services in coordination with our area municipalities. Key to our role is the development and diversification of the Sarnia-Lambton Petrochemical and Refining Complex and Sarnia-Lambton Hybrid Chemistry Cluster.

The Sarnia Industrial Pipeline Reinforcement Project will provide multiple benefits for the Sarnia-Lambton area. First, it will meet an increased demand for natural gas amongst industrial customers in the area, providing increased access to affordable and reliable natural gas energy. Second, the project will provide additional economic benefits to the region through its ability to support anticipated large-scale investment in new industrial production facilities associated with the Petrochemical and Refining Complex. Third, these investments are essential for our community as we pursue further opportunities and job creation in the emerging Hybrid Chemistry Cluster that is critical to our region's economic future.

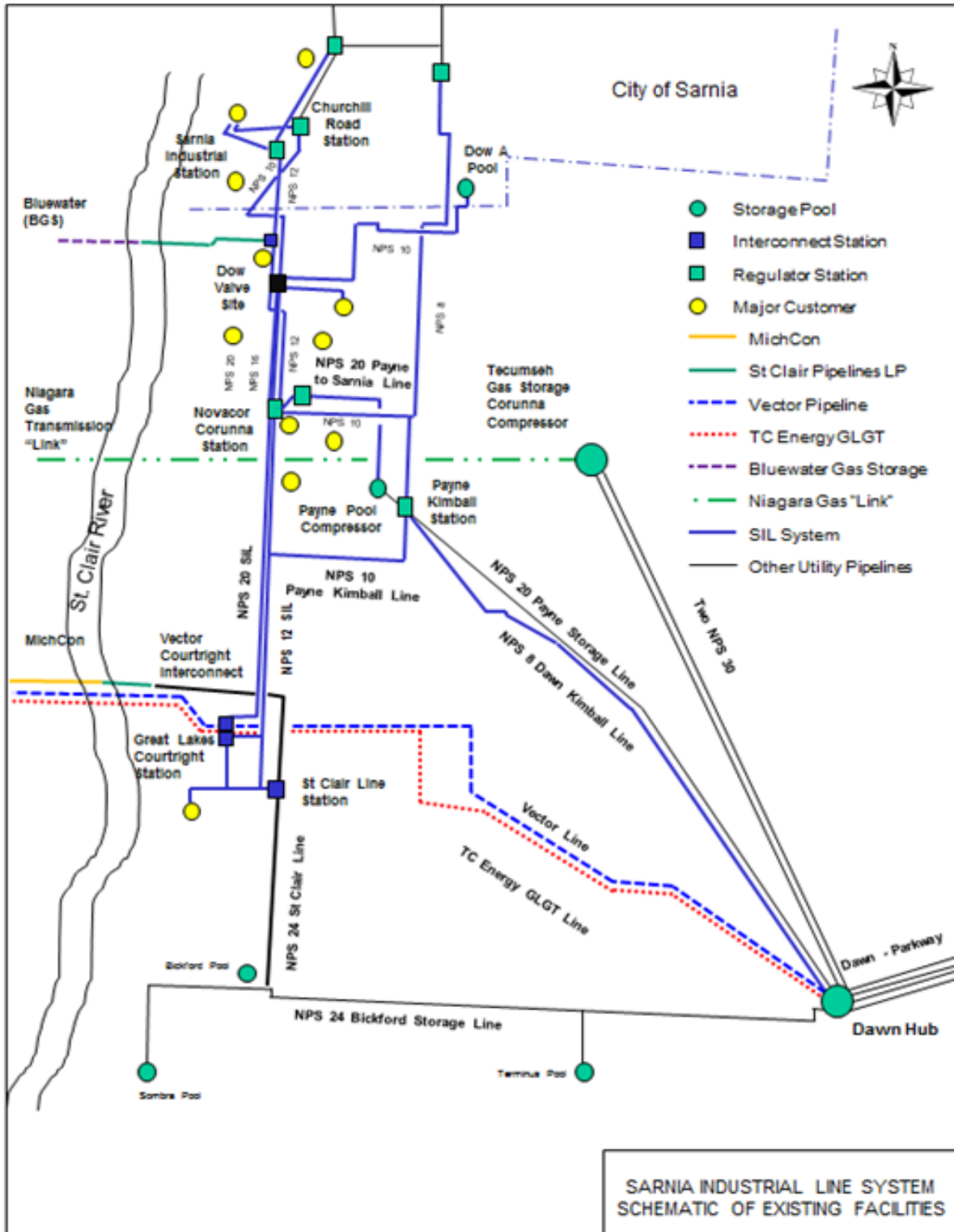
With this in mind, the Sarnia-Lambton Economic Partnership is strongly in support of projects such as this which are vital to strengthening opportunities for existing and future industries in our area.

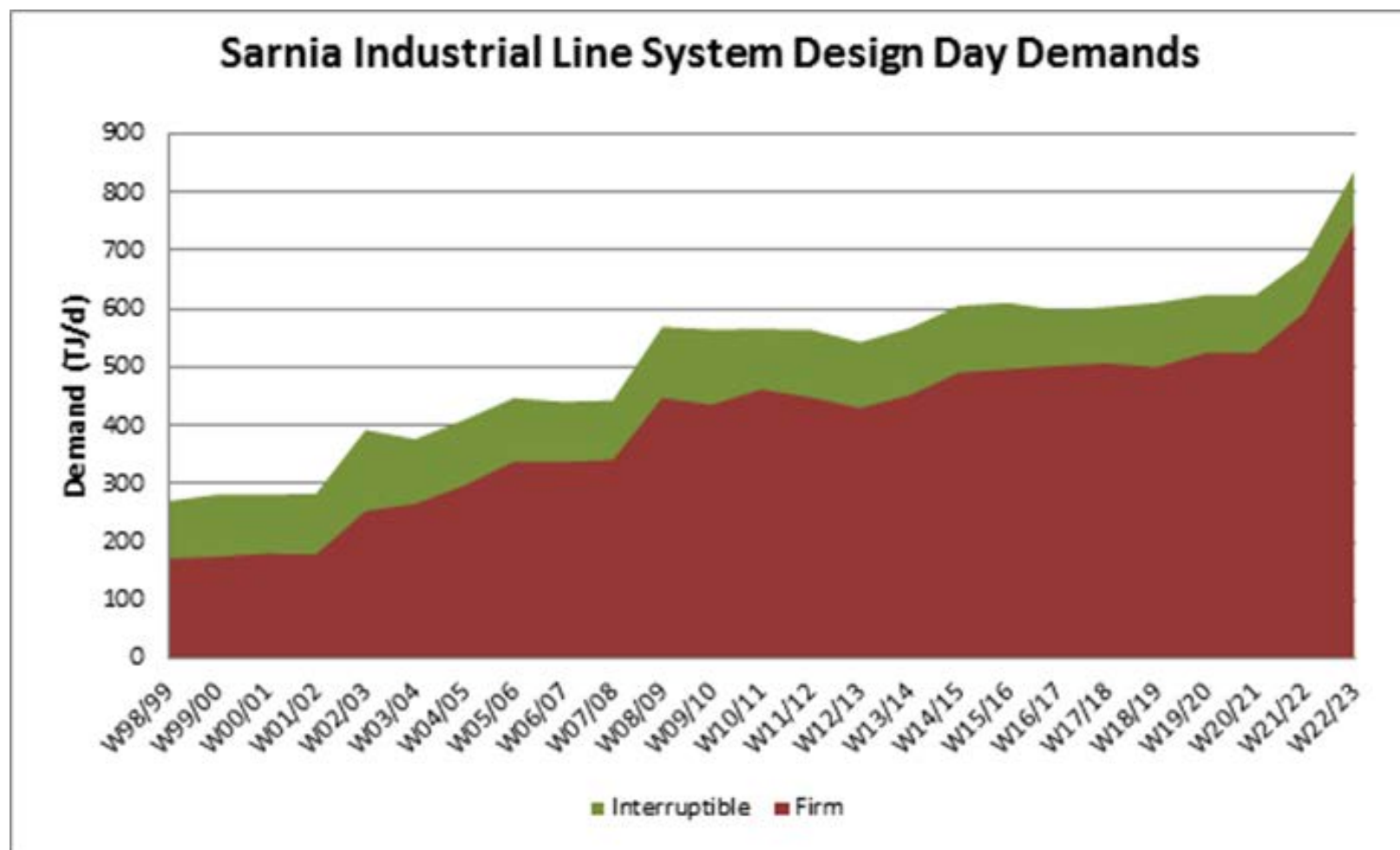
Sincerely,



Stephen Thompson  
Chief Executive Officer  
Sarnia-Lambton Economic Partnership

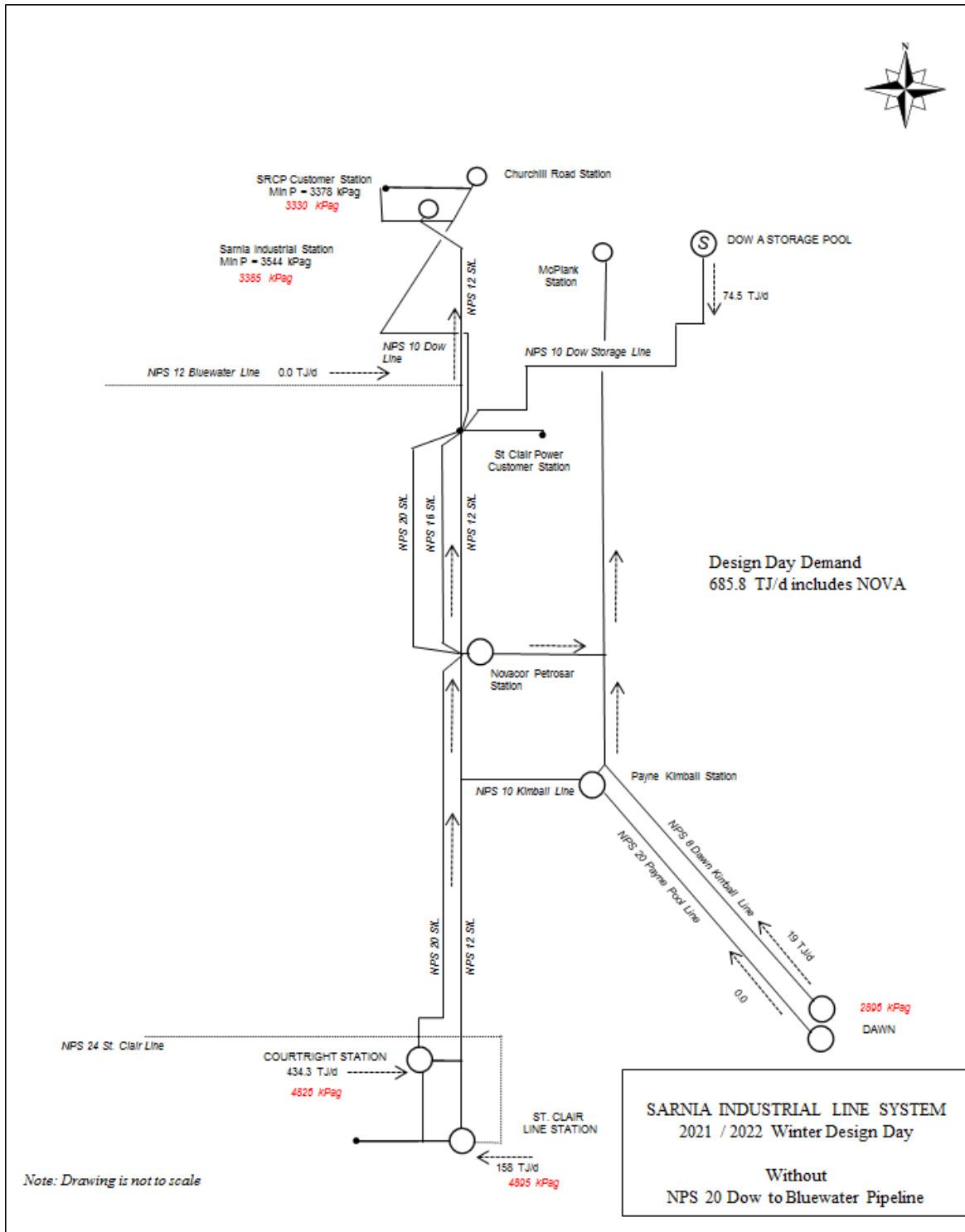
# Schematic of SIL System



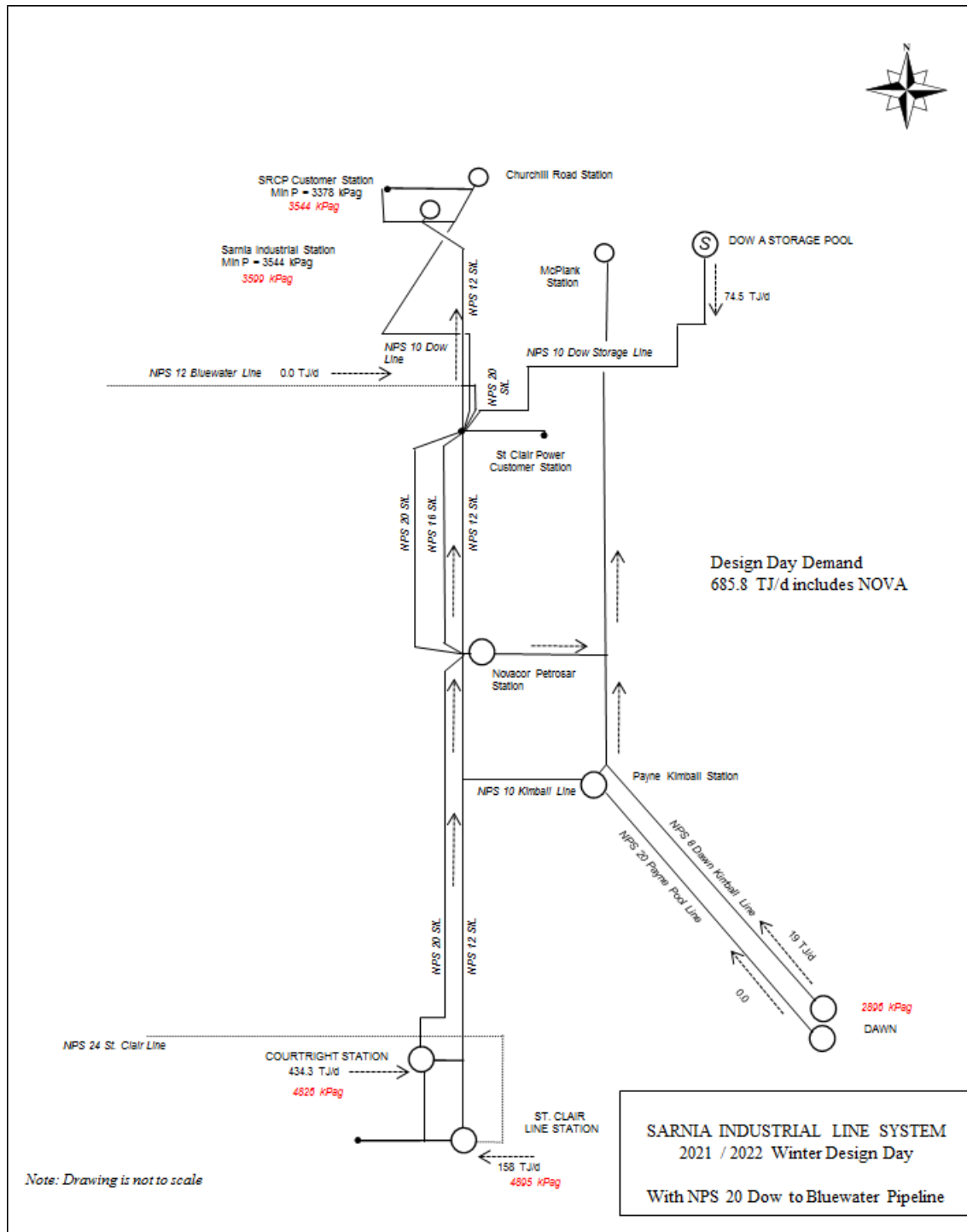




# SIL System 2021/2022 Winter Design Day Schematic



# SIL System 2021/2022 Winter Design Day Schematic Including the NPS 20 Dow to Bluewater Line



NPS 20 Dow to Bluewater Pipeline  
TOTAL ESTIMATED PROJECT CAPITAL COSTS

<u>\$000's</u>	<u>Pipeline</u>	<u>Station</u>	<u>Total</u>
Materials and Equipment	\$ 2,858	\$ 1,554	\$ 4,412
Construction and Labour (including Lands)	14,580	3,905	18,485
Contingencies	3,487	1,092	4,579
Interest During Construction	275	70	345
Indirect Overhead	2,239	701	2,940
<b>Total Estimated Capital Costs</b>	<u>\$ 23,439</u>	<u>\$ 7,322</u>	<u>\$ 30,761</u>

**NPS 20 Dow to Bluewater Pipeline**  
**InService Date: Nov-01-2021**

Project Year	(\$000's)									
	1	2	3	4	5	6	7	8	9	10
<b>Cash Inflow</b>										
Revenue	2,602	2,690	3,131	3,131	3,131	2,626	2,626	2,626	2,626	2,626
Expenses:										
O & M Expense	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)
Municipal Tax	(25)	(25)	(25)	(25)	(25)	(25)	(25)	(25)	(25)	(25)
Income Tax	192	(209)	(375)	(409)	(440)	(336)	(362)	(387)	(410)	(431)
Net Cash Inflow	2,763	2,451	2,726	2,692	2,660	2,261	2,234	2,210	2,187	2,166
<b>Cash Outflow</b>										
Incremental Capital	26,745	1,076	-	-	-	-	-	-	-	-
Change in Working Capital	0	-	-	-	-	-	-	-	-	-
Cash Outflow	26,745	1,076	-	-	-	-	-	-	-	-
<b>Cumulative Net Present Value</b>										
Cash Inflow	2,701	4,989	7,420	9,712	11,877	13,634	15,292	16,859	18,340	19,741
Cash Outflow	26,745	27,774	27,774	27,774	27,774	27,774	27,774	27,774	27,774	27,774
NPV By Year	(24,044)	(22,785)	(20,354)	(18,061)	(15,897)	(14,140)	(12,481)	(10,915)	(9,434)	(8,033)
<b>Project NPV</b>	2,539									
<b>Profitability Index</b>										
By Year PI	0.10	0.18	0.27	0.35	0.43	0.49	0.55	0.61	0.66	0.71
Project PI	1.09									

<u>Project NPV</u>
0.76
0.80
0.85
0.89
0.93
0.96
1.00
1.03
1.06
1.09

**NPS 20 Dow to Bluewater Pipeline**  
**InService Date: Nov-01-2021**  
**(Project Specific DCF Analysis)**

**Stage 1 DCF - Listing of Key Input**  
**Parameters, Values and Assumptions**  
**(\$000'S)**

**Discounting Assumptions**

Project Time Horizon

20 years commencing at facilities in-service date of  
01 Nov 21

Discount Rate

Incremental after-tax weighted average  
After Tax Cost of Capital of 4.69%

**Key DCF Input Parameters,  
Values and Assumptions**

**Net Cash Inflow:**

Incremental Revenue:

Transmission portion of customer rate

0.168903 \$/m3/month applied to future growth

Distribution portion of customer rate

0.000466 \$/m3/month

Combined Transmission + Distribution

0.169369 \$/m3/month applied to NOVA CD

Operating and Maintenance Expense

Estimated incremental cost

Incremental Tax Expenses:

Municipal Tax

Estimated incremental cost

Income Tax Rate

26.50%

CCA Rates:

CCA Classes:	CCA Class	CCA Rate
Structures & Improvements / Building	1	6%
Land Rights	14.1	5%
Steel Mains	49	8%
Measuring and Regulating Equipmen	51	6%

Declining balance rates by CCA class:  
Accelerated CCA (Bill C-97) included.

