

June 5, 2018

BY RESS & COURIER

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

Dear Ms. Walli:

**Re: Union Gas Limited (“Union”)  
Chatham-Kent Rural Project  
EB-2018-0188**

Enclosed please find two copies of Union’s application and pre-filed evidence for the above-noted project.

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,

*[original signed by]*

W.T. (Bill) Wachsmuth, RPF  
Senior Administrator, Regulatory Projects  
:sb  
Attach.

cc: N. Marconi  
Z. Crnojacki  
Regulatory Library

## **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  
thereof;

AND IN THE MATTER OF an Application by Union Gas  
Limited for an Order granting leave to construct a natural  
gas pipeline and ancillary facilities in the Municipality of  
Chatham-Kent.

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### **UNION GAS LIMITED**

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1. Union Gas Limited (the “Applicant”) hereby applies to the Ontario Energy Board (the “Board”), pursuant to Section 90(1) of the Ontario Energy Board Act (the “Act”), for an Order granting leave to construct approximately 500 metres of NPS 12 (“Bear Line Section”) and 13 km of NPS 8 (“Base Line Section”) hydrocarbon (natural gas) pipeline (“Proposed Facilities or Proposed Project”) in the Municipality of Chatham-Kent.
2. Attached hereto as Schedule “A” are maps showing the general location of the proposed pipelines and the municipalities, highways, railways, utility lines and navigable waters through, under, over, upon or across which the proposed pipelines will pass.
3. The construction of the Proposed Pipeline will allow the Applicant to serve the potential growth and identified customer demand within the Municipality of Chatham-Kent.
4. The Applicant now therefore applies to the Board for an Order granting leave to construct the proposed pipeline as described above.

Dated at Municipality of Chatham-Kent this 5th day of June, 2018.

*[Originally Signed By]*

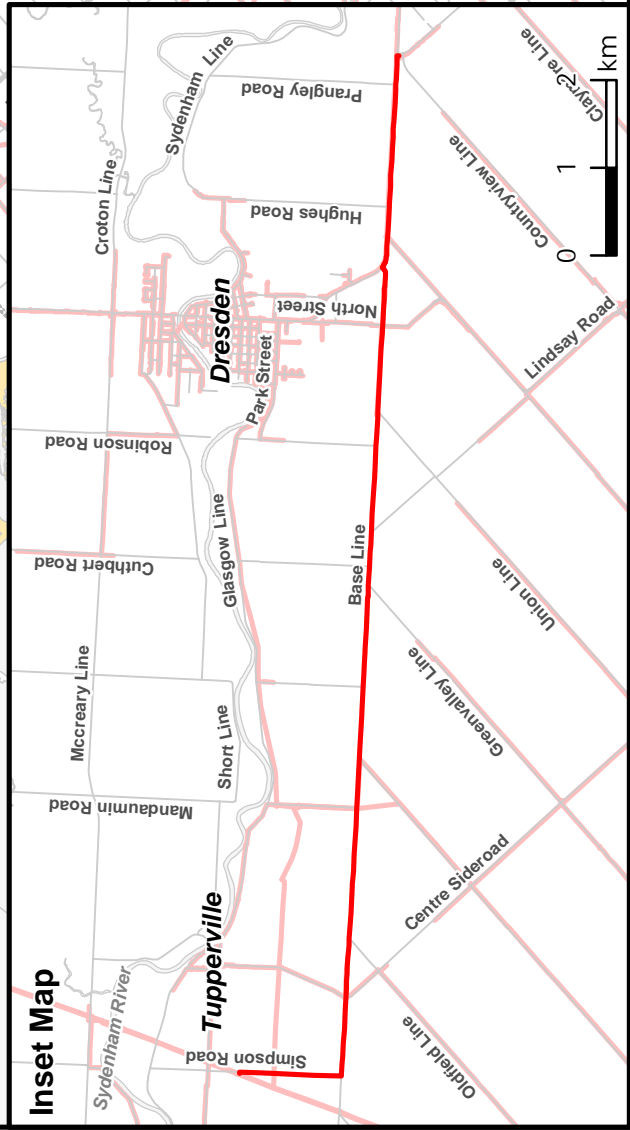
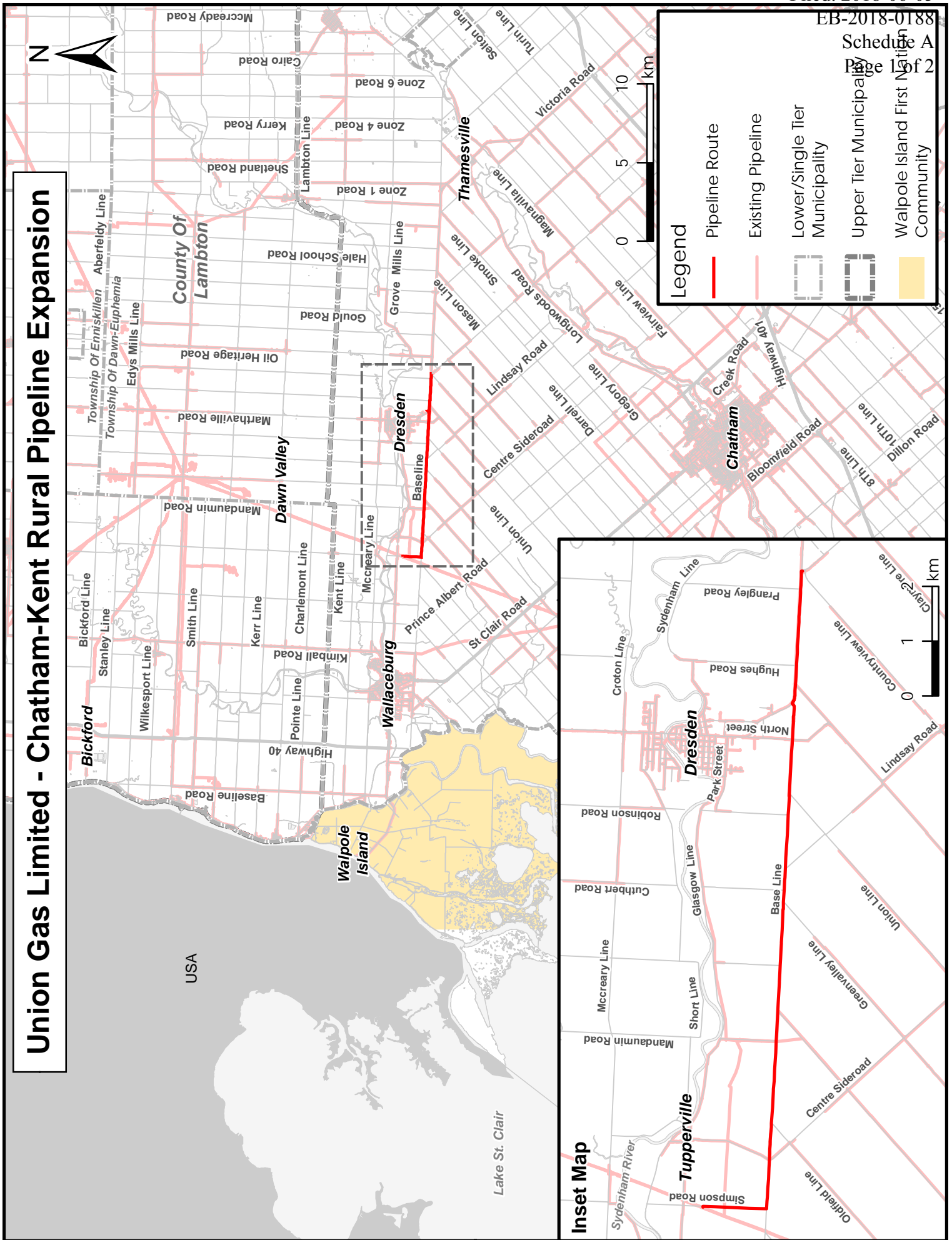
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Per: W.T. (Bill) Wachsmuth, RPF  
Senior Administrator  
Regulatory Projects

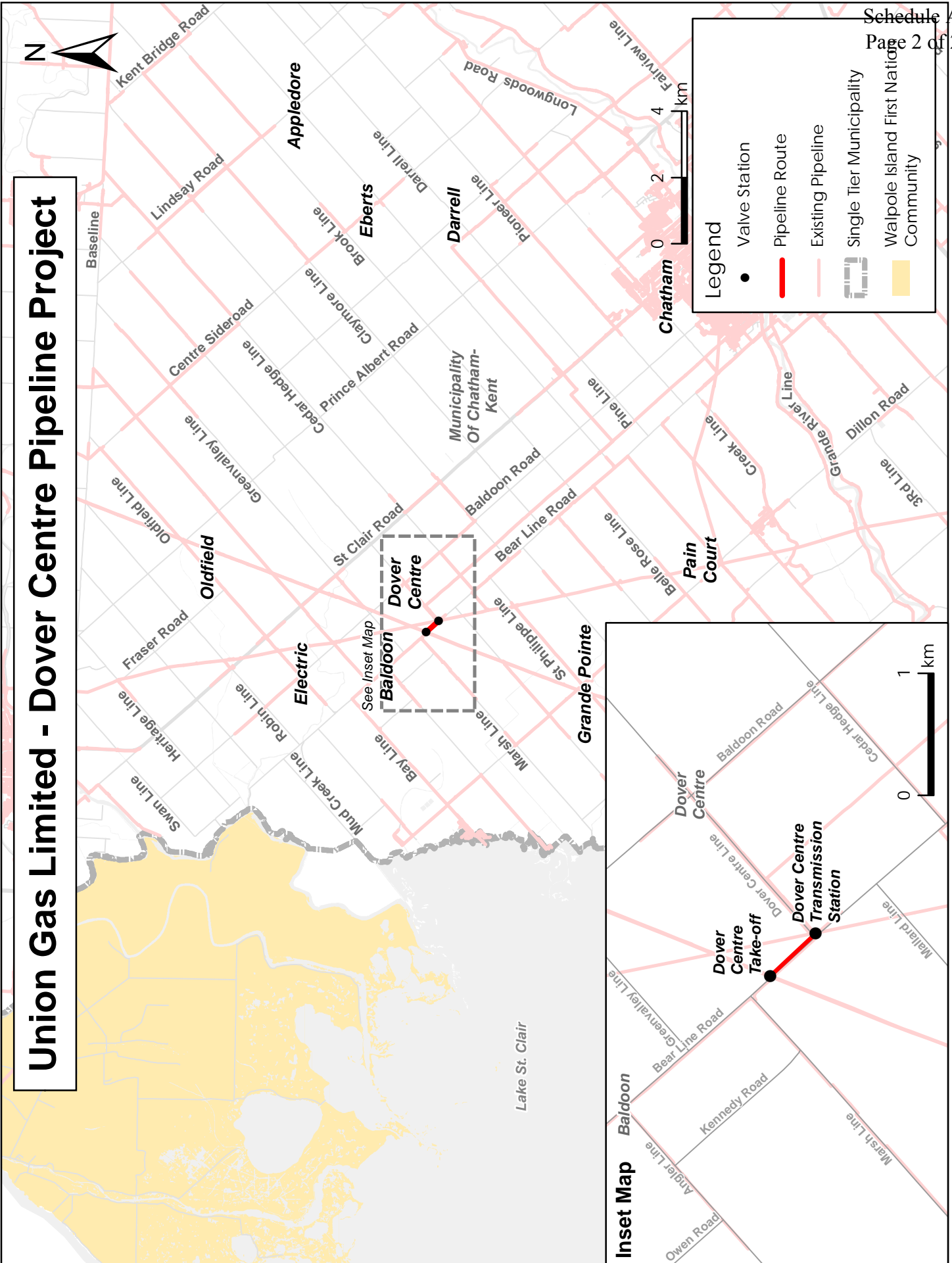
Comments respecting this Application should be directed to:

W.T. (Bill) Wachsmuth, RPF  
Senior Administrator, Regulatory Projects  
Union Gas Limited  
50 Keil Drive North  
Chatham, Ontario  
N7M 5M1  
Telephone: (519) 436-5457  
Facsimile: (519) 436-4641

# Union Gas Limited - Chatham-Kent Rural Pipeline Expansion



# Union Gas Limited - Dover Centre Pipeline Project



## 2018 CHATHAM-KENT RURAL PROJECT

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**PROJECT SUMMARY**

1. Union Gas Limited ("Union"), pursuant to Section 90 of the Ontario Energy Board Act, requests approval from the Ontario Energy Board ("OEB") for Leave to Construct approximately 500 metres of NPS 12 ("Bear Line Section") and 13 kilometres of NPS 8 ("Base Line Section") ("Proposed Facilities or Proposed Project") in the Municipality of Chatham-Kent. The Bear Line Section will extend from the Dover Centre Valve Site to the Dover Centre Transmission Station along Bear Line Road in the former Dover Township. The Base Line Section will extend from the Simpson Road Station to a new Station near the corner of Base Line and Kent Bridge Road in the former Townships of Chatham and Camden. Maps showing the Proposed Facilities can be found at Schedule 1.
2. The Bear Line and Base Line Sections will reinforce Union's Chatham East Transmission System. The Proposed Facilities are required to meet the increasing demands for natural gas in this area as identified in the demand forecast. There have not been any significant changes to the Chatham East Transmission System in the past 20 years. Without the Proposed Facilities, serving the potential growth and identified customer demand in the area beyond 2018 will not be possible.
3. The total project cost of the Proposed Facilities is estimated to be \$19.1 million, including interest during construction ("IDC"). There will be some additional individual distribution pipeline and/or station facilities required to attach customers to the local distribution network. The additional facilities required are typically smaller diameter plastic and steel pipelines that do not require a Leave-to-Construct ("LTC") application. These individual facilities are reviewed on a customer by customer basis. The cost of these facilities are not part of the Proposed Facilities cost.

4. Union has received strong support from the community of Chatham-Kent for this Project. Letters of Support for the Project can be found at Schedule 2.
5. Union submitted a grant application to the Government of Ontario (Ministry of Infrastructure) for funding from the Natural Gas Grant Program (“NGGP”) for the Proposed Facilities. Union’s submission was accepted by the Government of Ontario in December 2017. Additional information regarding the Natural Gas Grant Program is provided below.
6. An economic analysis has been completed in accordance with the recommendations of the Ontario Energy Board E.B.O. 188 report on *Natural Gas System Expansion* and the project is economically justified, with an overall project Profitability Index (“P.I.”) of 1.0.
7. Environmental Reports (“ER’s”) have been prepared for the Proposed Project. There will be minimal environmental impacts related to the construction of the pipeline given Union's standard construction procedures, the mitigation measures recommended in the ER’s, and the fact that the majority of the pipeline will be located within road allowance.
8. Union has provided the Ministry of Energy (“MOE”) with information regarding the Proposed Project. Union has initiated consultation with the affected Indigenous communities. The communities are aware of the Proposed Project and Union will ensure that any of their concerns and issues have been identified and addressed.
9. Construction of the Proposed Project is scheduled to commence at the beginning of spring 2019 to utilize the favourable weather and environmental windows. The proposed latest in-service date for



Bear Line Section of the Project is September 15, 2019. The proposed latest in-service date for the Base Line Section of the Project is November 1, 2019. In order to adhere to such a schedule, OEB approval is requested by January 1, 2019.

## **DESCRIPTION OF THE CHATHAM-KENT PIPELINE NETWORK**

10. A map showing the existing Pipeline Network in Chatham-Kent can be found at Schedule 3.
11. The Chatham East Pipeline is fed by the Panhandle Transmission System (“Panhandle”) that originates at the Dawn Hub (“Dawn”). The section of the Panhandle that feeds the Chatham East Pipeline consists of NPS 20 and NPS 36 pipeline which operates at a MOP of 6040 kPa.
12. The Chatham-Kent distribution network is fed primarily by a high pressure pipeline known as the Chatham East Line. The Chatham East Pipeline, supplied directly by the Panhandle System through the Dover Centre Take-Off, feeds gas downstream to numerous distribution and gate stations which bring gas to communities such as Chatham, Blenheim, Ridgeway, Kent Bridge and others.
13. The secondary source of gas for most of Chatham-Kent is the Sarnia South Line. This 60 kilometres pipeline is fed by both the Chatham East Pipeline, through Dover Centre Station, and by Dawn via the Dawn West Lines. The Sarnia South Line delivers gas to Wallaceburg, Chatham, Dresden, Grande Pointe and Port Alma.
14. Combined, the Sarnia South Line and the Chatham East Pipeline deliver gas to the vast majority of customers in the Chatham-Kent region.

## PROJECT NEED

### *Large Volume Customer Growth*

15. Over the past several years Union has had inquires for large quantities of additional natural gas service and/or capacity in the Chatham Kent region that could not be economically served. These requests identified the need for a larger project to open up capacity to an under-serviced area. While the cost of multiple small scale expansions is too great for any single customer, a larger project, serving multiple customers can provide economies of scale. These economies, when coupled with government support, could allow development of an economically feasible project. When the Province of Ontario announced NGGP funding, Union identified this area as a potential project that fit the criteria identified in the Economic Development stream of funding, should sufficient interest be identified. In order to aggregate sufficient customer interest and commitment to the facilities needed to serve them, Union launched an Expression of Interest (“EOI”) process, seeking customer interest in the potential project.
16. On May 2, 2017, Union, in conjunction with the Municipality of Chatham-Kent, publicly announced the Chatham-Kent Rural Pipeline Expansion project with a press release<sup>1</sup> and through email communications to all existing contract rate class customers in the Union South area (via an Enerline<sup>2</sup> newsletter) and to the Direct Purchase marketer community (via a Factsline<sup>3</sup> newsletter). Details of the potential project, along with Expression of Interest forms, were posted to [www.uniongas.com/ckruralexansion](http://www.uniongas.com/ckruralexansion) and this site was referenced in all communications. It included a map of the two potential pipelines (the proposed facilities at the time) which included 500 metres of NPS12 pipeline (which forms part of this OEB application) and a 20 km<sup>4</sup> NPS8

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1 <https://www.uniongas.com/newsroom/2017/may-2-2017>

2 <https://www.uniongas.com/business/communication-centre/newsletter/enerline/2017/may-2-2017-south>

3 <https://www.uniongas.com/business/communication-centre/newsletter/factsline/2017/may-2-2017>

4 The 20km of NPS 8 pipeline was subsequently reduced to 13 km for this application.

pipeline, as well as an information package and the Expression of Interest (“EOI”) form<sup>5</sup>.

17. The potential pipelines initially contemplated provided incremental capacity in the Chatham-Kent region of approximately 75,000 m<sup>3</sup>/hour. The map outlined the approximate area that could see an increase in natural gas capacity if the pipelines were built as contemplated. The invitation to express interest in the project was aimed at identifying the incremental interest for natural gas service from existing and new commercial businesses within this geographic area of Chatham-Kent.
18. Union invited customers to express interest in the potential project by submitting a form that included the details on their location, desired hourly demand, annual volume of natural gas and timing of natural gas service. These forms were not binding on the customer and were meant to gather information on potential demand. Union received 43 EOI responses from interested parties totalling over 51,000 m<sup>3</sup> in hourly demand. Union analysed all the responses to determine the optimal facilities design to serve the incremental gas demands identified in the EOI forms. A map showing the original scope of the potential facilities and the area deriving benefit from these facilities is included at Schedule 4a. Following this, Union sent EOI respondents an email explaining that the facilities needed to serve all the volumes from the EOI process had been confirmed (ie. matched what was initially contemplated) and that the next step was for the customers to confirm their quantities and timing and sign a binding commitment to the capacity. A pro-forma Commitment Letter (“CL”) was included with that notice. A copy of the CL is attached as Schedule 5.
19. The NGGP application guidelines required that the applicant (Union) demonstrate “need” for the

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<sup>5</sup> <https://www.uniongas.com/campaigns/ck-rural-expansion> <https://www.uniongas.com/-/media/aboutus/pipeline-projects/ck-rural-expansion-of-interest.pdf?la=en>

project and that government funding was required to make the project economically feasible. To meet these NGGP requirements, Union then sent a CL to each potential customer, with their specific parameters, asking them to countersign the letter that would commit them to contracting for the gas quantities identified. These letters were due back to Union by July 17, 2017.

20. The timeline for the process was driven by the need to know which customers would be included in the final project scope in time to complete and submit the NGGP application by July 31, 2017. Of 43 original expressions of interest, five (5) customers were able to execute a CL by the deadline. The total required capacity of the five that signed the Commitment Letters was 18,845 m<sup>3</sup>/hour.
21. In light of reduced natural gas demand confirmed from CLs relative to the EOI responses, the scope and scale of the CK Rural Pipeline Expansion Project was reviewed. The analysis showed that the anticipated Facilities could be reduced to 500 metres of NPS12 and 13 km of NPS8, to meet the collective need of the five (5) customers that signed a CL as well as expected future growth. Schedule 4b shows a final scope map of the Proposed Facilities and the area that benefits from those facilities.
22. At the time of the NGGP application submission, several of the customers that had committed to the Project by signing a CL for their proposed initial requirements had indicated that they were also considering future expansion beyond the initial capacity. All customers that signed a CL were proposing either new greenhouse projects or expansions on existing greenhouse operations. The demand forecast includes these future identified loads as well as a proxy for Non-specific large volume customer growth in addition to that from identified customers. This Non-specific customer growth is based on the overall growth of the market in the area of benefit.

23. Union currently expects total growth in large volume demand of 31,895 m<sup>3</sup>/hour by 2025 in the area serviced by the Project. Of this, Union is actively working to finalize contracts with six customers representing 15,885 m<sup>3</sup>/hour or 50% of the forecasted growth in large volume demand. Three contracts representing 13, 450m<sup>3</sup>/hour have been executed to this point and Union expects the remaining three first year contracts to be executed by July 2018. A further 12,950 m<sup>3</sup>/hour or 41% is supported by future growth from two of the above six customers who have shared their expansion plans with Union. In the final three years of the forecast Union is projecting further generic contract demand growth totalling 3,060 m<sup>3</sup>/hour, representing 34 acres of greenhouse growth. This overall level of growth is consistent with recent experience in the area serviced by the Project.

24. The current demand forecast is provided below:

**Forecasted Demand (m<sup>3</sup>/hour)**

Commitment Letter	2019	2020	2021	2022	2023	2024	2025
Customer 1	1,185						
Customer 2	4,700						
Customer 3	6,500						
Customer 4	400		450				
Customer 5	2,250		4,200		4,200		4,100
Customer 6	850						
Non-specific Large Volume Growth						3,060	
Large Volume – Annual	15,885		4,650		4,200	3,060	4,100
Large Volume – Cumulative	15,885	15,885	20,535	20,535	24,735	27,795	31,895
Small Volume	475	463	520	508	407	457	407
Total – Annual	16,360	463	5,170	508	4,607	3,517	4,507
Total - Cumulative	16,360	16,823	21,993	22,501	27,108	30,625	35,132

25. The forecasted demand includes both larger sized customers (those over 200 m<sup>3</sup>/hour) and smaller residential and commercial customers as identified in the Facilities Business Plan (“FBP”) below.

26. Community support for the Project was received through formal support letters from the Municipality of Chatham-Kent, the Ontario Greenhouse Vegetable Growers Association (OGVG),

the Chatham-Kent Chamber of Commerce, the Kent Federation of Agriculture (KFA), and the Wallaceburg Chamber of Commerce which are attached at Schedule 2.

***Facilities Business Plan Growth***

27. The Facilities Business Plan (“FBP”) is an internal planning process used by Union for the identification of reinforcement facilities required to support forecasted growth within a specific geographic area.
28. The FBP is developed for a study area which provides an overall business case for any necessary long range system expansion for the study area. A study area represents the geographic area for which an FBP will cover.
29. The Chatham-Kent FBP was updated in 2017. A map illustrating this FBP study area is found in Schedule 6.
30. For the Proposed Facilities, the Chatham-Kent FBP provides a complete analysis of the study area based on an 7-year customer forecast (“FBP forecast”). This FBP forecast is based on the 10-year historical average growth in the study area. A summary of this forecast can be found in Schedule 7.
31. Based on the FBP forecast, future facilities, both new and reinforcement, can be identified, economically evaluated, optimized and scheduled to meet the future growth demands on the system.
32. The advantages of this FBP long range planning approach can be summarized as follows:
  - a) Through the identification of future growth areas, Union can be more responsive to customer

needs;

- b) Optimum, least cost facilities can be identified to serve the general service market (Rate M1, M2, 01 and 10) growth; and
- c) Long-term security of supply to the overall system can be achieved.

33. The FBP for the area projects growth in general service market demand of 3,237 m<sup>3</sup>/hr by 2025 as provided in forecasted demand table above.

### **PROPOSED FACILITIES**

34. Total anticipated growth in demand from large volume customers and general service customers equates to 35,132 m<sup>3</sup>/hour over 7 years. Of this growth, 16,360 m<sup>3</sup>/year is required in winter 2019 and it is necessary to increase the capacity of the Chatham-Kent Transmission System in order to meet forecasted demands during the Winter 2019/2020.
35. Attached at Schedule 8 is a document titled System Design Criteria Report for Reinforcement of the Chatham-Kent Transmission System. This document:
- a) outlines the design methodology and process Union uses for reinforcement of system laterals;
  - b) provides a description of current Chatham-Kent East Transmission System facilities and system configuration; and
  - c) outlines the alternatives considered and the rationale for choosing the preferred alternative.
36. Based on the large volume customer growth, the proposed growth identified in the Facilities Business Plan, and the review undertaken as part of the System Design Criteria Report it has been determined that the Base Line and Bear Line sections identified below best serve the needs for the

Proposed Project.

37. For the proposed Bear Line Section, Union proposes to construct approximately 500 metres of NPS 12 pipeline with a MOP of 6040 kPa. This Proposed Facility will extend from the Dover Centre Take-Off to Dover Centre Station along Bear Line Road. Union is also proposing to upgrade the take-off at the north end and the station at the south end of the proposed NPS 12 pipeline. The Bear Line Section is shown at Schedule 9.
38. For the proposed Base Line Section, Union proposes to construct approximately 13 kilometres of NPS 8 pipeline with a MOP of 6040 kPa. This proposed pipeline will extend from the existing Simpson Road Valve Site to a new Station near the corner of Base Line Road and Kent Bridge Road. The Base Line Section is shown at Schedule 10.

## **NATURAL GAS GRANT PROGRAM**

39. In January 2017, the Province of Ontario announced<sup>6</sup> a \$100 million program designed to help defray the cost of expanding the natural gas pipeline network into areas of the province seeking natural gas service. Following this announcement, Union started exploring the idea of using this funding to help make needed natural gas pipeline capacity more economically attractive to potential large customers in the Chatham-Kent region.
40. The formal announcement of the Natural Gas Grant Program (“NGGP”) was made by the Minister of Infrastructure on April 21, 2017 via an email. The email included a link to the formal application form and program guidelines<sup>7</sup>. Applications for funding were to be made by the gas distributor or

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<sup>6</sup> <https://news.ontario.ca/moi/en/2017/01/expanding-natural-gas-to-more-communities-across-ontario.html>

<sup>7</sup> <http://www.infrastructureontario.ca/NGGP/>



supplier planning to serve the area or project. Applications were due to the Ministry of Infrastructure by July 31, 2017. The \$100 million grant program included two streams:

- Expansion project stream (\$70 million planned allocation) targeting projects that are primarily about converting residential consumers to natural gas and;
- Economic development stream (\$30 million planned allocation) targeting projects that are primarily about the economic development benefits of converting businesses to natural gas or expanding service to businesses in rural Ontario.

41. Based on the information available at the time the NGGP application was due in July of 2017, Union developed an NGGP application that requested \$8.0 million in capital funding support. Union was notified by the Ministry of Infrastructure on December 8, 2017, that the project was conditionally awarded the funding as requested. A copy of the letter is provided at Schedule 11. Further, the NGGP funding was publicly announced by the Province on April 3, 2018. A copy of the announcement is available on the MOI website<sup>8</sup>.

## **MUNICIPAL CONTRIBUTIONS**

42. The NGGP guidelines reflected an expectation that the host Municipality of Chatham-Kent supported the project financially by at least an amount equal to or greater than the retained portion of the incremental property taxes generated by the Proposed Facilities over ten (10) years. In order to differentiate the NGGP application for this Project and to demonstrate a greater commitment to the Project, Chatham-Kent committed to pay the incremental property tax amount up front as a lump sum. Chatham-Kent's share of the estimated annual incremental property tax associated with the project was \$50,000 per year or \$500,000 in total, and the Municipality committed this level of

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<sup>8</sup> <https://news.ontario.ca/moi/en/2018/04/ontarios-natural-gas-grant-program-11-new-projects.html>

funding to the Project. A supporting council resolution can be found at Schedule 2.

## **PROJECT COSTS**

43. The total estimated cost of the Proposed Project is \$19.1 million as shown in Schedule 12. This covers all costs related to the Proposed Facilities including material, construction and labour, environmental protection measures, land acquisitions, contingencies, and interest during construction.
44. The total estimated material cost of approximately \$1.8 million covers the cost of all pipe, valves, fittings, coatings, miscellaneous items and stores overhead. These costs are based on historical values and current market conditions. The percentages for stores overheads cover all warehousing and handling costs of the material. The total estimated construction and labour cost amounting to approximately \$12.5 million relates to the installation of the pipeline. This total includes the cost of all miscellaneous company and contract labour.
45. There will be additional individual distribution pipeline, service and station facilities required to attach new customers to the local distribution network. Facilities required are typically smaller diameter plastic and steel pipelines that do not require a leave to construct application. These individual facilities are reviewed on a customer by customer basis. The cost of these facilities is not included in the above project costs.
46. The province of Ontario has committed \$8.0 million to the project, and the Municipality has committed \$500,000. Both of these contributions have been treated as a Contribution In Aid to Construct (“CIAC”) payment, which reduces the net capital cost that Union is seeking LTC

approval for to \$10.6 million.

## COST RECOVERY

47. In a previous facilities expansion that served mainly a geographically specific group of large volume customer<sup>9</sup>, Union assessed an Hourly Allocation Factor for each new large customer of \$230 per m<sup>3</sup> per hour to be applied to the capital costs for each new large volume customer serviced by the expansion. Since this Project would require a similar approach to make it economically feasible, the EOI package referenced a targeted Hourly Allocation Factor of \$250 to \$350 per m<sup>3</sup> of hourly demand. Based on this range, Union was able to determine how much NGGP funding would be required to make the project economically feasible.

48. The proposed Hourly Allocation Factor of \$287 per m<sup>3</sup>/hour was determined as per the following table:

<b>Hourly Allocation Determination</b>		
Inputs for Hourly Allocation Factor		
Line	Item	Amount
1	13 km of NPS8 Pipeline	\$17,900,000
2	500 metres of NPS 12 Pipeline	\$1,209,000
3	NGGP Grant	-\$8,000,000
4	Municipal Contribution	-\$500,000
5	Capital to be recovered from future customers	-\$2,000,000
6	Net Capital (1+2+3+4+5) to be recovered from identified large volume customer requests	\$8,609,000
7	Capacity (m <sup>3</sup> /hour) <sup>10</sup>	30,045
8	Customer Hourly Allocation Factor (6/7) (\$/m <sup>3</sup> /hour)	\$287

49. Union's proposal for cost recovery of the Net Capital is that every large customer within the area that is receiving incremental capacity from the Proposed Facilities will be allocated the proposed

<sup>9</sup> Leamington Expansion Phase 2; EB-2016-0013, page 3 of 15, paragraph 15, decision June 29, 2016.

<sup>10</sup> Capacity made available by the Project for customers who required in excess of 200 m<sup>3</sup>/hour at the time of NGGP submission.

capital cost Hourly Allocation Factor of \$287 per m<sup>3</sup>/hour (as contemplated in the NGGP application) to their individual economics based on their peak hour need. This capital cost allocation is in addition to the costs of any customer specific facilities that the customer requires, which will include a customer station, a service line, and potentially distribution main. Large customers in this context are being defined as customers who require a demand capacity of 200 m<sup>3</sup>/hour or greater. This approach of allocating transmission costs is consistent with the process used in EB-2016-0013 Leamington Expansion Phase 2.

50. The Proposed Facilities will be reinforcing an existing distribution system that will continue to be used by existing customers. It is not practical for Union to apply the Hourly Allocation Factor to small customers, like individual homes, nor is it appropriate to apply the equivalent of a system expansion surcharge ("SES") as approved for expansion to a new community<sup>11</sup> because the area being served by the Project is not a new community<sup>12</sup>. Union's proposal is that all new large customers within the Area of Benefit<sup>13</sup> that require over 200 m<sup>3</sup>/hour will be allocated this cost in their economics. The 200 m<sup>3</sup>/hour is also the approximate size that is large enough for the customer to qualify for a contract rate in Union South (350,000 m<sup>3</sup>/year under rate M4).
51. Once the total incremental capacity of those customers requiring more than 200 m<sup>3</sup>/hour reaches 31,895 m<sup>3</sup>/hour, Union will have allocated the cost of the Proposed Facilities as forecasted in the project economics. At that point, Union will cease to apply this Hourly Allocation Factor to new loads in the Area of Benefit.

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11 SES was approved in EB-2015-0179 for several new communities.

12 The Board accepted a community Expansion definition consisting of "A natural gas system expansion project which will provide first time natural gas system access where a minimum of 50 potential customers already exist" as proposed by Enbridge Gas Distribution in EB-2017-0147 (Fenelon Falls). Union has proposed a similar definition in EB-2018-0142.

13 The Area of Benefit is the geographical area that receives a hydraulic benefit in natural gas capacity due to the addition of the Proposed Facilities. It is drawn in a green polygon at Schedule 4b.

52. Union is not seeking rate recovery as part of the current application. Union may seek recovery through the Incremental Capital Module as part of a future rates application.

## **ECONOMIC FEASIBILITY**

53. Union has employed an economic feasibility test in accordance with the OEB's recommendations in the E.B.O 188 report on *Natural Gas System Expansion* to assess the economics of this Project.
54. An economic analysis was completed for each large volume customers load addition to assess capital costs<sup>14</sup> and to determine the required term and/or CIAC required for each connection to achieve a P.I. of 1.0. Union is currently actively working to finalize contracts with each party. Contracts are expected to be up to 15 years in length. Beyond contract term length, Union has offered options to each of these customers to either pay the CIAC if required, or to pay a flat incremental demand charge premium in excess of the regular monthly charges such that each large customer connected can achieve a minimum Profitability Index ("PI") of 1.0.
55. Several customers have indicated that they intend to expand their businesses in the future and that they will require additional gas capacity greater than their Year 1 (2019) demands. Union has offered these customers the option to contract for some or all of their entire future demands at the start of the contract, which would effectively reserve and pay for the capacity under the current financial terms (ie. the project Hourly Allocation Factor plus any dedicated distribution facilities required). The alternative is that these customers only contract for their 2019 demands now and then amend their contracts in the future, when they are ready to commit to the higher hourly requirement. Under this second approach, customers are risking that the capacity may have been

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<sup>14</sup> Each customers capital costs include distribution mains if applicable along with services, measurement equipment and the allocated transmission cost of \$287 m<sup>3</sup>/hour.

subsequently utilized to meet the needs of other customers, in which case any capital costs allocated for incremental capacity may be more expensive than with this Project. To the extent capacity is still available, they would still be allocated the same Hourly Allocation Factor and be responsible for any incremental facilities related costs to serve their incremental load. If the entire 31,895 m<sup>3</sup>/hour of capacity forecasted to be sold to customers over 200 m<sup>3</sup>/hour is in fact sold out, the customer will be allocated their share of any costs for Union expanding further to serve them, as is the current practice. Contracts would be amended to reflect the economics of any incremental costs and revenues arising from the amendment (including any incremental Aid required or a new demand charge premium). To date, all customers that have indicated a desire to expand in the future<sup>15</sup>, have elected to only contract for their initial demands only.

56. A preliminary Discounted Cash Flow (“DCF”) analysis for the project is provided at Schedule 13. In order to present a comprehensive analysis, Union has included distribution capital for projected customer additions in the economic analysis, even though approval for distribution costs is not being sought in this proceeding. This schedule indicates that the Proposed Facilities have a Net Present Value (“NPV”) of \$236,000 and P.I. of 1.0. A summary of the parameters used in the DCF analysis can be found at Schedule 14.
57. When the Proposed Facilities are included in Union’s 2019 new business investment portfolio the resulting Profitability Index (“P.I.”) would be 1.21. Similarly, including the Proposed Facilities in Union’s rolling portfolio as at May 2018 would result in a P.I. of 1.25.
58. Union therefore submits that this Project is economically feasible and in the public interest.

---

<sup>15</sup> Customers 2 and 6 from Load Forecast provided at Forecasted Demand table

## DESIGN AND PIPE SPECIFICATIONS

59. The design and pipe specifications are outlined in Schedule 15. All the design specifications are in accordance with the *Ontario Regulations 210/01, Oil and Gas Pipeline Systems* under the *Technical Standards and Safety Act 2000*. This is the regulation governing the installation of pipelines in the Province of Ontario.
60. The Proposed Project is within Class 1 to Class 2 locations. Since the majority of the pipeline is located on road allowance and in consideration for future potential development along the route, the Proposed Project is designed to meet Class 3 location requirements.
61. The NPS 12 pipe has an outside diameter of 323.9 millimetres and a minimum wall thickness of 9.5 millimetres. The pipe is to be manufactured by the electric resistance weld process and will have a minimum specified yield strength of 290 MPa. The pipe will be manufactured to the *CSA Z245.1-14 Steel Line Pipe Standard for Pipeline Systems and Materials*.
62. The NPS 8 pipe has an outside diameter of 219.1 millimetres and a minimum wall thickness of 5.6 millimetres. The pipe is to be manufactured by the electric resistance weld process and will have a minimum specified yield strength of 359 MPa. The pipe will be manufactured to the *CSA Z245.1-14 Steel Line Pipe Standard for Pipeline Systems and Materials*.
63. The minimum depth of cover specified is 0.6 metres to the top of the pipe in general locations and 1.2 metres under roads. Additional depth will be provided to accommodate existing or planned underground facilities, or in specific areas in compliance with the applicable regulated standards.

## **CONSTRUCTION PROCEDURES AND SCHEDULE**

64. Schedule 16 describes the general techniques and methods of construction that will be employed in the construction of the Proposed Project. Detailed are such activities as clearing, stringing of pipe, trenching, welding, backfill, tile repair, and clean up. Union's construction procedures have been continually updated and refined in order to be responsive to landowner concerns and mitigate potential environmental effects related to pipeline construction.
65. No blasting is anticipated along the route. When the Project is constructed, Union's most up-to-date construction specifications will be followed.
66. Material is readily available for this project and Union foresees no problem in obtaining a contractor to complete the proposed construction.
67. Modifications to the existing stations will include the installation of launcher/receiver provisions and the expansion of the site footprint.
68. Schedule 17 indicates the proposed schedule for 2019 construction. Construction of the Proposed Project is scheduled to commence April 2019, with all the pipelines being in service by November 1, 2019.
69. The ER's will be provided to the construction contractor.



## **LAND REQUIREMENTS**

70. The Proposed Pipeline will be located within road allowance in the Municipality of Chatham-Kent. No permanent easements are required to construct the Proposed Facilities.
71. For the Bear Line Section approximately 1.23 acres of temporary lands are required to construct the pipeline.
72. For the Base Line Section approximately 47.14 acres of temporary lands are required to construct the pipeline.
73. Temporary land rights to facilitate easier and more efficient installation of the pipeline along road allowances will be required. Options for temporary land have been obtained from the directly affected landowners on the Bear Line Section. Union will continue efforts to obtain the outstanding rights for the Base Line Section. If Union is unable to obtain these rights Union can still construct the pipeline within the road allowance.
74. Union will require 2.64 acres of fee simple land right purchase for the proposed stations. Union has obtained options for two of the three fee simple purchases for these land rights.
75. A summary of the fee simple lands and temporary easement land rights required for this project are provided in Schedule 18a and 18b.

## **ENVIRONMENTAL MATTERS**

76. For the Bear Line Section of the Proposed Project, Union has completed an ER which includes a

background report prepared by Stantec Consulting identifying the environmental and socio-economic features along the route of the Proposed Facilities. The results of the ER indicate that the location of the Proposed Project is environmentally acceptable. Mitigation measures to reduce the effects of construction are included in the ER.

77. For the Base Line Section of the Proposed Project, Stantec has completed an ER identifying the environmental and socio-economic features along the route of the Proposed Facilities. The results of the ER indicate that the location of the Proposed Project is environmentally acceptable. Mitigation measures to reduce the effects of construction are included in the ER.
78. Union believes that by following its standard construction practices and adhering to the mitigation measures proposed in the ER's, construction of this project will have negligible impacts on the environment. No significant environmental or cumulative effects are anticipated from development of the Proposed Project. Copies of the ER's can be found at Schedule 19 and Schedule 20.
79. The ER's were prepared to meet the intent of the Ontario Energy Board's document "*Environmental Guidelines for Location, Construction and Operation of Hydrocarbon Pipelines in Ontario [7<sup>th</sup> Edition, 2016]*" ("*Environmental Guidelines*").
80. The objectives of the ER's were to:
  - a) document existing environmental features;
  - b) identify potential environmental impacts as a result of construction;
  - c) present mitigation techniques to minimize environmental impacts; and
  - d) provide the pipeline contractor and company inspectors involved in the construction of the

pipeline with general and site-specific guidelines for environmental protection that supplement Union's construction specifications.

81. A copy of each ER was submitted to the Ontario Pipeline Coordination Committee ("OPCC") on February 8, 2018 and June 1, 2018. Copies of each ER were also provided to the local Conservation Authority, the Municipality of Chatham-Kent and Indigenous Communities. A summary of the comments regarding the ER's and Union's responses will be provided in Schedule 21.
82. Union also met on-site with Municipal officials to solicit input on the alignment of the Proposed Project. The Municipal officials were in agreement with Union's proposal. Union will continue to work with Municipal officials until the Proposed Project is completed.
83. During construction of the Proposed Project, Union will implement an environmental inspection program. This program will ensure that the recommendations in the ER's are followed. A company inspector will monitor pipeline construction activities and ensure that all activities comply with the mitigation measures found in the ER's.
84. Union plans to have all permits in place prior to the start of construction.

## **INDIGENOUS CONSULTATION**

85. Union has an extensive database and knowledge of Indigenous and Métis Nation organizations in Ontario and consults with the Tribal organizations and the data bases of the Ontario Ministry of Natural Resource and Forestry, Ontario Ministry of Indigenous Affairs and Reconciliation, as well

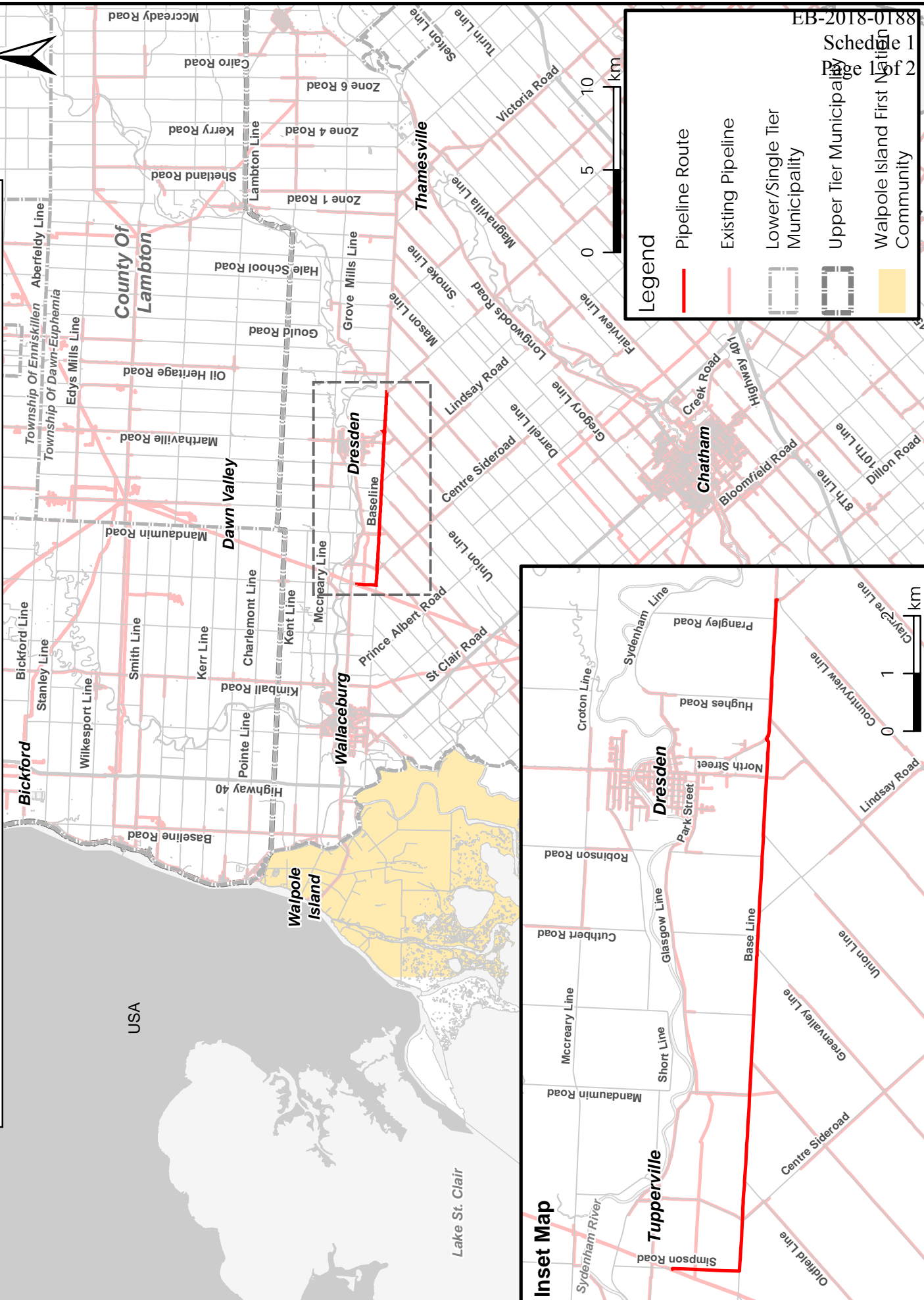
as Indigenous Affairs and Northern Development Canada to ensure consultation is carried out with the most appropriate groups.

86. Union has signed a General Relationship Agreement with the Métis Nation of Ontario which describes Union's commitments to the Métis Nation when planning and constructing pipeline projects.
87. In the 7<sup>th</sup> Edition (2016) of the Ontario Energy Board's Environmental Guidelines for the Location, Construction and Operation of Hydrocarbon Pipelines and Facilities in Ontario, the requirements for Indigenous and Métis consultation were enhanced.
88. As part of the OEB's requirement an Indigenous Consultation Report is required. This report includes:
- a letter from Union to the MOE, providing the MOE with a Project description and requesting the MOE identify any Indigenous communities who may be impacted by the Proposed Project;
  - a letter from the MOE to Union identifying which Indigenous communities will be impacted by the Project;
  - MOE's formal delegation to Union for the responsibility to conduct consultation activities.
89. Attached at Schedule 22 and 23 are copies of Union's Indigenous Consultation Reports for the Project. The Indigenous Consultation Report includes:
- A summary of all meetings with Indigenous communities;

- A summary of the concerns that were identified by the Indigenous communities and how the concerns were addressed and/or accommodated; and
- A complete record of all consultation activities.

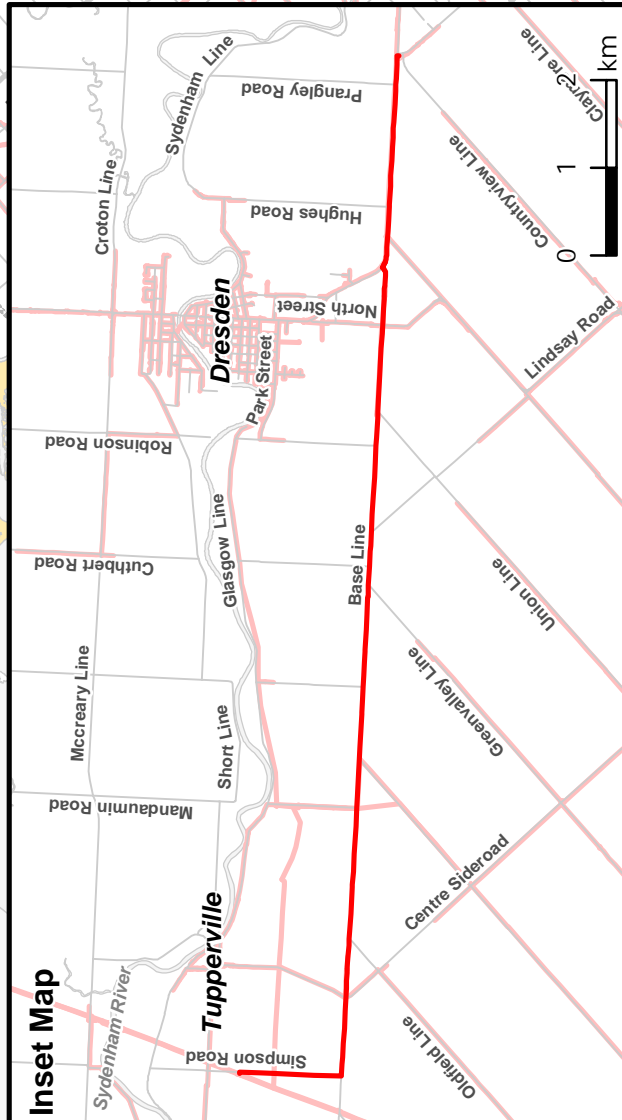
90. Schedule 24 provides a copy of MOE's review and confirmation of adequacy of Union's Indigenous Consultation Report. This review will be filed as part of this application when it is received from MOE.