**Cash Outflow:**

Incremental Capital Costs Attributed

Indirect overhead costs not included  
Refer to Exhibit C, Tab 4, Schedule 2

Change in Working Capital

5.051% applied to O&M

**Calculation of Revenue**

**NPS 20 Dow to Bluewater Pipeline**  
**InService Date: Nov-01-2021**

Line	Project Year	1	2	3	4	5	6	7	8	9	10
<b>NOVA</b>											
1	Transmission & Distribution Margin \$/M3/month										
2	Incremental Contract Demand 10^3m^3/month	1,280	1,280	1,280	1,280	1,280	1,032	1,032	1,032	1,032	1,032
3	Transmission & Distribution Margin	\$2,602	\$2,602	\$2,602	\$2,602	\$2,602	\$2,097	\$2,097	\$2,097	\$2,097	\$2,097
<b>Future Growth</b>											
4	Transmission Margin \$/M3/month		261	261	261	261	261	261	261	261	261
5	Incremental Contract Demand 10^3m^3/month		\$88	\$529	\$529	\$529	\$529	\$529	\$529	\$529	\$529
6	Transmission Margin	\$0									
7	Total Project Revenue	\$2,602	\$2,690	\$3,131	\$3,131	\$3,131	\$2,626	\$2,626	\$2,626	\$2,626	\$2,626

[illegible]



2021 Sarnia Industrial Line Reinforcement Project - Project Schedule

Phase	2018			2019												2020												2021												2021											
	Nov	Dec		Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug				
ENVIRONMENTAL																																																			
Environmental Report																																																			
Field Studies (species, arch, etc.)																																																			
REGULATORY																																																			
Prepare Evidence for OEB Filing																																																			
OEB 'Leave to Construct' Application																																																			
LAND & LAND RIGHTS																																																			
Temporary Workspaces																																																			
ENGINEERING & CONSTRUCTION																																																			
Engineering																																																			
Procurement																																																			
Permits																																																			
Tree Clearing																																																			
Construction																																																			
Clean up																																																			
	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug					

## General Techniques and Methods of Construction

The pipeline construction process includes various activities as described below:

1. **Site Preparation and Clearing:** The first activity is typically survey and staking, which delineate the boundaries of the right of way (RoW) and temporary work areas. Next, the RoW and temporary work areas are cleared of brush and trees (typically during winter, under frozen ground conditions). In the spring the fences that break up the linear RoW are braced and cut to permit an uninterrupted work area. Safety fence is installed at the edge of the construction RoW where public safety considerations are required, and aspects of the traffic management plan are implemented (i.e. signs, vehicle access). Silt fence is installed at required locations. Pre-tiling work is completed to accommodate agricultural drainage.
2. **Grading and Stripping:** The RoW is graded to allow for access by construction equipment. At this stage, the topsoil (on agricultural lands) or the duff layer (on natural lands) is stripped by bulldozers and graders then segregated so it will not be mixed with the subsoil later removed from the trench. Existing landscaping is also removed, and dewatering undertaken, where necessary.
3. **Stringing:** Stringing is the process where pipe sections are delivered to the full length of the RoW, placed on wooded skids and generally parallel to where the trench will be excavated.
4. **Pipe Fabrication:** The pipe is bent as required and the welding crew welds the pipe into continuous lengths. The pipe welds are non-destructively tested (e.g. x-ray) and coated.
5. **Trenching and Lowering:** After the pipe is fabricated, a trenching machine or hydraulic hoe can begin excavating a new trench. In areas of shallow bedrock, hoe-ramming and/or blasting may be required. In agricultural areas, tiles that are cut during the trench excavation are flagged and repaired as quickly as practical. In some areas the pipeline cannot be installed by trenching due to obstacles such as roads or watercourses. In these locations the pipeline is installed using a trenchless approach through a variety of different means. Laneways and driveways are left over the trench as long as feasible where requested by the landowner.
6. **Backfilling:** During backfilling the originally excavated subsoil is placed over the pipe in the trench. In stony areas, the pipe may be sand-padded to protect the coating. In shallow water table areas, the pipeline may be weighted to provide negative buoyancy. In agricultural areas, after the trench is backfilled, tiling is repaired that was disturbed or broken by construction. Landowners with tile drainage are given the opportunity to inspect tile repairs. Typically, a tile consultant is retained to oversee tile repairs and the design of a header tile system if required.
7. **Hydrostatic Testing:** The pipeline is pressure tested by filling the pipe with water and holding it at a high pressure for a set period of time. Water is typically drawn by permit from nearby water sources such as watercourses or lakes, if available. Municipal water may also be used for hydrostatic testing. Upon completion of the hydrostatic testing, the pipeline is drained and dried then put into service with natural gas.
8. **Clean-Up and Restoration:** Clean-up is the restoration of the RoW and other work areas. On agricultural land, this may require decompaction of the subsoil and stone picking to maintain productivity. In natural areas, clean-up restores the environment including re-seeding of the RoW, returning the topography after grading, restoring ditch banks and watercourse crossings. Any erosion and sediment controls installed during construction are also removed. Clean-up will also restore landscaping, laneways and driveways.

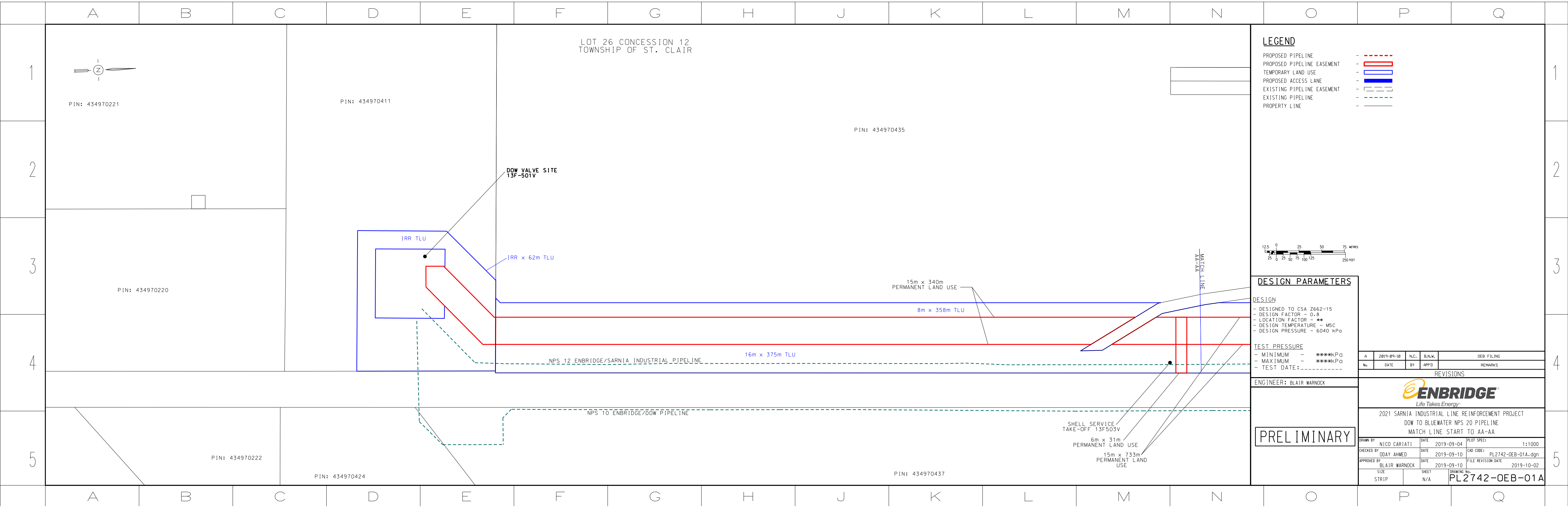
Sarnia Industrial Line Reinforcement Project: Dow to Bluewater Environmental  
Report

To be filed upon receipt.

Comments on Sarnia Industrial Line Reinforcement Project: Dow to Bluewater  
Environmental Report

To be filed upon receipt.

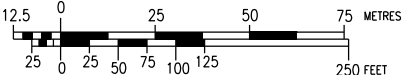
PROPOSED PROJECT LOCATION MAP



LOT 26 CONCESSION 12  
TOWNSHIP OF ST. CLAIR

LEGEND

- PROPOSED PIPELINE - - - - -
- PROPOSED PIPELINE EASEMENT - - - - -
- TEMPORARY LAND USE - - - - -
- PROPOSED ACCESS LANE - - - - -
- EXISTING PIPELINE EASEMENT - - - - -
- EXISTING PIPELINE - - - - -
- PROPERTY LINE - - - - -



DESIGN PARAMETERS

DESIGN


- DESIGNED TO CSA Z662-15
- DESIGN FACTOR - 0.8
- LOCATION FACTOR - \*\*
- DESIGN TEMPERATURE - M5C
- DESIGN PRESSURE - 6040 kPa

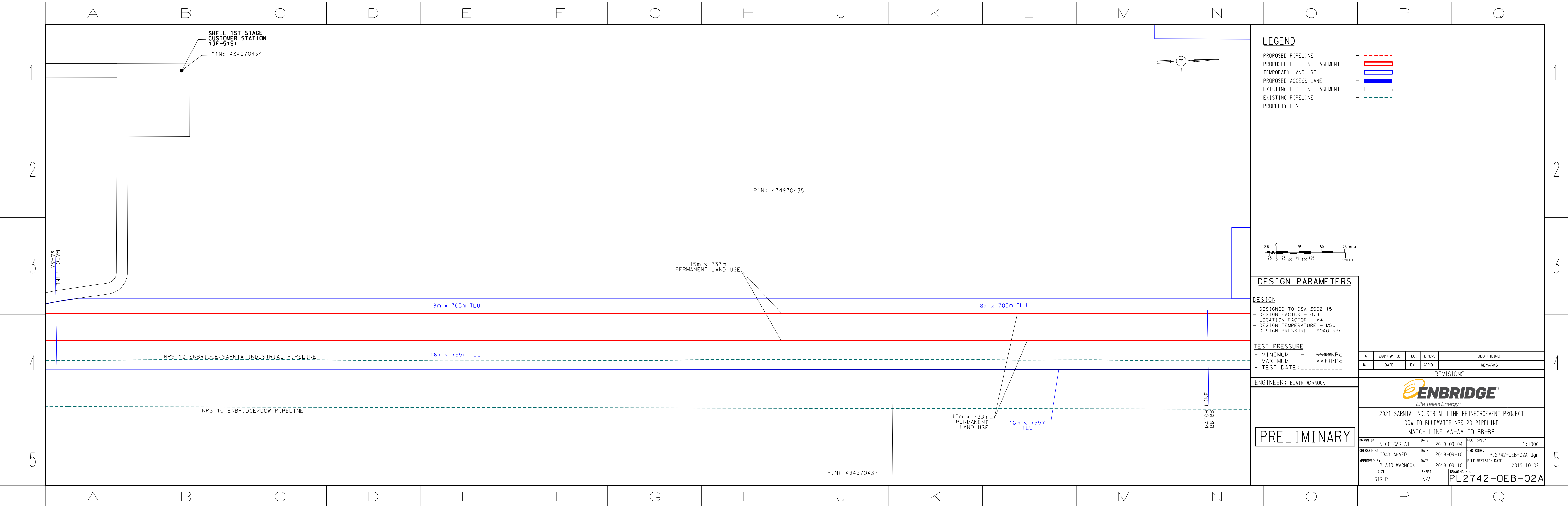
TEST PRESSURE

- MINIMUM - \*\*\*\*kPa
- MAXIMUM - \*\*\*\*kPa
- TEST DATE: - - - - -

ENGINEER: BLAIR WARNOCK

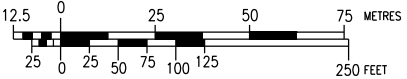
PRELIMINARY

A	2019-09-10	N.C.	B.N.W.	OEB FILING
No.	DATE	BY	APPD	REMARKS
REVISIONS				
 2021 SARNIA INDUSTRIAL LINE REINFORCEMENT PROJECT DOW TO BLUEWATER NPS 20 PIPELINE MATCH LINE START TO AA-AA				
DRAWN BY	NICO CARIATI	DATE	2019-09-04	PLOT SPEC: 1:1000
CHECKED BY	ODAY AHMED	DATE	2019-09-10	CAD CODE: PL2742-OEB-01A.dgn
APPROVED BY	BLAIR WARNOCK	DATE	2019-09-10	FILE REVISION DATE 2019-10-02
SIZE	STRIP	SHEET	N/A	DRAWING No. PL2742-OEB-01A



LEGEND

- PROPOSED PIPELINE - - - - -
- PROPOSED PIPELINE EASEMENT - [Red Box]
- TEMPORARY LAND USE - [Blue Box]
- PROPOSED ACCESS LANE - [Thick Blue Box]
- EXISTING PIPELINE EASEMENT - [Dashed Box]
- EXISTING PIPELINE - - - - -
- PROPERTY LINE - [Solid Line]



DESIGN PARAMETERS

DESIGN

- DESIGNED TO CSA Z662-15
- DESIGN FACTOR - 0.8
- LOCATION FACTOR - \*\*
- DESIGN TEMPERATURE - M5C
- DESIGN PRESSURE - 6040 kPa

TEST PRESSURE


- MINIMUM - \*\*\*\*kPa
- MAXIMUM - \*\*\*\*kPa
- TEST DATE: - - - - -

ENGINEER: BLAIR WARNOCK

PRELIMINARY

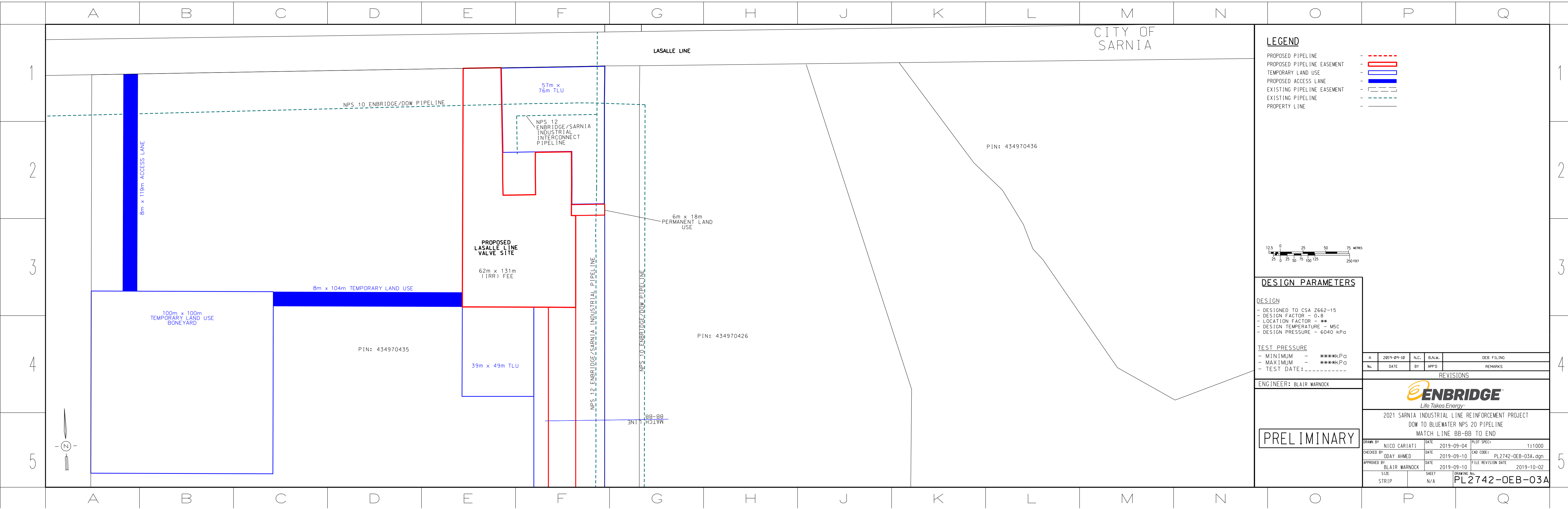
A	2019-09-10	N.C.	B.N.W.	OEB FILING
No.	DATE	BY	APPD	REMARKS

REVISIONS



2021 SARNIA INDUSTRIAL LINE REINFORCEMENT PROJECT  
DOW TO BLUEWATER NPS 20 PIPELINE  
MATCH LINE AA-AA TO BB-BB

DRAWN BY NICO CARIATI	DATE 2019-09-04	PLOT SPEC: 1:1000
CHECKED BY ODAY AHMED	DATE 2019-09-10	CAD CODE: PL2742-OEB-02A.dgn
APPROVED BY BLAIR WARNOCK	DATE 2019-09-10	FILE REVISION DATE 2019-10-02
SIZE STRIP	SHEET N/A	DRAWING No. PL2742-OEB-02A





LANDOWNER LINE LIST

File #	PIN	NAME & ADDRESS	PROPERTY DESCRIPTION	FEE SIMPLE			PERMANENT EASEMENT			TEMPORARY EASEMENT			MORTGAGE, LIEN/LEASE &/OR ENCUMBRANCES	
				W	x	L	Hectares	Dimensions (Metres)	Area	Hectares	Dimensions (Metres)	Area		Hectares
S1	43497-0435	[REDACTED]	PT LT 26 CON 12 MOORE PARTS 1 TO 12, 25R3641 EXCEPT PT 1, 25R10240; T/W L814250; S/T L264692, L318537, L549531, L628416, L650318, L775207, L93510 SUBJECT TO AN EASEMENT IN GROSS OVER PTS 2,4,6 PLAN 25R10240 AS IN LA142099 SUBJECT TO AN EASEMENT IN GROSS OVER PTS 3,5,7 PLAN 25R10240 AS IN LA142502 SUBJECT TO AN EASEMENT IN GROSS OVER PTS 8 TO 16 INCL. PLAN 25R10240 AND PTS 1 TO 25 INCL. PLAN 25R10251 AS IN LA142513 TOWNSHIP OF ST. CLAIR	62	x	131	0.577	15 x	732	1.100	8 x	358	0.288	e) Interprovincial Pipeline Company e) Ministry of the Environment e) Petrosar Limited e) Polysar Hydrocarbons Limited e) St Clair Pipelines Ltd I) Shell Chemicals Canada Ltd.
S2	43497-0411	[REDACTED]	PT LT 26 CON 12 MOORE PT 1 TO 31, 25R8939; S/T L264692, L318537, L335957, L468367, L733451, L93510, L958718; ST. CLAIR SUBJECT TO AN EASEMENT OVER PT LT 26 CON 12 MOORE BEING PARTS 5, 6, 7, 8, 9, 10, 11, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24 AND 25 ON PLAN 25R-10357 AS IN LA165175 SUBJECT TO AN EASEMENT OVER PART LOT 26 CON 12 MOORE BEING PARTS 1,2,3,4,5,6,7,8,9,10,11,12 AND 13 ON PLAN 25R10261 AS IN LA185216					15 x	53.00	0.075	irr x	irr	0.352	e) Interprovincial Pipeline Company e) Ministry of the Environment I) Shell Canada Ltd.

# PIPELINE EASEMENT

(hereinafter called the "Easement")

Between

(hereinafter called the "Transferor")

and

**ENBRIDGE GAS INC.**

(hereinafter called the "Transferee")

This is an Easement in Gross.

WHEREAS the Transferor is the owner in fee simple of those lands and premises more particularly described as:

**PIN:**

**Legal Description:**

(hereinafter called the "Transferor's Lands").

The Transferor does hereby GRANT, CONVEY, TRANSFER AND CONFIRM unto the Transferee, its successors and assigns, to be used and enjoyed as appurtenant to all or any part of the lands, the right, liberty, privilege and easement on, over, in, under and/or through a strip of the Transferor's Lands more particularly described as:

**BEING PIN/PART OF THE PIN:**

**Legal Description:**

(hereinafter called the "Lands") to survey, lay, construct, maintain, brush, clear trees and vegetation, inspect, patrol, alter, remove, replace, reconstruct, repair, move, keep, use and/or operate one pipeline for the transmission of Pipeline quality natural gas as defined in The Ontario Energy Board Act S.O. 1998 (hereinafter called the "Pipeline") including therewith all such buried attachments, equipment and appliances for cathodic protection which the Transferee may deem necessary or convenient thereto, together with the right of ingress and egress at any and all times over and upon the Lands for its servants, agents, employees, those engaged in its business, contractors and subcontractors on foot and/or with vehicles, supplies, machinery and equipment for all purposes necessary or incidental to the exercise and enjoyment of the rights, liberty, privileges and easement hereby granted. The Parties hereto mutually covenant and agree each with the other as follows:

1. In Consideration of the sum of ---- 00/100 Dollars (\$) (hereinafter called the "Consideration"), which sum is payment in full for the rights and interest hereby granted and for the rights and interest, if any, acquired by the Transferee by expropriation, including in either or both cases payment in full for all such matters as injurious affection to remaining lands and the effect, if any, of registration on title of this document and where applicable, of the expropriation documents, subject to Clause 12 hereof to be paid by the Transferee to the Transferor within 90 days from the date of these presents or prior to the exercise by the Transferee of any of its rights hereunder other than the right to survey (whichever may be the earlier date), the rights, privileges and easement hereby granted shall continue in perpetuity or until the Transferee, with the express written consent of the Transferor, shall execute and deliver a surrender thereof. Prior to such surrender, the Transferee shall remove all debris as may have resulted from the Transferee's use of the Lands from the Lands and in all respects restore the Lands to its previous productivity and fertility so far as is reasonably possible, save and except for items in respect of which compensation is due under Clause 2, hereof. As part of the Transferee's obligation to restore the Lands upon surrender of its easement, the Transferee agrees at the option of the Transferor to remove the Pipeline from the Lands. The Transferee and the Transferor shall surrender the Easement and the Transferee shall remove the Pipeline at the Transferor's option where the Pipeline has been abandoned. The Pipeline shall be deemed to be abandoned where: (a) corrosion protection is no longer applied to the Pipeline, or, (b) the Pipeline becomes unfit for service in accordance with Ontario standards. The Transferee shall, within 60 days of either of these events occurring, provide the Transferor with notice of the event. Upon removal of the Pipeline and restoration of the Lands as required by this agreement, the Transferor shall release the Transferee from further obligations in respect of restoration.
2. The Transferee shall make to the Transferor (or the person or persons entitled thereto) due compensation for any damages to the Lands resulting from the exercise of any of the rights herein granted, and if the compensation is not agreed upon by the Transferee and the Transferor, it shall be determined by arbitration in the manner prescribed by the Expropriations Act, R.S.O. 1990, Chapter E-26 or any Act passed in amendment thereof or substitution therefore. Any gates, fences

and tile drains curbs, gutters, asphalt paving, lock stone, patio tiles interfered with by the Transferee shall be restored by the Transferee at its expense as closely as reasonably possible to the condition and function in which they existed immediately prior to such interference by the Transferee and in the case of tile drains, such restoration shall be performed in accordance with good drainage practice and applicable government regulations.