# Union Gas Limited - Chatham-Kent Rural Pipeline Expansion



**Legend**

- Pipeline Route
- Existing Pipeline
- Lower/Single Tier Municipality
- Upper Tier Municipality
- Walpole Island First Nation Community



USA

Lake St. Clair

**County Of Lambton**

**Thamesville**

**Chatham**

**Dresden**

**Wallaceburg**

**Dawn Valley**

**Bickford**

**Walpole Island**

Township Of Enniskillen

Township Of Dawn-Euphemia

Aberfeldy Line

Edys Mills Line

Mandamin Road

Marthaville Road

Oil Heritage Road

Gould Road

Hale School Road

Zone 1 Road

Zone 4 Road

Zone 6 Road

Kerry Road

Cairo Road

Mccreary Road

Baseline Road

Highway 40

Pointe Line

Kimball Road

Prince Albert Road

St Clair Road

Union Line

McCreary Line

Kent Line

Charlemont Line

Kerr Line

Smith Line

Wilkesport Line

Stanley Line

Bickford Line

Mason Line

Grove Mills Line

Smoke Line

Lindsay Road

Centre Sideroad

Darrell Line

Gregory Line

Longwoods Road

Magnavilla Line

Fairview Line

Victoria Road

Turin Line

Selton Line

87th Line

10th Line

Dillon Road

Bloomfield Road

Creek Road

Highway 401

Sydenham River

Tupperville

Simpson Road

Offield Line

Centre Sideroad

Greenway Line

Union Line

Base Line

Glasgow Line

Cuthbert Road

Robinson Road

Dresden

Park Street

North Street

Hughes Road

Prangley Road

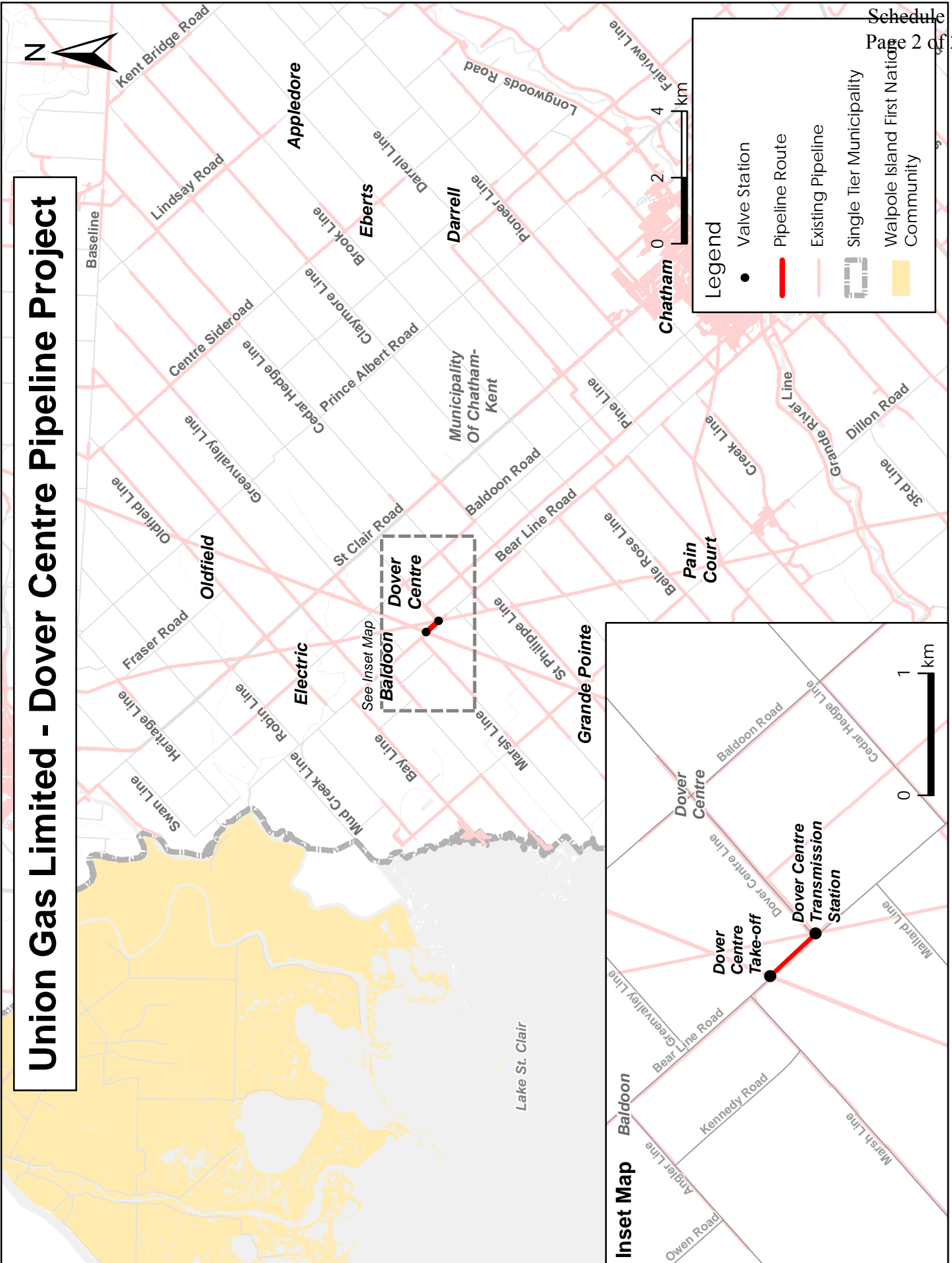
Sydenham Line

Croton Line

Countryview Line

Gayre Line

# Union Gas Limited - Dover Centre Pipeline Project



July 19, 2017

To Whom It May Concern:

**Re: Natural Gas Infrastructure Grant Application**

I hereby certify that at the Municipality of Chatham-Kent Council meeting held on May 8, 2017 Council approved the following recommendation:

“That

**1. Council endorse the following resolution:**

**WHEREAS existing natural gas infrastructure is limited in Chatham-Kent rural areas and is a detriment to expand existing businesses or attract new large customers;**

**WHEREAS having limited access to natural gas puts Chatham-Kent at a distinct disadvantage to attracting new investment;**

**WHEREAS Chatham-Kent has identified opportunities to growth in the greenhouse and food processing sectors given its strategic location to global markets and farm gate but is currently unable to expand these markets given the either undersized natural gas infrastructure or complete lack thereof in rural areas;**

**THEREFORE BE IT resolved that the Council of the Municipality of Chatham-Kent support the application submitted by Union Gas Ltd. to the Natural Gas Program to expand the existing natural gas system by constructing two new pipeline facilities in Chatham-Kent; and**

**THAT a copy of this resolution be forwarded along with the application being made by Union Gas Ltd. to the Ontario government’s Natural Gas Grant program.**



- 2. Administration be approved to authorize a grant, equivalent to the property tax that would be recovered on the new natural gas infrastructure being built for a period of 10 years to be paid from Strategic Reserves.”

I trust that this is sufficient; however, if you require any further information, please contact me at (519) 360-1998 ext. 3200.

Filed: 2018-06-05  
EB-2018-0188  
Schedule 2  
Page 2 of 6

Respectfully,



Judy Smith, CMO  
Director, Municipal Governance/Clerk



Ontario Greenhouse Vegetable Growers  
32 Seneca Road  
Leamington ON  
N8H 5H7  
OGVG.com

May 24, 2018

Filed: 2018-06-05  
EB-2018-0188  
Schedule 2  
Page 3 of 6

Attention: Patrick Boyer  
Supervisor Greenhouse Markets  
Union Gas Ltd  
P.O. Box 2001  
Chatham, Ontario, N7M 5M1

RE: Chatham-Kent Rural Pipeline Expansion Project

Dear Mr. Boyer,

The Ontario Greenhouse Vegetable Growers Association (OGVG) is pleased that the Chatham-Kent Rural Pipeline Expansion Project received funding through Ontario's Natural Gas Grant Program. Accordingly, OGVG supports this project's construction, and hopes that it proceeds in a timely and efficient manner.

This project will open critical natural gas capacity in an area of the province that is poised for significant greenhouse expansion. The result will be the growth of an emerging greenhouse "cluster" in Chatham-Kent, enabling economic development for years to come. The project is expected to immediately connect five local greenhouse businesses, while establishing infrastructure that can help to meet growing energy demand within the local agri-food cluster in Chatham-Kent. The project is large enough to provide natural gas capacity for over 750 acres of new greenhouse operations in the Chatham-Kent area.

Each acre of new greenhouse requires an investment of over \$0.75 million and in addition to the temporary construction jobs, will result in nearly 3 full time positions under glass and will support an additional position in the indirect and induced support sectors. The jobs created with a modern greenhouse include pickers and packers as well as high technology workers to operate and maintain the operation. Upon completion, this project could unlock over \$560 million of investment, potentially create over 3,100 agricultural sector jobs and contribute another \$430 million to the Ontario economy.

We believe the success of the NGGP grant application will help ensure the threshold for economic viability is met, as required by the Ontario Energy Board (OEB). This project supports future economic development in a substantial way, which should be considered during the approval process. Throughout the development of this project, we encourage that the context of growing the Agri-Food sector is used to ensure infrastructure investment continues in rural Ontario.

Sincerely,

A handwritten signature in blue ink, appearing to read "Joseph M. Sbrocchi", with a stylized flourish at the end.

Joseph M. Sbrocchi  
General Manager

July 25, 2017

Attention: Sarah Van Der Paelt  
Director of Sales, Business Markets  
Union Gas Ltd  
P.O. Box 2001  
Chatham, Ontario, N7M 5M1

RE: Natural Gas Grant Program (NGGP) Funding for Chatham-Kent Rural Pipeline Expansion Project

Dear Ms. Van Der Paelt,

The Ontario Greenhouse Vegetable Growers Association (OGVG) would like to formally offer its support to the Chatham-Kent Rural Pipeline Expansion Project.

This project will open up critical natural gas capacity in an area of the province that is poised for significant greenhouse expansion. The result will be the growth of an emerging greenhouse "cluster" in Chatham-Kent, enabling economic development for years to come. The project is large enough to provide natural gas capacity for over 750 acres of new greenhouse operations in the Chatham-Kent area.

Each acre of new greenhouse requires an investment of over \$0.75 million and in addition to the temporary construction jobs, will result in nearly 3 full time positions under glass and will support an additional position in the indirect and induced support sectors. The jobs created with a modern greenhouse include pickers and packers as well as high technology workers to operate and maintain the operation. Upon completion, this project could unlock over \$560 million of investment, potentially create over 3,100 agricultural sector jobs and contribute another \$430 million to the Ontario economy.

The NGGP grant is critical to ensuring the threshold for economic viability as required by the Ontario Energy Board (OEB) is met. The ability of this project to support speculative future economic development is substantial and current OEB review guidelines do not account for this potential. We encourage the government to consider this request in the context of growing the Agri-Food sector and ensure infrastructure that supports continued investment in rural Ontario is accessible.

Sincerely,



George Gilvesy,  
Chair, OGVG



April 17, 2018

Filed: 2018-06-05  
EB-2018-0188  
Schedule 2  
Page 5 of 6

Union Gas Limited  
3840 Rhodes Dr.  
Windsor, ON N9A 6N7

Attention: Mr. Sean Collier  
District Manager Windsor/Chatham-Kent  
Via email: [SaCollier@uniongas.com](mailto:SaCollier@uniongas.com)

RE: Union Gas Chatham-Kent Rural Pipeline Expansion Project

Dear Mr. Collier:


As the Recognized Voice of Visionary Leadership for Business, the Chatham-Kent Chamber of Commerce fosters initiatives that enhance the economic prosperity and quality of life for the Chatham-Kent community. As such, on behalf of the Board of Directors, I am writing to indicate our support for the aforementioned Union Gas Chatham-Kent Rural Pipeline Expansion Project.

As our Mission states, The Chatham-Kent Chamber of Commerce champions business excellence through investing in progressive economic and community infrastructure; fostering entrepreneurship and business linkages; integrating business and community wellness and actively promoting Chatham-Kent. Representing over 350 local businesses from retail to farming, offering diversified services and products, we appreciate that a community that works together towards a common vision will be recognized from afar and provide Chatham-Kent with great opportunities and rewards.

In order for future growth in Chatham-Kent to be realized, sufficient natural gas infrastructure will be required, particularly to serve rural agricultural area. Expansion of service will be necessary in order to support future economic development in the region, particularly in the fast growing greenhouse sector.

With this in mind, the Chatham-Kent Chamber of Commerce is in strong support of this project and encourages the co-ordination of such a project in our Municipality. We are pleased to provide this letter of support and look forward to an ongoing positive relationship with Union Gas.

Yours in Prosperity,

  
Gail A.B. Hundt  
President & CEO



# **KENT FEDERATION OF AGRICULTURE Corp.**

*farmers working for farmers*

---

Ag Business Centre, Ridgetown Campus/University of Guelph, Ridgetown, Ontario NOP 2C0  
phone: 519-674-1500 x 63595 fax: 519-674-1512 e-mail: [kfa@uoguelph.ca](mailto:kfa@uoguelph.ca)

March 22, 2018

Filed: 2018-06-05

EB-2018-0188

Schedule 2

Page 6 of 6

Attention: Mr. Sean Collier  
District Manager Windsor/Chatham  
Union Gas Limited  
3840 Rhodes Dr.  
Windsor, ON N9A 6N7  
Via email: [SaCollier@uniongas.com](mailto:SaCollier@uniongas.com)

RE: Union Gas Chatham-Kent Rural Pipeline Expansion Project

Dear Mr. Collier:

On behalf of the Kent Federation of Agriculture, I am writing to indicate our support for the aforementioned Union Gas Chatham-Kent Rural Pipeline Expansion Project.

The Kent Federation of Agriculture represents close to 2,000 farmers in Chatham-Kent and reliable competitive resources are required to ensure our Agriculture Industry remains competitive.

In order for future growth in Chatham-Kent to be realized, sufficient natural gas infrastructure will be required, particularly to serve rural agricultural area. Expansion of service will be necessary in order to support future economic development in the region, particularly in the fast growing greenhouse sector.

With this in mind, the Kent Federation of Agriculture is strongly in support of this project and look forward to an ongoing positive relationship with Union Gas.

Sincerely,



Scott Kilbride  
KFA, Vice President  
519-627-4615

Harry Lawson  
KFA, Vice President  
519-355-4134

Kent Federation of Agriculture  
Ridgetown Campus, University of Guelph  
120 Main St. E.  
Ridgetown, ON N0P2C0  
519-674-1500 ext63595  
[kfa@uoguelph.ca](mailto:kfa@uoguelph.ca)

cc: Brian Lennie [BLennie@uniongas.com](mailto:BLennie@uniongas.com)

April 24, 2018

Attention: Mr. Sean Collier  
District Manager Windsor/Chatham  
Union Gas Limited  
3840 Rhodes Dr.  
Windsor, ON N9A 6N7  
Via email: [SaCollier@uniongas.com](mailto:SaCollier@uniongas.com)

Filed: 2018-06-05  
EB-2018-0188  
Schedule 2  
Page 7 of 6

RE: Union Gas Chatham-Kent Rural Pipeline Expansion Project

Dear Mr. Collier:

On behalf of The Wallaceburg and District Chamber of Commerce, I am writing to indicate our support for the aforementioned Union Gas Chatham-Kent Rural Pipeline Expansion Project.

The Wallaceburg and District Chamber of Commerce, represents 133 businesses in the Wallaceburg and surrounding area.

In order for future growth in Chatham-Kent to be realized, sufficient natural gas infrastructure will be required, particularly to serve rural agricultural area. Expansion of service will be necessary in order to support future economic development in the region, particularly in the fast growing greenhouse sector.

With this in mind, the Wallaceburg and District Chamber of Commerce, is strongly in support of this project and look forward to an ongoing positive relationship with Union Gas.

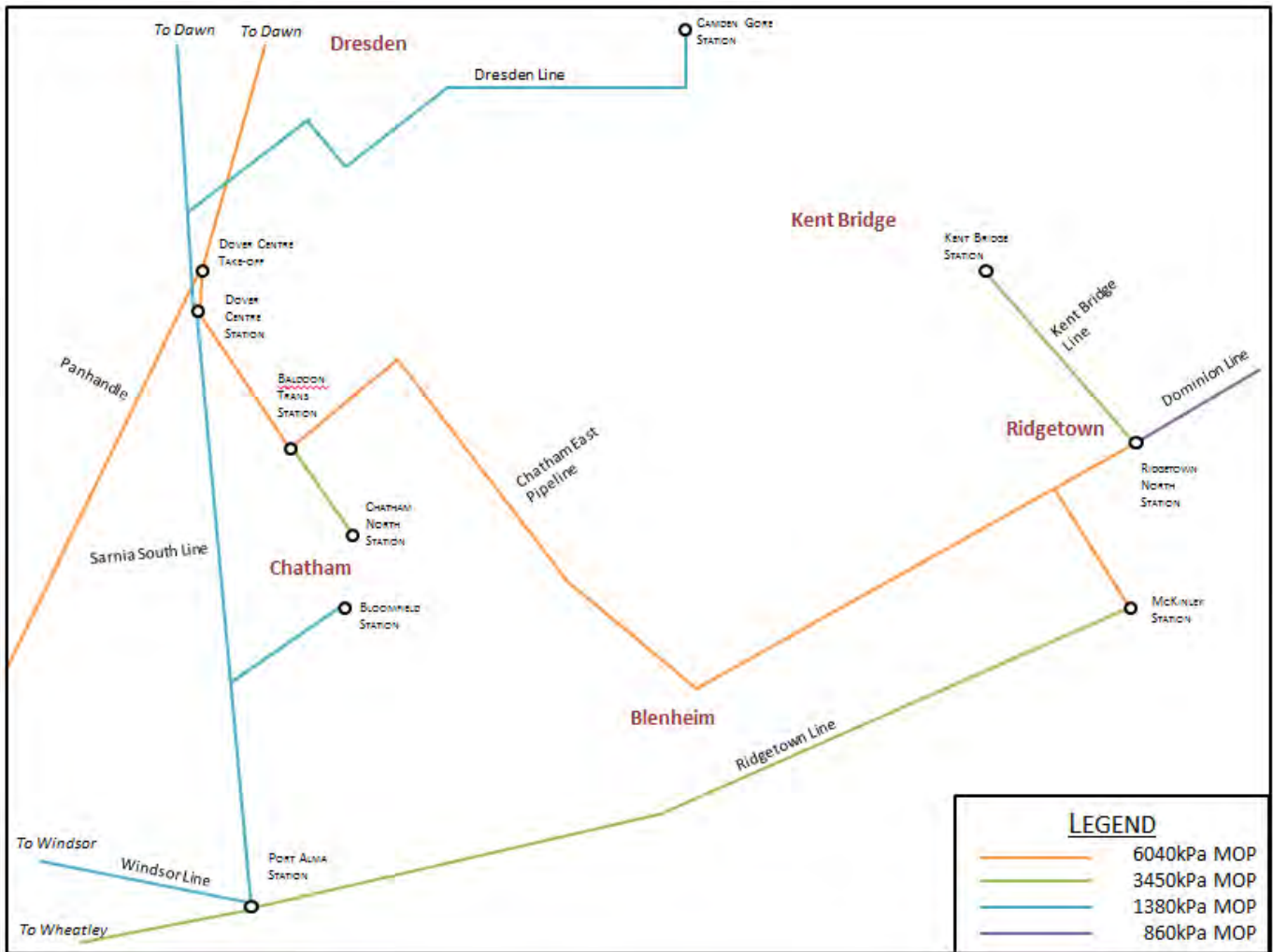
Sincerely,

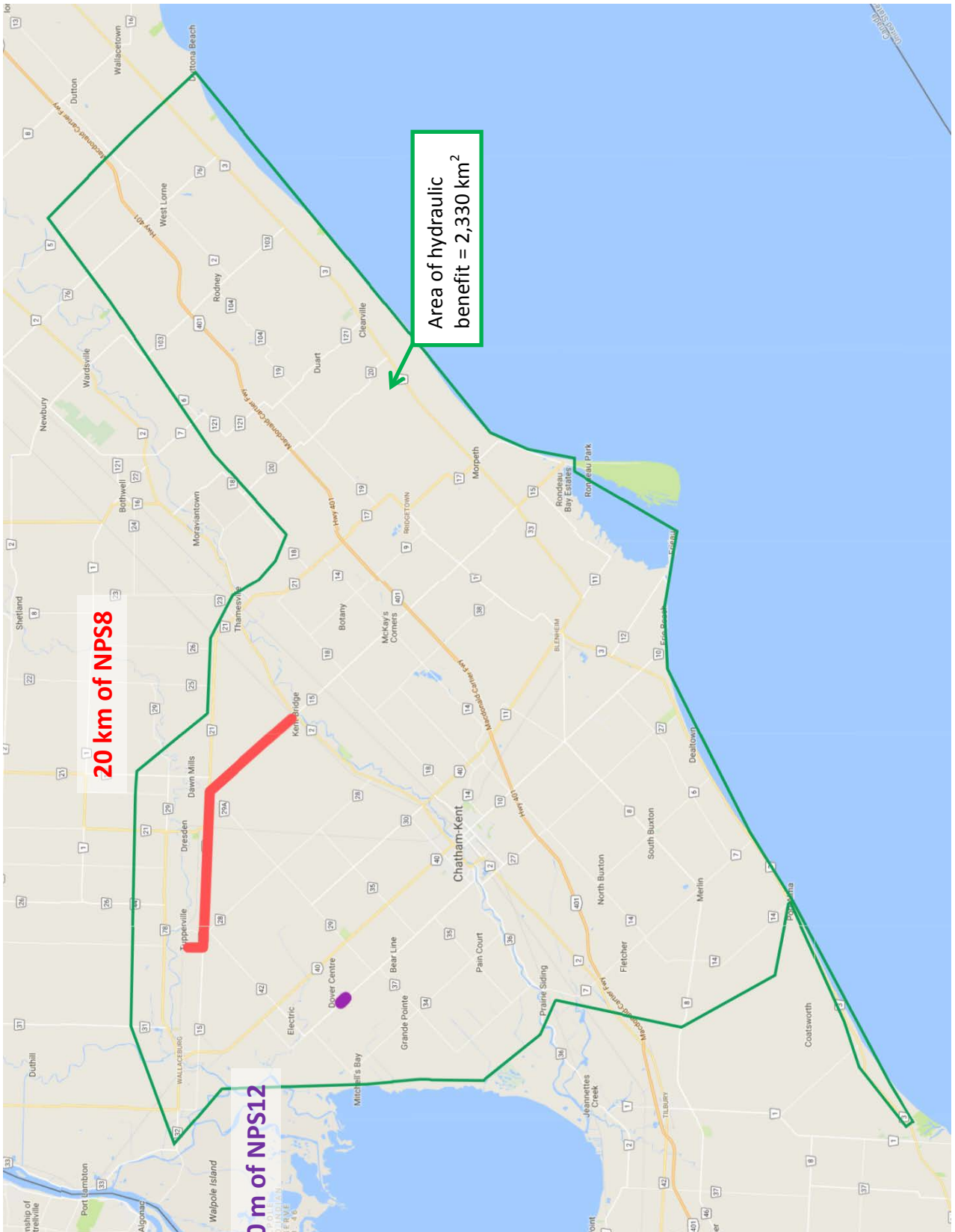


Karen Debergh  
Chair  
Wallaceburg and District Chamber of Commerce

# Map of Existing Chatham-Kent Pipeline Network

## Chatham-Kent Rural Project

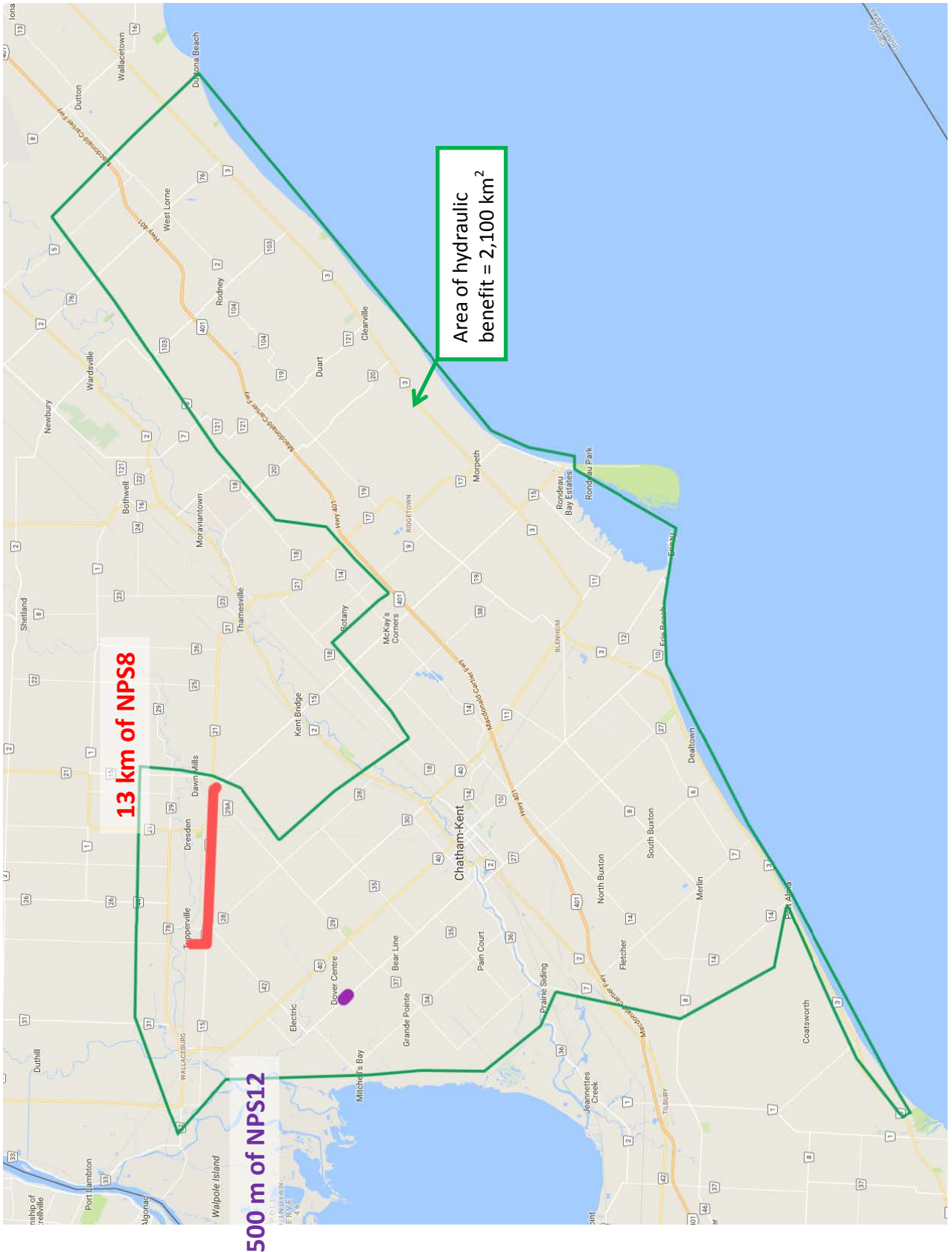




20 km of NPS8

500 m of NPS12







June X, 2017

«Customers Legal Name»

«Property Address»

«City», Ontario

«Postal Code»

**Re: Commitment Letter (“CL”) for the Chatham-Kent Rural Pipeline Expansion Project (the “Project”)**

Union Gas Limited (“**Union Gas**”) is pleased to have worked cooperatively with the Municipality of Chatham-Kent and «Customers Legal Name» to develop a proposal to provide natural gas service to the Project. The Natural Gas Grant Program will provide the funding needed to make the Project possible. Without the funding the Project will not proceed.

The Project is located in the Municipality of Chatham-Kent and includes providing natural gas service to many new customers in this rural and underserved area.

1. «Customers Legal Name» and Union Gas intend that, should Union Gas obtain the funding requested from the Natural Gas Grant Program and approval for its proposal from the Ontario Energy Board, «Customers Legal Name» and Union Gas will formalize a contract with Union Gas, or one of its affiliates, for natural gas service.
2. The agreement between Union Gas and «Customers Legal Name» to enter into a contractual agreement is based on the following conditions and understanding:
  - a. The Union Gas application for ‘NGGP’ funding to support the Project is approved.
  - b. «Customers Legal Name» agrees to a «Contract Term Required Years» year contract for natural gas service based on the conditions outlined in the attached Union Gas «Rate Class New» contract and an in service date of «Effective Date ».
  - c. Natural gas service will be provided by Union Gas to «Customers Legal Name» under the terms and conditions of the appropriate rate schedule(s), which are available here: <https://www.uniongas.com/business/account-services/unionline/contracts-rates> (not including natural gas commodity related costs)
  - d. Firm hourly quantity of «Total\_FHQ» m<sup>3</sup>/hour, firm daily contract demand of «Firm\_CD» m<sup>3</sup>/day and minimum annual volume of «Total\_MAV» m<sup>3</sup>.
3. «Customers Legal Name» has reviewed, and accepts the terms and conditions of the attached Union Gas contract.

4. Any additional financial contributions required from «Customers\_Legal\_Name» to provide natural gas is limited to «Aid\_Required\_if\_applicable».
5. This CL shall expire at the earlier of a) January 31, 2018 or b) when the CL is replaced with a definitive contract.
6. Should Union Gas not receive the full amount of requested funding through the Natural Gas Grant Program for the Project, the parties agree to continue to discuss additional alternatives that may make the Project viable.
7. «Customers\_Legal\_Name» hereby warrants that it has taken all appropriate and necessary corporate action to authorise the execution of this CL and the performance of the terms hereof represents a legally binding obligation on «Customers\_Legal\_Name» with the exception of paragraph 1 of this CL, which indicates the Parties' intentions.
8. Union Gas hereby warrants that it has taken all appropriate and necessary corporate action to authorise the execution of this CL and the performance of the terms hereof represents a legally binding obligation on Union Gas, with the exception of paragraph 1 of this CL, which indicates the Parties' intentions.

If «Customers\_Legal\_Name» acknowledges and agrees to be bound by the foregoing, please execute below and return a copy to my attention.

Yours truly,

Union Gas Limited

Union Gas Authorized Person & Title

Acknowledged and accepted on behalf of «Customers\_Legal\_Name»

By: \_\_\_\_\_

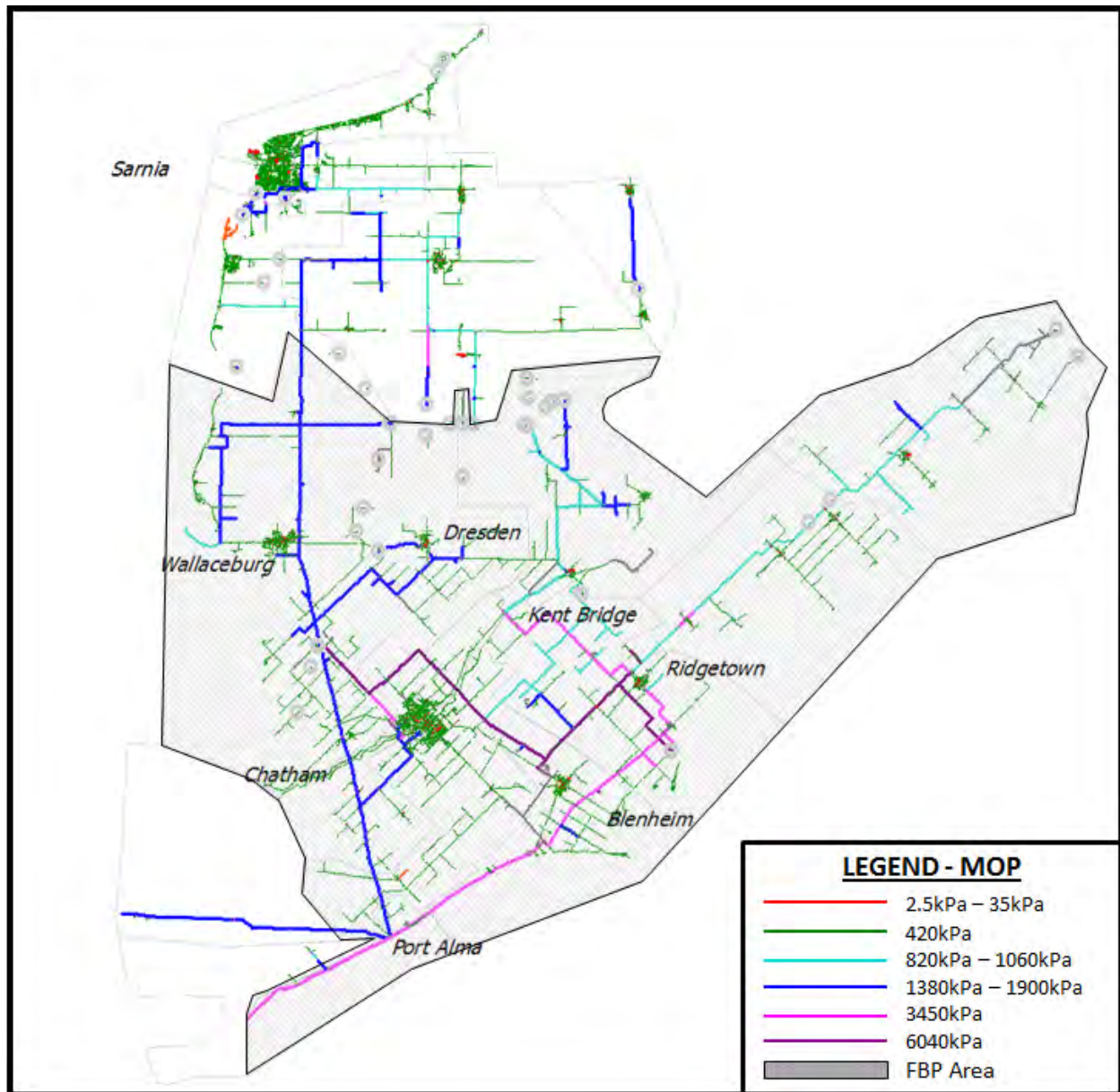
Name: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

## Facilities Business Plan Area Map

### Chatham-Kent Rural Project



**Summary of Facilities Business Plan Customer Forecast**

**Chatham-Kent Rural Project**

Forecasted attachments based on 10 year historical averages:

<b>Residential</b>	<b>Total Attachments</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>
<b>New</b>	1334	194	195	189	189	189	189	189
<b>Commercial</b>	<b>Total Attachments</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>
<b>Small</b>	196	28	28	28	28	28	28	28
<b>Large</b>	21	3	3	4	4	2	3	2
<b>Industrial</b>	<b>Total Attachments</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>
<b>Small</b>	2	1	0	1	0	0	0	0
<b>Large</b>	0	0	0	0	0	0	0	0
<b>Total</b>	1553	226	226	222	221	219	220	219
<b>Total Load (m<sup>3</sup>/h)</b>	3237	475	463	520	508	407	457	407

**System Design Criteria for Reinforcement**  
**on the**  
**Chatham East Pipeline**

**Union Gas Ltd.**

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## **1.0 DOCUMENT PURPOSE**

This document sets out the guidelines, process and criteria used to review the need for reinforcement of a high pressure system operating as the primary feed to downstream distribution systems, and to select the option that best meets the system demands.

The process involves examining existing facilities, forecasting system demand, understanding system operating constraints, identifying a range of reinforcement alternatives and selecting the best alternative.

## **2.0 ASSESSMENT GUIDELINES**

The process of developing a facilities reinforcement plan for a high pressure system serving many downstream systems is summarized below.

1. Validate Model
2. Establish current and future system operating criteria
3. Forecast design day demands
4. Assess existing system demands and capacity
5. Identify alternative ways of creating additional capacity
6. Select the best alternative

### **2.1. Validate Model**

The hydraulic model for the system in question is validated against actual flow conditions to ensure it properly reflects the current demands and system operation.



## **2.2. Establish Current and Future System Operating Criteria**

A pipeline has a number of operating criteria to ensure the system can operate within its constraints:

- Maximum Operating Pressures (MOP) - by code, the pipeline cannot operate in excess of its MOP.
- Minimum Delivery Pressure - the pipeline must meet all required delivery pressures for the customers it services.
- Minimum Inlet Pressure - the pipeline must be able to maintain the minimum pressure requirement into downstream systems.
- Design Day Demands – In Chatham-Kent, these are normally the firm and interruptible customer peak hour demands on a design day.
- Design Day Demand Profile - Typically, customers consume natural gas at varying rates over a 24-hour period. Heat sensitive customers generally consume a higher volume of gas in the early morning and the late afternoon. Union is able to reflect the daily consumption pattern by developing profiles for each of its pipelines using historical data. This typical flow profile is then used to generate a peaking factor for steady state modelling which is applied to customer consumption data to generate the peak hour demands of the system.
- Weather - The majority of the customers served in Union South Area are heat sensitive and their peak demand occurs on a very cold winter day. In the agriculture-heavy Chatham-Kent region, this peak demand coincides with a very cold day during the fall grain drying season. Union Gas designs its facilities to meet the demands on a very cold fall day, defined to be the design day. In this case, the fall design day temperature is -6.3 degrees Celsius, which is equivalent to a 24.3 heating degree day (HDD). The probability of a 24.3 HDD occurring in the fall is between 1% and 2 %, thus reasonably ensuring Union’s customers can continue to be served during the coldest fall days.

Changes in flow patterns or looping on the Panhandle system can impact the inlet pressures available to laterals off that system, which can result in differences between current operating criteria and future ones. Changes in consumption patterns within Chatham, Blenheim, Dresden, Wallaceburg, Kent Bridge, Ridgetown and Dutton (“The Market”) can also impact the operating criteria.

## **2.3. Forecast Design Day Demand**

The design day demand is the peak demand of the customers served by the pipeline. Future design day demands for a 20-year period are determined using the customer attachment forecast from the Facilities Business Plan (“FBP”).

The FBP is an internal planning tool used by Union for the identification of reinforcement facilities required to support forecasted growth over a specific geographic area. The FBP includes a year-by-year customer attachment forecast of demands and their locations on the system. Based on this forecast, future design day demands are used to develop long term reinforcement plans.

Based on the FBP forecast, future facilities requirements for both new business and reinforcement can be identified, economically evaluated based on the Board’s E.B.O. 188 guidelines, optimized and scheduled to meet the future demands on the system.

#### **2.4. Assess Existing Demands and Capacity**

The existing system is reviewed to determine the ability of the pipelines to meet the demands of current customers. If forecasted demands are expected to exceed existing capacity within 2 to 3 years (the lead time required to assess, design, obtain approval and construct facilities if required) the process continues through the following steps.

#### **2.5. Identify Alternatives**

If the existing facilities do not have sufficient capacity to meet the future demands, then a wide range of alternatives are generated. These may include, but are not limited to:

- upgrading the operating pressure of the existing lateral;
- modifying existing pressure regulating stations;
- constructing new pressure regulating stations;
- looping (reinforcing along the existing route) the existing pipeline;
- backfeeding (reinforcing through an entirely different route);
- joining two previously independent systems;
- installing compression;
- obtaining supply from nearby non-Union pipelines and producers;
- carrying out demand side management.

## **2.6. Select Best Alternative**

The above alternatives are established during the early stages of a reinforcement plan. All alternatives are given preliminary review for feasibility, and promising ones are organized into a key alternatives list.

Each alternative on the key alternatives list is further evaluated in detail to make a final recommendation for reinforcement.

Criteria for selecting the best alternative include, but are not limited to:

- economics;
- cost;
- construction feasibility;
- number of years of capacity created;
- reliability of supply;
- system integrity benefits;
- other benefits or shortcomings.

The resulting best alternative is carried forward for internal and external approvals.

## **2.7. Summary**

Although each situation brings its own unique characteristics, the above guidelines set out the principles to be used for assessing the need for reinforcement of a high pressure pipeline operating as the primary feed to several other downstream systems

## **3.0 CURRENT APPLICATION**

This section applies the assessment guidelines as discussed in Section 2.0 of the current OEB application for reinforcement of the Chatham-Kent system.

### **3.1. Facilities**

The following section will describe the facilities of the Chatham East Pipeline and Dresden Line, including the pipelines and delivery locations.

### ***3.1.1. Pipelines***

The Chatham Transmission system is fed from the Panhandle Transmission System (“Panhandle”) through the Dover Centre Take-off which is located between the Dawn Hub (“Dawn”) and the Dover Transmission Station. This section of Panhandle consists of an NPS 20 pipeline installed in 1972 and an NPS 36 pipeline installed in 2017 and operates at a MOP of 6040kPag.

The Chatham East Pipeline is fed primarily by a single NPS 8 high pressure pipeline that was installed in 1963 and extends from the Dover Centre Take-off to the Dover Centre Station (“Dover Centre”). This 500m NPS 8 pipeline operates at a MOP of 6040kPag and is currently a large flow restriction at the beginning of the Chatham East Pipeline. At Dover Centre, flow from this lateral is fed into four different pipelines, with regulators reducing the pressure into three of these pipelines.

The first pipeline supplied by Dover Centre Station is an NPS 12 pipeline operating at a MOP of 6040kPag known as the Chatham East Pipeline. The Chatham East Pipeline, installed from 1974-1975, stretches over 60km from Dover Centre Station to Ridgetown North Station (“Ridgetown N”), with a combination of NPS 12, NPS 10 and NPS 8 pipelines all operating at a MOP of 6040kPag. The Chatham East Pipeline is the primary feed to the majority of customers in The Market.

The second feed out of Dover Centre Station is an NPS 10 pipeline with a MOP of 1380kPag known as the Sarnia South Line. This pipeline spans over 60km from the Dawn West Line (located at Bentpath Road) to Port Alma and, within Chatham-Kent, is the primary source of gas for the northern and western regions of The Market including Wallaceburg, Chatham, Dresden and Grande Pointe. The northern 10km of the Sarnia South Line is supplied by Dawn and the southern 50km of this pipeline is supplied primarily by Dover Centre Station.

The third and fourth feeds are NPS 2 and NPS 4 pipelines installed in 1980 and 2004 respectively, operating at a MOP of 420kPag serving residential and small commercial customers in the vicinity of Dover Centre Transmission Station.

The Dresden Line is fed from the Sarnia South Line through a connection at Bush Line and Baldoon Rd, located approximately 3km North of Dover Centre Station. The Dresden Line consists of a combination of NPS 6, NPS 4 and NPS 3 pipelines operating at a MOP of 1380kPag and feeds the regions of Dresden, Dawn Mills and Tupperville.

### ***3.1.2. Distribution Network***

The distribution network supplied by the Chatham East Pipeline feeds the Chatham, Blenheim, Dresden, Kent Bridge and Ridgetown regions through numerous distribution stations. The supply from the Chatham East Pipeline is also fed into other distribution systems such as the Sarnia South Lines via Dover Centre Station, and the Dominion Line via Ridgetown N.

In addition to the areas outlined in 3.1.1, the Sarnia South Line also supplies gas into Port Alma Station. This station acts as a primary feed for the Port Alma area, a backfeed for the Windsor Line (which spans from Port Alma to Grand Marais Rd in Windsor) and a backfeed for the Blenheim, Wheatley and Morpeth areas. The Dominion Line supplies customers in Rodney, West Lorne and Dutton with the London distribution network providing a backfeed for customers along the Dominion Line

### **3.2. Validate Model**

The Chatham-Kent hydraulic model was last validated in August 2017 based on actual flow conditions from December 15, 2016, which was a 33.3 DD. Pressures were verified within 5% of MOP at SCADA monitored station inlets and contract customer sites.

### **3.3. Operating Criteria**

The following section will describe the operating criteria of the Chatham East Pipeline and the Dresden Line.

### ***3.3.1. Maximum Operating Pressure***

The maximum operating pressure (MOP) of the NPS 8 high pressure pipeline and the Chatham East Pipeline system is 6040 kPag. The MOP of the Sarnia South Line and Dresden Line is 1380 kPag.

### ***3.3.2. Minimum Delivery Pressure***

There are three key locations along the Chatham-Kent system where system pressures must be maintained above a specific minimum pressure during a design day. These locations are the inlet pressures to Ridgetown North Station, Port Alma Station and Camden Gore Station.

The first key location, Ridgetown North Station, is found at the end of the Chatham East Pipeline, approximately 50km away from Panhandle at the Dover Centre Take-off. Ridgetown North Station is supplied solely by the Chatham East Pipeline. This station reduces the pressure into three distribution systems – the 3450kPag MOP Kent Bridge system, the 860kPag MOP Dominion Line and the 420kPag MOP distribution system in Ridgetown. Due to the pressure requirements into the Kent Bridge system, the required minimum required inlet pressure to Ridgetown North Station is 3140 kPag.

The second key location, Port Alma Station, is found at the southern point of the Sarnia South Line. This station reduces the pressure into three distribution systems – a 3450kPag MOP system that runs along the southern edge of Chatham-Kent from Wheatley to Morpeth, the 1380kPag MOP Windsor Line and a 420kPag MOP distribution system serving small customers in the vicinity of Port Alma Station. The Port Alma Station operates as a supporting feed for both the 3450kPag system and the 1380kPag Windsor line, supplying gas into both systems at a set pressure of 900kPag. Due to the required outlet pressures to support both high pressure distribution systems, the minimum required inlet pressure to Port Alma Station is 1000 kPag.

The third key location, Camden Gore Station, is found in the Dawn Mills area at the end of the Dresden Line. Camden Gore Station supplies a 420kPag MOP distribution system in the vicinity of the station. The minimum inlet into Camden Gore Station is 550kPag.

As the system demand increases, flow rates in the high pressure pipelines, such as the Chatham East Pipeline and the Dresden Line, increase resulting in larger pressure losses. These pressure losses lead to a decrease in the inlet pressure supplied to Ridgetown North Station, Port Alma Station and Camden Gore Station.

The pressure regulation at the Dover Centre Station currently operates at the maximum sustainable pressure allowed by the station and the downstream pipeline. Increasing the outlet pressure into the Sarnia South Line and Dresden Line to accommodate system growth is not possible.

Additionally, the Panhandle system limits the pressure available to the Dover Centre Take-off to a minimum of 4689kPag under fall design day conditions. The Chatham East Pipeline currently operates at this minimum pressure and limits the capacity available for growth.

Based on the identified forecast, the Chatham East Pipeline system requires reinforcement prior to the fall of 2019. A visual representation of the Chatham East Pipeline with Proposed Facilities and without Proposed Facilities and the minimum inlet pressures into the three key locations can be found at Schedule 1 of this report.

#### **3.4. Existing and Forecast Design Day Demands and Capacity**

The design day demands for the Chatham system were developed from the Chatham FBP Study.

#### **3.5. Identify Reinforcement Alternatives**

Union considers a broad range of alternatives during the development of a reinforcement plan. These alternatives are investigated at varying levels of detail depending upon their feasibility. The following alternatives were identified and assessed for the Chatham East Pipeline Reinforcement:

### ***3.5.1. Install a Different Diameter Pipeline***

#### ***3.5.1.1. 500m NPS 10 Proposed Pipeline (Bearline Section)***

Union reviewed whether an NPS 10 pipeline was adequate to serve the forecasted growth in the greater Chatham-Kent area. This option was deemed undersized due to the pressure drop that would result between the start and end points of this pipe. The NPS 10 also presents continuity issues for the Chatham East Pipeline as it would require launcher and receiver sites at either end in order to complete inline inspection. In addition, the NPS 10 triggered the next phases of reinforcement one year earlier than the NPS 12 option and was therefore rejected.

Union also reviewed whether an NPS 16 pipeline should be installed. It was determined that there is not sufficient proposed growth in the Chatham-Kent area to justify an NPS 16 pipeline. Installing an NPS 16 would also present the same continuity issues as the NPS 10 option, as it would require dedicated launcher and receiver sites for the 500m segment of pipeline. As a result, the NPS 16 option was rejected.

#### ***3.5.1.2. 13km NPS 8 Proposed Pipeline (Baseline Section)***

To identify why an NPS 8 pipeline was selected as the best alternative, it is first necessary to explain the impact and the potential future phase of the proposed new lateral from Panhandle. The proposed 13km lateral will extend from Panhandle at the Simpson Rd Valve Site and tie into the Dresden Line at Kent Bridge Line and Base Line Rd through a pressure reducing station. This new pipeline will offer a new source of gas in close proximity to the system low point at Camden Gore Station resulting in higher pressures and increased capacity in the Dresden region. Additionally, this new feed will offset load requirements from the Chatham East Pipeline as this region was supplied primarily through Dover Centre Station.



Looking to the future, Union plans to extend the proposed 13km by another 8km and install a pressure reducing station in order to tie into the 3450kPag Kent Bridge System. Presently the Kent Bridge system is single pipeline fed by the Ridgeway North Station. It can only support very limited growth as there are several large commercial and contract customers in the vicinity of the Kent Bridge Station. Extending the proposed pipeline by another 8km will provide system-wide benefit by providing a backfeed into the Kent Bridge system. This will allow new commercial and industrial growth on the Kent Bridge system and downstream communities. The second feed into this system will also offset significant load (~6,000 m<sup>3</sup>/h of capacity) from the Chatham East Pipeline, allowing this capacity to be redirected to communities further upstream along the Chatham East Pipeline such as Chatham, Blenheim. This 6,000m<sup>3</sup>/h will translate into an effective capacity of approximately 14,000m<sup>3</sup>/h.

Union reviewed whether an NPS 6 pipeline was adequate to serve the identified and forecasted growth in the Dresden region. It was determined that installing an NPS 6 pipeline would eliminate the possibility of extending the pipeline 8km to Kent Bridge Station as an NPS 6 would be unable to serve the identified demand on the system. As a result, this option was rejected.

Union also reviewed whether an NPS 10 pipeline should be installed. It was determined that there is not sufficient growth in the Dresden and Kent Bridge regions to justify installing an NPS 10 pipeline, even when considering the potential future extension. As a result, this option was also rejected.

### ***3.5.2. New lateral from the Panhandle Transmission System to Support the Chatham East Pipeline***

Union reviewed building a new line from the existing Panhandle Transmission System that would provide another feed into the Chatham East Pipeline. This new lateral would be significantly longer in length than the proposed NPS 12 500m “Bearline” option. It would also require launching and receiving sites for future integrity work. Therefore this option was eliminated.

### ***3.5.3. Joining Two Previously Independent Distribution Systems***

There are no independent high pressure distribution systems nearby that are large enough to help accommodate the current and future demands in Chatham-Kent. This option was therefore deemed inadequate and eliminated as a viable alternative.

#### ***3.5.4. Obtaining Supply from Nearby Non-Union Pipelines***

There are currently no nearby non-Union pipelines with a capacity large enough to accommodate the present needs and future growth in Chatham-Kent. Union evaluated the option of tying the Dresden Line into Enbridge's Chatham D Pool to increase the peak demand capabilities of the system. It was determined the storage pool cannot adequately supplement the peak demand of the Dresden Line to meet fall or winter flow requirements. This alternative was therefore eliminated.

Union also evaluated the alternative of guaranteeing supply from a local producer. The largest producer in the Chatham-Kent area is located in Morpeth and the production rate is not sufficient to accommodate the current and future demands in the Chatham-Kent region. The production from this supplier is also not consistent enough to rely on while designing the gas distribution system. Therefore this alternative was also eliminated.

#### ***3.5.5. Looping in a Different Location***

##### ***3.5.5.1. 500m NPS 12 Proposed Pipeline (Bearline Section)***

Looping the Chatham East Pipeline system downstream of Dover Centre Station was considered as a reinforcement alternative to reduce the pressure loss in the 6040 kPag MOP Chatham East Pipeline system. The alternative downstream reinforcement would be to install 5000m NPS 10 6040kPag, which would generate the same increase in capacity as the proposed design alternative. This is due to the NPS 8 flow restriction upstream of Dover Centre Station. Due to the significantly larger scope of work and higher cost, this option was also eliminated.

##### ***3.5.5.2. 13km NPS 8 Proposed Pipeline (Baseline Section)***

Looping the Sarnia South Line was reviewed as an alternative to the proposed new lateral from the Panhandle Transmission Line. This option was rejected as it would require

approximately 18km of NPS 10 ST and would not be able to service the same amount of growth as the proposed project.

### ***3.5.6. Demand Side Management***

Union reviewed the alternative of implementing Demand Side Management (“DSM”) for customers in the Chatham-Kent area in order to reduce present and future loads on the system. On a fall design day in the agriculture-heavy Chatham-Kent area, grain dryers are responsible for 43% of the entire systems’ consumption. As this load is process-oriented and implementing new equipment would present challenges for customers due to both cost and lead times, it was determined that DSM would not substantially impact the grain drying loads in the near future. It was also determined that due to the high impact of these grain drying loads, even significant DSM reductions in consumption for residential and small commercial would not show an appreciable impact on the need for the proposed project due to their relatively small market share. As a result, this alternative was also eliminated from consideration.

### ***3.5.7. Selection of Best Alternative***

Union proposes that the best alternative, of all considered, is to build both the Bearline and Baseline options consisting of 500m of NPS 12 and 13km of NPS 8 operating at a MOP of 6040 kPag.