3. The Pipeline (including attachments, equipment and appliances for cathodic protection but excluding valves, take-offs and fencing installed under Clause 9 hereof) shall be laid to such a depth that upon completion of installation it will not obstruct the natural surface run-off from the Lands nor ordinary cultivation of the Lands nor any tile drainage system existing in the Lands at the time of installation of the Pipeline nor any planned tile drainage system to be laid in the Lands in accordance with standard drainage practice, if the Transferee is given at least thirty (30) days notice of such planned system prior to the installation of the Pipeline. The Transferee agrees to make reasonable efforts to accommodate the planning and installation of future tile drainage systems following installation of the Pipeline so as not to obstruct or interfere with such tile installation. In the event there is a change in the use of all, or a portion of the Transferor Lands adjacent to the Lands which results in the pipeline no longer being in compliance with the pipeline design class location requirements, then the Transferee shall be responsible for any costs associated with any changes to the Pipeline required to ensure compliance with the class location requirements.
4. As soon as reasonably possible after the construction of the Pipeline, the Transferee shall level the Lands and unless otherwise agreed to by the Transferor, shall remove all debris as may have resulted from the Transferee's use of the Lands therefrom and in all respects restore the Lands to its previous productivity and fertility so far as is reasonably possible, save and except for items in respect of which compensation is due under Clause 2 hereof.
5. It is further agreed that the Transferee shall assume all liability and obligations for any and all loss, damage or injury, (including death) to persons or property that would not have happened but for this Easement or anything done or maintained by the Transferee hereunder or intended so to be and the Transferee shall at all times indemnify and save harmless the Transferor from and against all such loss, damage or injury and all actions, suits, proceedings, costs, charges, damages, expenses, claims or demands arising therefrom or connected therewith provided that the Transferee shall not be liable under the clause to the extent to which such loss, damage or injury is caused or contributed to by the gross negligence or wilful misconduct of the Transferor.
6. In the event that the Transferee fails to comply with any of the requirements set out in Clauses 2, 3, or 4 hereof within a reasonable time of the receipt of notice in writing from the Transferor setting forth the failure complained of, the Transferee shall compensate the Transferor (or the person or persons entitled thereto) for any damage, if any, necessarily resulting from such failure and the reasonable costs if any, incurred in the recovery of those damages.
7. Except in case of emergency, the Transferee shall not enter upon any of the Transferor's Lands, other than the Lands, without the consent of the Transferor. In case of emergency the right of entry upon the Transferor's Lands for ingress and egress to and from the Lands is hereby granted. The determination of what circumstances constitute an emergency, for purposes of this paragraph is within the absolute discretion of the Transferee, but is a situation in which the Transferee has a need to access the Pipeline in the public interest without notice to the Transferor, subject to the provisions of Clause 2 herein. The Transferee will, within 72 hours of entry upon such lands, advise the Transferor of the said emergency circumstances and thereafter provide a written report to Transferor with respect to the resolution of the emergency situation. The Transferee shall restore the lands of the Transferor at its expense as closely as reasonably practicable to the condition in which they existed immediately prior to such interference by the Transferee and in the case of tile drains, such restoration shall be performed in accordance with good drainage practice.
8. The Transferor shall have the right to fully use and enjoy the Lands except for planting trees over the lesser of the Lands or a six (6) meter strip centered over the Pipeline, and except as may be necessary for any of the purposes hereby granted to the Transferee, provided that the Transferor shall not excavate, drill, install, erect or permit to be excavated, drilled, installed or erected in, on, over or through the Lands any pit, well, foundation, building, mobile homes or other structure or installation and the Transferor shall not deposit or store any flammable material, solid or liquid spoil, refuse, waste or effluent on the Lands. Notwithstanding the foregoing the Transferee upon request shall consent to the Transferor erecting or repairing fences, hedges, pavement, lockstone constructing or repairing tile drains and domestic sewer pipes, water pipes, and utility pipes and constructing or repairing lanes, roads, driveways, pathways, and walks across, on and in the Lands or any portion or portions thereof, provided that before commencing any of the work referred to in

this sentence the Transferor shall (a) give the Transferee at least (30) clear days notice in writing describing the work desired so as to enable the Transferee to evaluate and comment on the work proposed and to have a representative inspect the site and/or be present at any time or times during the performance of the work, (b) shall follow the instructions of such representative as to the performance of such work without damage to the Pipeline, (c) shall exercise a high degree of care in carrying out any such work and, (d) shall perform any such work in such a manner as not to endanger or damage the Pipeline as may be required by the Transferee.

9. The rights, privileges and easement herein granted shall include the right to install, keep, use, operate, service, maintain, repair, remove and/or replace in, on and above the Lands any valves and/or take-offs subject to additional agreements and to fence in such valves and/or take-offs and to keep same fenced in, but for this right the Transferee shall pay to the Transferor (or the person or persons entitled thereto) such additional compensation as may be agreed upon and in default of agreement as may be settled by arbitration under the provisions of The Ontario Energy Board Act, S.O. 1998, or any Act passed in amendment thereof or substitution therefore. The Transferee shall keep down weeds on any lands removed from cultivation by reason of locating any valves and/or take-offs in the Lands.
10. Notwithstanding any rule of law or equity and even though the Pipeline and its appurtenances may become annexed or affixed to the realty, title thereto shall nevertheless remain in the Transferee.
11. Neither this Agreement nor anything herein contained nor anything done hereunder shall affect or prejudice the Transferee's rights to acquire the Lands or any other portion or portions of the Transferor's lands under the provisions of The Ontario Energy Board Act, S.O. 1998, or any other laws, which rights the Transferee may exercise at its discretion in the event of the Transferor being unable or unwilling for any reason to perform this Agreement or give to the Transferee a clear and unencumbered title to the easement herein granted.
12. The Transferor covenants that he has the right to convey this Easement notwithstanding any act on his part, that he will execute such further assurances of this Easement as may be requisite and which the Transferee may at its expense prepare and that the Transferee, performing and observing the covenants and conditions on its part to be performed, shall have quiet possession and enjoyment of the rights, privileges and easement hereby granted. If it shall appear that at the date hereof the Transferor is not the sole owner of the Lands, this Easement shall nevertheless bind the Transferor to the full extent of his interest therein and shall also extend to any after-acquired interest, but all moneys payable hereunder shall be paid to the Transferor only in the proportion that his interest in the Lands bears to the entire interest therein.
13. In the event that the Transferee fails to pay the Consideration as hereinbefore provided, the Transferor shall have the right to declare this Easement cancelled after the expiration of 15 days from personal service upon the Lands Department of the Transferee at its Executive Head Office in Chatham, Ontario, (or at such other point in Ontario as the Transferee may from time to time specify by notice in writing to the Transferor) of notice in writing of such default, unless during such 15 day period the Transferee shall pay the Consideration; upon failing to pay as aforesaid, the Transferee shall forthwith after the expiration of 15 days from the service of such notice execute and deliver to the Transferor at the expense of the Transferee, a valid and registrable release and discharge of this Easement.
14. All payments under these presents may be made either in cash or by cheque of the Transferee and may be made to the Transferor (or person or persons entitled thereto) either personally or by mail. All notices and mail sent pursuant to these presents shall be addressed to:  
  
the Transferor at:  
  
and to the Transferee at:           Enbridge Gas Inc.  
  P.O. Box 2001  
  50 Keil Drive North  
  Chatham, Ontario N7M 5M1  
  Attention: Lands Department  
  
or to such other address in either case as the Transferor or the Transferee respectively may from time to time appoint in writing.
15. The rights, privileges and easement hereby granted are and shall be of the same force and effect as a covenant running with the Transferor's Land and this Easement, including all the covenants and conditions herein contained, shall extend to, be binding upon and inure to the benefit of the

heirs, executors, administrators, successors and assigns of the Parties hereto respectively; and, wherever the singular or masculine is used it shall, where necessary, be construed as if the plural, or feminine or neuter had been used, as the case may be.

16. (a) The Transferee represents that it is registered for the purposes of the Harmonized Goods and Services Tax (hereinafter called “HST”) in accordance with the applicable provisions in that regard and pursuant to the Excise Tax Act, (R.S.C., 1985, c. E-15), (hereinafter called “Excise Tax Act”), as amended.
- (b) The Transferee covenants to deliver a Statutory Declaration, Undertaking and Indemnity confirming its HST registration number, which shall be conclusive evidence of such HST registration, and shall preclude the Transferor from collection of HST from the Transferee.
- (c) The Transferee shall undertake to self-assess the HST payable in respect of this transaction pursuant to subparagraphs 221(2) and 228(4) of the Excise Tax Act, and to remit and file a return in respect of HST owing as required under the said Act for the reporting period in which the HST in this transaction became payable.
- (d) The Transferee shall indemnify and save harmless the Transferor from and against any and all claims, liabilities, penalties, interest, costs and other legal expenses incurred, directly or indirectly, in connection with the assessment of HST payable in respect of the transaction contemplated by this Easement. The Transferee’s obligations under this Clause shall survive this Easement.

17. The Transferor hereby acknowledges that this Easement will be registered electronically.

Dated this \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_.

Signature (Transferor)

Print Name(s) (and position held if applicable)

Address (Transferor)

Signature (Transferor)

Print Name(s) (and position held if applicable)

Address (Transferor)

ENBRIDGE GAS INC.

Signature (Transferee)

, Choose an item.

Name & Title (Enbridge Gas Inc.)

I have authority to bind the Corporation.

519-436-4673

Telephone Number (Enbridge Gas Inc.)

Additional Information: (if applicable):

Property Address:

HST Registration Number:

Municipality of Chatham-Kent

Province of Ontario

DECLARATION REQUIRED UNDER  
SECTION 50 (3) OF THE PLANNING  
ACT, R.S.O. 1990, as amended

I, , of the Choose an item., in the Province of Ontario;

DO SOLEMNLY DECLARE THAT:

- 1. I am a Choose an item., Lands Department of Enbridge Gas Inc., the Transferee in the attached Grant of Easement and as such have knowledge of the matters herein deposited to.
- 2. The use of or right in the land described in the said Grant of Easement being:

**PIN/Part of the PIN:**

**Legal Description:**

acquired by Enbridge Gas Inc. for the purpose of a hydrocarbon line within the meaning of Part VI of the Ontario Energy Board Act, 1998.

AND I make this solemn declaration conscientiously believing it to be true and knowing that it is of the same force and effect as if made under oath, and by virtue of The Canada Evidence Act.

DECLARED before me at the )  
 )  
 )  
 )  
in the Province of Ontario )  
 )  
this \_\_\_\_day of \_\_\_\_\_ 2017. )

\_\_\_\_\_

A Commissioner, etc.

TEMPORARY LAND USE AGREEMENT

(hereinafter called the "Agreement")

Between

(hereinafter called the "Owner")

and

**ENBRIDGE GAS INC.**

(hereinafter called the "Company")

In consideration of the sum of \_\_\_\_\_XX/100 Dollars (\$\_\_\_\_\_), payable by the Company to the Owner within thirty (30) days of signing of this Agreement in accordance with the Compensation labelled as **Appendix "D"** hereto.

the Owner of **PIN:**

**Legal Description:** labelled as **Appendix "B"** hereto, hereby grants to the Company, its servants, agents, employees, contractors and sub-contractors and those engaged in its and their business, the right on foot and/or with vehicles, supplies, machinery and equipment at any time and from time to time during the term of this Agreement to enter upon, use and occupy a parcel of land (hereinafter called the "Lands") more particularly described on the Sketch attached hereto labelled as Appendix "A" and forming part of this Agreement, the Lands being immediately adjacent to and abutting the **Choose an item.** for any purpose incidental to, or that the Company may require in conjunction with, the construction by or on behalf of the Company of a proposed **Choose an item.** and appurtenances on the Lands including, without limiting the generality of the foregoing, the right to make temporary openings in any fence (if applicable) along or across the Lands and to remove any other object therein or thereon interfering with the free and full enjoyment of the right hereby granted and further including the right of surveying and placing, storing, levelling and removing earth, dirt, fill, stone, debris of all kinds, pipe, supplies, equipment, vehicles and machinery and of movement of vehicles, machinery and equipment of all kinds.

1. This Agreement is granted upon the following understandings:

- a) The rights hereby granted terminate on the     day of , 20.
- b) The Company shall make to the person entitled thereto due compensation for any damages resulting from the exercise of the right hereby granted and if the compensation is not agreed upon it shall be determined in the manner prescribed by Section 100 of The Ontario Energy Board Act, R.S.O. 1998 S.O. 1998, c.15 Schedule B, as amended or any Act passed in amendment thereof or substitution there for;
- c) As soon as reasonably possible after the construction, the Company at its own expense will level the Lands, remove all debris therefrom and in all respects, restore the Lands to their former state so far as is reasonably possible, save and except for items in respect of which compensation is due under paragraph (b) and the Company will also restore any gates and fences interfered with around, (*if applicable*) the Lands as closely and as reasonably possible to the condition in which they existed immediately prior to such interference by the Company.
- d) It is further agreed that the Company shall assume all liability and obligations for any and all loss, damage or injury, (including death) to persons or property that would not have happened but for this Agreement or anything done or maintained by the Company hereunder or intended so to be and the Company shall at all times indemnify and save harmless the Owner from and against all such loss, damage or injury and all actions, suits, proceedings, costs, charges, damages, expenses, claims or demands arising therefrom or connected therewith provided that the Company shall not be liable under the Clause to the extent to which such loss, damage or injury is caused or contributed to by the gross negligence or wilful misconduct of the Owner.

The Company and the Owner agree to perform the covenants on its part herein contained.

Dated this \_\_\_\_ day of \_\_\_\_\_ 20\_\_.

[Insert name of individual or corporation]

Signature (Owner)

Print Name(s) (and position held if applicable)

I am/I am not a spouse.

Address (Owner)

Signature (Owner)

Print Name(s) (and position held if applicable)

Address (Owner)

ENBRIDGE GAS INC.

Signature (Company)

, Choose an item.

Name & Title (Enbridge Gas Inc.)

I have authority to bind the Corporation.

519-436-4673

Telephone Number (Enbridge Gas Inc.)

Additional Information: (if applicable):

Property Address:

HST Registration Number:



INDIGENOUS CONSULTATION REPORT: SUMMARY TABLES

<b>Aamjiwnaang First Nation (“AFN”)  Environment Coordinator  519-336-8410</b>		
<b>Was project information provided to the community?</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<p>On October 15, 2018, an Enbridge representative notified an AFN representative about the Sarnia Reinforcement Project (“Project”). The Project notification included a map of the Project location. The Enbridge representative requested a response to set up a meeting to discuss the Project.</p> <p>On April 17, 2019, an Enbridge representative sent an email to Chief Plain and the Environment Coordinator for AFN following up on the October 15, 2018 notification. The Enbridge representative requested a meeting with AFN to discuss the Project. The AFN representative did not respond.</p> <p>On May 13, 2019, an Enbridge representative emailed AFN’s Environment Coordinator to request dates the Environmental Committee could meet to discuss the Project.</p> <p>On May 14, 2019, a telephone conversation occurred between Enbridge and AFN’s representatives to discuss dates for a meeting on the Project. The meeting date was set for June 4, 2019.</p> <p>On May 22, 2019, a representative of AFN sent an email advising that the June 4th meeting had to be cancelled. The Enbridge representative provided alternative dates and times to present to AFN’s Environment Committee. The date of June 18, 2019 was confirmed.</p> <p>On June 18, 2019, a meeting was held between Enbridge and AFN’s Environment Committee. The Enbridge representatives reviewed the presentation and Project map with AFN’s Environment Committee. The Enbridge representatives also reviewed with AFN a large table map for ease of reference. Both were left with the Committee.</p> <p>The Enbridge representatives explained the purpose of the Project:</p> <ul style="list-style-type: none"> <li>Expand the capacity of the existing natural gas system in south Sarnia for current and future customers.</li> </ul>

		<ul style="list-style-type: none"> <li>• 1.2 km route between two existing stations and in existing infrastructure.</li> <li>• Construction date of 2021.</li> </ul> <p>The Enbridge representatives explained Archaeology and Environmental surveys and the mitigation that was involved. The Archaeology and Environmental surveys will start in the fall of 2019 and continue into 2020.</p> <p>On June 26, 2019, an Enbridge representative emailed the AFN Environment Committee Coordinator thanking her for the opportunity to meet with AFN to discuss the Project. The Enbridge representative provided an electronic copy of the presentation that was provided in the meeting.</p> <p>On July 9, 2019, an AFN representative sent an email to an Enbridge representative requesting a copy of the formal letter of consultation that had been sent to AFN regarding the Project. On August 28, 2019, the Enbridge representative sent the AFN representative a formal letter of consultation in relation to the Project.</p> <p>On August 28, 2019, a representative from Stantec, an Enbridge consultant on the Project, emailed AFN to advise them that Stantec would be completing a Stage 2 archaeological assessment and natural heritage study for the Project and invited the community to participate in the assessment.</p>
<b>Was the community responsive/did you have direct contact with the community?</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<p>AFN and Enbridge representatives had been in contact through email and telephone on numerous occasions. An in-person meeting was held on June 18, 2019 to discuss the Project.</p>

<b>Did the community members or representatives have any questions or concerns?</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	On June 18, 2019, during the in-person meeting, AFN posed a number of questions, which were answered by the Enbridge representatives at the meeting.	
		<b>AFN Question</b>	<b>Enbridge Response</b>
		The Committee expressed concerns over a local chemical spill in 2001 and the possibility of benzene being released.	An Enbridge representative advised that soil testing would be completed in the area and that this information would be provided to the AFN Environment Committee once received. The Enbridge representative advised that Enbridge would follow all protocols and requirements if anything is discovered.
		An AFN representative asked about the tree planting program if trees had to be removed.	An Enbridge representative advised that for every tree that was removed, two would be planted. The replacement of the trees was based on what was removed and the soil content.
		An AFN representative asked about the Butler Garter Snake and how Enbridge protects it.	An Enbridge representative explained Enbridge's proposed mitigation for the snake and advised that a snake fence would be used and explained how it would work. The AFN representative advised that they have a representative who is specialized in dealing with snakes and they would like to participate if necessary.
		An AFN representative asked about the traffic plan.	An Enbridge representative explained the process for the traffic plan.
		An AFN representative asked	The Enbridge representative

		about monitors for the Archaeology and Environmental surveys.	advised that Stantec would be reaching out soon to start the process.
Does the community have any outstanding concerns?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	To date, there are no outstanding concerns from AFN.	
<b>Chippewas of Kettle and Stony Point First Nation ("CKSPFN")</b> <b>Consultation Coordinator</b> <b>519-786-2125</b>			
Was project information provided to the community?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<p>On October 15, 2018, an Enbridge representative notified the Chief and the representative for CKSPFN of the Project. The Project notification included a map of the Project location. The Enbridge representative requested a response to set up a meeting to discuss the Project.</p> <p>On November 1, 2018, a CKSPFN representative emailed an Enbridge representative requesting a meeting on the Project. The CKSPFN representative provided some available meeting dates and advised the Enbridge representative representative that they would like to discuss capacity funding. The Enbridge representative responded on the same date indicating he could meet on November 13, 2018. The meeting date was confirmed for November 13.</p> <p>On November 13, 2018, a CKSPFN representative emailed the Enbridge representative advising that the CKSPFN consultation committee members had been selected so she would need to cancel the meeting scheduled for the same day, so they could be in attendance.</p> <p>On April 17, 2019, an Enbridge representative emailed Chief Henry and other representatives from CKSPFN to follow up on the October 12, 2018 notification email. The Enbridge representative requested a meeting to discuss the Project.</p>	

	<p>The parties exchanged emails containing possible meeting dates.</p> <p>On May 13, 2019, an Enbridge representative emailed a representative from CKSPFN requesting dates for a meeting to discuss the Project. The parties exchanged emails and confirmed a meeting on May 30, 2019.</p> <p>On May 28, 2019, a CKSPFN representative emailed the Enbridge representative advising that she would have to postpone the meeting set for May 30, 2019.</p> <p>On June 6, 2019, an Enbridge representative emailed a CKSPFN representative asking whether they could meet on another day. The CKSPFN representative did not respond.</p> <p>On June 13, 2019, an Enbridge representative spoke to a CKSPFN representative following a meeting on a different project. The CKSPFN representative advised the Enbridge representative that CKSPFN was having difficulty getting the committee together and that she would notify the Enbridge representative once the Committee had been finalized. The CKSPFN representative also advised the Enbridge representative that she was working on getting a monitor to attend the Stage 2 archaeological assessment.</p> <p>On June 24, 2019, an Enbridge representative emailed the CKSPFN representative asking if there are other dates they would be available to meet to discuss the Project.</p> <p>On July 9, 2019 an Enbridge representative emailed the CKSPFN representative again asking if they could meet to discuss the Project. The Enbridge representative also thanked the CKSPFN representative for having a monitor participate on the Stage 2 archaeological assessment.</p> <p>On July 9, 2019, an Enbridge representative received an email from a CKSPFN representative advising that a monitor would not be available for the Project and that there would be costs to meet with the committee. The CKSPFN representative did not provide the Enbridge representative with dates they would be able to meet.</p> <p>On July 11, 2019, the CKSPFN representative emailed the Enbridge representative providing two possible meeting dates in late July to meet to discuss the Project. She did, however,</p>
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		<p>advise that the meeting may be postponed to August given more availability at that time.</p> <p>On August 1, 2019, the meeting was rescheduled to August 12, 2019.</p> <p>On August 12, 2019, a meeting was held between Enbridge and CKSPFN's Environmental Committee. The Enbridge representatives reviewed the presentation and Project map with CKSPFN's Environment Committee. The Enbridge representatives also reviewed with CKSPFN a large table map for ease of reference. Both were left with the Committee.</p> <p>The Enbridge representatives explained the purpose of the Project:</p> <ul style="list-style-type: none"> <li>• Expand the capacity of the existing natural gas system in south Sarnia for current and future customers</li> <li>• 1.2 km route between two existing stations and in existing infrastructure.</li> <li>• Construction date of 2021</li> </ul> <p>The Enbridge representatives explained Archaeology and Environmental surveys and the mitigation that was involved. The Archaeology and Environmental surveys will start in the fall of 2019 and continue into 2020.</p> <p>On August 14, 2019, an Enbridge representative emailed the CKSPFN representative with responses to take-away questions.</p> <p>On August 28, 2019, a representative from Stantec, an Enbridge consultant on the Project, emailed CKSPFN to advise them that Stantec would be completing a Stage 2 archaeological assessment and natural heritage study for the Project and invited the community to participate in the assessment.</p>
<p><b>Was the community responsive/did you have direct contact with the</b></p>	<p><input checked="" type="checkbox"/> Yes</p> <p><input type="checkbox"/> No</p>	<p>The Enbridge representative and CKSPFN representatives have had numerous email correspondence. A face to face meeting was held on August 12, 2019.</p>

community?			
<p><b>Did the community members or representatives have any questions or concerns?</b></p>	<p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>	<p>On August 12, 2019, during the in-person meeting, CKSPFN posed a number of questions which were answered by the Enbridge representatives at the meeting or following the meeting by way of email.</p>	
		<p><b>AFN Question</b></p>	<p><b>Enbridge Response</b></p>
		<p>A CKSPFN representative asked about the tree planting program if trees were removed.</p>	<p>An Enbridge representative advised them that for every tree that was removed, two would be planted. The replacement of the trees was based on what was removed and the soil content.</p>
		<p>A CKSPFN representative asked about the Butler Garter Snake and how Enbridge protects it.</p>	<p>An Enbridge representative explained its proposed mitigation for the snake and how a snake fence is used.</p>
		<p>A CKSPFN representative asked about the Fox Snake and how Enbridge deals with it.</p>	<p>An Enbridge representative explained that if it were to find Fox Snakes, a taller fence would be used.</p> <p>The Environmental Planner for Enbridge identified the barn swallow and bats in those areas and provided information on mitigation methods.</p>
		<p>A CKSPFN representative asked about water crossing.</p>	<p>An Enbridge representative advised that there were no water crossing on this Project.</p>
		<p>A CKSPFN representative asked about the mammals at risk.</p>	<p>The Enbridge representative advised that the species at risk mammals that could be affected by the pipeline were the Gray Fox, Little Brown Myotis, Northern Myotis and the Eastern Small-footed</p>

			Myotis.
		A CKSPFN representative asked what unknown pipeline means	The Enbridge representative advised that there is a pipeline in the area; however, the status of the pipeline is unclear. Accordingly, the Enbridge representative advised that it will consider the pipeline to be active and take all precautions necessary when digging around it as they do with all underground infrastructures.
		A CKSPFN representative asked what "Legacy" means?	The Enbridge representative advised that the word Legacy has two meanings in the current work. Legacy when speaking about construction refers to the existing pipe in the ground that is inactive. Legacy also refers to Union Gas and Enbridge Gas Distribution merging to form a new company: Enbridge Gas Inc. Both former entities are now referred to as Legacy Union and Legacy EGD for identification purposes.
		A CKSPFN representative advised they were having troubles with Stantec and a request for a proof of Driver's license.	The Enbridge representative provided information that Stantec would be getting in touch with CKSPFN with a new contract to address their concern about having to provide a driver's licence. .



<b>Does the community have any outstanding concerns?</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	To date, there are no outstanding concerns from CKSPFN.
<b>Chippewas of the Thames First Nation ("COTTFN")</b> <b>Consultation Coordinator</b> <b>519-289-5555</b>		
<b>Was project information provided to the community?</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<p>On October 15, 2018, an Enbridge representative emailed Chief Henry and representatives from COTTFN notifying them about the Project. The Project notification included a map of the Project location. The Enbridge representative requested a response to set up a meeting to discuss the Project.</p> <p>On May 9, 2019, an Enbridge representative emailed a representative from COTTFN asking to set up a time to meet to discuss the Project. The parties exchanged emails and confirmed a meeting date for June 17, 2019.</p> <p>On June 17, 2019, a meeting was held between Enbridge and COTTFN's Environmental Committee. The Enbridge representatives reviewed the presentation and Project map with COTTFN's Environment Committee. The Enbridge representatives also reviewed with COTTFN a large table map for ease of reference. Both were left with the Committee.</p> <p>The Enbridge representatives explained the purpose of the Project:</p> <ul style="list-style-type: none"> <li>• Expand the capacity of the existing natural gas system in south Sarnia for current and future customers</li> <li>• 1.2 km route between two existing stations and in existing infrastructure.</li> <li>• Construction date of 2021</li> </ul> <p>The Enbridge representatives explained Archaeology and Environmental surveys and the mitigation that was involved. The Enbridge representatives advised that the Archaeology and Environmental surveys will start in the fall of 2019 and continue into 2020.</p>

		On August 28, 2019, a representative from Stantec, an Enbridge consultant on the Project, emailed COTTFN to advise them that that Stantec would be completing a Stage 2 archaeological assessment and natural heritage study for the Project and invited the community to participate in the assessment.												
<b>Was the community responsive/did you have direct contact with the community?</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Enbridge and COTTFN had multiple exchanges regarding the Project. An in-person meeting was held between Enbridge and COTTFN's Enviromental Committee on June 17, 2019.												
<b>Did the community members or representatives have any questions or concerns?</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<p>On June 17, 2019, during the in-person meeting, COTTFN posed a number of questions which were answered by the Enbridge representatives at the meeting.</p> <table border="1"> <thead> <tr> <th>COTTFN Question</th> <th>Enbridge Response</th> </tr> </thead> <tbody> <tr> <td>The Committee asked about water crossings.</td> <td>An Enbridge representative advised that there were no water crossings on this Project.</td> </tr> <tr> <td>A COTTFN representative asked about the numerous pipelines in the area and what digging techniques were used.</td> <td>The Enbridge representative provided details on the precautions necessary when digging around pipelines to ensure the security of all underground infrastructures.</td> </tr> <tr> <td>A COTTFN representative asked about the Butler Garter Snake.</td> <td>An Enbridge representative explained the mitigation for the snake and how a snake fence is used.</td> </tr> <tr> <td>A COTTFN representative asked about where natural gas comes from.</td> <td>An Enbridge representative provided an explanation of the extraction through to distribution of natural gas.</td> </tr> <tr> <td>A COTTFN representative</td> <td>The Enbridge representative</td> </tr> </tbody> </table>	COTTFN Question	Enbridge Response	The Committee asked about water crossings.	An Enbridge representative advised that there were no water crossings on this Project.	A COTTFN representative asked about the numerous pipelines in the area and what digging techniques were used.	The Enbridge representative provided details on the precautions necessary when digging around pipelines to ensure the security of all underground infrastructures.	A COTTFN representative asked about the Butler Garter Snake.	An Enbridge representative explained the mitigation for the snake and how a snake fence is used.	A COTTFN representative asked about where natural gas comes from.	An Enbridge representative provided an explanation of the extraction through to distribution of natural gas.	A COTTFN representative	The Enbridge representative
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		asked what an easement was and what it meant for the Project.	provided information on easements.
		A COTTFN representative asked about monitors for the Archaeology and Environmental surveys.	The Enbridge representative advised that Stantec would be reaching out soon to start the process.
<b>Does the community have any outstanding concerns?</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	To date, COTTFN does not have any outstanding concerns.	
<b>Oneida Nation of the Thames ("Oneida Nation")</b> <b>Environment and Consultation Coordinator</b> <b>(519)-652-6922</b>			
<b>Was project information provided to the community?</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<p>On October 15, 2018, An Enbridge representative emailed Chief Hill and another representative from OFN notifying them about the Project. The Project notification included a map of the Project location. The Enbridge representative requested a response to set up a meeting to discuss the Project.</p> <p>On April 17, 2019, the Enbridge representative emailed Chief Hill and the Oneida Environmental Committee to follow up on the earlier Project notification email of October 12, 2018 and requested a meeting to discuss the Project. The OFN Environmental Coordinator responded with three possible dates for Enbridge to meet with Chief and Council.</p> <p>On April 24, 2019, the Enbridge representative emailed the OFN Environmental Coordinator requesting a meeting on May 6. He advised that he would be in attendance at the meeting along with Enbridge's Environmental Planner. The meeting was confirmed for May 6, 2019.</p> <p>On May 6, 2019, a meeting was held between Enbridge and OFN's Environmental Committee. The Enbridge representatives reviewed the presentation and Project map with OFN's Environment Committee. The Enbridge representatives also</p>	

		<p>reviewed with OFN a large table map for ease of reference. Both were left with the Committee.</p> <p>The Enbridge representatives explained the purpose of the Project:</p> <ul style="list-style-type: none"><li>• Expand the capacity of the existing natural gas system in south Sarnia for current and future customers</li><li>• 1.2 km route between two existing stations and in existing infrastructure.</li><li>• Construction date of 2021</li></ul> <p>The Enbridge representatives explained Archaeology and Environmental surveys and the mitigation that was involved. The Enbridge representative advised that the Archaeology and Environmental surveys will start in the fall of 2019 and continue into 2020.</p> <p>On August 28, 2019, a representative from Stantec, an Enbridge consultant on the Project, emailed OFN to advise them that Stantec would be completing a Stage 2 archaeological assessment and natural heritage study for the Project and invited the community to participate in the assessment.</p>				
<b>Was the community responsive/did you have direct contact with the community?</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<p>Enbridge and OFN had multiple exchanges regarding the Project. An in-person meeting was held between Enbridge and OFN on May 6, 2019.</p>				
<b>Did the community members or representatives have any questions or concerns?</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<p>On May 6, 2019, during the in-person meeting, OFN posed a number of questions which were answered by the Enbridge representatives at the meeting.</p> <table><tr><th>Oneida Nation Question</th><th>Enbridge Response</th></tr><tr><td>An OFN representative asked about the tree planting program.</td><td>An Enbridge representative advised them that for every tree that was removed, two would be planted. For this</td></tr></table>	Oneida Nation Question	Enbridge Response	An OFN representative asked about the tree planting program.	An Enbridge representative advised them that for every tree that was removed, two would be planted. For this
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An OFN representative asked about monitors for the Archaeology and Environmental surveys.	The Enbridge representative advised that Stantec would be reaching out soon to start the process.							
<b>Does the community have any outstanding concerns?</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<p>To date OFN does not have any outstanding concerns.</p>						
<b>Walpole Island First Nation ("WIFN")</b> <b>Consultation Coordinator</b> <b>519-627-1389</b>								
<b>Was project information provided to the community?</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<p>On October 12, 2018, an Enbridge representative emailed the Chief and representatives from WIFN notifying them about the Project. The Project notification letter included a map and description of the Project. The Enbridge representative requested a response to set up a meeting to discuss the Project. The WIFN representative did not respond.</p> <p>On April 17, 2019, an Enbridge representative sent an email to the Chief and representative for WIFN following up on the October 12, 2018 notification. The Enbridge representative requested a meeting with WIFN to discuss the Project. The WIFN representative did not respond.</p>						

		<p>On April 30, 2019 a representative from Stantec, an Enbridge consultant on the Project, emailed the Chief and representative for WIFN to advise them that that Stantec would be completing a Stage 2 archaeological assessment for the Project and invited an AFN representative to participate in the assessment. The WIFN representative did not respond.</p> <p>On May 2, 2019, an Enbridge representative emailed representatives from WIFN to request a meeting to discuss the Project. The WIFN representative did not respond.</p> <p>On May 17, 2019, an Enbridge representative emailed a representative from WIFN to thank her for visiting Chatham. Further to their conversation during the visit, the Enbridge representative provided a number of dates that he would be available to meet with WIFN about the Project.</p> <p>On May 22, 2019, an Enbridge representative emailed a WIFN representative to follow up on his email of May 17. The Enbridge representative advised the WIFN representative that he would be pleased to present to WIFN about the Project on June 10, since another Enbridge representative would be meeting with WIFN with respect to another project. On May 22, 2019, the representative from WIFN confirmed that June 10 would work to meet with WIFN about the Project.</p> <p>On June 10, 2019 The Enbridge representatives met with WIFN representatives to discuss the Project. The Enbridge representatives reviewed the presentation and Project map with representatives from WIFN.</p> <p>The Enbridge representatives explained the purpose of the Project:</p> <ul style="list-style-type: none"> <li>• Expand the capacity of the existing natural gas system in south Sarnia for current and future customers</li> <li>• 1.2 km route between two existing stations and in existing infrastructure.</li> <li>• Construction date of 2021</li> </ul> <p>The Enbridge representatives explained the process of removing/replacing pipe and the steps that need to be taken to complete a pipe replacement. They also provided WIFN with their own copy of the table map they had reviewed during the meeting.</p>
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		<p>On June 10, 2019, a WIFN representative emailed an Enbridge representative providing a date that Enbridge could present to Chief and Council on the Project. This date was confirmed as July 9, 2019, however, the meeting was later changed to August 13, 2019.</p> <p>On August 28, 2019, a representative from Stantec, an Enbridge consultant on the Project, emailed WIFN to advise them that Stantec would be completing a Stage 2 archaeological assessment and natural heritage study for the Project and invited the community to participate in the assessment.</p>								
<b>Was the community responsive/did you have direct contact with the community?</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<p>Enbridge and WIFN had multiple exchanges regarding the Project. An in-person meeting was held between Enbridge and WIFN on June 10, 2019 to discuss the Project.</p> <p>A meeting with Chief and Council was held on August 13, 2019 to provide details on the Project.</p>								
<b>Did the community members or representatives have any questions or concerns?</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<p>On June 10, 2019, during the in-person meeting, WIFN posed a number of questions which were answered by the Enbridge Environmental Planner at the meeting. To date, the WIFN representative did not reply with additional questions.</p> <table border="1"> <thead> <tr> <th>WIFN Question</th><th>Enbridge Response</th></tr> </thead> <tbody> <tr> <td>The WIFN representatives asked the Enbridge representatives about watercourses and how they are handled.</td><td>The Enbridge representatives advised that they use the dam and pump process and explained this process to WIFN.</td></tr> <tr> <td>The parties discussed Species at Risk. The Committee expressed concern over the mussels in the area.</td><td>Enbridge explained their proposed mitigation measures to address this issue and species at risk.</td></tr> <tr> <td>The WIFN representatives also asked about Fox Snake fencing and wanted to ensure</td><td>Enbridge explained their proposed mitigation measures, advising that the</td></tr> </tbody> </table>	WIFN Question	Enbridge Response	The WIFN representatives asked the Enbridge representatives about watercourses and how they are handled.	The Enbridge representatives advised that they use the dam and pump process and explained this process to WIFN.	The parties discussed Species at Risk. The Committee expressed concern over the mussels in the area.	Enbridge explained their proposed mitigation measures to address this issue and species at risk.	The WIFN representatives also asked about Fox Snake fencing and wanted to ensure	Enbridge explained their proposed mitigation measures, advising that the
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The WIFN representatives also asked about Fox Snake fencing and wanted to ensure	Enbridge explained their proposed mitigation measures, advising that the									

		the proper fence would be used, since Fox Snakes can climb higher than typical garter snakes.	proper fences are used to ensure that the Fox Snake is unable to climb over.
		The WIFN representatives asked about the vegetation removal and whether Enbridge would be putting back native species post-construction.	The Enbridge representatives advised that they would replace any trees that would have to be removed during construction. They also provided WIFN with information as to how post construction clean-up would be handled.
		The WIFN representatives asked whether the Enbridge representatives could present to Chief and Council about the Project.	The parties agreed to set up a date with Chief and Council in July or August 2019.
<b>Does the community have any outstanding concerns?</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	To date, there are no outstanding concerns from WIFN.	



Indigenous Consultation Report: Log and Project Correspondence

As at August 28, 2019

<b>Aamjiwnaang First Nation ("AFN")</b>					
<b>Line Item</b>	<b>Date of Engagement</b>	<b>Method of Engagement</b>	<b>Summary of Engagement Activity</b>	<b>Response from Community/Outstanding Issues</b>	<b>Attachment</b>
1.1	October 15, 2018	Email	An Enbridge representative notified an AFN representative about the Sarnia Reinforcement Project ("Project"). The Project notification included a map of the Project location.	No response from the AFN representative.	Schedule A Attachment 1.1
1.2	April 17, 2019	Email	An Enbridge representative sent an email to Chief Plain and the Environment Coordinator for AFN following up on the October 15, 2018 Project notification. The Enbridge representative requested a meeting with AFN to discuss the Project.	No response received from AFN representative.	Attachment 1.2
1.3	May 13, 2019	Email	An Enbridge representative emailed AFN's Environment Coordinator to request dates the Environmental Committee could meet to discuss the Project.	No response received from AFN representative.	Attachment 1.3
	May 14, 2019	Telephone Call	An Enbridge representative called AFN's Environment Coordinator to request dates the Environmental Committee could meet to discuss the Project.	The meeting was set for June 4.	
1.4	May 22, 2019	Email	Email from a representative of AFN's advising that the June 4th meeting had to be cancelled. The Enbridge representative provided alternative dates and times to present to AFN's Environment Committee.	On May 23, 2019, the Enbridge representative responded to the AFN representative indicating they were available to meet on June 18th. This date was confirmed with the AFN representative on the same day.	Attachment 1.4
1.5	June 14, 2019	Email	An Enbridge representative provided an AFN representative with a copy		Schedule D Attachment 1.5

			of the presentation that would be reviewed at the meeting on June 18, 2019.		
	June 18, 2019	In Person meeting	<p>The Enbridge representatives reviewed the presentation and Project map with AFN's Environment Committee. The Enbridge representatives also reviewed with AFN a large table map for ease of reference. The Enbridge representative provided the AFN Committee with copies of the maps and presentation.</p> <p>The Enbridge representatives explained the purpose of the Project:</p> <ul style="list-style-type: none"> <li>Expand the capacity of the existing natural gas system in south Sarnia for current and future customers</li> <li>1.2 km route between two existing stations and in existing infrastructure.</li> <li>Construction date of 2021</li> </ul> <p>The Enbridge representatives explained Archaeology and Environmental surveys and the mitigation that was involved. The Enbridge representative advised that the Archaeology and Environmental surveys will start in the fall of 2019 and continue into 2020.</p>	<p>An AFN representative expressed concerns over a local chemical spill in 2001 and the possibility of benzene being released. An Enbridge representative advised that soil testing would be completed in the area and this information would be provided to the AFN environmental committee once received. The Enbridge representative advised that Enbridge would follow all protocols and requirements if anything were discovered.</p> <p>An AFN representative asked about the tree planting program if trees had to be removed. An Enbridge representative advised that for every tree that was removed, two would be planted. The replacement of the trees was based on what was removed and the soil content. The Enbridge representative advised that for this Project, there would be minimal to no trees being removed as the Project is within disturbed land.</p> <p>An AFN representative asked about the Butler Garter Snake and how Enbridge protects it. An Enbridge representative explained Enbridge's proposed mitigation for the snake and advised that a snake fence would be used and explained how it would work. The AFN representative advised that they have a representative who is specialized in dealing with snakes and advised they</p>	Schedule D

				<p>would like to participate assist if necessary.</p> <p>An AFN representative asked about the traffic plan. An Enbridge representative explained the process for the traffic plan.</p> <p>An AFN representative asked about monitors for the Archaeology and Environmental surveys. The Enbridge representative advised that Stantec would be reaching out soon to start the process.</p>	
1.6	July 9, 2019	Email	On July 9, 2019, An AFN representative sent an email to an Enbridge representative requesting a copy of the formal letter of consultation that had been sent to AFN regarding the Project.	On August 28, 2019, an Enbridge representative provided the AFN representative with the formal letter of consultation as well as a map showing the various routes as alternatives until a final route is selected.	Attachment 1.6
1.7	August 28, 2019	Email	A representative from Stantec, an Enbridge consultant on the Project, emailed the AFN representative to advise them that Stantec would be completing a Stage 2 archaeological assessment and natural heritage study for the Project and invited the community to participate in the assessment.		Attachment 1.7
<b>Chippewa of Kettle and Stony Point First Nation ("CKSPFN")</b>					
<b>Line Item</b>	<b>Date of Engagement</b>	<b>Method of Engagement</b>	<b>Summary of Engagement Activity</b>	<b>Response from Community/Outstanding Issues</b>	<b>Attachment</b>
2.1	October 15, 2018	Email	An Enbridge representative notified a CKSPFN representative about the Project. The Project notification included a map of the Project location.	No response received from CKSPFN representative.	Schedule A Attachment 2.1
2.2	November 1, 2018	Email	A CKSPFN representative emailed an Enbridge representative requesting a meeting on the Project. The	On November 1, 2018, the Enbridge representative responded indicating he could meet	Attachment 2.2

			CKSPFN representative provided some available meeting dates and advised the Enbridge representative that they would like to discuss capacity funding.	on November 13, 2018.  The meeting date was confirmed for November 13.	
2.3	November 13, 2018	Email	A CKSPFN representative emailed the Enbridge representative advising that the CKSPFN consultation committee members had been selected so she would need to cancel the meeting scheduled for the same day (November 13), so they could be in attendance.		Attachment 2.3
2.4	April 17, 2019	Email	An Enbridge representative emailed Chief Henry and other representatives from CKSPFN to follow up on the October 15, 2018 notification email. The Enbridge representative requested a meeting to discuss the Project.	The parties exchanged emails containing possible meeting dates.	Attachment 2.4
2.5	May 13, 2019	Email	An Enbridge representative emailed a representative from CKSPFN requesting dates for a meeting to discuss the Project.	The parties exchanged emails and confirmed a meeting on May 30, 2019.	Attachment 2.5
2.6	May 28, 2019	Email	A CKSPFN representative emailed the Enbridge representative advising that she would have to postpone the meeting.		Attachment 2.6
2.7	June 6, 2019	Email	An Enbridge representative emailed a CKSPFN representative asking whether they could meet on another day.	No response received from CKSPFN representative.	Attachment 2.7
	June 13, 2019	In-person meeting	An Enbridge representative spoke to a CKSPFN representative following a meeting on a different project. The CKSPFN representative advised the Enbridge representative that CKSPFN was having difficulty getting the Committee together and that she would notify the Enbridge representative once the Committee had been finalized. The CKSPFN representative also advised the Enbridge representative that she was		

			working on getting a monitor to attend the Stage 2 archaeological assessment.		
2.8	June 24, 2019	Email	An Enbridge representative emailed the CKSPFN representative asking if there are other dates they would be available to meet to discuss the Project.	No response received from CKSPFN representative.	Attachment 2.8
2.9	July 9, 2019	Email	An Enbridge representative emailed the CKSPFN representative again asking if they could meet to discuss the Project. The Enbridge representative also thanked the CKSPFN representative for having a monitor participate on the Stage 2 archaeological assessment.	On July 9, 2019, an Enbridge representative received an email from a CKSPFN representative advising that a monitor would not be available for the Project and that there would be costs to meet with the Committee.  The CKSPFN representative did not provide the Enbridge representative with dates they would be able to meet.	Attachment 2.9
2.10	July 11, 2019	Email	The CKSPFN representative emailed the Enbridge representative providing two possible meeting dates in late July to meet to discuss the Project. She did, however, advise that the meeting may be postponed to August given more availability at that time.	On July 13, 2019, the Enbridge representative responded and provided the CKSPFN representative with a copy of the Project presentation. He also asked whether they could meet some time during the week of August 12.  On August 1, 2019, the meeting was rescheduled to August 12, 2019	Attachment 2.10
	August 12, 2019	In person meeting	The Enbridge representatives reviewed the presentation and Project map with CKSPFN's Environment Committee. The Enbridge representatives also reviewed with CKSPFN a large table map for ease of reference. Both were left with the Committee.  The Enbridge representatives explained the purpose of the Project: <ul style="list-style-type: none"> <li>Expand the capacity of the</li> </ul>	A CKSPFN representative asked about the tree planting program if trees were removed. An Enbridge representative advised them that for every tree that was removed, two would be planted. The replacement of the trees was based on what was removed and the soil content.  A CKSPFN representative asked about the Butler Garter Snake and how Enbridge protects it. An Enbridge representative	Schedule D