The Bearline option will loop the existing NPS 8 pipeline with a MOP of 6040kPag running from the Dover Valve Site to Dover Centre. This option was chosen as it offers the lowest cost and smallest scope of work while also providing significant capacity gain by alleviating the current flow restriction between the Dover Centre Take-off and Dover Centre Station.

The Baseline option will provide a new lateral from Panhandle, feeding into the Dresden Line through a pressure reducing station. This option was selected as it alleviates a significant system constraint at Camden Gore Station while also providing incremental capacity to meet identified and forecasted growth off of the Dresden Line. This option also offers the possibility to extend the pipeline 8km to Kent Bridge, which would provide additional benefit to the Chatham East Pipeline by offsetting significant load.

### **3.5.8. Summary**

Union reviewed a number of alternatives including a different diameter pipeline, a new lateral from Panhandle, looping the existing system in a different location, obtaining supply from other non-Union suppliers and connecting existing distribution systems.

Union proposes to construct the best alternative which is a 500m looping of the existing NPS 8 6040 kPag MOP lateral with an NPS 12 6040kPag MOP pipeline and a new 13km NPS 8 6040kPag MOP lateral from the Panhandle easterly to feed into the Dresden Line. The proposed NPS 12 loop will run from the Dover Centre Take-off, located at 26131 Bear Line Rd, to Dover Centre Station, located at 8012 Dover Centre Line. The proposed NPS 8 lateral will extend from the Simpson Rd Valve Site to a new distribution station located at Kent Bridge Rd and Base Line.

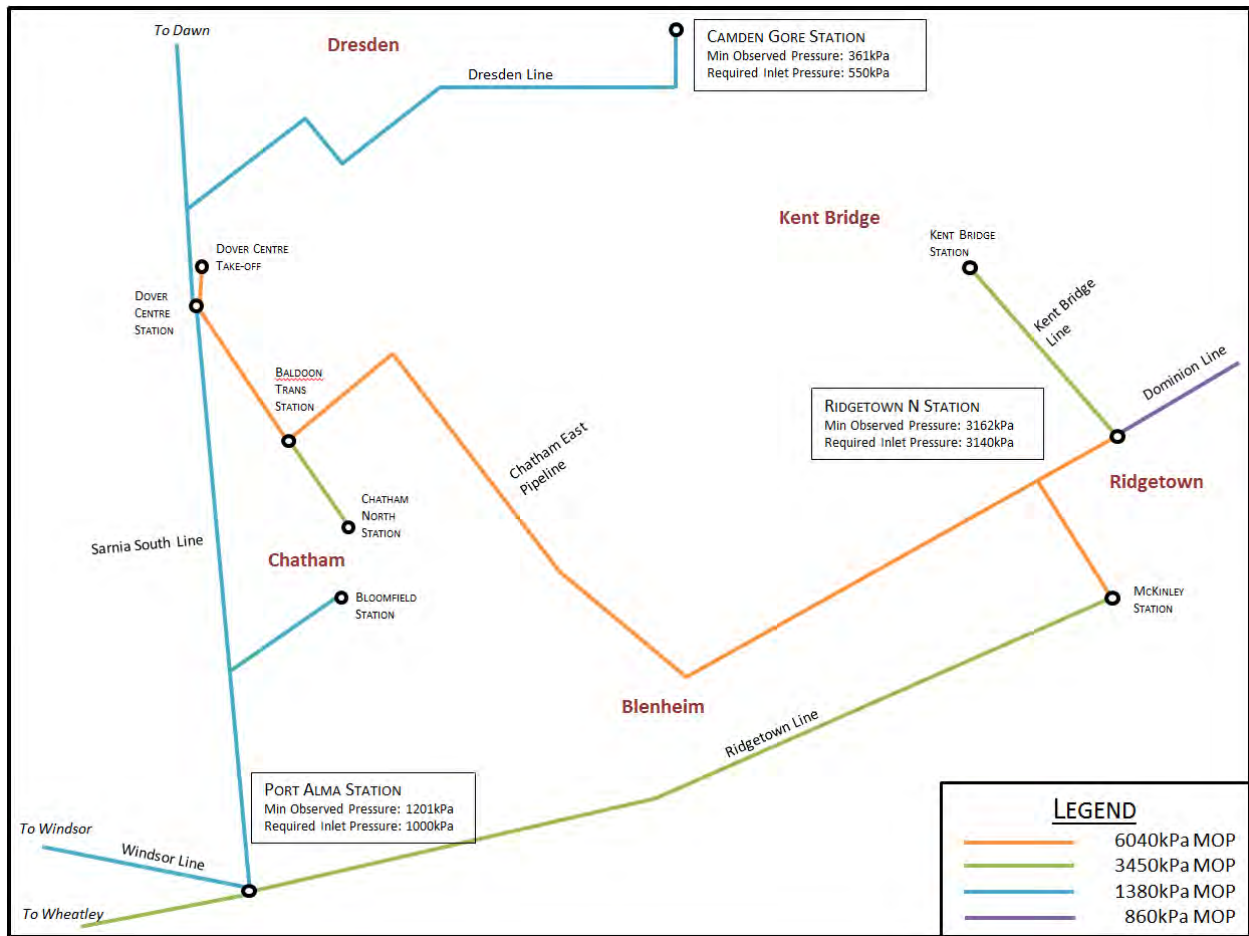
## **4.0 CONCLUSION**

Union uses a number of criteria to review the need for reinforcement of a high pressure pipeline operating as the primary feed to several other downstream systems.

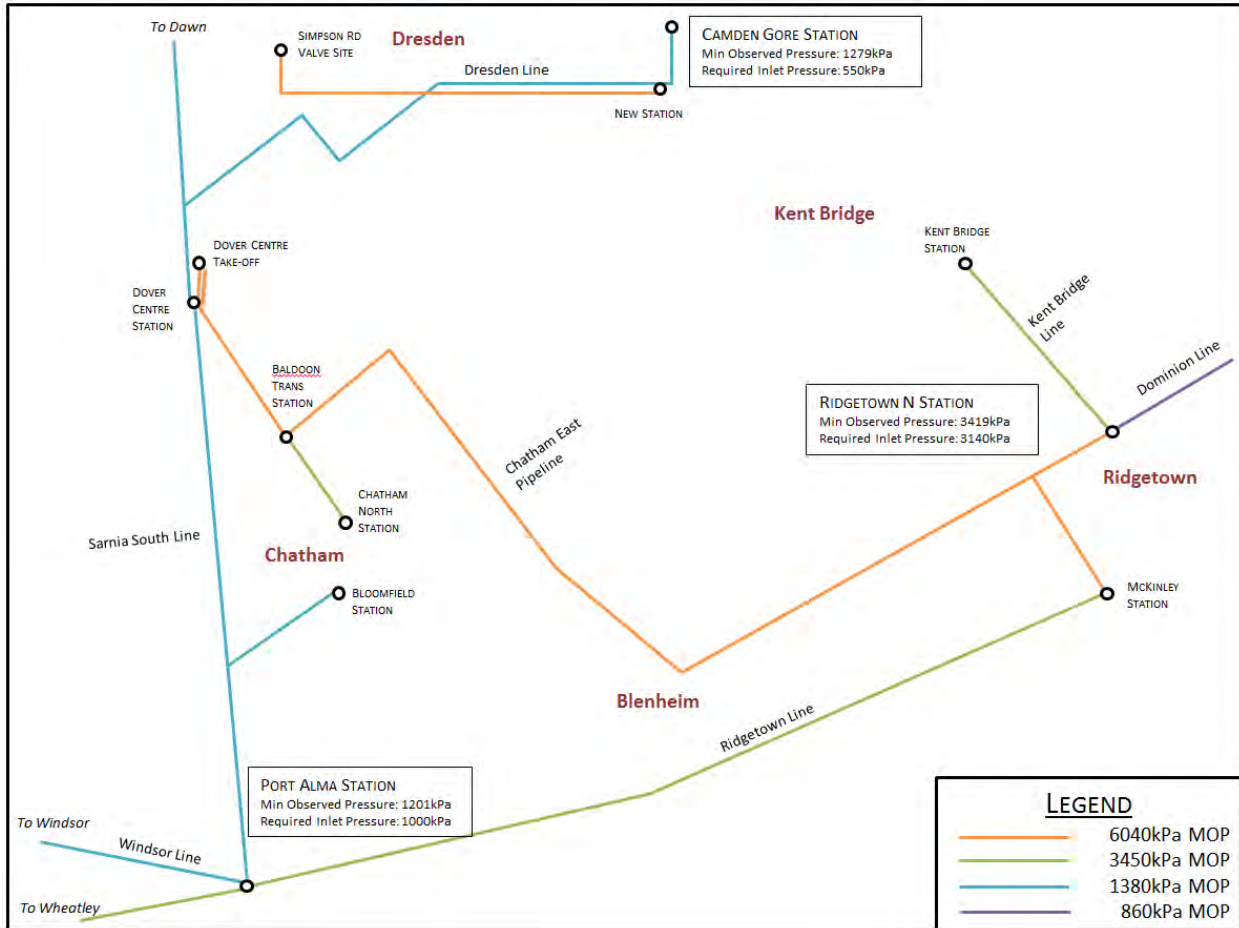
The process involves examining existing facilities, forecasting system demand, and understanding system operating criteria in order to identify a number of reinforcement alternatives. These alternatives are then investigated at varying levels of detail depending upon project feasibility including engineering, cost, and environmental considerations, and security of supply.

Through this process, Union has identified the most efficient project to provide The Market with higher pressures and more robust gas supplies in order to meet the growing demand across the Chatham Kent region. This project is to install a 500m NPS 12 6040kPag high pressure pipeline from the Dover Centre Take-off to Dover Centre Station and a 13km NPS 8 6040kPag high pressure pipeline from the Simpson Rd Valve Site to Kent Bridge Rd and Base Line.

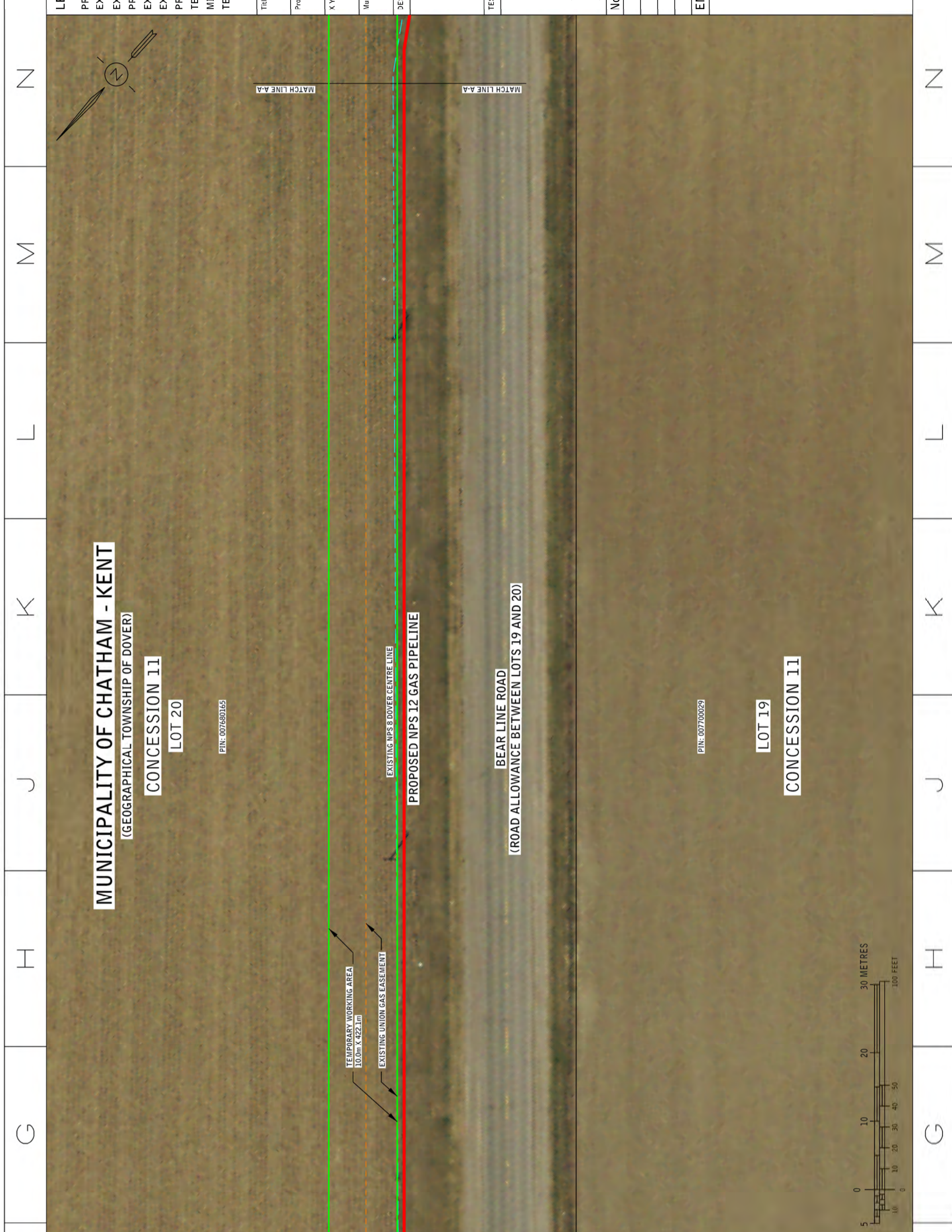
## Fall 2019 System Operating Parameters – Without Proposed Facilities



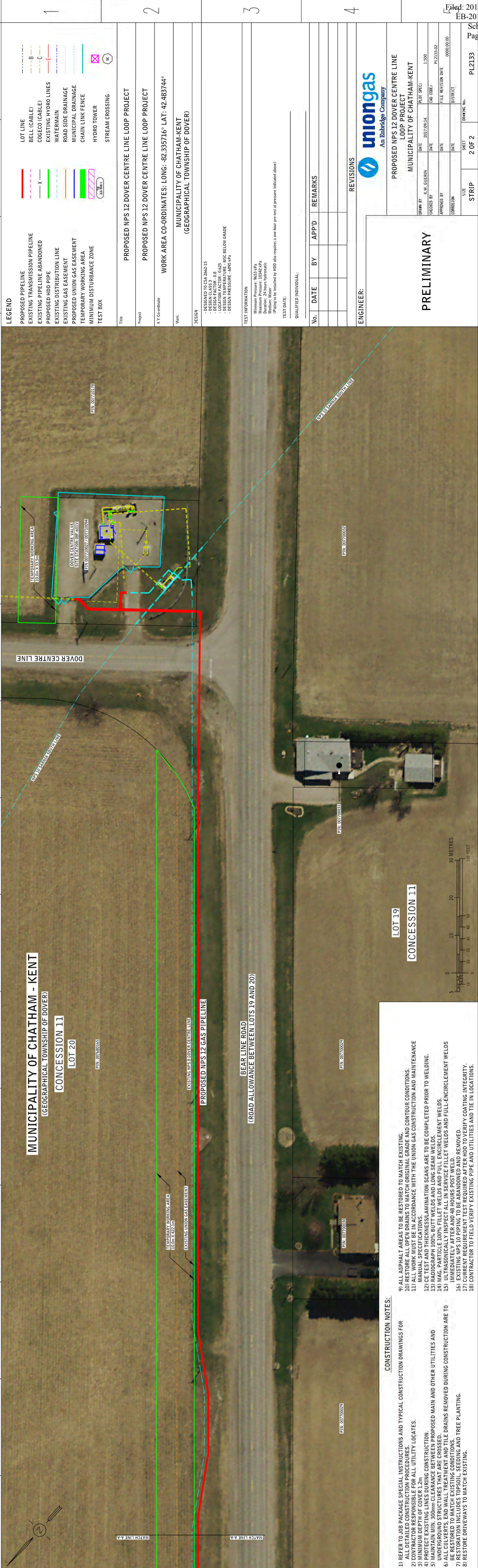
## Fall 2019 System Operating Parameters – With Proposed Facilities



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<p><b>MUNICIPALITY OF CHATHAM - KENT</b>                  (GEOGRAPHICAL TOWNSHIP OF DOVER)                  CONCESSION I I                  LOT 20                  PIN: 007680165</p> <p><b>MUNICIPALITY OF CHATHAM-KENT</b>                  (GEOGRAPHICAL TOWNSHIP OF DOVER)</p> <p><b>PROPOSED NPS 12 DOVER CENTRE LINE LOOP PROJECT</b></p> <p><b>PROPOSED NPS 12 DOVER CENTRE LINE LOOP PROJECT</b></p> <p><b>WORK AREA CO-ORDINATES: LONG: -82.335716° LAT: 42.483744°</b></p> <p><b>DESIGN</b></p> <ul style="list-style-type: none"> <li>- DESIGNED TO CSA Z662-15</li> <li>- DESIGN CLASS 3</li> <li>- DESIGN FACTOR 1.8</li> <li>- WALL THICKNESS 6.25</li> <li>- DESIGN TEMPERATURE - MISC BELOW GRADE</li> <li>- DESIGN PRESSURE - 6895 kPa</li> </ul> <p><b>TEST INFORMATION</b></p> <p>Minimum Pressure: 9653 kPa                  Maximum Pressure: 10942 kPa                  Duration: 24 hours hydrostatic                  Medium: Water                  (Piping to be installed by HDD also requires a one-hour pre-test at pressure indicated above)</p> <p><b>TEST DATE:</b></p> <p><b>QUALIFIED INDIVIDUAL:</b></p>																												
<p><b>LEGEND</b></p> <table border="0"> <tr> <td>PROPOSED PIPELINE</td> <td>LOT LINE</td> </tr> <tr> <td>EXISTING TRANSMISSION PIPELINE</td> <td>BELL (CABLE)</td> </tr> <tr> <td>EXISTING PIPELINE ABANDONED</td> <td>COGECO (CABLE)</td> </tr> <tr> <td>PROPOSED HDD PIPE</td> <td>EXISTING HYDRO LINES</td> </tr> <tr> <td>EXISTING DISTRIBUTION LINE</td> <td>WATERMAIN</td> </tr> <tr> <td>EXISTING GAS EASEMENT</td> <td>ROAD SIDE DRAINAGE</td> </tr> <tr> <td>PROPOSED UNION GAS EASEMENT</td> <td>MUNICIPAL DRAINAGE</td> </tr> <tr> <td>TEMPORARY WORKING AREA</td> <td>CHAIN LINK FENCE</td> </tr> <tr> <td>MINIMUM DISTURBANCE ZONE</td> <td>HYDRO TOWER</td> </tr> <tr> <td>TEST BOX</td> <td>STREAM CROSSING</td> </tr> </table>					PROPOSED PIPELINE	LOT LINE	EXISTING TRANSMISSION PIPELINE	BELL (CABLE)	EXISTING PIPELINE ABANDONED	COGECO (CABLE)	PROPOSED HDD PIPE	EXISTING HYDRO LINES	EXISTING DISTRIBUTION LINE	WATERMAIN	EXISTING GAS EASEMENT	ROAD SIDE DRAINAGE	PROPOSED UNION GAS EASEMENT	MUNICIPAL DRAINAGE	TEMPORARY WORKING AREA	CHAIN LINK FENCE	MINIMUM DISTURBANCE ZONE	HYDRO TOWER	TEST BOX	STREAM CROSSING				
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<p><b>ENGINEER:</b></p> <p><b>uniongas</b>                  An Enbridge Company</p> <p><b>PROPOSED NPS 12 DOVER CENTRE LINE LOOP PROJECT</b>                  MUNICIPALITY OF CHATHAM-KENT</p> <p><b>PRELIMINARY</b></p> <table border="1"> <tr> <td>DRAWN BY</td> <td>K.W. GUERIN</td> <td>DATE</td> <td>2017-09-14</td> <td>PLOT SPEC.</td> <td>1:500</td> </tr> <tr> <td>CHECKED BY</td> <td></td> <td>DATE</td> <td></td> <td>CAD CODE</td> <td>PL2133-01</td> </tr> <tr> <td>APPROVED BY</td> <td></td> <td>DATE</td> <td></td> <td>FILE REVISION DATE</td> <td>0000:00:00</td> </tr> <tr> <td>CORRECTION</td> <td></td> <td>DATE</td> <td></td> <td>DISTRICT</td> <td></td> </tr> </table> <p>STRIP SIZE 1 OF 2 SHEET DRAWING No. PL2133</p>					DRAWN BY	K.W. GUERIN	DATE	2017-09-14	PLOT SPEC.	1:500	CHECKED BY		DATE		CAD CODE	PL2133-01	APPROVED BY		DATE		FILE REVISION DATE	0000:00:00	CORRECTION		DATE		DISTRICT	
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CORRECTION		DATE		DISTRICT																								



1	2	3	4	5
<p><b>CONSTRUCTION NOTES:</b></p> <ol style="list-style-type: none"> <li>REFER TO JOB PACKAGE SPECIAL INSTRUCTIONS AND TYPICAL CONSTRUCTION DRAWINGS FOR ALL DETAILED CONSTRUCTION PROCEDURES.</li> <li>CONTRACTOR RESPONSIBLE FOR ALL UTILITY LOCATES.</li> <li>MINIMUM DEPTH OF COVER 1.2m</li> <li>PROTECT EXISTING LINES DURING CONSTRUCTION.</li> <li>MAINTAIN MIN. 300mm CLEARANCE BETWEEN PROPOSED MAIN AND OTHER UTILITIES AND UNDERGROUND STRUCTURES THAT ARE CROSSED.</li> <li>ALL CULVERTS, END WALL TREATMENT AND TILE DRAINS REMOVED DURING CONSTRUCTION ARE TO BE RESTORED TO MATCH EXISTING CONDITIONS.</li> <li>RESTORATION INCLUDES TOPSOIL SEEDING AND TREE PLANTING.</li> <li>RESTORE DRIVEWAYS TO MATCH EXISTING.</li> <li>EXISTING ASPHALT AREAS TO BE RESTORED TO MATCH EXISTING.</li> <li>RESTORE ALL OPEN DRAINS TO MATCH ORIGINAL GRADE AND CONTOUR CONDITIONS.</li> <li>ALL WORK MUST BE IN ACCORDANCE WITH THE UNION GAS CONSTRUCTION AND MAINTENANCE MANUAL SPECIFICATIONS.</li> <li>CE TEST AND THICKNESS/LAMINATION SCANS ARE TO BE COMPLETED PRIOR TO WELDING.</li> <li>RADIOGRAPH 100% BUTT WELDS AND LONG SEAM WELDS.</li> <li>MAG. PARTICLE 100% FILLET WELDS AND FULL ENCIRCLEMENT WELDS.</li> <li>ULTRASONICALLY INSPECT ALL IN SERVICE FILLET WELDS AND FULL-ENCIRCLEMENT WELDS IMMEDIATELY AFTER AND 48 HOURS POST WELD.</li> <li>EXISTING NPS 10 PIPING TO BE ABANDONED AND REMOVED.</li> <li>CURRENT REQUIREMENT TEST REQUIRED AFTER HDD TO VERIFY COATING INTEGRITY.</li> <li>CONTRACTOR TO FIELD VERIFY EXISTING PIPE AND UTILITIES AND TIE IN LOCATIONS.</li> </ol>				



**LEGEND**

	PROPOSED PIPELINE		LOT LINE
	EXISTING TRANSMISSION PIPELINE		BELL (CABLE)
	EXISTING PIPELINE ABANDONED		COGECO (CABLE)
	PROPOSED HDD PIPE		EXISTING HYDRO LINES
	EXISTING DISTRIBUTION LINE		WATERMAIN
	EXISTING GAS EASEMENT		ROAD SIDE DRAINAGE
	PROPOSED UNION GAS EASEMENT		MUNICIPAL DRAINAGE
	TEMPORARY WORKING AREA		CHAIN LINK FENCE
	MINIMUM DISTURBANCE ZONE		HYDRO TOWER
	TEST BOX		STREAM CROSSING

Title: PROPOSED NPS 12 DOVER CENTRE LINE LOOP PROJECT  
 Project: PROPOSED NPS 12 DOVER CENTRE LINE LOOP PROJECT  
 X, Y Coordinate: WORK AREA CO-ORDINATES: LONG: -82.335716° LAT: 42.483744°  
 Municipality: MUNICIPALITY OF CHATHAM-KENT (GEOGRAPHICAL TOWNSHIP OF DOVER)  
 DESIGN:  
 - DESIGNED TO CSA Z662-15  
 - DESIGN CLASS 3  
 - DESIGN FACTOR 0.8  
 - DESIGN TEMPERATURE: -10°C  
 - DESIGN PRESSURE: -105% BELOW GRADE  
 - DESIGN PRESSURE: -6895 kPa

TEST INFORMATION  
 Minimum Pressure: 9653 kPa  
 Maximum Pressure: 10942 kPa  
 Duration: 24 hours hydrostatic  
 Medium: Water  
 (Piping to be installed by HDD also requires a one-hour pre-test at pressure indicated above)  
 TEST DATE:  
 QUALIFIED INDIVIDUAL:

No.	DATE	BY	APP'D	REMARKS

**ENGINEER:**

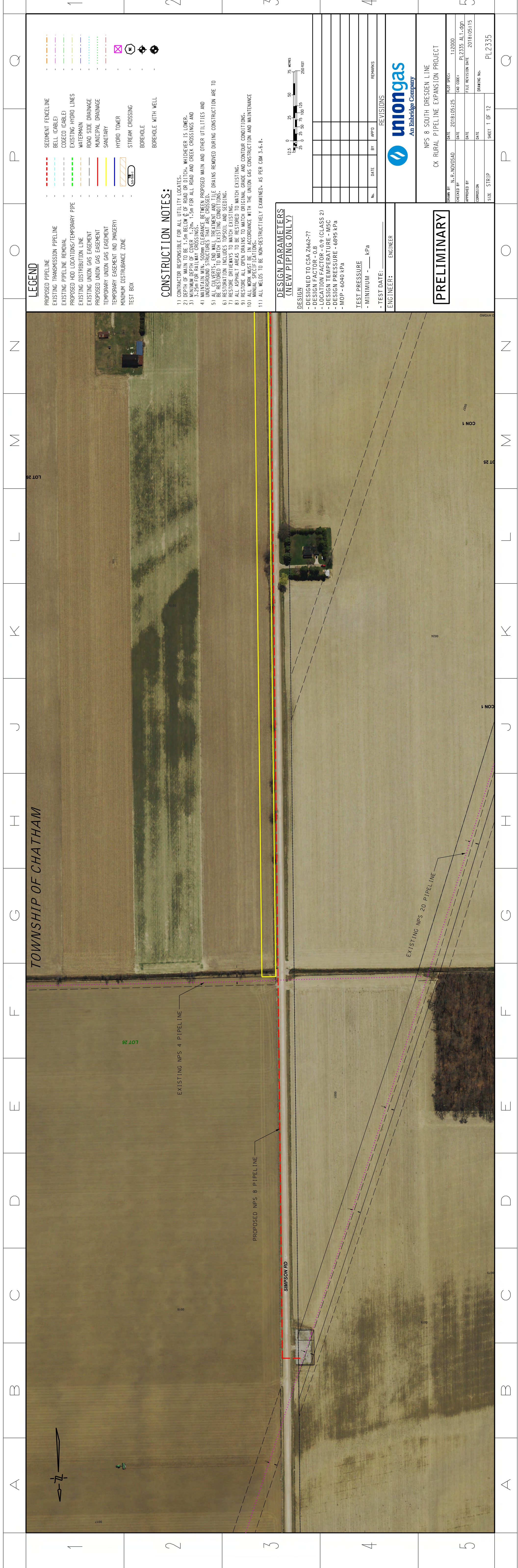
PROPOSED NPS 12 DOVER CENTRE LINE LOOP PROJECT  
 MUNICIPALITY OF CHATHAM-KENT

DRAWN BY	K.W. GUERIN	DATE	2017-09-14	PLOT SPEC:	1:500
CHECKED BY		DATE		CAD CODE:	PL2132-02
APPROVED BY		DATE		FILE REVISION DATE	0000:00:00
CORRECTION		DATE		DISTRICT	

STRIP: 2 OF 2  
 SHEET: 2 OF 2  
 DRAWING No.: PL2133

- CONSTRUCTION NOTES:**
- REFER TO JOB PACKAGE SPECIAL INSTRUCTIONS AND TYPICAL CONSTRUCTION DRAWINGS FOR ALL DETAILED CONSTRUCTION PROCEDURES.
  - CONTRACTOR RESPONSIBLE FOR ALL UTILITY LOCATES.
  - MINIMUM DEPTH OF COVER 1.2m
  - PROTECT EXISTING LINES DURING CONSTRUCTION.
  - MAINTAIN MIN. 3000mm CLEARANCE BETWEEN PROPOSED MAIN AND OTHER UTILITIES AND UNDERGROUND STRUCTURES THAT ARE CROSSED.
  - ALL CULVERTS, END WALL TREATMENT AND TILE DRAINS REMOVED DURING CONSTRUCTION ARE TO BE RESTORED TO MATCH EXISTING CONDITIONS.
  - RESTORATION INCLUDES TOPSOIL SEEDING AND TREE PLANTING.
  - RESTORE DRIVEWAYS TO MATCH EXISTING.
  - EXISTING ASPHALT AREAS TO BE RESTORED TO MATCH EXISTING.
  - RESTORE ALL OPEN DRAINS TO MATCH ORIGINAL GRADE AND CONTOUR CONDITIONS.
  - ALL WORK MUST BE IN ACCORDANCE WITH THE UNION GAS CONSTRUCTION AND MAINTENANCE MANUAL SPECIFICATIONS.
  - CE TEST AND THICKNESS/LAMINATION SCANS ARE TO BE COMPLETED PRIOR TO WELDING.
  - RADIOGRAPH 100% BUTT WELDS AND LONG SEAM WELDS.
  - MAG. PARTICLE 100% FILLET WELDS AND FULL ENCIRCLEMENT WELDS.
  - ULTRASONICALLY INSPECT ALL IN SERVICE FILLET WELDS AND FULL-ENCIRCLEMENT WELDS IMMEDIATELY AFTER AND 48 HOURS POST WELD.
  - EXISTING NPS 10 PIPING TO BE ABANDONED AND REMOVED.
  - CURRENT REQUIREMENT TEST REQUIRED AFTER HDD TO VERIFY COATING INTEGRITY.
  - CONTRACTOR TO FIELD VERIFY EXISTING PIPE AND UTILITIES AND TIE IN LOCATIONS.





**LEGEND**

--- (dashed red)	SEDIMENT FENCELINE
--- (dashed blue)	BELL (CABLE)
--- (dashed green)	COLEO (CABLE)
--- (dashed yellow)	EXISTING HYDRO LINES
--- (dashed purple)	WATERMAIN
--- (dashed orange)	ROAD SIDE DRAINAGE
--- (dashed pink)	MUNICIPAL DRAINAGE
--- (dashed light blue)	HYDRO TOWER
--- (dashed light green)	STREAM CROSSING
--- (dashed light purple)	BOREHOLE
--- (dashed light orange)	BOREHOLE WITH WELL
--- (dashed light pink)	PROPOSED PIPELINE
--- (dashed light blue)	EXISTING TRANSMISSION PIPELINE
--- (dashed light green)	EXISTING PIPELINE REMOVAL
--- (dashed light yellow)	PROPOSED HOJ LOCATIONS/TEMPORARY PIPE
--- (dashed light purple)	EXISTING DISTRIBUTION LINE
--- (dashed light orange)	PROPOSED UNION GAS EASEMENT
--- (dashed light pink)	TEMPORARY UNION GAS EASEMENT
--- (dashed light blue)	TEMPORARY EASEMENT (NO IMAGERP)
--- (dashed light green)	MINIMUM DISTURBANCE ZONE
--- (dashed light purple)	TEST BOX

**CONSTRUCTION NOTES:**

- CONTRACTOR RESPONSIBLE FOR ALL UTILITY LOCATIONS.
- ALL UTILITIES TO BE LOCATED AND MARKED PRIOR TO CONSTRUCTION.
- MINIMUM BURY OF COVER SHALL BE 1.2m FOR ALL ROAD AND CREEK CROSSINGS AND 3.25m FOR RAILWAY CROSSINGS.
- UNDERGROUND STRUCTURES THAT ARE CROSSED, RESTORED TO ORIGINAL CONDITION AND SEEDING.
- ALL CULVERTS, END WALL TREATMENT AND TILE DRAINING REMOVED DURING CONSTRUCTION ARE TO BE RESTORED TO ORIGINAL CONDITION.
- RESTORATION INCLUDES TOPSOIL AND SEEDING.
- RESTORE DRIVEWAYS TO MATCH EXISTING.
- ALL ASPHALT AREAS TO BE RESTORED TO MATCH EXISTING.
- ALL WORK MUST BE IN ACCORDANCE WITH THE UNION GAS CONSTRUCTION AND MAINTENANCE MANUAL SPECIFICATIONS.
- ALL WELDS TO BE NON-DESTRUCTIVELY EXAMINED - AS PER CAN 3.6-8.

**DESIGN PARAMETERS (NEW PIPING ONLY)**

DESIGN

- DESIGNED TO CSA Z662-17
- DESIGN FACTOR - 0.8
- LOCATION FACTOR - 0.9 (CLASS 2)
- DESIGN TEMPERATURE - M5C
- DESIGN PRESSURE - 6895 KPa
- MOP - 6040 KPa

TEST PRESSURE

- MINIMUM - \_\_\_\_\_ KPa
- TEST DATE: \_\_\_\_\_

ENGINEER: \_\_\_\_\_ ENGINEER

**UNIONGAS**  
 An Enbridge Company

MPS 8 SOUTH DRESDEN LINE  
 CK RURAL PIPELINE EXPANSION PROJECT

DATE	2018-05-25	PROJ. NO.	112000
DATE	2018-05-25	CONTRACT NO.	PL2335-AL-L-091
DATE	2018-05-15	ISSUE NO.	PL2335
DATE	2018-05-15	ISSUE NO.	PL2335

PRELIMINARY



**LEGEND**

--- (dashed red)	SEDIMENT FENCELINE
--- (dashed blue)	BELL (CABLE)
--- (dashed green)	COLEO (CABLE)
--- (dashed yellow)	EXISTING HYDRO LINES
--- (dashed purple)	WATERMAIN
--- (dashed orange)	ROAD SIDE DRAINAGE
--- (dashed pink)	MUNICIPAL DRAINAGE
--- (dashed light blue)	HYDRO TOWER
--- (dashed light green)	STREAM CROSSING
--- (dashed light purple)	BOREHOLE
--- (dashed light orange)	BOREHOLE WITH WELL
--- (dashed light pink)	PROPOSED PIPELINE
--- (dashed light blue)	EXISTING TRANSMISSION PIPELINE
--- (dashed light green)	EXISTING PIPELINE REMOVAL
--- (dashed light yellow)	PROPOSED HOJ LOCATIONS/TEMPORARY PIPE
--- (dashed light purple)	EXISTING DISTRIBUTION LINE
--- (dashed light orange)	PROPOSED UNION GAS EASEMENT
--- (dashed light pink)	TEMPORARY UNION GAS EASEMENT
--- (dashed light blue)	TEMPORARY EASEMENT (NO IMAGERP)
--- (dashed light green)	MINIMUM DISTURBANCE ZONE
--- (dashed light purple)	TEST BOX

**CONSTRUCTION NOTES:**

- CONTRACTOR RESPONSIBLE FOR ALL UTILITY LOCATIONS.
- ALL UTILITIES TO BE LOCATED AND MARKED PRIOR TO CONSTRUCTION.
- MINIMUM BURY OF COVER SHALL BE 1.2m FOR ALL ROAD AND CREEK CROSSINGS AND 3.25m FOR RAILWAY CROSSINGS.
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- ALL WELDS TO BE NON-DESTRUCTIVELY EXAMINED - AS PER CAN 3.6-8.

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DESIGN

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- DESIGN FACTOR - 0.8
- LOCATION FACTOR - 0.9 (CLASS 2)
- DESIGN TEMPERATURE - M5C
- DESIGN PRESSURE - 6895 KPa
- MOP - 6040 KPa

TEST PRESSURE

- MINIMUM - \_\_\_\_\_ KPa
- TEST DATE: \_\_\_\_\_

ENGINEER: \_\_\_\_\_ ENGINEER

**UNIONGAS**  
 An Enbridge Company

MPS 8 SOUTH DRESDEN LINE  
 CK RURAL PIPELINE EXPANSION PROJECT

DATE	2018-05-25	PROJ. NO.	112000
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DATE	2018-05-15	ISSUE NO.	PL2335
DATE	2018-05-15	ISSUE NO.	PL2335

PRELIMINARY



























Ministry of Infrastructure

Ministère de l'Infrastructure

Office of the Minister

Bureau du ministre

Hearst Block, 8<sup>th</sup> Floor  
 900 Bay Street  
 Toronto, Ontario M7A 1L2  
 Telephone: 416-325-6666  
 Fax: 416-314-5464

Édifice Hearst, 8<sup>e</sup> étage  
 900, rue Bay  
 Toronto (Ontario) M7A 1L2  
 Téléphone : 416 325-6666  
 Télécopieur : 416 314-5464

**DEC 08 2017**

Our File: **UNG-NGGP2017**

Ms. Sarah Van Der Paelt  
 Director, Business Development  
 Union Gas Ltd.  
 50 Keil Drive North  
 Chatham, Ontario  
 N7M 5M1  
[svanderpaelt@uniongas.com](mailto:svanderpaelt@uniongas.com)

Dear Ms. Van Der Paelt:

I am pleased to inform you that two of your projects have been selected for conditional funding approval under the Natural Gas Grant Program, resulting in total project funding of \$9,600,000.00.

These approvals are conditional upon the projects obtaining final approval from the Ontario Energy Board (OEB), as applicable, following which Union Gas Ltd. will be eligible to enter into two Transfer Payment Agreements with the province.

Once the respective agreements are signed by Union Gas Ltd. and subject to the related terms and conditions, the province will provide funding towards the total eligible project costs of each project, as described in the table below:

Project Title	Maximum Provincial Contribution
Chatham-Kent Rural Pipeline Expansion	\$8,000,000.00
Natural Gas Access Northern Mining Operation	\$1,600,000.00

The provincial contribution is limited to these specific projects (i.e. funds are non-transferable).

**This information should be kept confidential until such time as the government has announced funding for these projects.**

The intake was highly competitive. Applications representing over \$500 million in proposed funding were received for the \$100 million program. As a result, a number of projects could not be funded. The Ministry of Infrastructure used a robust evidence-based process and relied on technical experts from a number of provincial ministries to assess applications. For further details on the evaluation criteria, please consult the program guidelines available on Infrastructure Ontario's website: [www.infrastructureontario.ca/NGGP/](http://www.infrastructureontario.ca/NGGP/).

Please note the municipalities or First Nations who passed a council or band resolution supporting specific projects will be notified of the assessment outcome for those projects and have been encouraged to reach out directly to Union Gas Ltd. should they have any questions.

Agency staff are available to provide additional details on your project(s) assessment(s). To facilitate, or should you have any questions, please do not hesitate to contact Infrastructure Ontario by phone at 1-844-357-0725 or by email at [nggp@infrastructureontario.ca](mailto:nggp@infrastructureontario.ca).

Congratulations on your successful applications and we look forward to working with you as you implement these projects.

Sincerely,

A handwritten signature in black ink, appearing to read 'Bob Chiarelli', with a small vertical mark above the end of the signature.

Bob Chiarelli  
Minister

c: Mr. Jeff O'Krucky, Director of New Business, Union Gas Ltd.

**Total Estimated Capital Costs**

**Chatham Kent Rural Project**

<b>Pipeline and Equipment</b>		
13km of NPS 8 Steel Pipe	\$919,000	
Valves, Fittings and Miscellaneous Material	\$759,000	
500m of NPS 12 Steel Pipe	\$52,000	
Valves, Fittings and Miscellaneous Material	\$51,000	
<b>Total Pipeline and Equipment</b>		<b>\$1,781,000</b>
<b>Construction and Labour</b>		
Install 13km of NPS 8 Steel Pipe		
Welding, Boring, Trenching, and Testing	\$9,004,000	
Company Labour, X-Ray, Construction Survey, Legal, Mill Inspection and Consultants	\$2,689,000	
Easements, Lands, Damages & Regulatory	\$1,543,000	
Install 500 meters of NPS 12 Steel Pipe		
Welding, Boring, Trenching, and Testing	\$639,000	
Company Labour, X-Ray, Construction Survey, Legal, Mill Inspection and Consultants	\$191,000	
Easements, Lands, Damages & Regulatory	\$80,000	
<b>Total Construction and Labour</b>		<b>\$14,146,000</b>
<b>Total Equipment and Construction and Labour</b>		<b>\$15,927,000</b>
Contingency	\$2,957,000	
Interest During Construction	\$182,000	
<b>Total Estimated Capital Costs – 2019 Construction</b>		<b>\$19,066,000</b>





**Chatham-Kent Rural Project  
 InService Date: Nov-01-2019  
 (Project Specific DCF Analysis)**

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

**Discounting Assumptions**

Project Time Horizon

18 years commencing at facilities in-service date of  
 01 Nov 19

Discount Rate

Incremental after-tax weighted average  
 After Tax Cost of Capital of 5.1%

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

**Net Cash Inflow:**

Incremental Revenue:

Approved per EB 2017-0087 Effective January 1, 2018

Operating and Maintenance Expense

Estimated incremental cost

Incremental Tax Expenses:

Municipal Tax  
 Income Tax Rate

Estimated incremental cost  
 26.50%

CCA Rates:

CCA Classes:	CCA Class	CCA Rate
Steel Mains	49	8%
Dist'n System	51	6%
Dist'n Service	51	6%

Declining balance rates by CCA class:

**Cash Outflow:**

Incremental Capital Costs Attributed

Refer to Schedule 12

Change in Working Capital

5.051% applied to O&M

**DESIGN AND PIPE SPECIFICATIONS**

**NPS 8 SECTION**

**Chatham-Kent Rural Project**

**Design Specifications:**

Design Class Location	-	Class 3
Design Factor	-	0.8
Location Factor (Road)	-	0.625
Location Factor (General)	-	0.700
Joint Factor	-	1.00
Design Temperature	-	M5C (below-grade) M30C (above-grade)
Design Pressure	-	6895 kPa
Test Medium	-	Water
Minimum Test Pressure	-	9653 kPa
Minimum Valve/Flange Rating	-	PN 100
Minimum Depth of Cover (General)	-	0.6 m
Minimum Depth of Cover (Road)	-	1.2 m

**Pipe Specifications:**

Size	-	NPS 8
Outside Diameter	-	219.1 mm
Wall Thickness	-	Minimum 5.6 mm
Grade	-	Minimum 359 MPa
Type	-	Electric Resistance Weld
Description	-	C.S.A. Standard Z245.1
Category	-	Cat. I, M5C
Coating	-	FBE or YJ
% SMYS	-	37.6%- Based on the above minimums

## DESIGN AND PIPE SPECIFICATIONS

### NPS 12 SECTION

#### Chatham-Kent Rural Project

##### Design Specifications:

Design Class Location	-	Class 3
Design Factor	-	0.8
Location Factor (Road)	-	0.625
Location Factor (General)	-	0.700
Joint Factor	-	1.00
Design Temperature	-	M5C (below-grade) M30C (above-grade)
Design Pressure	-	6895 kPa
Test Medium	-	Water
Minimum Test Pressure	-	9653 kPa
Minimum Valve/Flange Rating	-	PN 100
Minimum Depth of Cover (General)	-	0.6 m
Minimum Depth of Cover (Road)	-	1.2 m

##### Pipe Specifications:

Size	-	NPS 12
Outside Diameter	-	323.9 mm
Wall Thickness	-	Minimum 9.5 mm
Grade	-	Minimum 290 MPa
Type	-	Electric Resistance Weld
Description	-	C.S.A. Standard Z245.1
Category	-	Cat. I, M5C
Coating	-	FBE or YJ
% SMYS	-	40.5% - Based on the above minimums

## **GENERAL TECHNIQUES AND METHODS OF CONSTRUCTION**

### **Chatham-Kent Rural Project**

1. Pipeline construction is divided into several crews that create a mobile assembly line. Each crew performs a different function, with a finished product left behind when the last crew has completed its work.
2. Union Gas will provide its own inspection staff to ensure the contractor meets its contractual obligations.
3. If necessary, trees are cleared in the winter before construction to avoid avian nesting concerns. If the land cannot be accessed in the winter due to incomplete easement negotiations or other reason, an ornithologist will inspect the site and direct any avian mitigation needed.
4. The grading crew constructs approaches through road, and railway ditches to allow equipment onto the working side of the running line. The grading crew strips a certain width of topsoil with bulldozers and graders so that it will not be mixed with the subsoil later removed from the trench. In hilly terrain, the grade is leveled to provide a stable working surface.
5. The contractor erects safety barricades around excavations adjacent to roads. Flagmen and signs are used for traffic control. The running line is fenced nightly at all access points.
6. The stringing crew lays pipe on wooden skids on the working side of the running line adjacent to the proposed trench area. Wherever possible, the stringing trucks hauling the pipe travel down the centre of the proposed trench to minimize soil compaction effects.

7. The contractor, by use of a trenching machine or hoe excavator, will excavate a trench approximately 0.75 metre in width for the pipeline, depending on ground conditions at the time. Accesses across the running line including laneways are left unexcavated where requested by the landowner. All tile cut during trench excavation is flagged at the trench and running line limits to signify to the tile repair crew that a repair is required. All utilities that will be crossed or paralleled closely by the pipeline will be located prior to trenching.
8. Bedrock will be removed by mechanical methods such as excavators using a rock bucket or a “hoe ram”.
9. The required road crossing will be completed by open cut, with municipal approval.
10. Next, the pipe is welded into one continuous length. All welds are ultrasonically and/or radiographically inspected and then coated and lowered into the trench. After sections of pipe are lowered into the trench, subsoil is backfilled by a drag line, bulldozer or backhoe. If the excavated material contains too much rock for direct backfilling, it may be sifted to separate the fine parts from the rock. If such separation is not possible due to the consistency of the material or if a large quantity of rock remains, the unsuitable materials will be hauled away and sand brought in for backfilling.
11. The tie-in crew is responsible for the installation of pipe across road crossing to minimize the length of time that the road will be out of service. The tie-in crew is also responsible for the pipeline installation at the connection point at the start and end of the new pipe.
12. The pipe is filled with water and hydrostatically tested to prove its integrity. Cathodic protection is applied to the completed pipeline.

13. After the trench is backfilled, any cut drain tile is repaired. Union undertakes that it is responsible for the tile repair resulting from construction and will stand good for the tile repairs at any further date after construction of the pipeline. Union retains the services of a tile consultant to determine if it is better to repair individual tiles crossing the trench or install a header system.
14. The clean-up crew is the last crew on the property. On farmland, it prepares the subsoil on the stripped portion of the running line by subsoiling or deep chisel ploughing to break up compaction and picking all stones down to 100 millimetres in diameter. The trench line is crowned with enough subsoil to allow for trench settlement. Excess subsoil is removed to an acceptable location on the landowner's property or hauled to a disposal site. Topsoil is then replaced using a drag line or backhoe and small bulldozers to minimize compaction. The working side of the running line is then chisel ploughed and stone picked. The clean-up crew will also repair fences, pick up debris, replace sod in landscaped areas and reseed sensitive areas such as woodlots, ditch banks and stream crossings.
15. When the clean-up is completed, the landowner is asked by a Company representative to sign a clean-up acknowledgement form if satisfied with the clean-up. This form, when signed, allows release of payment for the clean-up to the contractor. This form in no way releases the Company from its obligation for tile repairs, compensation for damages and/or further clean-up as required due to erosion or subsidence directly related to pipeline construction.

# Chatham-Kent Rural Project

## PROJECT SCHEDULE

PHASE	2018												2019												2020												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
OEB																																					
PREPARE MATERIAL																																					
ENVIRONMENTAL ASSESSMENT (ADDENDUM)																																					
FILING					*																																
DECISION																																					
MATERIAL																																					
DESIGN																																					
MATERIAL ORDER																																					
LAND/LAND RIGHTS																																					
NEGOTIATIONS																																					
TITLE SEARCH																																					
SURVEY																																					
PERMITS																																					
CONTRACT TENDERING																																					
CONSTRUCTION																																					
SURVEY																																					
CLEARING / GRADING																																					
STRINGING																																					
WELDING																																					
INSTALLATION																																					
PRESSURE TESTING																																					
TIE-INS																																					
BACKFILL																																					
COMMISSIONING																																					
CLEANUP																																					
IN SERVICE																																					
YEAR AFTER CLEANUP																																					

Landowner Listing - Base Line Section

Chatham-Kent Rural Project

File #	PIN	NAME & ADDRESS	PROPERTY DESCRIPTION	FEE SIMPLE		TEMPORARY EASEMENT		MORTGAGE, LIEN/LEASE &/OR ENCUMBRANCES	
				Dimensions (Metres) Area W x L Hectares	Dimensions (Metres) Area W x L Hectares	Dimensions (Metres) Area W x L Hectares	Dimensions (Metres) Area W x L Hectares		
CK1	00592-0081								
CK2	00594-0019		SW 1/4 LT 26 CON 1 CHATHAM GORE S/T CH39610; CHATHAM-KENT			15 x 756.88	1.135		
CK3	00757-0059		PT LT 12 CON 14 CHATHAM PT 2, 24R3013; CHATHAM-KENT			15 x 430.56 irr x irr	0.645 0.045		
CK4	00757-0079		PT LT 12 CON 14 CHATHAM AS IN 340678; EXCEPT PT 1, 24R6899; CHATHAM-KENT			15 x 447.33	0.670		
<b>CENTRE SIDEROAD</b>									
CK5	00757-0062		PT LT 13 CON 14 CHATHAM PT 2, 24R2923 AND PT 1, 24R3573; CHATHAM-KENT			15 x 107.24	0.160		
CK6	00757-0085		PT LT 13 CON 14 CHATHAM PT 1, 24R8066 EXCEPT PT 1, 24R8385; CHATHAM-KENT			15 x 209.94 30 x 162.36	0.314 0.487		
<b>OLDFIELD LINE</b>									
CK7	00757-0030		PT LT 13 CON 13 CHATHAM AS IN 663491; CHATHAM-KENT			15 x 255.09	0.382		
CK8	00757-0033		PT LT 14 CON 13 CHATHAM AS IN 376136 EXCEPT CH45284; CHATHAM-KENT			15 x 517.38 30 x 190.89	0.776 0.572		
CK9	00757-0034		PT LT 14-15 CON 13 CHATHAM AS IN 607112; CHATHAM-KENT			15 x 321.07	0.481		
CK10	00757-0035		PT LT 15 CON 13 CHATHAM AS IN 470998; S/T CH34278 PARTIALLY SURRENDERED BY 294824; CHATHAM-KENT			15 x 607.45 15 x irr	0.911 0.086		