			<p>existing natural gas system in south Sarnia for current and future customers</p> <ul style="list-style-type: none"> <li>• 1.2 km route between two existing stations and in existing infrastructure.</li> <li>• Construction date of 2021</li> </ul> <p>The Enbridge representatives explained Archaeology and Environmental surveys and the mitigation that was involved. The Enbridge representatives advised that Archaeology and Environmental surveys will start in the fall of 2019 and continue into 2020.</p>	<p>explained its proposed mitigation for the snake and how a snake fence is used.</p> <p>A CKSPFN representative asked about the Fox Snake and how Enbridge deals with it. An Enbridge representative explained that if it were to find Fox Snakes, a taller fence would be used.</p> <p>The Environmental Planner for Enbridge identified the barn swallow and bats in those areas and provided info on mitigation.</p> <p>A CKSPFN representative asked about water crossing. An Enbridge representative advised that there were no water crossings on this Project.</p> <p>A CKSPFN representative asked about the mammals at risk. The Enbridge representative advised they would follow up after the meeting with that information.</p> <p>A CKSPFN representative asked what unknown pipeline means. The Enbridge representative advised that there is a pipeline in the area; however, the status of the pipeline is unclear. Accordingly, the Enbridge representative advised that it will consider the pipeline to be active and take all precautions necessary when digging around it as they do with all underground infrastructures.</p> <p>A CKSPFN representative asked what "Legacy" means? An Enbridge representative advised he</p>	
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				<p>would follow up after the meeting with that information.</p> <p>A CKSPFN representative advised they were having troubles with Stantec and a request for a proof of Driver's license. An Enbridge representative advised he would follow up with Stantec and get back to CKSPFN.</p>	
2.11	August 14, 2019	Email	An Enbridge representative emailed the CKSPFN representative to provide answers to some questions posed at the meeting held on August 12, 2019.	<p>The Enbridge representative advised that the species at risk mammals that could be affected by the pipeline were the Gray Fox, Little Brown Myotis, Northern Myotis and the Eastern Small-footed Myotis.</p> <p>The Enbridge representative advised that the word Legacy has two meanings in the current work. Legacy when speaking about construction refers to the existing pipe in the ground that is inactive. Legacy also refers to Union Gas and Enbridge Gas Distribution merging to form a new company: Enbridge Gas Inc. Both former entities are now referred to as Legacy Union and Legacy EGD for identification purposes.</p> <p>The Enbridge representative also provided information that Stantec would be getting in touch with CKSPFN with a new contract to address their concern about having to provide a driver's licence.</p>	Attachment 2.11
2.12	August 28, 2019	Email	A representative from Stantec, an Enbridge consultant on the Project,		Attachment 2.12

			emailed CKSPFN to advise them that that Stantec would be completing a Stage 2 archaeological assessment and natural heritage study for the Project and invited the community to participate in the assessment.		
<b>Chippewas of the Thames First Nation ("COTTFN")</b>					
<b>Line Item</b>	<b>Date of Engagement</b>	<b>Method of Engagement</b>	<b>Summary of Engagement Activity</b>	<b>Response from Community/Outstanding Issues</b>	<b>Attachment</b>
3.1	October 15, 2018	Email	An Enbridge representative notified a COTTFN representative about the Project. The Project notification included a map of the Project location.	No response received from COTTFN representative.	Schedule A Attachment 3.1
3.2	May 9, 2019	Email	An Enbridge representative emailed a representative from COTTFN asking to set up a time to meet to discuss the Project.	The parties exchanged emails and confirmed a meeting date for June 17, 2019.	Attachment 3.2
	June 17, 2019	In person meeting	<p>The Enbridge representatives reviewed the presentation and Project map with COTTFN's Environment Committee. The Enbridge representatives also reviewed with COTTFN a large table map for ease of reference. Both were left with the Committee.</p> <p>The Enbridge representatives explained the purpose of the Project:</p> <ul style="list-style-type: none"> <li>Expand the capacity of the existing natural gas system in south Sarnia for current and future customers</li> <li>1.2 km route between two existing stations and in existing infrastructure.</li> <li>Construction date of 2021</li> </ul> <p>The Enbridge</p>	<p>A COTTFN representative asked about water crossing. An Enbridge representative advised that there were no water crossings on this Project.</p> <p>A COTTFN representative asked about the numerous pipelines in the area and what digging techniques were used. The Enbridge representative provided details on the precautions necessary when digging around pipelines to ensure the security of all underground infrastructures.</p> <p>A COTTFN representative asked about the Butler Garter Snake. An Enbridge representative explained the mitigation for the snake and how a snake fence is used.</p> <p>A COTTFN representative asked about where natural gas comes from.</p>	Schedule D



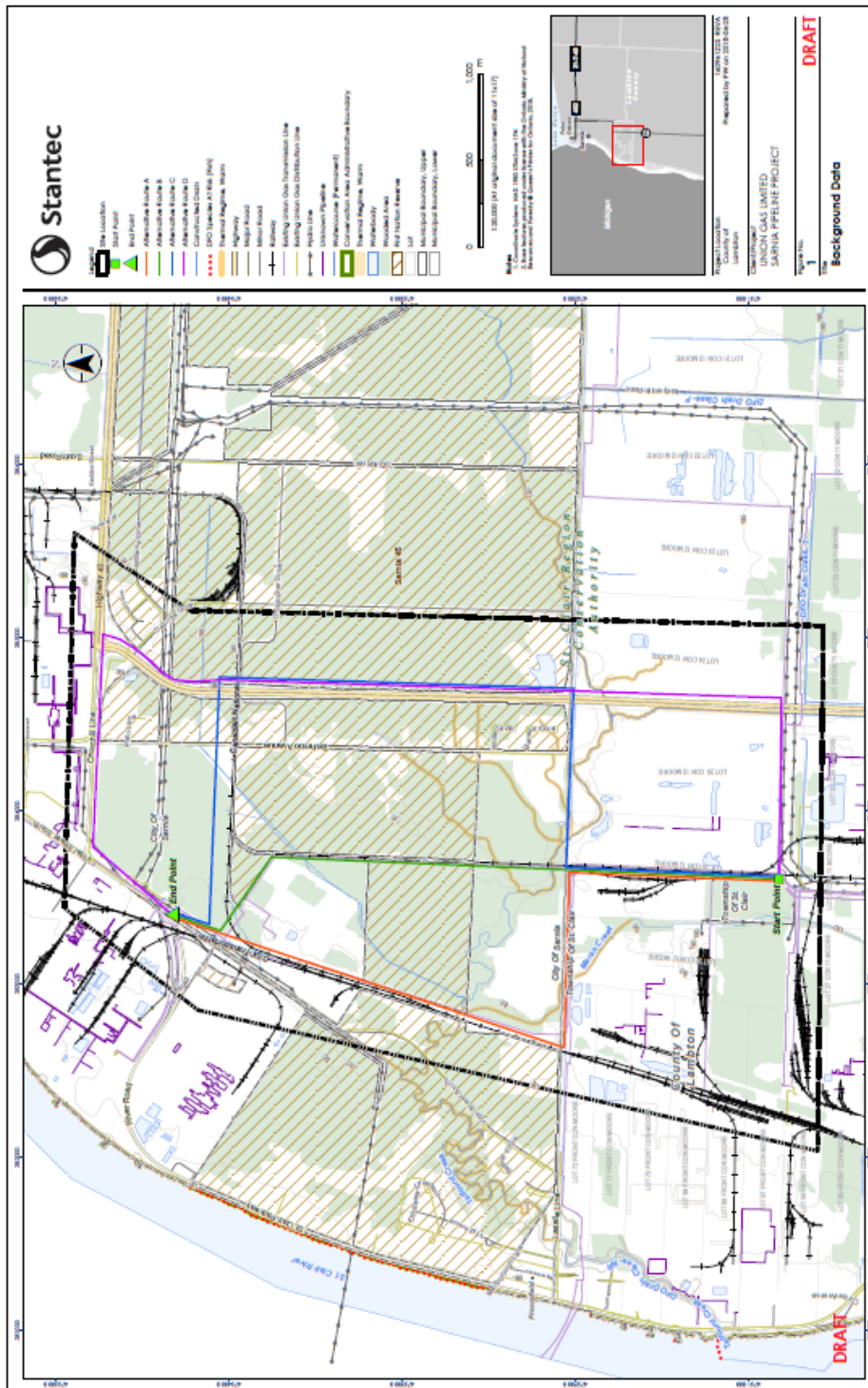
			representatives explained Archaeology and Environmental surveys and the mitigation that was involved. The Enbridge representatives advised that the Archaeology and Environmental surveys will start in the fall of 2019 and continue into 2020.	An Enbridge representative provided an explanation of the extraction through to distribution of natural gas.  A COTTFN representative asked what an easement was and what it meant for the Project. The Enbridge representative provided information on easements.  A COTTFN representative asked about monitors for the Archaeology and Environmental surveys. The Enbridge representative advised that Stantec would be reaching out soon to start the process.	
3.3	August 28, 2019	Email	A representative from Stantec, an Enbridge consultant on the Project, emailed COTTFN to advise them that that Stantec would be completing a Stage 2 archaeological assessment and natural heritage study for the Project and invited the community to participate in the assessment.		Attachment 3.3
<b>Oneida First Nation ("OFN")</b>					
<b>Line Item</b>	<b>Date of Engagement</b>	<b>Method of Engagement</b>	<b>Summary of Engagement Activity</b>	<b>Response from Community/Outstanding Issues</b>	<b>Attachment</b>
4.1	October 15, 2018	Email	An Enbridge representative notified an OFN representative about the Project. The Project notification included a map of the Project location.	No response received from OFN representative.	Schedule A Attachment 4.1
4.2	April 17, 2019	Email	The Enbridge representative emailed Chief Hill and the Oneida Environmental Committee to follow up on the earlier Project notification email of October 12, 2018 and requested a meeting to discuss the Project.	On April 18, 2019, the OFN Environmental Coordinator responded with three possible dates for Enbridge to meet with Chief and Council.	Attachment 4.2

4.3	April 24, 2019	Email	The Enbridge representative emailed the OFN Environmental Coordinator requesting a meeting on May 6. He advised that he would be in attendance at the meeting along with Enbridge's Environmental Planner.	The meeting was confirmed for May 6, 2019.	Attachment 4.3
	May 6, 2019	In-person meeting	<p>The Enbridge representatives reviewed the presentation and Project map with OFN's Chief, Council and Environmental Coordinator. The Enbridge representatives also reviewed with OFN a large table map for ease of reference. Both were left with the Committee.</p> <p>The Enbridge representatives explained the purpose of the Project:</p> <ul style="list-style-type: none"> <li>Expand the capacity of the existing natural gas system in south Sarnia for current and future customers</li> <li>1.2 km route between two existing stations and in existing infrastructure.</li> <li>Construction date of 2021</li> </ul> <p>The Enbridge representatives explained Archaeology and Environmental surveys and the mitigation that was involved. The Enbridge representatives advised that the Archaeology and Environmental surveys will start in the fall of 2019 and continue into 2020.</p>	<p>An OFN representative asked about the tree planting program. An Enbridge representative advised that for every tree that was removed, two would be planted. The Enbridge representative advised that for this Project, there would be minimal to no trees being removed as the Project is within disturbed land.</p> <p>An OFN representative asked about the Fox Snake and what is done to protect it. An Enbridge representative explained that if they were to find Fox Snakes, they would use a taller fence as a mitigation measure.</p> <p>An OFN representative asked about monitors for the Archaeology and Environmental surveys. The Enbridge representative advised that Stantec would be reaching out soon to start the process.</p>	Schedule D
4.4	August 28, 2019	Email	A representative from Stantec, an Enbridge consultant on the Project, emailed OFN to advise them that that Stantec		Attachment 4.4

			would be completing a Stage 2 archaeological assessment and natural heritage study for the Project and invited the community to participate in the assessment.		
<b>Walpole Island First Nation ("WIFN")</b>					
<b>Concern Line Item</b>	<b>Date of Engagement</b>	<b>Method of Engagement</b>	<b>Summary of Engagement Activity</b>	<b>Response from Community/Outstanding Issues</b>	<b>Attachment</b>
5.1	October 15, 2018	Email	An Enbridge representative notified a WIFN representative about the Project. The Project notification included a map of the Project location.	No response received from WIFN representative.	Schedule A Attachment 5.1
5.2	April 17, 2019	Email	An Enbridge representative sent an email to the Chief and representatives from WIFN following up on the October 12, 2018 notification email and requested a meeting with WIFN to discuss the Project.	No response received from WIFN representative.	Attachment 5.2
5.3	May 2, 2019	Email	An Enbridge representative emailed representatives from WIFN to request a meeting to discuss the Project.	No response received from WIFN representative.	Attachment 5.3
5.4	May 17, 2019	Email	An Enbridge representative emailed a representative from WIFN to thank her for visiting Chatham. Further to their conversation during the visit, the Enbridge representative provided a number of dates that he would be available to meet with WIFN about the Project.	No response received from WIFN representative.	Attachment 5.4
5.5	May 22, 2019	Email	An Enbridge representative emailed a WIFN representative to follow up on his email of May 17. The Enbridge representative advised the WIFN representative that he would be pleased to present to WIFN about the Project on June 10, since another Enbridge representative would be meeting with WIFN with respect to another project.	On May 22, 2019, the representative from WIFN confirmed that June 10 would work to meet with WIFN about the Project.	Attachment 5.5

	June 10, 2019	Meeting to discuss the Project.	<p>The Enbridge representatives reviewed the presentation and Project map with WIFN's Environment Committee. The Enbridge representatives also reviewed with WIFN a large table map for ease of reference. Both were left with the Committee.</p> <p>The Enbridge representatives explained the purpose of the Project:</p> <ul style="list-style-type: none"> <li>• Expand the capacity of the existing natural gas system in south Sarnia for current and future customers</li> <li>• 1.2 km route between two existing stations and in existing infrastructure.</li> <li>• Construction date of 2021</li> </ul> <p>The Enbridge representatives explained Archaeology and Environmental surveys and the mitigation that was involved. The Enbridge representative advised that the Archaeology and Environmental surveys will start in the fall of 2019 and continue into 2020.</p>	<p>A WIFN representative asked about the Butler Garter Snake and its mortality. An Enbridge representative explained its proposed mitigation for the snake and how a snake fence is used.</p> <p>A WIFN representative asked about the Species at Risk for this Project. An Enbridge representative advised that there are 21 Species at risk and Enbridge would do all field surveys and mitigation would be done for all species.</p> <p>A WIFN representative asked about the tree planting program and specifically, how many trees were to be removed. An Enbridge representative advised that for every tree that was removed, two would be planted. The Enbridge representative advised that the replacement of the trees was based on what was removed and the soil content.</p> <p>A WIFN representative asked about road allowance. The Enbridge representative explained the distance to the road allowance and what it meant.</p> <p>A WIFN representative asked about monitors for the Archaeology and Environmental surveys. The Enbridge representative advised that Stantec would be reaching out soon to start the process.</p> <p>A WIFN representative requested that a third party review the Archaeology and</p>	Schedule D
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				Environmental once received and requested capacity funding for this. An Enbridge representative agreed to provide capacity funding for this work.	
5.6	August 28, 2019	Email	A representative from Stantec, an Enbridge consultant on the Project, emailed OFN to advise them that that Stantec would be completing a Stage 2 archaeological assessment and natural heritage study for the Project and invited the community to participate in the assessment.		Attachment 5.6



Schedule B – Letter of Notification



July 5, 2018

Ms. Shereen Smithanik  
Senior Policy Advisor  
Indigenous Energy Policy  
Ministry of Energy  
77 Grenville Street, 6<sup>th</sup> Floor  
Toronto, ON M7A 2C1

Dear Ms. Smithanik:

**Re: Sarnia Expansion Project**

Enclosed please find Union's Report to the Ministry of Energy to determine the Indigenous Consultation required for the above noted project. I have also enclosed a copy of the proposed pipeline options and the Crown Land map for your reference. In the event that you have any questions on the above or would like to discuss in more detail, please do not hesitate to contact me.

Yours truly,

*Ken McCorkle*

Ken McCorkle  
Manager, Indigenous Affairs  
Union Gas Limited  
50 Keil Drive North  
Chatham, ON N7M 5M1  
Phone: 519-436-4600 ext. 5002243  
Email: kmccorkle@uniongas.com

**Union Gas Limited – Sarnia Expansion Project**  
**Summary for Ministry of Energy**

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**1. Introduction**

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This Summary Report has been prepared to provide the Ministry of Energy ("MOE") with an overview of the Sarnia Expansion Project ("Project"), to support the preparation of a contact list of indigenous communities that may have an interest in the Project.

**1.1 Project Overview**

Union Gas Limited ("Union Gas") is proposing to expand the capacity of the existing natural gas system in south Sarnia. The existing system expansion is being proposed to increase the available natural gas supply in the south Sarnia area for current and future customers. Due to the complexity of the existing infrastructure in the Sarnia area a proposed route has not yet been developed beyond the identification of a proposed start point and three potential end points.

The Project will consist of one or a combination of a pipeline replacement or new pipeline installation between the DOW Valve Site (Start Point) and the Churchill Road Station (End Point). Currently four potential pipeline routes have been identified (Figure 1 and 2) with the preferred route to be identified at a later date following additional design and planning processes. The proposed Project study area includes portions of the City of Sarnia, Aamjiwnaang First Nation, and the Township of St.Clair. A map indicating the Project study area is shown in Figure 1 and 2 (attached).

The following co-ordinates are the approximate proposed locations of the take off and end point for the new pipeline:

Proposed Locations	Latitude	Longitude
Start Point DOW Valve Site	42.900854	-82.426075
End Point 2 Churchill Road Station	42.932876	-82.427549

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**2. Regulatory Requirements and Approvals**

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Ontario Energy Board ("OEB") review and approval is required before this project can proceed. As part of that application, an Environmental Review (ER) will be conducted in accordance with the OEB Environmental Guidelines for the Location, Construction and Operation of Hydrocarbon Pipelines and Facilities in Ontario 7<sup>th</sup> Edition (2016). The ER for this Project is anticipated to be completed and submitted to the OEB as early as December 2018, and the proposed project to be in service by November 2020. Other permits and authorizations for the project will be determined and may be necessary at the Federal, Provincial and Municipal levels.



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### 3. Environmental Planning Process

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The environmental planning process for the Project will be initiated in 2018 by Union Gas, with support provided throughout the process by consultant archaeologists, cultural heritage specialists, and environmental professionals. The following provides a general overview of the environmental planning process for the Project:

- **Complete an Environmental Report (ER)**
  - Describe the proposed work necessary for the Project;
  - Describe the procedures that will be followed during construction of the facilities;
  - Identify potential environmental impacts and recommend measures to minimize those impacts; and
  - Describe the public consultation opportunities.
- **Complete all necessary studies and assessments**
  - An Archaeological Assessment will be conducted by a licensed archaeologist in accordance with the Ministry of Tourism, Culture and Sport (MTCS) guidelines to identify known or potential archaeological resources within the Project area and will develop an appropriate mitigation plan if required.
  - A heritage specialist will review the running line for potential cultural heritage landscapes and built heritage resources and will develop an appropriate mitigation plan if required.
  - A qualified biologist will review the running line for potential species at risk and determine if any species will be impacted by construction activities and will develop an appropriate mitigation plan if required.
- **Obtain all necessary environmental permits and approvals**
  - Union Gas will work with all relevant governing agencies (i.e. Environment Canada (EC), Ministry of Natural Resources and Forestry (MNRF), St. Clair Region Conservation Authority (SCRC), Fisheries and Oceans Canada (DFO), Aamjiwaang First Nation) to obtain any permits and/or approvals should it be necessary.

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### 4. Consultation

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Consultation is an important part of the environmental planning process and may include discussions with the relevant federal and provincial agencies, municipalities, interested and potentially affected landowners, and interest groups, as well as First Nations and Metis Nations as identified by the MOE.

Union Gas will contact with the City of Sarnia, EC, MNRF, DFO and SCRC to discuss and review the project. Union Gas will also contact landowners along the proposed route.

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### 5. Project Activities

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The pipeline will be installed using Unions standard construction practices which include grading the site, digging the trench, installing the welded pipeline in the trench, testing the pipeline, and restoring the area to its original condition.

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### 6. Summary and Conclusion

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The purpose of this report is to provide MOE with preliminary information regarding the Project and acquire a list of Indigenous communities that may be interested in providing feedback during the project planning process. Field work and data collection will be undertaken to determine the potential effects of this Project during the construction, and operation phases. Mitigation measures to manage these potential effects will be identified and will include proposed monitoring and contingency plans which will be implemented to ensure effects are minimized.