File #	PIN	NAME & ADDRESS	PROPERTY DESCRIPTION	FEE SIMPLE		TEMPORARY EASEMENT		MORTGAGE, LIEN/LEASE &/OR ENCUMBRANCES
				Dimensions (Metres) Area W x L Hectares	Dimensions (Metres) Area W x L Hectares	Dimensions (Metres) Area W x L Hectares	Dimensions (Metres) Area W x L Hectares	
<b>BUSH LINE</b>								
CK11	00755-0045		PT LT 16-17 CON 12 CHATHAM AS IN 575188 S/T INTEREST IN 575188; S/T 520761; CHATHAM-KENT			15 x 552.82 15 x 100.00 15 x 75.00 15 x 285.05	0.829 0.150 0.112 0.427	
CK12	00755-0047		PT LT 17 CON 12 CHATHAM PT 1, 24R2795; S/T 520761; CHATHAM-KENT			15 x 186.72	0.280	
CK13	00755-0075		PT LT 17-18 CON 12 CHATHAM AS IN 401300 EXCEPT 24R8867 S/T LIFE INTEREST IN 309883; S/T 600008, CH43047; CHATHAM-KENT			15 x 464.79 15 x 100.00 15 x 60.00 15 x 206.36	0.697 0.150 0.090 0.309	
<b>GREEN VALLEY</b>								
CK15	00755-0027		PT LT 18 CON 11 CHATHAM AS IN 617284; CHATHAM-KENT			15 x 343.71 15 x 116.00 30 x irr	0.515 0.174 0.283	
<b>LINDSAY ROAD</b>								
CK15	00755-0029		PT LT 19-20 CON 11 CHATHAM AS IN 485607 S/T INTEREST IN 485607; CHATHAM-KENT			15 x 1110.24 15 x 200.00	1.665 0.300	
<b>UNION LINE</b>								
CK16	00752-0034		PT LT 20-21 CON 10 CHATHAM AS IN 472980; CHATHAM-KENT			30 x irr 15 x irr	0.239 0.227	
CK17	00752-0147		PT LTS 20 & 21 CON 10 CHATHAM, PT 1, 24R10094 MUNICIPALITY CHATHAM-KENT			15 x 194.86	0.292	
CK18	00752-0148		PART OF LOT 21 CON 10 CHATHAM DESIGNATED AS PART 1, 24R-10274 MUNICIPALITY CHATHAM-KENT			15 x 290.85 15 x 65.00	0.097 0.292	
CK19	00752-0059		PT LT 21 CON 10 CHATHAM AS IN 653197; CHATHAM-KENT			15 x 50.00	0.075	

File #	PIN	NAME & ADDRESS	PROPERTY DESCRIPTION	FEE SIMPLE		TEMPORARY EASEMENT		MORTGAGE, LIEN/LEASE &/OR ENCUMBRANCES
				Dimensions (Metres) Area W x L Hectares	Dimensions (Metres) Area W x L Hectares	Dimensions (Metres) Area W x L Hectares	Dimensions (Metres) Area W x L Hectares	
<b>NORTH STREET</b>								
CK20	00752-0082		PT LT 21 CON 10 CHATHAM PT 3 & 4 24R4817; S/T INTEREST IN 538794; CHATHAM-KENT			5 x 60.84	0.030	
CK21	00752-0085		PT LT 21 CON 10 CHATHAM PT 1 24R8560; S/T EXECUTION 08-0000093, IF ENFORCEABLE; CHATHAM-KENT			5 x 47.58	0.023	
CK22	00752-0086		PT LT 21 CON 10 CHATHAM AS IN 662112 (SECONDLY) EXCEPT PT 1 24R8560; CHATHAM-KENT			30 x 71.67	0.215	
CK23	00752-0084		PT LT 21 CON 10 CHATHAM AS IN 595804 (FIRSTLY) EXCEPT 24R4099; S/T 571648, CH35788; S/T EXECUTION 99-0000052, IF ENFORCEABLE; CHATHAM-KENT			30 x 154.61	0.463	
CK24	00752-0049		PART OF LOTS 21 & 22, CONCESSION 10, GEOGRAPHIC TOWNSHIP OF CHATHAM, DESIGNATED AS PART 6, 24R9635 SUBJECT TO AN EASEMENT IN GROSS AS IN CK98192 MUNICIPALITY CHATHAM-KENT					
CK25	00752-0073		PT LT 22 CON 10 CHATHAM AS IN 661964; CHATHAM-KENT			5 x 105.08	0.052	
CK26	00752-0069		PT LT 21-22 CON 10 CHATHAM AS IN 595804 (SECONDLY); S/T EXECUTION 99-0000052, IF ENFORCEABLE; CHATHAM-KENT			30 x 90.00 15 x 344.56	0.270 0.516	
<b>CEDAR HEDGE LINE</b>								
CK27	00752-0019		PT LT 22 CON 9 CHATHAM AS IN 458346; CHATHAM-KENT			15 x 232.41	0.348	
CK28	00752-0066		PT LT 22-23 CON 9 CHATHAM AS IN 621059; CHATHAM-KENT			15 x 268.37 30 x 110.29	0.402 0.330	
CK29	00752-0020		PT LT 23-24 CON 9 CHATHAM AS IN 173135 EXCEPT 614124 & D306; S/T THE RIGHTS OF OWNERS OF ADJOINING PARCELS, IF ANY, UNDER 504978; S/T CH33241; CHATHAM-KENT			15 x 305.72 30 x 68.48	0.458 0.205	
CK30	00752-0060		PT LT 24 CON 8 CHATHAM; PT LT 24 CON 9 CHATHAM; PT LT 1 CON 7 CAMDEN; PT RDAL BTN CON 8 AND CON 9 CHATHAM; PT RDAL BTN TWP OF CAMDEN AND TWP OF CHATHAM CLOSED BY 379128; AS IN 504978; S/T THE RIGHTS OF OWNERS OF ADJOINING PARCELS, IF ANY, UNDER 173135; S/T 392323, 392503, CH33642, CH34399; CHATHAM-KENT			15 x 710.38 15 x 140.00 30 x 65.00	1.065 0.210 0.195	
<b>COUNTRY VIEW LINE</b>								
CK31	00733-0042		PT LT 1 CON 7 CAMDEN AS IN 284105 S OF 24R1339; S/T 638560; CHATHAM-KENT	irr	x irr	1.000		15 x 283.57 0.425

Landowner Listing - Bear Line Section

Chatham-Kent Rural Project

File #	PIN	NAME & ADDRESS	PROPERTY DESCRIPTION	PERMANENT EASEMENT Dimensions (Metres) Area W x L Hectares	TEMPORARY EASEMENT Dimensions (Metres) Area W x L Hectares	MORTGAGE, LIEN/LEASE &/OR ENCUMBRANCES
D1	00768-0165 (LT)		PT LT 20 CON 11 DOVER AS IN 473959, EXCEPT PTS 2 AND 3 PL 24R10268; S/T DO28924 PARTIALLY SURRENDERED BY 205561; S/T 195266; CHATHAM-KENT		10.0 x 53.6 0.050 10.0 x 422.1 0.420	
D2	00771-0178 (LT)		PART OF LOT 20, CONCESSION 10 DOVER AS IN R667563, SAVE & EXCEPT PART 4 ON D1085 & PART 1 ON PLAN 24R10214 SUBJECT TO AN EASEMENT AS IN 264224 MUNICIPALITY CHATHAM-KENT		10 x 28.0 0.028	
<b>FEE TAKING</b>						
D1	00768-0165 (LT)		PT LT 20 CON 11 DOVER AS IN 473959, EXCEPT PTS 2 AND 3 PL 24R10268; S/T DO28924 PARTIALLY SURRENDERED BY 205561; S/T 195266; CHATHAM-KENT	22.0 x 32.0 0.070		

**OPCC Summary of Comments**

**TO BE FILED AT A LATER DATE**

**Indigenous Consultation Report**  
**Chatham Kent Rural Pipeline Expansion project**  
**Bearline Section**

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**Indigenous Consultation Report**  
**Chatham Kent Rural Pipeline Expansion project**  
**Bearline Section**

1. **Project Description**

To increase capacity and accommodate additional demand for natural gas in the Chatham-Kent area, Union Gas is proposing to construct Chatham-Kent Rural Pipeline Expansion project (“proposed pipelines”). The proposed pipelines will meet the growing residential, commercial, and industrial market demand for natural gas in the Chatham-Kent area.

The Chatham Kent Rural Expansion Project will consist of two pipelines: a 500 metres of NPS 12 pipeline (“Bearline Section”) and 13 km of NPS 8 pipeline (“Baseline Section”). The Bearline Section will extend from the Dover Centre Valve Site to the Dover Centre Transmission Station along Bearline Road in the former Dover Township. The Baseline Section will extend from the Simpson Road Station to a new Station near the corner of Baseline Road and Kent Bridge Road in the former Townships of Chatham and Camden.

This report will deal with the Bearline section.

A preferred route for the proposed pipeline has been determined and can be found in the Environmental Report which was sent to Shereen Smithanik at the Ministry of Energy (“MOE”) on February 8, 2018 as part of the Ontario Pipeline Coordinating Committee review for this project.

2. **First Nation and Métis Communities Consulted**

Consistent with the 7<sup>th</sup> Edition of the Ontario Energy Board’s *Environmental Guidelines for the Location, Construction and Operation of Hydrocarbon Pipelines and Facilities in Ontario, 2016* Union Gas was delegated the procedural aspects of the consultation from the MOE. A copy of the Union Gas letter informing the MOE of the Chatham-Kent Rural Pipeline Expansion project is attached as Schedule 4-B. Following the review of the information received, the Ministry of Energy concluded that the project did not trigger the duty to consult however, encouraged Union Gas to reach out to the following community to provide information on the project. (see Schedule 4-C):

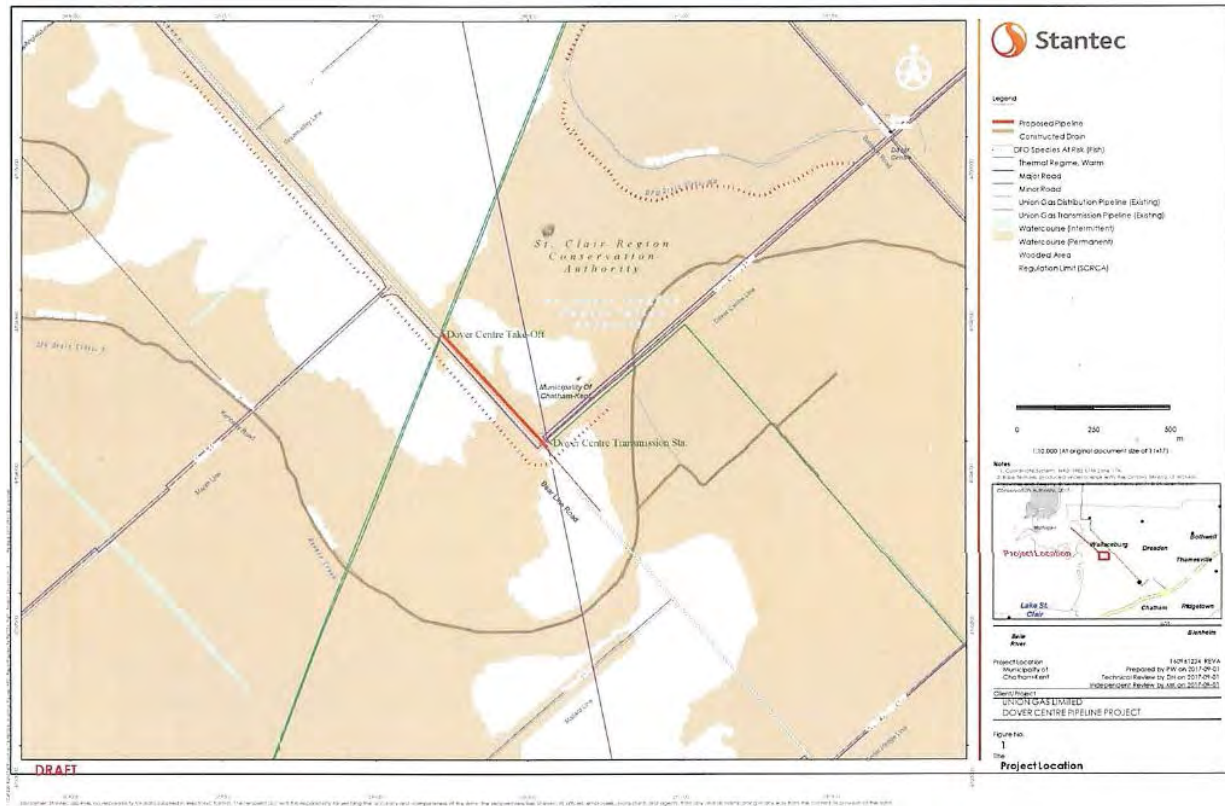
Bkejwanong (Wapole Island First Nation)	Chief Dan Miskokomon Dr. Dean Jacobs, Consultation Manager Janet Macbeth, Project Review Coordinator
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3. **Consultation Activities**

<b>Bkejwanong Territory (Walpole Island First Nation)</b>				
<b>Date</b>	<b>Activity</b>	<b>Issues raises</b>	<b>Outcome</b>	<b>Doc Location</b>
Nov 30/17	Email notification of project sent to Chief Miskokomon, Dr. Dean Jacobs and Janet Macbeth	Notifying of the project description, providing a map and advising that the information is for their review and reach out to us if they require anything further	No response received	Schedule 4-A Pg. 11
Feb 8/18	Union Gas sent letter to Dr. Jacobs and Janet Macbeth	Letter advised that the Environmental Protection Plan (EPP) has been completed. Included was also the EPP for their review.	No response received	Pg. 12

4. Supporting Documentation

Schedule A – Chatham Kent Rural Pipeline Expansion Project Location map





**Schedule B - Letter to Ministry of Energy notifying of Chatham East Reinforcement**

**From:** Ken McCorkle  
**Sent:** September-08-17 11:09 AM  
**To:** 'McCabe, Shannon (ENERGY)'  
**Subject:** Indigenous Summary Report for the Ministry of Energy (Dover Centre Project)

Hello Shannon:

Please find attached Union's Summary Report requesting the Indigenous consultation required for the Dover Centre Project. Could you please confirm receipt of this email?

Regards,  
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



September 8, 2017

Ms. Shannon McCabe  
Manager, Indigenous Energy Policy  
Ministry of Energy  
77 Grenville Street, 6<sup>th</sup> Floor  
Toronto, ON M7A 2C1

Dear Ms. McCabe:

**Re: Dover Centre Natural Gas 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 detailed map of the area.

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, First Nations and Métis 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 Pipeline Project**  
**Dover Centre Pipeline 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 Dover Centre Pipeline 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 is preparing to reinforce the Chatham East pipeline to ensure the continued safe and reliable delivery of natural gas to existing and potential customers in the Municipality of Chatham-Kent. The project would involve looping an existing NPS 8-inch natural gas pipeline with approximately 500 meters of new NPS 12-inch natural gas pipeline. The proposed pipeline is located entirely within the municipality of Chatham-Kent, and will commence at Union's Dover Centre Transmission Station and proceed south to the Dover Centre Take-Off. A map indicating the proposed pipeline location is shown in Figure 1 (attached).

The following co-ordinates define the approximate start point and end point of the project:

	Easting	Northing
Union Gas – Dover Centre Transmission Station	390566	4703982
Union Gas – Dover Centre Take-off	390217	4704355

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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 (2016)*. The ER for this Project is anticipated to be completed and submitted to the OEB as early as December 2017, and the proposed project to be in service by November 2018.

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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Union has retained Stantec to conduct an Environmental Review for the proposed project. The environmental planning process for the Project will be initiated in the fall of 2017, with support provided throughout the process by Stantec's archaeologists, cultural heritage specialists, biologists, and other environmental specialists.

The following provides a general overview of the environmental planning process for the Project:

- **Complete an Environmental Review (ER)**
  - Describe the proposed work necessary for the Project;
  - Describe the procedures that will be followed during construction of the facilities; and,
  - Identify potential environmental impacts and recommend measures to minimize those impacts.
- **Complete all necessary studies and assessments**
  - A licensed archaeologist will review the running line for potential archaeological resources and will conduct assessments as appropriate.
  - 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 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 obtain necessary permits from the St. Clair Region Conservation Authority to work within regulated areas.
  - Union Gas will work with all other relevant governing agencies (i.e. the Ministry of Natural Resources and Forestry) to obtain any permit and/or approval 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 and authorities (such as the St. Clair Region Conservation Authority), municipalities, interested and potentially affected landowners, and interest groups, as well as First Nations and Metis Nations as identified by the MOE.

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### 5. Project Activities

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The running line will be installed using Union standard construction practices 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 impacts of this Project during the construction and operation phases. Mitigation measures to manage and minimize these potential effects will be identified and will include proposed monitoring and contingency plan.

**Schedule C – Ministry of Energy response letter to Union Gas**

**From:** McCabe, Shannon (ENERGY) [<mailto:Shannon.McCabe@ontario.ca>]

Next

Last

**Sent:** November-02-17 5:24 PM

**To:** Ken McCorkle

**Cc:** Sharkey, Emma (ENERGY)

**Subject:** [External] Dover Centre Project

Hello Ken,

Please find the attached letter from the Ministry of Energy regarding the Dover Centre Replacement Project which notes that based on the information provided about the project, the Ministry of Energy is of the view that the duty to consult is not triggered.

However, given the proximity of the project to Bkejwanong Territory (Walpole Island First Nation), it is suggested that you notify Bkejwanong Territory on a for information basis of your proposed project. If they or any other First Nation or Métis community raises concerns about the project, please bring this to our attention at your earliest convenience.

If you have any questions, please let me know.

Best regards,  
Shannon

**Shannon McCabe**  
Indigenous Energy Policy  
Ministry of Energy  
(416) 212-6704

77 Grenville Street, 6th Floor, Toronto, ON M7A 2C1

Ministry of Energy  
77 Grenville Street  
6<sup>th</sup> Floor  
Toronto ON M7A 2C1  
Tel: (416) 327-7178

Ministère de l'Énergie  
77 rue Grenville  
6<sup>e</sup> étage  
Toronto ON M7A 2C1  
Tél: (416) 327-7178



**Indigenous Energy Policy**

VIA EMAIL

November 2, 2017

Ken McCorkle  
Manager, First Nations and Métis Affairs  
Union Gas Limited  
50 Keil Drive North  
Chatham, ON N7M 5M1

**Re: Dover Centre Replacement Project**

Dear Mr. McCorkle:

Thank you for your email dated September 8, 2017, notifying the Ministry of Energy of Union Gas Limited's (Union Gas) intention to apply for Leave to Construct for the Dover Centre Replacement Project and requesting clarification on Duty to Consult requirements.

I understand that the planned project includes the reinforcement of the Chatham East pipeline. The project will involve looping an existing NPS 8-inch natural gas pipeline with approximately 500 meters of new NPS 12-inch natural gas pipeline. The proposed pipeline is located entirely within the municipality of Chatham-Kent and will commence at Union Gas' Dover Centre Transmission Station and will proceed south to the Dover Centre Take-Off.

Based on the information Union Gas has provided to date, the Ministry is of the view that the project will not result in any appreciable adverse impact on the asserted or established rights of First Nation or Métis communities. Should new project information become available that indicates a potential to impact Aboriginal and treaty rights (e.g. the result of the archeological assessment), I request that you notify the Ministry as appropriate.

Given that the Ministry has determined, based on currently available information, that no duty to consult has been triggered it will not be necessary for the Ministry to provide a letter of opinion regarding the sufficiency of consultation.

Also, I recommend that Union Gas Ltd. continue to maintain a record of its interactions with Indigenous communities about the project it has engaged on an interests-basis. In the event that an Indigenous community provides Union Gas with information indicating a potential adverse impact of this project on its Aboriginal or Treaty rights, I request that you notify the Ministry as appropriate.

Please contact Shannon McCabe, Senior Advisor at 416-212-6704 or [shannon.mccabe@ontario.ca](mailto:shannon.mccabe@ontario.ca) if you have any questions or if you wish to discuss the matter in more detail.

Sincerely,

A handwritten signature in black ink, appearing to read "Emma Sharkey".

Emma Sharkey  
A/Manager  
Indigenous Energy Policy

**Correspondence – Bkejwanong Territory (Walpole Island First Nation)**

From: Ken McCorkle  
To: dan.miskokomon@wifn.org; Dean Jacobs; Janet Macbeth  
Cc: Lauren Whitwham  
Subject: Dover Centre Natural Gas Project

Sent: Thu 30/11/2017 3:21 PM

Message |  Figure 1 .pdf

Dear Chief Miskokomon, Dr Jacobs & Janet:

Union Gas is preparing to reinforce the Chatham East pipeline to ensure the continued safe and reliable delivery of natural gas to existing and potential customers in the Municipality of Chatham-Kent. The project would involve looping an existing NPS 8-inch natural gas pipeline with approximately 500 meters of new NPS 12-inch natural gas pipeline. The proposed pipeline is located entirely within the municipality of Chatham-Kent, and will commence at Union's Dover Centre Transmission Station and proceed south to the Dover Centre Take-Off. The entire 500 metres will be located within the existing road allowance with construction, if approved, to begin in the Spring of 2018. A map indicating the proposed pipeline location is shown in **Figure 1** (attached).

Union is forwarding this information for your review and if further information is required please do not hesitate to contact me at your earliest convenience.

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

February 8, 2018

Dr. Dean Jacobs  
Walpole Heritage Centre  
RR #3 Wallaceburg, Ont.  
N8A 4K9

**RE: Union Gas Limited  
Chatham Kent Reinforcement Project**

Dear Dr. Dean Jacobs

An Environmental Protection Plan (EPP) has recently been completed by Union Gas (Union) for the installation of approximately 500 metres of a NPS 12 inch diameter natural gas pipeline within the Municipality of Chatham-Kent. The proposed construction project is necessary to increase capacity and accommodate additional demand for natural gas to meet the growing agricultural, commercial, and industrial market demand for natural gas in Chatham-Kent.

Stantec Consulting has been retained by Union Gas Limited to prepare an Environmental Review (ER) for the project which includes information regarding the existing natural environment and the steps to be taken to protect the environment in conjunction with the development of the project. The EPP which includes the ER is enclosed for your review.

We are requesting you provide any relevant environmental or socioeconomic information that in your opinion should be included in the assessment of the proposed pipeline construction.

If you have any questions, regarding the environmental review process or this project, please do not hesitate to contact the undersigned at [KMCCorkle@uniongas.com](mailto:KMCCorkle@uniongas.com) or 519- 365-0584.

Sincerely

*Ken McCorkle*

Ken McCorkle  
Manager, First Nations and Métis Affairs  
DS:sd  
Union Gas  
50 Keil Drive North  
Chatham, Ontario N7M 5M1





February 8, 2018

Janet Macbeth  
Walpole Heritage Centre  
RR #3 Wallaceburg, Ont.  
N8A 4K9

**RE: Union Gas Limited  
Chatham Kent Reinforcement Project**

Dear: Ms. Janet Macbeth

An Environmental Protection Plan (EPP) has recently been completed by Union Gas (Union) for the installation of approximately 500 metres of a NPS 12 inch diameter natural gas pipeline within the Municipality of Chatham-Kent. The proposed construction project is necessary to increase capacity and accommodate additional demand for natural gas to meet the growing agricultural, commercial, and industrial market demand for natural gas in Chatham-Kent.

Stantec Consulting has been retained by Union Gas Limited to prepare an Environmental Review (ER) for the project which includes information regarding the existing natural environment and the steps to be taken to protect the environment in conjunction with the development of the project. The EPP which includes the ER is enclosed for your review.

We are requesting you provide any relevant environmental or socioeconomic information that in your opinion should be included in the assessment of the proposed pipeline construction.

If you have any questions, regarding the environmental review process or this project, please do not hesitate to contact the undersigned at [KMcCorkle@uniongas.com](mailto:KMcCorkle@uniongas.com) or 519- 365-0584.

Sincerely

*Ken McCorkle*

Ken McCorkle  
Manager, First Nations and Métis Affairs  
DS:sd  
Union Gas  
50 Keil Drive North  
Chatham, Ontario N7M 5M1

**Indigenous Consultation Report**  
**Chatham Kent Rural Pipeline Expansion Project**  
**Baseline Section**

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## Indigenous Consultation Report

### Chatham Kent Rural Pipeline Expansion Project

#### Baseline Section

#### 1. Project Description

To increase capacity and accommodate additional demand for natural gas in the Chatham-Kent area, Union Gas is proposing to construct Chatham-Kent Rural Pipeline Expansion project (“proposed pipelines”). The proposed pipelines will meet the growing residential, commercial, and industrial market demand for natural gas in the Chatham-Kent area.

The Chatham Kent Rural Expansion Project will consist of two pipelines: a 500 metres of NPS 12 pipeline (“Bearline Section”) and 13 km of NPS 8 pipeline (“Baseline Section”). The Bearline Section will extend from the Dover Centre Valve Site to the Dover Centre Transmission Station along Bearline Road in the former Dover Township. The Baseline Section will extend from the Simpson Road Station to a new Station near the corner of Baseline Road and Kent Bridge Road in the former Townships of Chatham and Camden.

This report will deal with the Baseline section.

A preferred route for the proposed pipeline has been determined and can be found in the Environmental Report which was sent to Shereen Smithanik at the Ministry of Energy (“MOE”) on June 1, 2018 as part of the Ontario Pipeline Coordinating Committee review for this project.