Schedule C- Letter of Delegation of Authority

Ministry of Energy, Northern  
Development and Mines

77 Grenville Street  
6<sup>th</sup> Floor  
Toronto ON M7A 2C1

Tel: (416) 325-6544

Ministère de l'Énergie, du  
Développement du Nord et des  
Mines

77, rue Grenville  
6<sup>e</sup> étage  
Toronto ON M7A 2C1

Tél: (416) 325-6544



**Indigenous Energy Policy**

VIA EMAIL

September 10, 2018

Ken McCorkle  
Manager, Indigenous Affairs  
Union Gas Limited  
P.O Box 2001, 50 Keil Drive North  
Chatham ON N7M 5M1

**Re: Sarnia Expansion Project**

Dear Mr. McCorkle,

Thank you for notifying the Ministry of Energy, Northern Development and Mines of Union Gas' intention to apply for Leave to Construct for the Sarnia Expansion Project through the Ontario Energy Board and requesting clarification on Duty to Consult requirements.

Based on the information provided by Union Gas, we understand that Union Gas is planning to expand the capacity of the existing natural gas system in south Sarnia and that, due to the complexity of existing infrastructure in the area, an intended route for the project has not yet been determined. Union Gas has identified four different potential routes in the study areas which includes portions of the City of Sarnia, Aamjiwnaang First Nation, and the Township of St. Clair.

The Ministry has reviewed the information provided relative to its current understanding of the interests of First Nation and Métis communities in the area and has determined that it may have the potential to affect First Nation and Métis communities who hold or claim Aboriginal or treaty rights protected under Section 35 of Canada's *Constitution Act* 1982.

As you are aware, the Government of Ontario (the Crown) has a constitutional duty to consult and accommodate First Nation and Métis communities when Crown project approvals may lead to an appreciable adverse impact on established or asserted Aboriginal or treaty rights. While the legal duty to consult falls on the Crown, the Crown may delegate the day-to-day, procedural

aspects of consultation to project proponents. The Ministry of the Energy, Northern Development and Mines is delegating the procedural aspects of consultation to Union Gas through this letter.

Based on the Crown's preliminary assessment of First Nation and Métis community rights and project impacts, the following Aboriginal communities should be consulted on the basis that they have or may have constitutionally protected Aboriginal or treaty rights that may be adversely affected by the Project:

Community	Mailing Address
Aamjiwnaang First Nation	978 Tashmoo Avenue Sarnia ON N7T 7H5
Bkejwanong (Walpole Island) First Nation	RR 3 Wallaceburg ON N8A 4K9
Chippewas of the Thames First Nation	320 Chippewa Road, RR #1 Muncey ON N0L 1Y0
Chippewas Of Kettle and Stony Point First Nation	6247 Indian Lane Kettle & Stony Point FN, ON N0N 1J0
Oneida Nation of the Thames	RR 2 Southwold ON N0L 2G0

This rights-based consultation list is based on information that is subject to change. First Nation and Métis communities may make new rights assertions at any time, and other developments (e.g. the discovery of Aboriginal archaeological sites) can occur that may require additional First Nation and/or Métis communities to be notified and/or consulted. If you become aware of potential rights impacts on communities that are not listed above at any stage of the consultation and approval process, kindly bring this to the attention of the Ministry with any supporting information regarding the claim. The Ministry will then assess whether it is necessary to include the community on the rights-based consultation list above.

It is the Ministry's expectation that Union Gas will communicate directly with the communities listed above, and that Union Gas will:

- Notify the communities that Union Gas has been delegated the procedural aspects of consultation by the Ministry of Energy, Northern Development and Mines on behalf of Ontario;
- Notify the communities that they may contact the Crown directly should they have any questions or concerns.
- Provide the communities with the following contact information should they wish to communicate directly with the Ministry:  
Shereen Smithanik  
Senior Advisor, Indigenous Energy Policy  
Ministry of Energy, Northern Development and Mines  
416-326-0513 / Shereen.Smithanik@ontario.ca

Please copy the Ministry contact when communicating the above information.

The Ministry relies on consultation conducted by proponents when it assesses the Crown's obligations and directs proponents during the regulatory process. Union Gas' responsibilities for procedural aspects of consultation include:

- Providing the First Nation and Métis communities with timely notice of the project for the purposes of considering possible impacts on their Aboriginal and/or treaty rights;
- In that notice, clearly stating that Union Gas has been delegated the procedural aspects of consultation by the Ministry of Energy, Northern Development and Mines on behalf of Ontario for the project.
- Providing First Nation and Métis communities with information about the project including anticipated impacts, and information on project timelines;
- Following up with First Nation and Métis communities to ensure they have received project information and that they are aware of the opportunity to express comments and concerns about the project;
- Explaining the regulatory and approval processes that apply to the project;
- Gathering information about how the project may adversely impact the relevant Aboriginal and/or treaty rights (for example, hunting, fishing) or sites of cultural significance (for example, burial grounds, archaeological sites);
- Considering the comments and concerns raised by First Nation and Métis communities and providing responses;
- Where appropriate, discussing accommodation, including mitigation or other measures to address potential adverse impacts on Aboriginal and/or treaty rights;
- Where appropriate, developing and discussing with the Crown appropriate accommodation measures;
- Taking reasonable steps to foster positive relationships with the First Nation and Métis communities;
- Bearing the reasonable costs associated with these procedural aspects of consultation; and
- Maintaining records of activities in relation to carrying out the delegated procedural aspects of consultation and providing information to the Ministry.

If you have any questions about this letter or require any additional information, please contact Shereen Smithanik at 416-326-0513 or [Shereen.Smithanik@ontario.ca](mailto:Shereen.Smithanik@ontario.ca).

Sincerely,

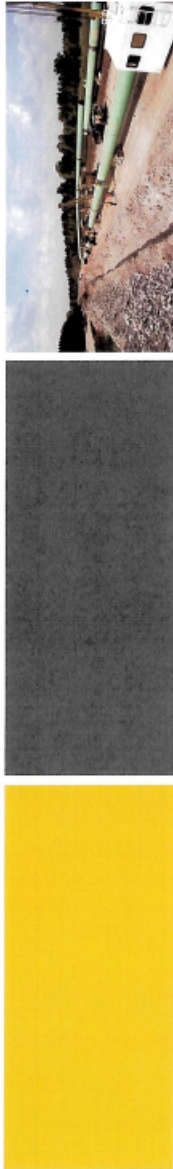


Morgan Owen  
A/Manager  
Indigenous Energy Policy

C: Ontario Pipeline Coordinating Committee (OPCC)

Schedule D- Presentation of the Project

Sarnia Industrial Line Phase I  
Reinforcement Project



Project overview

NOVA Chemicals is adding additional facilities in the Sarnia area, resulting in an increased demand for natural gas and the need for additional capacity. Enbridge Gas Inc. (Enbridge Gas) is proposing to construct a new natural gas pipeline between the existing Enbridge Gas Dow Valve Site and the existing Enbridge Gas Bluewater Interconnect Transmission Station in the Township of St. Clair. The proposed pipeline will be 20-inches in diameter, and approximately 1.2 km in length.

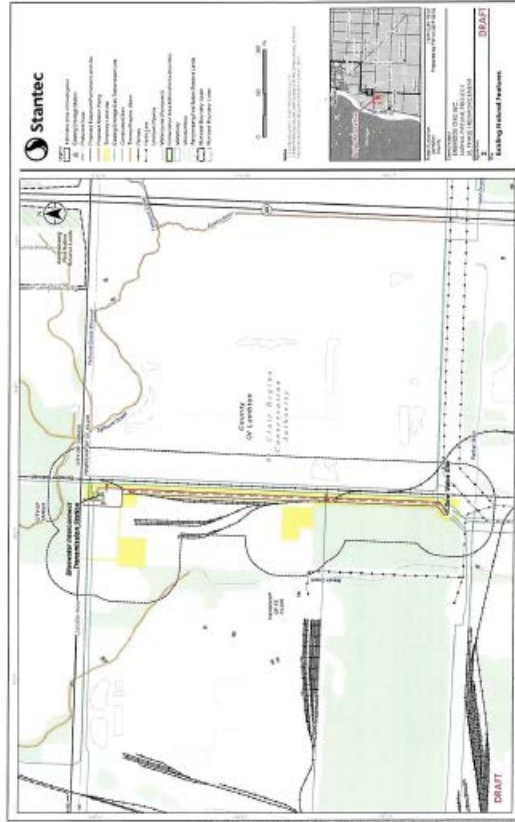
If approved, construction of the proposed project is planned to begin as early as Spring of 2021 with an in-service date in Fall of 2021.



# Sarnia Industrial Line Phase I Reinforcement Project



Existing feature



# Sarnia Industrial Line Phase I Reinforcement Project

## Existing features



## Sarnia Industrial Line Phase I Reinforcement Project



### Aquatic resources

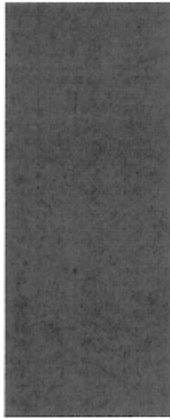
Enbridge Gas understands the importance of protecting wildlife during construction and therefore will implement recognized mitigation measures to minimize possible environmental effects.

- Study Area has three watercourses – Talfourd Creek, Marsh Creek and Parker Drain.
- Talfourd Creek and Marsh Creek are warmwater habitat.
- No aquatic species-at-risk identified through background review.
- No watercourse crossings required for construction.
- Standard Erosion and Sediment Control measures will be used during construction to minimize potential impacts to fish and fish habitat.





## Sarnia Industrial Line Phase I Reinforcement Project



### Terrestrial resources

During the course of construction, natural heritage features such as wildlife habitat and vegetated/wooded areas will need to be crossed.

- No wetlands or ANSIs were identified through background review.
- One significant woodland identified through background review.
- Vegetation communities comprised of deciduous forests, cultural communities (including meadow, thicket and woodland) and one small disturbed marsh community, none of which are rare in the province.
- Based on a review of background information, 21 species at risk (i.e. threatened or endangered provincially) are known to occur in the range of the proposed pipeline route, including 2 plants species, 1 insect, 4 reptile species, 10 species of breeding birds and 4 species of mammals.
- Of these species, Butler's Gartersnake, foraging (but not nesting), Barn Swallows, and bat species at risk may occur along the proposed pipeline route. Anticipated mitigation measures are expected to include: awareness training and exclusion fencing for Butler's Gartersnake and the use of timing windows for tree removal for bat species at risk.



Attachment 1.1

**From:** [Ken McCorkle](#)  
**To:** [Chris Plain](#); [REDACTED]  
**Cc:** [REDACTED]  
**Subject:** Union Gas Sarnia Project  
**Date:** October-15-18 12:50:11 PM  
**Attachments:** [Aamjiwnaang Notification Letter Sarnia.doc](#)  
[160961225 int Fiq01 Sarnia Background Data.pdf](#)

---

Hello Chief Plain & [REDACTED]

I trust this email finds you well!

Please see attached a letter and map regarding the Union Gas Sarnia project. Upon review if you could contact me at your convenience we can make arrangements to meet regarding this project.

Miigwetch,

Ken



Chief Christopher Plain  
Aamjiwnaang First Nation  
978 Tashmoo Avenue  
Sarnia, Ontario  
N7T 7H5

October 15, 2018

**Re: Union Gas Sarnia Expansion project**

Dear Chief Plain,

Union Gas Limited has been bringing clean, reliable, and affordable natural gas service for more than a century to over 400 communities across Ontario.

Union Gas is proposing to expand the capacity of the existing natural gas system in south Sarnia. The existing system expansion is being proposed to increase the available natural gas supply in the south Sarnia area for current and future customers. Due to the complexity of the existing infrastructure in the Sarnia area, a proposed route has not yet been developed beyond the identification of a start point and three potential end points. A map indicating these points is attached.

We would like to consult with your community on this proposed project. We are interested in your community's feedback, including any suggestions or proposals on mitigating, avoiding or accommodating any potential impacts to Aboriginal or treaty rights.

Union Gas has been delegated the procedural aspects for consultation by the Ministry of Energy on behalf of Ontario. Ministry officials are also available should you wish to contact them directly with any questions or concerns. Please contact:

Shereen Smithanik  
Senior Policy Advisor  
Ministry of Energy  
416-326-0513  
[Shereen.smithanik@ontario.ca](mailto:Shereen.smithanik@ontario.ca)

We would like to set up a meeting to discuss our project with you and provide you with an opportunity to express any questions or concerns you have. Please feel free to contact me at [kmccorkle@uniongas.com](mailto:kmccorkle@uniongas.com) or 519-365-0584 so we can set up a time to meet.

Miigwetch,

Ken McCorkle  
Manager, Indigenous Affairs  
[kmccorkle@uniongas.com](mailto:kmccorkle@uniongas.com)  
519-365-0584

Attachment 1.2

---

**From:** Ken McCorkle  
**Sent:** April-17-19 9:00 PM  
**To:** Chris Plain; [REDACTED]  
**Cc:** [REDACTED]  
**Subject:** Windsor Line Replacement and Sarnia Project!

Hello Chief Plain & [REDACTED]

I trust this email finds you well!

As per our last correspondence I am following up to request time for a consultation regarding our Windsor Line Replacement and Sarnia Projects. If you could respond with a couple of dates that will work for you I will make arrangements on my end? I will await your response!

Miigwech,  
Ken

Attachment 1.3

**From:** [Ken McCorkle](#)  
**To:** [REDACTED]  
**Cc:**  
**Subject:** FW: Windsor Line Replacement and Sarnia Project!  
**Date:** May-13-19 4:28:33 PM

---

Hello [REDACTED]

First let me say it was nice to speak with you at your recent Earth Day celebrations. The attendance was amazing and the energy in the room was fantastic!

I am just following up to confirm if you had a couple of dates I could get to book in a consultation for our Windsor and Sarnia projects?

Miigwech,  
Ken

Attachment 1.4

**From:** [REDACTED] <[REDACTED]@aamjiwnaang.ca>  
**Sent:** May-22-19 4:05 PM  
**To:** Ken McCorkle  
**Subject:** [External] Environment Committee Meeting

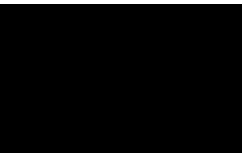
[Next](#) [Last](#)

Hello Ken,

Aamjiwnaang Environment Committee has cancelled Tuesday, June 4<sup>th</sup>, 2019 meeting and would like to reschedule with you. Can you please let me know if you're available for any of the dates listed below;

1. Tuesday, June 18, 2019 at 5:00 pm
2. Tuesday, July 9, 2019 at 5:00 pm or 5:30 pm
3. Tuesday, July 16, 2019 at 5:00 pm or 5:30 pm

Hope to hear from you soon,  
[REDACTED]



**From:** Ken McCorkle <KMccorkle@uniongas.com>  
**Sent:** Thursday, May 23, 2019 8:55 AM  
**To:** [REDACTED] <[REDACTED]@aamjiwnaang.ca>  
**Cc:** [REDACTED] <[REDACTED]@uniongas.com>  
**Subject:** RE: Environment Committee Meeting

Hello [REDACTED]

Please schedule us for June 18 @ 5PM regarding consultation for the Windsor and Sarnia Projects!

Miigwech,  
Ken

**From:** [REDACTED] <[REDACTED]@aamjiwnaang.ca>  
**Sent:** May-23-19 11:19 AM  
**To:** Ken McCorkle  
**Cc:** [REDACTED]  
**Subject:** [External] RE: Environment Committee Meeting

[Next](#) [Previous](#)

Hi Ken,

Thanks for your reply, I'll schedule for 5:00 pm on June 18, 2019. Our meeting is held at the Band Administration Building (978 Tashmoo Avenue, Sarnia, ON N7T 7H5). Can you please send me your presentation by June 12<sup>th</sup> and I will make copies for the committee.

Miigwech,  
[REDACTED]

Attachment 1.5

**From:** [Ken McCorkle](#)  
**To:** [REDACTED]  
**Cc:**  
**Subject:** Windsor Reinforcement and Sarnia Industrial Line Phase I project (Aamjiwnaang First nation)  
**Date:** June-14-19 12:27:02 PM  
**Attachments:** [IS1 Boards 20190214 fin rev-1-opt.pdf](#)  
[image.pdf](#)

---

Hello [REDACTED]

I have attached a copy of the presentations that you requested for the consultation on June 18<sup>th</sup>.  
The first attachment is the Windsor Line Reinforcement project and the 2<sup>nd</sup> attachment is the Sarnia Industrial Line Phase I Reinforcement. [REDACTED] and I are looking forward to meeting you and the committee again. We will arrive for the 5:00PM time as arranged.

Miigwech,  
Ken

Attachment 1.6

From: [REDACTED] <[REDACTED]@aamjiwnaang.ca> Sent: Tue 09/07/2019 2:16 PM  
To: Ken McCorkle  
Cc: [REDACTED]  
Subject: [External] RE: Windsor Reinforcement and Sarnia Industrial Line Phase I project (Aamjiwnaang First nation)

**EXTERNAL: PLEASE PROCEED WITH CAUTION.**

This e-mail has originated from outside of the organization. Do not respond, click on links or open attachments unless you recognize the sender or know the content is safe.

Good afternoon Ken,  
Can you please forward the formal letter sent to Aamjiwnaang regarding the two projects listed above?

Miigwech,  
[REDACTED]

[REDACTED]  
Consultation/Environment Worker  
Aamjiwnaang First Nation  
978 Tashmoo Ave.  
Sarnia, ON  
N7T 7H5  
Tel: (519) 336-8410  
Fax: (519) 336-0382  
<https://www.facebook.com/AamjiwnaangEnvironment>  
[www.aamjiwnaang.ca](http://www.aamjiwnaang.ca)

**From:** [Ken McCorkle](#)  
**To:** [REDACTED]  
**Cc:** [REDACTED]  
**Subject:** FW: Union Gas Sarnia Project  
**Date:** August-28-19 3:05:22 PM  
**Attachments:** [Aamjiwnaang Notification Letter Sarnia.doc](#)  
[160961225 int Fiq01 Sarnia Background Data.pdf](#)

Hello [REDACTED]

Please find attached a copy of the Sarnia letter and map that you requested. The attached map shows the various routes as alternatives until a final route has been decided upon. If you have any questions regarding this information please do not hesitate to contact me.

Miigwech,  
Ken



Attachment 1.7

**From:** [REDACTED]  
**To:** [REDACTED] "[CPlain@aamjiwnaang.ca](mailto:CPlain@aamjiwnaang.ca)"  
**Cc:** [REDACTED] [Ken McCorkle](#)  
**Subject:** [External] Enbridge Gas Inc. - Sarnia Industrial Line Reinforcement Project, DOW to Bluewater - Archaeology and Natural Heritage  
**Date:** August-29-19 1:46:03 PM

**EXTERNAL: PLEASE PROCEED WITH CAUTION.**

This e-mail has originated from outside of the organization. Do not respond, click on links or open attachments unless you recognize the sender or know the content is safe.

Good Afternoon [REDACTED]

Further to the notice of commencement provided in May 2019, Enbridge Gas Inc. (Enbridge Gas) is proposing to proposing to construct a new natural gas pipeline between Enbridge Gas' existing Dow Valve Site and the existing Enbridge Gas Bluewater Interconnect Transmission Station in the Township of St. Clair. The proposed pipeline will be 20-inches in diameter, and approximately 1.2 km in length. Construction of the pipeline could begin as early as spring/summer 2021 and be complete by the end of 2021.

To support the project, Stantec Consulting Ltd. (Stantec) will be initiating a Stage 2 archaeological assessment to identify archaeological resources which may be impacted by the construction and operation of the proposed pipeline. Stantec will also be initiating natural heritage studies to support the project. Dependent on weather conditions, the archaeological survey work and natural heritage studies are tentatively scheduled for late September 2019. It is anticipated that Stage 2 assessment will continue in 2020 once conditions are adequate for survey. We welcome the opportunity to include a member of your community on the archaeological survey team and the natural heritage survey team. If a member wishes to participate, please let us know at your earliest convenience so that we can work through the logistics of a contract. [REDACTED] will be leading the archaeological surveys for the project, and will be your point-of-contact for any archaeological assessment details. [REDACTED] will be leading the natural heritage surveys for the project, and will be your point-of-contact for any natural heritage survey details. Once an agreement has been reached, Stantec will reach out with further details regarding a meeting time, place, and required personal protective equipment for the archaeological and natural heritage surveys.

On behalf of Enbridge Gas and Stantec, we look forward to working with you on this project.

Looking forward to hearing from you!  
Thanks,

[REDACTED]  
Associate, Senior Archaeologist  
Environmental Services

*Ken McCorkle*  
Sr Advisor, Indigenous Affairs  
Enbridge Gas Inc. :Operating as Union Gas

Attachment 2.1

**From:** [Ken McCorkle](#)  
**To:** [jason.henry@kettlepoint.org](mailto:jason.henry@kettlepoint.org); [REDACTED]  
**Cc:** [REDACTED]  
**Subject:** Union Gas Sarnia Project!  
**Date:** October-15-18 1:04:13 PM  
**Attachments:** [Chippewa of Kettle and Stony Point FN Sarnia expansion.doc](#)  
[160961225 int Fiq01 Sarnia Background Data.pdf](#)

---

Hello Chief Henry & [REDACTED]

I trust this email finds you well!

Please see attached a letter and map regarding the Union Gas Sarnia project. Upon review if you could contact me at your convenience we can make arrangements to meet regarding this project.

Miigwetch,  
Ken

*Ken McCorkle*

Manager, Indigenous Affairs  
Union Gas Ltd.

Phone: 519-436-4600 Ext.5002243

Cell; 519-365-0584

Toll Free: 877-293-6215

Fax; 519-436-5392

Email: [kmccorkle@uniongas.com](mailto:kmccorkle@uniongas.com)

We can't change the past, but we can influence our future



Chief Jason Henry  
Chippewas of Kettle and Stony Point First Nation  
6247 Indian Lane  
Kettle and Stony Point First Nation, ON  
N0N 1J0

October 15, 2018

**Re: Union Gas Sarnia Expansion project**

Dear Chief Henry,

Union Gas Limited has been bringing clean, reliable, and affordable natural gas service for more than a century to over 400 communities across Ontario.

Union Gas is proposing to expand the capacity of the existing natural gas system in south Sarnia. The existing system expansion is being proposed to increase the available natural gas supply in the south Sarnia area for current and future customers. Due to the complexity of the existing infrastructure in the Sarnia area, a proposed route has not yet been developed beyond the identification of a start point and three potential end points. A map indicating these points is attached.

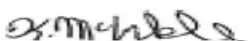
We would like to consult with your community on this proposed project. We are interested in your community's feedback, including any suggestions or proposals on mitigating, avoiding or accommodating any potential impacts to Aboriginal or treaty rights.

Union Gas has been delegated the procedural aspects for consultation by the Ministry of Energy on behalf of Ontario. Ministry officials are also available should you wish to contact them directly with any questions or concerns. Please contact:

Shereen Smithanik  
Senior Policy Advisor  
Ministry of Energy  
416-326-0513  
Shereen.smithanik@ontario.ca

We would like to set up a meeting to discuss our project with you and provide you with an opportunity to express any questions or concerns you have. Please feel free to contact me at [kmccorkle@uniongas.com](mailto:kmccorkle@uniongas.com) or 519-365-0584 so we can set up a time to meet.

Miigwetch,

  
Ken McCorkle

Attachment 2.2

**From:** [REDACTED]@kettlepoint.org]

**Sent:** November-01-18 11:42 AM

**To:** Ken McCorkle

**Subject:** [External] Schedule to Meet?

Good morning Ken

Hope you escaped the wrath of ghouls last evening.

I'm wondering if we can schedule to meet as discussed previously. I won't be available until after November 12<sup>th</sup>. Actually, other than Nov 14<sup>th</sup>, the rest of November is clear which is strange. At least thus far.

Let me know which date(s) work for you.

Just to let you know, capacity funding will a part of the discussions.

And, it's likely that it will just be myself there unless the portfolios are decided on for the Committee.

Thank you.

[REDACTED]  
Consultation Officer  
Chippewas of Kettle & Stony Point First Nation  
Phone: (519) 786-2125  
Email: [REDACTED]@kettlepoint.org

**From:** Ken McCorkle [mailto:KMcCorkle@uniongas.com]

**Sent:** November-01-18 1:08 PM

**To:** [REDACTED]@kettlepoint.org>

**Subject:** RE: Schedule to Meet?

Hello [REDACTED]

Thank you for the follow up email. Would Tuesday November 13<sup>th</sup> at 11:00 work for you?

Ken

*Ken McCorkle*

Manager, Indigenous Affairs  
Union Gas Ltd.

Phone: 519-436-4600 Ext.5002243

Cell; 519-365-0584

Toll Free: 877-293-6215

Fax; 519-436-5392

Email: [kmccorkle@uniongas.com](mailto:kmccorkle@uniongas.com)

We can't change the past, but we can influence our future

... You replied to this message on 02/23/2018 at 1:18 PM

---

From: [REDACTED]@kettlepoint.org> Sent: Thu 01/11/2018 1:18 PM  
To: Ken McCorkle  
Cc:  
Subject: [External] RE: Schedule to Meet?

It certainly works okay for me. I've booked the Council Chambers.  
See you November 13<sup>th</sup> at 11:00am, unless I hear otherwise.

[REDACTED]

Attachment 2.3

From: [REDACTED]@kettlepoint.org> Sent: Tue 13/11/2018 8:08 AM  
To: Ken McCorkle  
Cc:  
Subject: [External] Postponing meeting

Hi Ken. My committee has been selected so I'd like to reschedule for them to be present. Sorry for any inconvenience.  
[REDACTED]

Sent from my Samsung Galaxy smartphone.

Attachment 2.4

**From:** [Ken McCorkle](#)  
**To:** [Jason Henry](#); [REDACTED] [@kettlepoint.org](#)  
**Cc:** [REDACTED]  
**Subject:** Windsor Line Replacement and Sarnia Projects!  
**Date:** April-17-19 9:19:39 PM

---

Hello Chief Henry, Clint and Valerie:

I trust this email finds you well!

As per our last correspondence I am following up to request time for a consultation regarding our Windsor Line Replacement and Sarnia Projects. If you could respond with a couple of dates that will work for you I will make arrangements on my end? I will await your response!

Miigwech,  
Ken

**From:** [REDACTED] [Next](#) [Previous](#)  
**Sent:** April-18-19 11:14 AM  
**To:** Ken McCorkle <[KMcCorkle@uniongas.com](mailto:KMcCorkle@uniongas.com)>; Jason Henry <[Jason.Henry@kettlepoint.org](mailto:Jason.Henry@kettlepoint.org)>; [REDACTED] [@kettlepoint.org](#)>  
**Cc:** [REDACTED]  
**Subject:** RE: Windsor Line Replacement and Sarnia Projects!

Hi Ken,  
Can something on May 2, or May 9 work?  
Thanks,

[REDACTED]

First Nation Manager/CEO  
Chippewas of Kettle and Stony Point First Nation  
W 519-786-2125  
C 519-333-9249

**From:** [REDACTED]@kettlepoint.org]  
**Sent:** April-23-19 10:10 AM  
**To:** [REDACTED]; Ken McCorkle; Jason Henry  
**Cc:** [REDACTED]  
**Subject:** [External] RE: Windsor Line Replacement and Sarnia Projects!

Good morning everyone

I am not available on the 9<sup>th</sup>, and I'm waiting to hear from CKSPFN's Consultation and Accommodation Committee for their participation. May 2<sup>nd</sup> is still a possibility.  
I will re-issue communication with them and let you know as soon as possible.  
Thank you.

[REDACTED]



Attachment 2.5

From: Ken McCorkle  
To: [REDACTED]  
Cc: Lauren Whitwham  
Subject: FW: Windsor Line Replacement and Sarnia Projects!

Sent: Mon 13/05/2019 4:12 PM



Hello [REDACTED]  
Just following up if you had a couple of dates you could forward for a consultation regarding the Windsor and Sarnia projects?

Miigwech,  
Ken

*Ken McCorkle*  
Sr Advisor, Indigenous Affairs  
Enbridge Gas Inc. :Operating as Union Gas  
Phone: 519-436-4600 Ext.5002243  
Cell; 519-365-0584  
Toll Free: 877-293-6215  
Email: [kmccorkle@uniongas.com](mailto:kmccorkle@uniongas.com)  
We can't change the past, but we can influence our future

---

**From:** [REDACTED] [@kettlepoint.org](mailto:[REDACTED]@kettlepoint.org)  
**Sent:** May-13-19 4:20 PM  
**To:** Ken McCorkle  
**Subject:** [External] RE: Windsor Line Replacement and Sarnia Projects!

Hi Ken

Can I throw out May 30 or 31<sup>st</sup>? Would either of those dates work for you?

[REDACTED]

---

**From:** Ken McCorkle [\[mailto:KMccorkle@uniongas.com\]](mailto:KMccorkle@uniongas.com)  
**Sent:** May-13-19 4:26 PM  
**To:** [REDACTED] [@kettlepoint.org](mailto:[REDACTED]@kettlepoint.org)>  
**Subject:** RE: Windsor Line Replacement and Sarnia Projects!

Hello [REDACTED]  
Would May 30<sup>th</sup> at 10AM work for you? Or another time better that day?

Ken

---

**From:** [REDACTED]@kettlepoint.org]  
**Sent:** May 15, 2019 4:29 PM  
**To:** Ken McCorkle  
**Subject:** [External] RE: Windsor Line Replacement and Sarnia Projects!

It would work for me. I'll "ink" it in. In the meantime, if you could send the projects again with updates that would be beneficial. Don't forget, there will be fees for the meeting. Honorarium for participants and meeting facility fee. If you have any questions please let me know.

Attachment 2.6

---

**From:** [REDACTED]@kettlepoint.org]  
**Sent:** May-28-19 10:33 PM  
**To:** Ken McCorkle  
**Subject:** [External] Postponement of May 30 2019 mtg

Hi Ken

I'm postponing the meeting on Thursday. I'll reschedule once I can.

[REDACTED]

Attachment 2.7

From: Ken McCorkle  
To: [REDACTED]  
Cc: Lauren Whitvham  
Subject: RE: Windsor Line Replacement and Sarnia Projects!

Sent: Thu 06/06/2019 3:00 PM

Hello [REDACTED]  
I am just following up to see if you had another date we could meet to discuss the Windsor and Sarnia Projects?

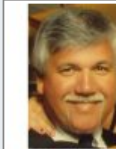
Miigwech,  
Ken

*Ken McCorkle*

Attachment 2.8

From: Ken McCorkle  
To: [REDACTED]  
Cc: [REDACTED]  
Subject: Windsor and Sarnia Projects!

Sent: Mon 24/06/2019 3:56 PM



Hello [REDACTED]

I trust this finds you well!

I am just following up from our last conversation to confirm if you had a couple of dates you could forward so that we could update you on the above two projects? I will await your response!

I know you are working on getting a monitor for the Windsor project.

Miigwech,  
Ken

*Ken McCorkle*

Sr Advisor, Indigenous Affairs

Enbridge Gas Inc. :Operating as Union Gas

Phone: 519-436-4600 Ext.5002243

Cell: 519-365-0584

Toll Free: 877-293-6215


Email: [kmccorkle@uniongas.com](mailto:kmccorkle@uniongas.com)

We can't change the past, but we can influence our future

Attachment 2.9

From: Ken McCorkle  
To: [REDACTED]  
Cc: [REDACTED]  
Subject: FW: Windsor and Sarnia Projects!

Sent: Tue 09/07/2019 2:52 PM



Hello [REDACTED]  
I am just following up to confirm if you had sometime to meet and discuss these two projects? Thank you for your responses to having monitors available. I will await your response.

Miigwech,  
Ken

*Ken McCorkle*  
Sr Advisor, Indigenous Affairs  
Enbridge Gas Inc. : Operating as Union Gas  
Phone: 519-436-4600 Ext.5002243

From: [REDACTED] <kettlepoint.org>  
To: Ken McCorkle  
Cc: [REDACTED]  
Subject: [External] RE: Windsor and Sarnia Projects!

Sent: Tue 09/07/2019 4:12

**EXTERNAL: PLEASE PROCEED WITH CAUTION.**

This e-mail has originated from outside of the organization. Do not respond, click on links or open attachments unless you recognize the sender or know the content is safe.

Forgot to let you know, referring back to your June 24<sup>th</sup> email, CKSPFN will not be sending a monitor to the Windsor Project, or likely the Sarnia project. I'll be speaking to the Committee on it. The proposed process was much too timely, and frustrating.

Also, there will of course be costs incurred for the meeting later in July. Should be between 475.00 – 600.00. Capacity and facility fee.

[REDACTED]

Attachment 2.10

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**From:** [REDACTED]@kettlepoint.org]  
**Sent:** July-11-19 8:56 AM  
**To:** Ken McCorkle  
**Subject:** [External] Sarnia Windsor Projects

**EXTERNAL: PLEASE PROCEED WITH CAUTION.**

This e-mail has originated from outside of the organization. Do not respond, click on links or open attachments unless you recognize the sender or know the content is safe.

Good morning Ken

I have a couple of dates in July to meet. Unfortunately, they aren't what you were opting for. The dates we have are July 26 or 30<sup>th</sup>. Otherwise it may have to wait until August which I understand is wide open to-date.

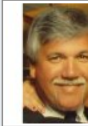
Let me know your thoughts.

Thank you.

[REDACTED]  
Consultation Officer  
Chippewas of Kettle & Stony Point First Nation  
Phone: (519) 786-2125  
Email: [REDACTED]@kettlepoint.org

From: Ken McCorkle  
To: [REDACTED]  
Cc: [REDACTED]  
Subject: RE: Sarnia Windsor Projects

Sent: Sat 13/07/2019 10:25 AM



Message [REDACTED] IS1\_Boards\_20190214\_fin\_rev-1-opt.pdf (13 MB) [REDACTED] Sarnia Industrial Project.pdf (2 MB)

Hello [REDACTED]

Thank you for the response as we follow up with you regarding the Windsor and Sarnia projects. Would you have a time that we could meet during the week of August 12<sup>th</sup>?

I have enclosed a copy of the Windsor project (Attachment #1) and a copy of the Sarnia Project (Attachment #2) for your review. If there are any questions in the interim please do not hesitate to contact me. Looking forward to your response.

Miigwech  
Ken

*Ken McCorkle*

Sr Advisor, Indigenous Affairs  
Enbridge Gas Inc. : Operating as Union Gas  
Phone: 519-436-4600 Ext.5002243  
Cell: 519-365-0584  
Toll Free: 877-293-6215  
Email: [kmccorkle@uniongas.com](mailto:kmccorkle@uniongas.com)  
We can't change the past, but we can influence our future

---

From: [REDACTED]@kettlepoint.org]  
Sent: August-01-19 1:16 PM  
To: Ken McCorkle  
Cc: [REDACTED]  
Subject: [External] RE: Sarnia Windsor Projects

**EXTERNAL: PLEASE PROCEED WITH CAUTION.**

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Good afternoon Ken

The Committee has available August 12 or 13<sup>th</sup>. Might either of these days work for you?

[REDACTED]



**From:** [Ken McCorkle](#)  
**To:** [REDACTED]  
**Cc:**  
**Subject:** RE: Sarnia Windsor Projects  
**Date:** August-01-19 2:46:56 PM

---

Hello Val:

Thank you for your response! August 12<sup>th</sup> will work.....do you have a time that works for you on the 12<sup>th</sup>?

Ken

From: [REDACTED]@kettlepoint.org> Sent: Thu 01/08/2019 4:36 PM  
To: Ken McCorkle  
Cc: [REDACTED]  
Subject: [External] RE: Sarnia Windsor Projects

**EXTERNAL: PLEASE PROCEED WITH CAUTION.**  
This e-mail has originated from outside of the organization. Do not respond, click on links or open attachments unless you recognize the sender or know the content is safe.

Hello Ken

Ideally, Monday August 12<sup>th</sup> at 1:30pm works for us.  
The meeting location would be the Council Chambers.

Can you confirm that this works for you?

[REDACTED]

From: Ken McCorkle Sent: Thu 01/08/2019 4:43 PM  
To: [REDACTED]  
Cc:  
Subject: RE: Sarnia Windsor Projects

Hello [REDACTED]

Yes Monday August 12<sup>th</sup> @ 1:30 in the Council Chambers will work!  
Thanks for responding and looking forward to meeting you again,

Miigwech,  
Ken

Attachment 2.11

From: [Ken McCorkle](#)  
To: [REDACTED]  
Cc: [REDACTED]  
Subject: Sarnia Reinforcement Project  
Date: August-14-19 2:25:30 PM

---

Hello [REDACTED]

First let me say thank you for your kindness and respect shown in our last consultation meeting regarding the Sarnia Reinforcement project. Your committee asked the following questions that I needed to follow up on. Please see the questions asked and my follow up:

1) Regarding the above mentioned project what species at risk mammals could be affected by the pipeline?

This list was provided by the MNRF/MECP and may be based on old records. Of the four species listed below three are bats and one is Grey Fox. The known distribution for Grey Fox in Ontario is Rainy River (near Lake Superior) and Pelee Island; I'm not sure why the MNRF/MECP included it on the list but is highly unlikely to be present.

Gray Fox	<a href="#">Urocyon cinereoargenteus</a>	S1	THR	
Little Brown Myotis	<a href="#">Myotis lucifugus</a>	S4	END	END
Northern Myotis	<a href="#">Myotis septentrionalis</a>	S3?	END	END
Eastern Small-footed Myotis	<a href="#">Myotis leibii</a>	S2S3	END	END

2) What do you mean by the word Legacy?

The word Legacy has two meanings in our current work environment regarding Natural Gas. The first definition of Legacy when speaking about construction refers to existing pipe in the ground that is inactive. The second definition of Legacy refers to the Union Gas and Enbridge Gas Distribution merging to form one company called Enbridge Gas Inc.. Therefore the two previous entities are now referred to as Legacy Union and Legacy EGD for purposes of identification of assets and work product.

3) Stantec has requested proof of Driver's License and personal insurance for First Nation monitors. Can this be modified as the First Nation sees this as a violation of rights?  
I spoke with Stantec and they will forward you a new agreement that removes that requirement.

Thank you for your questions and if you require any further information please do not hesitate to contact me at your convenience. Regarding our last discussion I will wait to hear from you to schedule a meeting in late September or early October for further discussion.

Miigwech,  
Ken

Attachment 2.12

**From:** [REDACTED]  
**To:** [REDACTED] [@kettlepoint.org](mailto:[REDACTED]@kettlepoint.org)  
**Cc:** [REDACTED] [Ken.McCorkle](mailto:Ken.McCorkle@uniongas.com)  
**Subject:** [External] Enbridge Gas Inc. - Sarnia Industrial Line Reinforcement Project, DOW to Bluewater - Archaeology and Natural Heritage  
**Date:** August-29-19 1:46:09 PM

**EXTERNAL: PLEASE PROCEED WITH CAUTION.**

This e-mail has originated from outside of the organization. Do not respond, click on links or open attachments unless you recognize the sender or know the content is safe.

Good Afternoon [REDACTED]

Further to the notice of commencement provided in May 2019, Enbridge Gas Inc. (Enbridge Gas) is proposing to construct a new natural gas pipeline between Enbridge Gas' existing Dow Valve Site and the existing Enbridge Gas Bluewater Interconnect Transmission Station in the Township of St. Clair. The proposed pipeline will be 20-inches in diameter, and approximately 1.2 km in length. Construction of the pipeline could begin as early as spring/summer 2021 and be complete by the end of 2021.

To support the project, Stantec Consulting Ltd. (Stantec) will be initiating a Stage 2 archaeological assessment to identify archaeological resources which may be impacted by the construction and operation of the proposed pipeline. Stantec will also be initiating natural heritage studies to support the project. Dependent on weather conditions, the archaeological survey work and natural heritage studies are tentatively scheduled for late September 2019. It is anticipated that Stage 2 assessment will continue in 2020 once conditions are adequate for survey. We welcome the opportunity to include a member of your community on the archaeological survey team and the natural heritage survey team. If a member wishes to participate, please let us know at your earliest convenience so that we can work through the logistics of a contract. [REDACTED] will be leading the archaeological surveys for the project, and will be your point-of-contact for any archaeological assessment details. [REDACTED] will be leading the natural heritage surveys for the project, and will be your point-of-contact for any natural heritage survey details. Once an agreement has been reached, Stantec will reach out with further details regarding a meeting time, place, and required personal protective equipment for the archaeological and natural heritage surveys.

On behalf of Enbridge Gas and Stantec, we look forward to working with you on this project.

Looking forward to hearing from you!

Thanks,

[REDACTED]  
Associate, Senior Archaeologist  
Environmental Services

Direct: 519-675-6640  
Cell: 226-268-7196  
Stantec  
600-171 Queens Avenue

*Ken McCorkle*

Sr Advisor, Indigenous Affairs  
Enbridge Gas Inc. :Operating as Union Gas  
Phone: 519-436-4600 Ext.5002243  
Cell; 519-365-0584  
Toll Free: 877-293-6215  
Email: [kmccorkle@uniongas.com](mailto:kmccorkle@uniongas.com)

Attachment 3.1

**From:** [Ken McCorkle](#)  
**To:** [Myeengun Henry](#); [REDACTED]  
**Cc:** [REDACTED]  
**Subject:** Union Gas Sarnia Project!  
**Date:** October-15-18 12:59:17 PM  
**Attachments:** [Chippewa of the Thames FN Sarnia Expansion.doc](#)  
[160961225 int Fiq01 Sarnia Background Data.pdf](#)

---

Hello Chief Henry, [REDACTED]

I trust this email finds you well!

Please see attached a letter and map regarding the Union Gas Sarnia project. Upon review if you could contact me at your convenience we can make arrangements to meet regarding this project.

Miigwetch,  
Ken



Chief Myeengun Henry  
Chippewas of the Thames First Nation  
320 Chippewa Road  
Muncey, ON N0L1Y0

October 15, 2018

**Re: Union Gas Sarnia Expansion project**

Dear Chief Henry,

Union Gas Limited has been bringing clean, reliable, and affordable natural gas service for more than a century to over 400 communities across Ontario.

Union Gas is proposing to expand the capacity of the existing natural gas system in south Sarnia. The existing system expansion is being proposed to increase the available natural gas supply in the south Sarnia area for current and future customers. Due to the complexity of the existing infrastructure in the Sarnia area, a proposed route has not yet been developed beyond the identification of a start point and three potential end points. A map indicating these points is attached.

We would like to consult with your community on this proposed project. We are interested in your community's feedback, including any suggestions or proposals on mitigating, avoiding or accommodating any potential impacts to Aboriginal or treaty rights.

Union Gas has been delegated the procedural aspects for consultation by the Ministry of Energy on behalf of Ontario. Ministry officials are also available should you wish to contact them directly with any questions or concerns. Please contact:

Shereen Smithanik  
Senior Policy Advisor  
Ministry of Energy  
416-326-0513  
Shereen.smithanik@ontario.ca

We would like to set up a meeting to discuss our project with you and provide you with an opportunity to express any questions or concerns you have. Please feel free to contact me at [kmccorkle@uniongas.com](mailto:kmccorkle@uniongas.com) or 519-365-0584 so we can set up a time to meet.

Miigwetch,

Ken McCorkle  
Manager, Indigenous Affairs  
[kmccorkle@uniongas.com](mailto:kmccorkle@uniongas.com)  
519-365-0584

Attachment 3.2

**From:** Ken McCorkle <[KMccCorkle@uniongas.com](mailto:KMccCorkle@uniongas.com)>  
**Sent:** May 9, 2019 9:01 AM  
**To:** [REDACTED] <[\[REDACTED\]@cottfn.com](mailto:[REDACTED]@cottfn.com)>  
**Cc:** [REDACTED] <[\[REDACTED\]@uniongas.com](mailto:[REDACTED]@uniongas.com)>  
**Subject:** Consultation for the Windsor Project

Hello [REDACTED]

Would you have a couple of dates you could offer to meet for a consultation regarding the Windsor and Sarnia projects?

Miigwech,  
Ken

**From:** [REDACTED] <[\[REDACTED\]@cottfn.com](mailto:[REDACTED]@cottfn.com)>  
**Sent:** May-09-19 9:44 AM  
**To:** Ken McCorkle  
**Subject:** [External] RE: Consultation for the Windsor Project

Good morning Ken,

We are booking for June, as of right now I am available June 10<sup>th</sup>, 11<sup>th</sup> or 14<sup>th</sup> and am free the week of 17<sup>th</sup> – 20<sup>th</sup> 10 am – 12 or 1:30- 3. Please let me know what date and time works best and I will schedule you in.

Look forward to seeing you,



[REDACTED]  
**Consultation Coordinator, Chippewas of the Thames First Nation**  
320 Chippewa Rd Muncey, ON N0L 1Y0 | 519-289-5555 | [www.cottfn.com/consultation](http://www.cottfn.com/consultation)

This email or documents accompanying this email contain information belonging to the Chippewas of the Thames First Nation. Which may be confidential and/or legally privileged. The information is intended only for the addressed recipient(s). If you are not an intended recipient, you are hereby notified that any disclosure, copying, distribution, or the taking of any action in reliance on the contents of this email. Is strictly prohibited. If you have received this email in error, please advise my office and delete it from your system.

From: Ken McCorkle  
To: [REDACTED]  
Cc: [REDACTED]  
Subject: RE: Consultation for the Windsor Project

Sent: Fri 10/05/2019 3:29 PM



Hello [REDACTED]

Thank you for the return email. We would like to book June 17<sup>th</sup> @ 10AM with you for a presentation of the Windsor and Sarnia projects? Please confirm and we will put it in our calendars!

Miigwech  
Ken

Attachment 3.3

**From:** [REDACTED]  
**To:** [REDACTED] [bcottfn.com](mailto:bcottfn.com)  
**Cc:** [REDACTED] [Ken McCorkle](#)  
**Subject:** Enbridge Gas Inc. - Samia Industrial Line Reinforcement Project, DOW to Bluewater - Archaeology and Natural Heritage

---

Good Afternoon [REDACTED]

Further to the notice of commencement provided in May 2019, Enbridge Gas Inc. (Enbridge Gas) is proposing to proposing to construct a new natural gas pipeline between Enbridge Gas' existing Dow Valve Site and the existing Enbridge Gas Bluewater Interconnect Transmission Station in the Township of St. Clair. The proposed pipeline will be 20-inches in diameter, and approximately 1.2 km in length. Construction of the pipeline could begin as early as spring/summer 2021 and be complete by the end of 2021.

To support the project, Stantec Consulting Ltd. (Stantec) will be initiating a Stage 2 archaeological assessment to identify archaeological resources which may be impacted by the construction and operation of the proposed pipeline. Stantec will also be initiating natural heritage studies to support the project. Dependent on weather conditions, the archaeological survey work and natural heritage studies are tentatively scheduled for late September 2019. It is anticipated that Stage 2 assessment will continue in 2020 once conditions are adequate for survey. We welcome the opportunity to include a member of your community on the archaeological survey team and the natural heritage survey team. If a member wishes to participate, please let us know at your earliest convenience so that we can work through the logistics of a contract. [REDACTED] will be leading the archaeological surveys for the project, and will be your point-of-contact for any archaeological assessment details [REDACTED] will be leading the natural heritage surveys for the project, and will be your point-of-contact for any natural heritage survey details. Once an agreement has been reached, Stantec will reach out with further details regarding a meeting time, place, and required personal protective equipment for the archaeological and natural heritage surveys.

On behalf of Enbridge Gas and Stantec, we look forward to working with you on this project.

Looking forward to hearing from you!  
Thanks,

[REDACTED]  
Associate, Senior Archaeologist  
Environmental Services

*Ken McCorkle*  
Sr Advisor, Indigenous Affairs  
Enbridge Gas Inc. :Operating as Union Gas



Attachment 4.1

**From:** [Ken McCorkle](#)  
**To:** [jessica.hill@oneida.on.ca](mailto:jessica.hill@oneida.on.ca); [REDACTED]@oneida.on.ca  
**Cc:** [REDACTED]  
**Subject:** Union Gas Sarnia Project!  
**Date:** October-15-18 1:07:51 PM  
**Attachments:** [Oneida Nation of the Thames FN Sarnia Expansion.doc](#)  
[160961225 int Fiq01 Sarnia Background Data.pdf](#)

---

Hello Chief Hill & [REDACTED]

I trust this email finds you well!

Please see attached a letter and map regarding the Union Gas Sarnia project. Upon review if you could contact me at your convenience we can make arrangements to meet regarding this project.

Miigwetch,  
Ken



Chief Jessica Hill  
Oneida Nation of the Thames  
RR 2  
Southwold, ON N0L 2G0

October 15, 2018

Re: Union Gas Sarnia Expansion project

Dear Chief Hill,

Union Gas Limited has been bringing clean, reliable, and affordable natural gas service for more than a century to over 400 communities across Ontario.

Union Gas is proposing to expand the capacity of the existing natural gas system in south Sarnia. The existing system expansion is being proposed to increase the available natural gas supply in the south Sarnia area for current and future customers. Due to the complexity of the existing infrastructure in the Sarnia area, a proposed route has not yet been developed beyond the identification of a start point and three potential end points. A map indicating these points is attached.

We would like to consult with your community on this proposed project. We are interested in your community's feedback, including any suggestions or proposals on mitigating, avoiding or accommodating any potential impacts to Aboriginal or treaty rights.

Union Gas has been delegated the procedural aspects for consultation by the Ministry of Energy on behalf of Ontario. Ministry officials are also available should you wish to contact them directly with any questions or concerns. Please contact:

Shereen Smithanik  
Senior Policy Advisor  
Ministry of Energy  
416-326-0513  
[Shereen.smithanik@ontario.ca](mailto:Shereen.smithanik@ontario.ca)

We would like to set up a meeting to discuss our project with you and provide you with an opportunity to express any questions or concerns you have. Please feel free to contact me at [kmccorkle@uniongas.com](mailto:kmccorkle@uniongas.com) or 519-365-0584 so we can set up a time to meet.

Miigwetch,

Ken McCorkle  
Manager, Indigenous Affairs  
[kmccorkle@uniongas.com](mailto:kmccorkle@uniongas.com)  
519-365-0584

Attachment 4.2

**From:** Ken McCorkle [<mailto:KMcCorkle@uniongas.com>]  
**Sent:** April-17-19 9:10 PM  
**To:** Chief Jessica Hill; [REDACTED]  
**Cc:** [REDACTED]  
**Subject:** Windsor Line Replacement and Sarnia Projects!

Hello

I trust this email finds you well!

As per our last correspondence I am following up to request time for a consultation regarding our Windsor Line Replacement and Sarnia Projects. If you could respond with a couple of dates that will work for you I will make arrangements on my end? I will await your response!

Miigwech,  
Ken

*Ken McCorkle*  
Sr Advisor, Indigenous Affairs  
Enbridge Gas Inc. :Operating as Union Gas  
Phone: 540 428 4600 Ext 5002242

**From:** Oneida Environment [<mailto:environment@oneida.on.ca>]  
**Sent:** April-18-19 10:21 AM  
**To:** Ken McCorkle; Chief Jessica Hill  
**Cc:** [REDACTED]  
**Subject:** [External] RE: Windsor Line Replacement and Sarnia Projects!

Sheko:li Ken,

Yes, tentative dates for Oneida Chief and Council meetings for May are as follows;

Monday May 6<sup>th</sup>, 6pm  
Monday May 13<sup>th</sup>, 6pm  
Saturday May 25<sup>th</sup>, 9am

Please let me know which dates work for you and I can get that scheduled.

Thank you, have a great day

[REDACTED]  
*Environment Coordinator  
Oneida Public Works  
2706 Nicholas Rd, Oneida  
(519)-652-6922*

Attachment 4.3

**From:** Ken McCorkle [<mailto:KMccorkle@uniongas.com>]  
**Sent:** April-24-19 4:01 PM  
**To:** Oneida Environment; Chief Jessica Hill  
**Cc:** [REDACTED]  
**Subject:** RE: Windsor Line Replacement and Sarnia Projects!

Hello [REDACTED]  
Myself and our Environmental planner can attend on May 6<sup>th</sup> at 6PM to present on the Windsor and Sarnia projects. If you could set aside one hour this will cover it off for us. I am working with our Engineer to bring a presentation regarding possibly bringing Natural Gas to the Reserve. We can discuss an appropriate date on the May 6th meeting if you like?  
I will await your confirmation on the May 6<sup>th</sup> time?

Miigwech,  
Ken

**From:** Oneida Environment [<mailto:environment@oneida.on.ca>]  
**Sent:** April-25-19 1:40 PM  
**To:** Ken McCorkle; Chief Jessica Hill  
**Cc:** [REDACTED]  
**Subject:** [External] RE: Windsor Line Replacement and Sarnia Projects!

Hello Ken

That is great, I have arranged for you to present to Chief and Council on May 6<sup>th</sup> at 6:15pm for 1 hour. And yes, we can have a preliminary discussion about potential projects and see if they are interested at meeting, and then bring back actual presentation afterwards.

Yaw^ko,

*Brandon Doxtator  
Environment and Consultation Coordinator  
Oneida Public Works  
2706 Nicholas Rd, Oneida  
(519)-652-6922*

**From:** Ken McCorkle  
**To:** Oneida Environment; Chief Jessica Hill  
**Cc:** [REDACTED]  
**Subject:** RE: Windsor Line Replacement and Sarnia Projects!

**Sent:** Thu 25/04/2019 4:51 PM

Hello [REDACTED]  
Thank you and we will see you on the 6<sup>th</sup> at 6:15,

Miigwech,  
Ken

Attachment 4.3

**From:** [REDACTED]  
**To:** [Oneida Environment; Chief Jessica Hill](#)  
**Cc:** [REDACTED] [Ken McCorkle](#)  
**Subject:** [External] Enbridge Gas Inc. - Sarnia Industrial Line Reinforcement Project, DOW to Bluewater - Archaeology and Natural Heritage  
**Date:** August-29-19 1:45:35 PM

**EXTERNAL: PLEASE PROCEED WITH CAUTION.**

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Good Afternoon,

Further to the notice of commencement provided in May 2019, Enbridge Gas Inc. (Enbridge Gas) is proposing to proposing to construct a new natural gas pipeline between Enbridge Gas' existing Dow Valve Site and the existing Enbridge Gas Bluewater Interconnect Transmission Station in the Township of St. Clair. The proposed pipeline will be 20-inches in diameter, and approximately 1.2 km in length. Construction of the pipeline could begin as early as spring/summer 2021 and be complete by the end of 2021.

To support the project, Stantec Consulting Ltd. (Stantec) will be initiating a Stage 2 archaeological assessment to identify archaeological resources which may be impacted by the construction and operation of the proposed pipeline. Stantec will also be initiating natural heritage studies to support the project. Dependent on weather conditions, the archaeological survey work and natural heritage studies are tentatively scheduled for late September 2019. It is anticipated that Stage 2 assessment will continue in 2020 once conditions are adequate for survey. We welcome the opportunity to include a member of your community on the archaeological survey team and the natural heritage survey team. If a member wishes to participate, please let us know at your earliest convenience so that we can work through the logistics of a contract. [REDACTED] will be leading the archaeological surveys for the project, and will be your point-of-contact for any archaeological assessment details. [REDACTED] will be leading the natural heritage surveys for the project, and will be your point-of-contact for any natural heritage survey details. Once an agreement has been reached, Stantec will reach out with further details regarding a meeting time, place, and required personal protective equipment for the archaeological and natural heritage surveys.

On behalf of Enbridge Gas and Stantec, we look forward to working with you on this project.

Looking forward to hearing from you!  
Thanks,

[REDACTED]  
Associate, Senior Archaeologist  
Environmental Services

*Ken McCorkle*  
Sr Advisor, Indigenous Affairs  
Enbridge Gas Inc. :Operating as Union Gas

Attachment 5.1

**From:** [Ken McCorkle](#)  
**To:** [Dan Miskokomon](#); [REDACTED]  
**Cc:** [REDACTED]  
**Subject:** Union Gas Sarnia Project!  
**Date:** October-15-18 12:54:57 PM  
**Attachments:** [Walpole Island Sarnia Expansion.doc](#)  
[160961225 int Fiq01 Sarnia Background Data.pdf](#)

---

Hello Chief Miskokomon, [REDACTED]

I trust this email finds you well!

Please see attached a letter and map regarding the Union Gas Sarnia project. Upon review if you could contact me at your convenience we can make arrangements to meet regarding this project.

Miigwetch,

Ken



Chief Dan Miskokomon  
Walpole Island First Nation  
RR#3  
Walpole Island, ON N8A4K9

October 15, 2018

**Re: Union Gas Sarnia Expansion project**

Dear Chief Miskokomon,

Union Gas Limited has been bringing clean, reliable, and affordable natural gas service for more than a century to over 400 communities across Ontario.

Union Gas is proposing to expand the capacity of the existing natural gas system in south Sarnia. The existing system expansion is being proposed to increase the available natural gas supply in the south Sarnia area for current and future customers. Due to the complexity of the existing infrastructure in the Sarnia area, a proposed route has not yet been developed beyond the identification of a start point and three potential end points. A map indicating these points is attached.

We would like to consult with your community on this proposed project. We are interested in your community's feedback, including any suggestions or proposals on mitigating, avoiding or accommodating any potential impacts to Aboriginal or treaty rights.

Union Gas has been delegated the procedural aspects for consultation by the Ministry of Energy on behalf of Ontario. Ministry officials are also available should you wish to contact them directly with any questions or concerns. Please contact:

Shereen Smithanik  
Senior Policy Advisor  
Ministry of Energy  
416-326-0513  
[Shereen.smithanik@ontario.ca](mailto:Shereen.smithanik@ontario.ca)

We would like to set up a meeting to discuss our project with you and provide you with an opportunity to express any questions or concerns you have. Please feel free to contact me at [kmccorkle@uniongas.com](mailto:kmccorkle@uniongas.com) or 519-365-0584 so we can set up a time to meet.

Miigwetch,

Ken McCorkle  
Manager, Indigenous Affairs  
[kmccorkle@uniongas.com](mailto:kmccorkle@uniongas.com)  
519-365-0584

Attachment 5.2

**From:** Ken McCorkle  
**Sent:** April-17-19 9:07 PM  
**To:** 'Dan Miskokomon'; [REDACTED]  
**Cc:** [REDACTED]  
**Subject:** Windsor Line Replacement and Sarnia Projects!

Hello Chief Miskokomon, [REDACTED]  
I trust this email finds you well!

As per our last correspondence I am following up to request time for a consultation regarding our Windsor Line Replacement and Sarnia Projects. If you could respond with a couple of dates that will work for you I will make arrangements on my end? I will await your response!

Miigwech,  
Ken

*Ken McCorkle*  
Sr Advisor, Indigenous Affairs  
Enbridge Gas Inc. : Operating as Union Gas  
Phone: 519-436-4600 Ext.5002243  
Cell: 519-365-0584



Attachment 5.3

**From:** Ken McCorkle  
**Sent:** May-02-19 9:13 AM  
**To:** [REDACTED]  
**Cc:** 'Dan Miskokomon'; [REDACTED]  
**Subject:** FW: Windsor Line Replacement and Sarnia Projects!

[Next](#) [Previous](#)

Hello [REDACTED]

I am just following up to confirm a date for a consultation on the Windsor and Sarnia projects that we are looking into. Would you have a couple dates that you could forward?

Miigwech,  
Ken

*Ken McCorkle*

Sr Advisor, Indigenous Affairs  
Enbridge Gas Inc. :Operating as Union Gas  
Phone: 519-436-4600 Ext.5002243  
Cell; 519-365-0584  
Toll Free: 877-293-6215  
Email: [kmccorkle@uniongas.com](mailto:kmccorkle@uniongas.com)

Attachment 5.4

---

**From:** Ken McCorkle  
**Sent:** May-17-19 3:14 PM  
**To:** [REDACTED]  
**Cc:** 'Dan Miskokomon'; [REDACTED]  
**Subject:** RE: Windsor Line Replacement and Sarnia Projects!

Hello [REDACTED]

Thank you for your time yesterday at our facility in Chatham. As per our conversation I am forwarding you a couple of possible dates that we could meet to address the Windsor and Sarnia projects. I have available the following two dates of May 28<sup>th</sup> or May 29<sup>th</sup> at any time you choose. If these dates are not workable please let me know of a couple that will work for you and I will confirm. Again it was great to meet and speak with you yesterday!

Miigwech,  
Ken

Attachment 5.5

---

**From:** Ken McCorkle <[KMcCorkle@uniongas.com](mailto:KMcCorkle@uniongas.com)>  
**Sent:** May 22, 2019 8:56 AM  
**To:** [REDACTED]  
**Cc:** [REDACTED]  
**Subject:** FW: Windsor Line Replacement and Sarnia Projects!

Hello [REDACTED]  
Just following up as I do not want to over book. If you are not available for the May 28<sup>th</sup> or 29<sup>th</sup> I noticed you are open on June 10<sup>th</sup> as per your email to Herb Shields. If the 28<sup>th</sup> or 29<sup>th</sup> does not work are you open on June 10<sup>th</sup> to meet regarding the Sarnia and Windsor Projects? Let me know the best time for you?

Miigwech,  
Ken

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**From:** [REDACTED] <[\[REDACTED\]@wifn.org](mailto:[REDACTED]@wifn.org)>  
**Sent:** May-22-19 9:00 AM  
**To:** Ken McCorkle  
**Cc:** [REDACTED]  
**Subject:** [External] Re: Windsor Line Replacement and Sarnia Projects!

Hi Ken,

I'm not available on the 28th or 29th, but would be on June 10th to meet. If we could do both meetings back to back then that would be ideal.

Thanks,  
[REDACTED]

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**From:** Ken McCorkle <[KMcCorkle@uniongas.com](mailto:KMcCorkle@uniongas.com)>  
**Sent:** May 22, 2019 9:05 AM  
**To:** [REDACTED]  
**Cc:** [REDACTED]  
**Subject:** RE: Windsor Line Replacement and Sarnia Projects!

[Next](#) [Previous](#)

I will schedule our meeting for 10:00AM to 11:00AM for the Sarnia/Windsor consultation. You can work with Herb to determine his time. If this does not work for you let me know and we can change the time. At least this way we have a set time and a stake in the ground to work from.

Ken

From: [REDACTED]@wifn.org> Sent: Wed 22/05/2019 9:07 AM  
To: Ken McCorkle  
Cc: [REDACTED]  
Subject: [External] Re: Windsor Line Replacement and Sarnia Projects!

Sounds good.

Thanks,  
[REDACTED]

Attachment 5.6

**From:** [REDACTED]  
**To:** [REDACTED] [Dan Miskokomon](#)  
**Cc:** [REDACTED] [Ken McCorkle](#)  
**Subject:** [External] Enbridge Gas Inc. - Sarnia Industrial Line Reinforcement Project, DOW to Bluewater - Archaeology and Natural Heritage  
**Date:** August-29-19 1:46:06 PM

**EXTERNAL: PLEASE PROCEED WITH CAUTION.**

This e-mail has originated from outside of the organization. Do not respond, click on links or open attachments unless you recognize the sender or know the content is safe.

Good [REDACTED]

Further to the notice of commencement provided in May 2019, Enbridge Gas Inc. (Enbridge Gas) is proposing to construct a new natural gas pipeline between Enbridge Gas' existing Dow Valve Site and the existing Enbridge Gas Bluewater Interconnect Transmission Station in the Township of St. Clair. The proposed pipeline will be 20-inches in diameter, and approximately 1.2 km in length. Construction of the pipeline could begin as early as spring/summer 2021 and be complete by the end of 2021.

To support the project, Stantec Consulting Ltd. (Stantec) will be initiating a Stage 2 archaeological assessment to identify archaeological resources which may be impacted by the construction and operation of the proposed pipeline. Stantec will also be initiating natural heritage studies to support the project. Dependent on weather conditions, the archaeological survey work and natural heritage studies are tentatively scheduled for late September 2019. It is anticipated that Stage 2 assessment will continue in 2020 once conditions are adequate for survey. We welcome the opportunity to include a member of your community on the archaeological survey team and the natural heritage survey team. If a member wishes to participate, please let us know at your earliest convenience so that we can work through the logistics of a contract. [REDACTED] will be leading the archaeological surveys for the project, and will be your point-of-contact for any archaeological assessment details. [REDACTED] will be leading the natural heritage surveys for the project, and will be your point-of-contact for any natural heritage survey details. Once an agreement has been reached, Stantec will reach out with further details regarding a meeting time, place, and required personal protective equipment for the archaeological and natural heritage surveys.

On behalf of Enbridge Gas and Stantec, we look forward to working with you on this project.

Looking forward to hearing from you!  
Thanks,

[REDACTED]  
Associate, Senior Archaeologist  
Environmental Services

*Ken McCorkle*  
Sr Advisor, Indigenous Affairs  
Enbridge Gas Inc. :Operating as Union Gas