#### 2. First Nation and Métis Communities Consulted

Consistent with the 7<sup>th</sup> Edition of the Ontario Energy Board’s *Environmental Guidelines for the Location, Construction and Operation of Hydrocarbon Pipelines and Facilities in Ontario, 2016* Union Gas was delegated the procedural aspects of the consultation from the MOE. A copy of the Union Gas letter informing the MOE of the Chatham-Kent Rural Pipeline Expansion project is attached as Schedule 4-B. The following communities were listed by the MOE in the delegation letter (see Schedule 4-C):

Aamjiwnaang First Nation	Chief Joanne Rogers Sharilyn Johnson, Environment Coordinator
Bkejwanong (Wapole Island First Nation)	Chief Dan Miskokomon Dr. Dean Jacobs, Consultation Manager
Caldwell First Nation	Chief Ducksworth
Chippewas of the Thames First Nation	Chief Myeengun Henry Chief Leslie White-Eye (former) Kelly Riley, Acting Lands & Environment Director Rochelle Smith, A/Consultation Coordinator
Chippewas of Kettle and Stony Point First Nation	Chief Thomas Bressette Valerie George
Oneida Nation of the Thames	Chief Randall Phillips Brandon Doxtator, Councillor

3. **Consultation Activities**

<b>Aamjiwnaang First Nation</b>				
<b>Date</b>	<b>Activity</b>	<b>Issues raises</b>	<b>Outcome</b>	<b>Doc Location</b>
Feb 14/18	Notification email sent to Chief Rogers and Sharilyn Johnston	Email with project description and map sent to community.	No response received	Schedule 4-A Pg. 29
Mar 12/18	Telephone call and voice mail left with Sharilyn Johnston	Telephone call requesting a consultation meeting on project.	No response received from telephone call	Pg. 34
Mar 24/18	Email to Sharilyn Johnston	Provided a copy of the presentation for the Chatham Kent project. Requested a meeting to discuss the project.	No response received	Schedule 4-D Pg. 34
May 1/18	Email from Courtney Jackson in response to telephone call made to her by Ken McCorkle	Meeting set up to meet with the Consultation committee on May 15, 2018 to discuss project. Also set up a meeting with the Environment Committee for July 10, 2018.	Dates confirmed between Ken McCorkle and Courtney Jackson.	Pg. 35
May 15/18	Meeting to discuss Chatham-Kent Rural Expansion.  Attendees: Ken McCorkle, Union Gas Sharilyn Johnson, Environment Coordinator Courtney Jackson, Environment Worker Christine James	Project presentation walked through providing information on scope and details of the project.  Question about Environmental Report and Ken confirm he would have it provided to them. They would like to have monitors on site and agreed to this.  Sharilyn asked about vegetation clearing and wanted to make sure they were replaced with the same plants and native species. Particularly interested in the tall grass Prairie and phragmites due to the invasive species.  Concerned on water crossings and would like restoration of vegetation making sure done properly and correctly. Suggested they could come to do a tour ahead of time and anytime during the construction  Asked if they could be involved in replanting. Told them Union Gas was open to this and Ken would work with the Construction Engineer on this.	Ken McCorkle to take away action items and provide to Sharilyn and Courtney in a timely matter.	Schedule 4-D

		<p>Courtney and Sharilyn suggested Wanda Maness would be looking after monitors for archeology and environment.</p> <p>Asked about road mortality (animals crossing the road) and wanted to make sure we are sensitive to that.</p> <p>Asked if we could have an emergency response session set up to discuss the topic. Agreed to this.</p> <p>Agreed another meeting July 10 with entire Environment and consultation committee</p>		
<b>Bkejwanong (Walpole Island) First Nation</b>				
<b>Date</b>	<b>Activity</b>	<b>Issues raises</b>	<b>Outcome</b>	<b>Doc Location</b>
Feb 14/18	Notification email sent to Chief Miskokomon, Dr. Dean Jacobs and Janet Macbeth	Email with project description and map sent to community.	No response received from email	Schedule 4-A Pg. 37
Mar 12/18	Telephone call and voice mail left with Dr. Dean Jacobs	Telephone call requesting a consultation meeting on project.	No response received from telephone call.	Pg. 44
Mar 24/18	Email to Dr. Jacobs and Janet Macbeth	Provided a copy of the presentation for the Chatham Kent project. Advised that we would set up time for meeting.	Date set for April 9, 2018 at 11am	Schedule 4-D Pg. 44
Apr 9/18	<p>Meeting to discuss Chatham-Kent Rural Expansion.</p> <p>Attending:          Ken McCorkle, Union Gas Manager, Indigenous Affairs          Norm Dumouchelle, Union Gas Environmental Planner          Dr. Dean Jacobs, Lands consultation          Janet Macbeth, Coordinator, Lands Resources</p>	<p>Norm presented power point on the project, going slide by slide with explanation.</p> <p>General Questions about the environment, fox snake, garter snake and snapping turtles. Stated that Union Gas has all the proper protocols in place</p> <p>Both noted that this was an “easy project” as it is all in road allowance and there are no trees disturbed and minimal vegetation disruption, which Union Gas will replace.</p> <p>Asked about the Environmental Assessment and it will be provided to them by the end of April.</p>	Ken McCorkle to take away action items and provide to Dr. Jacobs and Janet in a timely matter.	Schedule 4-D

		<p>Walpole also asked about opportunities for unskilled labour working on the project (flag person). Union Gas will look into this with the contractor.</p> <p>Walpole Island was very pleased with our water crossings in general. Any affected on the Chatham Kent Rural will be directionally drilled.</p> <p>Agreed to keep in contact for further questions and will continue to interact.</p>		
<b>Caldwell First Nation</b>				
<b>Date</b>	<b>Activity</b>	<b>Issues raises</b>	<b>Outcome</b>	<b>Doc Location</b>
Feb 14/18	Notification email sent to Chief Duckworth	Email with project description and map sent to community.	No response received from email	Schedule 4-A Pg. 45
Mar 12/18	Telephone call and voice mail left with Chief Duckworth	Telephone call requesting a consultation meeting on project.	No response received from telephone call.	Pg. 48
Mar 15/18	Telephone call with Chief Duckworth	Chief stated that they were working on a consultation protocol and it should be ready within the next week. Will provide it once complete.		
Mar 24/18	Email to Chief Ducksworth	Provided a copy of the presentation for the Chatham Kent project. Requested a meeting to be set up to discuss		Schedule 4-D Pg. 48
Apr 19/18	Telephone call with Darryl Vanoirschot	Spoke with Darryl who advised that the consultation protocol has not yet been completed. We agreed that Union Gas would forward a copy of the presentation and Darryl would set up a meeting with Council to consult on this project.	Email sent to Darryl confirming the discussion and providing the presentation.	Pg. 49
May 25/18	Telephone call to Community to discuss consultation on project	Call to community was direct to Nikki and a voicemail was left.	Continue to reach out to community to consult on project.	Pg. 49
<b>Chippewa of the Thames First Nation</b>				
<b>Date</b>	<b>Activity</b>	<b>Issues raises</b>	<b>Outcome</b>	<b>Doc Location</b>
Feb 14/18	Notification email sent to Chief Henry and Kelly Riley	Email with project description and map sent to community.	No response received from email	Schedule 4-A Pg. 50
Mar 12/18	Telephone call and voice mail left with Emma Young	Telephone call requesting a consultation meeting on project.	No response received from telephone call.	Pg. 55

Mar 24/18	Email to Emma Young and Kelly Riley	Provided a copy of the presentation for the Chatham Kent project. Requested a meeting to be set up to discuss		Schedule 4-B Pg. 55
Mar 26/18	Email received from Emma Young, Sr. Environmental Officer	Email to request a meeting on April 11 at 10am to discuss the project.	Confirmed with Union Gas.	Pg. 56
Apr 10/18	Email received from Emma Young	Meeting on April 11 rescheduled to a conference call on April 12 at 4pm.	Ken McCorkle confirmed change was ok. Meeting to be via conference call on April 12.	Pg. 57
Apr 12/18	Meeting with Rochelle Smith, Consultation Coordinator and Emma Young, Sr. Environmental Officer.	<p>Discussed the project details. Question about the purpose and the demand for the project.</p> <p>Asked about the potential for an Archelogy monitor as they would like to participate. Union Gas agreed to this and will make arrangements.</p> <p>Their main concern was that they wanted the native species re-planted where removed rather than the standard spray used by MTO or Union Gas normally use. Advised that Union Gas will look into it and see what we can do. Since project is along the road allowance there will be minimal vegetation disruption.</p> <p>They would like a copy of the Species at risk and hydrogeology study. Ken McCorkle will ensure these are forwarded to them.</p> <p>Concerns over the Water and vegetation around the water. Advised that Union Gas has protocol in place for this and they were satisfied with this.</p> <p>Asked for a tour on the site and Union will set that up during the project.</p>	<p>Union Gas will make arrangements for archelogy monitors to be onsite.</p> <p>Union Gas will forward Species at Risk and Hydrogeology reports once complete.</p> <p>Will arrange tour date once project has been approved and commences.</p>	

<b>Chippewas of the Kettle and Stony Point First Nation</b>				
Feb 14/18	Notification email sent to Chief Bressette and Valerie George	Email with project description and map sent to community.	No response received from email	Schedule 4-A Pg. 58
Mar 12/18	Telephone call and voice mail left for Valerie George.	Telephone call requesting a consultation meeting on project.	No response received from telephone call	Pg. 63
Mar 21/18	Ken McCorkle had a conversation with Valerie George at Chippewas of the Thames First Nations career fair	Valerie stated she would send over some meeting dates for the Chatham Kent Rural project.	Awaiting to hear from Valerie George.	
Mar 24/18	Email to Valerie George	Provided a copy of the presentation for the Chatham Kent project.		Schedule 4-D Pg. 63
Apr 17/18	<p>Consultation meeting</p> <p>Valerie George, Consultation Manager            Brian Monague, Councillor            Peter Cloud Sr., Councillor            Paul Henry, community member at large.</p> <p>Ken McCorkle            Norm Dumouchelle, Environmental Planner</p>	<p>Norm walked through presentation slide by slide.</p> <p>Noted that all work is within road allowance and most will be directional drilled. They were pleased with this.</p> <p>Noted that there will be minimal vegetation removal.</p> <p>Committee asked if people could hook into the transmission line and told not possible.</p> <p>Committee asked about water crossings and advised all would be directional drilled which Union Gas does as practice.</p> <p>Advised that construction is the summer of 2019.</p> <p>Committee asked what other questions First Nations ask during consultation. Responded that mostly interested in pipe laid (directional drill, open cut, what vegetation disturbed). Asked if a biologist on hand and advised that we have inspectors and an environmental person on site.</p> <p>Committee asked about the damn and pump procedure for crossing water courses. Explained process.</p>	<p>Agreed that if any other questions, the committee would reach out to Ken McCorkle. Union Gas would be in touch if any changes occur.</p>	



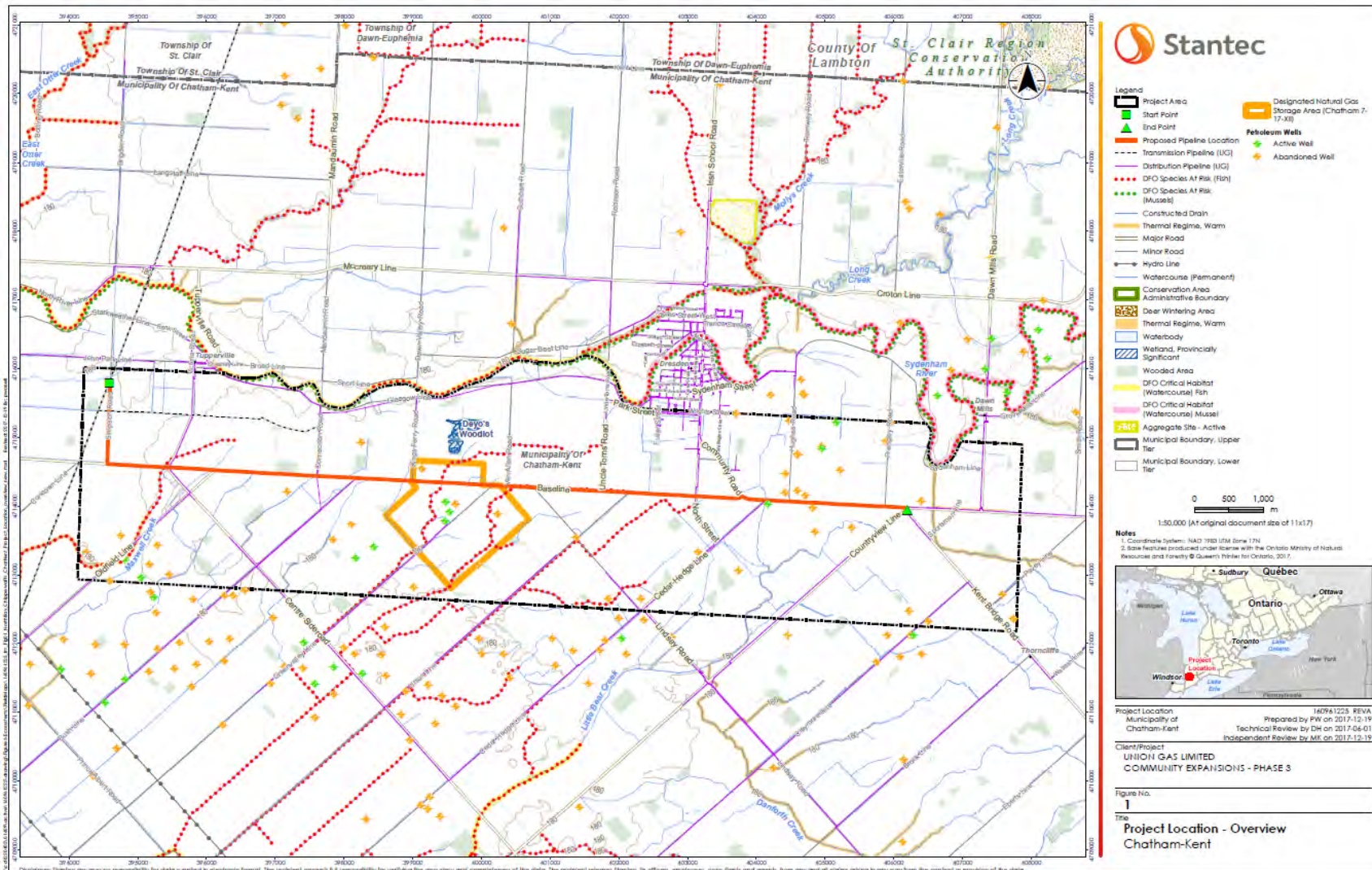
		<p>Committee asked what depth we drill and explained the depth is based on soil types etc.</p> <p>Brian Monague interested in the fact that the War of 1812 was in area and would like to be notified by archeology if anything found as the sensitivity to that area for their nation.</p> <p>Walked through the four stages of archeology. Advised that community could have a monitor on site as part of normal process. If anything found of significance with the monitor, we would advise the committee of that. Pleased with this.</p> <p>Committee asked about width of road allowance, flexibility of pipe (steel vs plastic)</p> <p>Agreed that if any other questions, the committee would reach out to Ken McCorkle. Union Gas would be in touch if any changes occur.</p>		
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<b>Oneida Nation of the Thames</b>				
<b>Date</b>	<b>Activity</b>	<b>Issues raises</b>	<b>Outcome</b>	<b>Doc Location</b>
Feb 14/18	Notification email sent to Chief Phillips	No response received from email	No response received from email	Schedule 4-A Pg. 64
Mar 2/18	Consultation meeting with Brandon Doxtator, Councillor to discuss project.	<p>Reviewed a presentation on the project and provided a hardcopy and also have emailed copy to Brandon for him to share with council. Map also provided of the project.</p> <p>Arranged with Mr. Doxtator to have four students involved with Environmental studies to tour one of Union's construction sites to see firsthand a project in action that relates to their field of study.</p> <p>Questioned about clean up and process on construction. All questions were answered and he was satisfied with information provided.</p>	Both parties agreed to continue to consult and respond back and forth as required.	Schedule 4-D

Mar 22/18	Email to Brandon Doxtator	As promised following the meeting on Mar 2, 2018, Ken McCorkle provided an electronic copy of the map discussed at meeting.	No response required.	Schedule 4-A Pg. 66
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4. Supporting Documentation

Schedule A – Chatham Kent Rural Pipeline Expansion Project Location map



**Schedule B - Letter to Ministry of Energy notifying Chatham Kent Rural Pipeline Expansion Project**

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**From:** Ken McCorkle

**Sent:** December-20-17 2:39 PM

**To:** Sharkey, Emma (ENERGY)

**Subject:** Project Summary for the Ministry of Energy (Chatham-Kent Rural Pipeline Expansion Project)

Hello Emma:

Please find attached the Chatham-Kent Rural Pipeline Expansion Project for your review along with a map depicting the location. I will await your response to move forward on any Indigenous consultation that is required. Could you please confirm receipt of this email?

Regards,

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



December 20, 2017

Ms. Emma Sharkey  
Manager, Indigenous Energy Policy  
Ministry of Energy  
77 Grenville Street, 6<sup>th</sup> Floor  
Toronto, ON M7A 2C1

Dear Ms. Sharkey:

**Re: Chatham-Kent Rural Pipeline 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 detailed map of the area.  
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 - Chatham-Kent Rural Pipeline 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 Chatham-Kent Rural Pipeline 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 construct approximately 13 kilometres of a new NPS 8 inch diameter natural gas pipeline to ensure the continued safe and reliable delivery of natural gas to existing and potential customers in the Municipality of Chatham-Kent. The proposed pipeline is located entirely within the Municipality of Chatham-Kent, and will commence at Union's Simpson Rd. Station and proceed south and east to the end point. A map indicating the proposed pipeline location is shown in Figure 1 (attached).

The following co-ordinates define the start point and end point of the project:

Proposed Locations	Latitude	Longitude
Simpson Road Station	42°35'14.015"N	82°17'04.99"W
End Point 2		
Kent Bridge Rd. – Base Line Rd.	42°34'19.6"N	82°08'34.0"W

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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 (2016). The ER for this Project is anticipated to be completed and submitted to the OEB as early as June 2018, and the proposed project to be in service by November 2019. 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 January of 2018 by Union Gas, with support provided throughout the process by consultant archaeologists, cultural heritage specialists, and biologists. The following provides a general overview of the environmental planning process for the Project:

- **Complete an Environmental Protection Plan (EPP)**
  - 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 certified 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. the Ministry of Natural Resources and Forestry (MNR)) to obtain any permit and/or approval 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 and authorities (such as the St. Clair Region Conservation Authority), 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 meet with the Township, County, and MNR to discuss and review the project. Union Gas will also meet with any directly affected landowners.

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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 to Union Gas**

Ministry of Energy  
77 Grenville Street  
6<sup>th</sup> Floor  
Toronto ON M7A 2C1  
Tel: (416) 314-2599

Ministère de l'Énergie  
77 rue Grenville-  
6<sup>e</sup> étage  
Toronto ON M7A 2C1  
Tél: (416) 314-2599



**Indigenous Energy Policy**

VIA EMAIL

February 2, 2018

Ken McCorkle  
Manager, Indigenous Affairs  
Union Gas Limited  
50 Keil Drive North  
Chatham, ON  
N7M 5M1

**Re: Chatham-Kent Rural Pipeline Expansion Project**

Dear Ken McCorkle:

Thank you for your email dated December 20, 2017 notifying the Ministry of Energy of Union Gas Limited's proposal for the Chatham-Kent Rural Pipeline Expansion Project and requesting clarification on Duty to Consult requirements.

I understand that Union Gas Limited is proposing to construct a new natural gas pipeline to service existing and potential customers in the municipality of Chatham-Kent. The project consists of approximately 13 kilometres of a new NPS 8 inch diameter natural gas pipeline to service the community. The proposed pipeline is located entirely within the municipality of Chatham-Kent and will commence at Union's Simpson Road Station and will proceed south and east to the end point at Kent Bridge Road – Base Line Road.

Proposed Locations	Latitude	Longitude
Start	42°35'14.015"N	82°17'04.99"W
End Point 2 Kent Bridge Rd.- Base Line Rd.	42°34'19.6"N	82°08'34.0"W

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 is delegating the procedural aspects of consultation to Union Gas Limited 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:

<b>Community</b>	<b>Mailing Address</b>
Aamjiwnaang First Nation	978 Tashmoo Avenue Sarnia, ON N7T 7H5
Bkejwanong (Walpole Island) First Nation	RR #3 Walpole Island, ON N8A 4K9
Caldwell First Nation	14 Orange Street Leamington, ON N8H 1P5
Chippewas of the Thames First Nation	320 Chippewa Road, RR #1 Muncey, ON N0L 1Y0
Chippewas of Kettle and Stony Point	6247 Indian Lane Kettle & Stony Point First Nation, 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 Limited will communicate directly with the communities listed above, and that Union Gas Limited will:

- Notify the communities that Union Gas Limited has been delegated the procedural aspects of consultation by the Ministry of Energy 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 Policy Advisor  
Indigenous Energy Policy  
Ministry of Energy  
416-326-0513  
[Shereen.Smithanik@ontario.ca](mailto: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 Limited's 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 Limited has been delegated the procedural aspects of consultation by the Ministry of Energy 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,



Emma Sharkey  
A/Manager  
Indigenous Energy Policy

C: Ontario Pipeline Coordinating Committee (OPCC)

Schedule D – Information Session handout



# Welcome

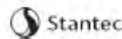
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## Chatham-Kent Rural Pipeline Expansion Project Information Session

A Union Gas Pipeline Project

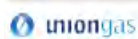


Stantec Consulting Ltd. has been retained by Union Gas Limited to complete environmental services for the Chatham-Kent Rural Expansion Pipeline Project.



The purpose of this Information Session is to:

- ▶ Provide details on project activities, including the corridor and route selection process.
- ▶ Gather feedback on the Preferred Corridor and Preliminary Preferred Route, to assist in the selection of a final Preferred Route.
- ▶ Discuss project details such as access and land requirements, pre-construction activities, and construction activities with landowners on the Preliminary Preferred Route.



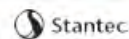
## Project Overview

To meet the growing demands for natural gas, Union Gas is proposing to construct two new pipelines. Known as the Chatham-Kent Rural Pipeline Expansion Project, it contains the following pipeline sections:

- ▶ A new 13-kilometre, 8-inch diameter pipeline commencing from Union Gas' existing Panhandle Natural Gas Transmission System at the Simpson Road Station (west of Tupperville) to the intersection of Base Line Road and Kent Bridge Road, east of Dresden (Base Line Section).
- ▶ A new 500-metre, 12-inch diameter pipeline near Dover Centre (Bear Line Section).

If approved by the Ontario Energy Board, construction is planned to begin as early as Spring/Summer 2019 with an in-service date six months after construction begins.

Because the Bear Line section's Environmental Protection Plan has been completed and did not identify any significant issues or concerns for this section of pipeline, this information session will focus primarily on the 13 kilometre Base Line section of the project.



## Base Line Section

The proposed new 8-inch diameter pipeline will be approximately 13 km in length. It will begin at Union Gas' existing Simpson Road Station (near the community of Tupperville) and proceed south in the road allowance of Simpson Road and then east within the road allowance of Base Line Road to an end point in the vicinity of the intersection of Base Line and Kent Bridge Road. The Project Study Area is shown below.



## Why is Union Gas Undertaking this Project?

Union Gas is undertaking the proposed project to:

- Increase capacity and accommodate additional demand for natural gas in the Municipality of Chatham-Kent.
- Meet the growing agricultural, commercial, and industrial market demand for natural gas in Chatham-Kent, including in the fast-growing greenhouse market to support local jobs and economic growth in the coming years.



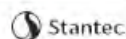
## Environmental Study Process

The environmental study and subsequent Environmental Report for the project will be completed as per the Ontario Energy Board's (OEB) "Environmental Guidelines for the Location, Construction and Operation of Hydrocarbon Pipelines and Facilities in Ontario (2016)."

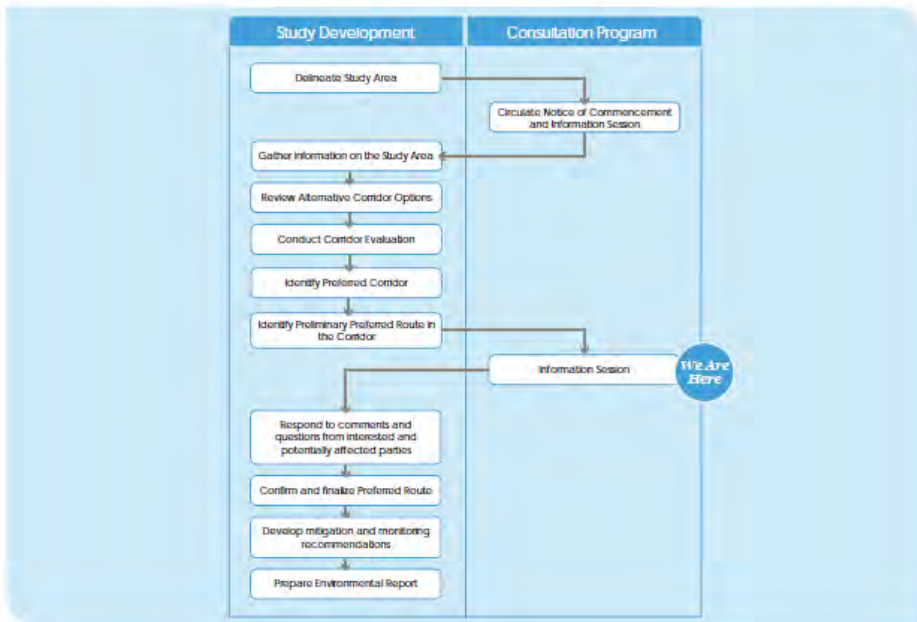


The study will:

- ▶ Undertake consultation to understand the views of interested and potentially affected parties
- ▶ Consult with Indigenous communities to understand interests and potential impacts
- ▶ Be conducted during the earliest phase of the project
- ▶ Identify a route for the pipeline
- ▶ Identify potential impacts of the project
- ▶ Develop mitigation and protective measures to avoid or minimize potential impacts
- ▶ Develop an appropriate inspection, monitoring and follow-up program



# Environmental Study Process



# Ontario Energy Board Review and Approval Process

The Ontario Energy Board (OEB) is the body that regulates the natural gas industry in Ontario, in the public interest.

Union Gas plans to submit an application for this project to the OEB. This application will include comprehensive information on the project including:

- ▶ The need for the project
- ▶ Facility alternatives
- ▶ Project costs and economics
- ▶ Pipeline design and construction
- ▶ Consultation with Indigenous communities
- ▶ Environmental mitigation measures
- ▶ Land requirements

The OEB will then hold a public hearing to review the project.

If after this review the OEB determines that the project is in the public interest it will approve construction of the project.

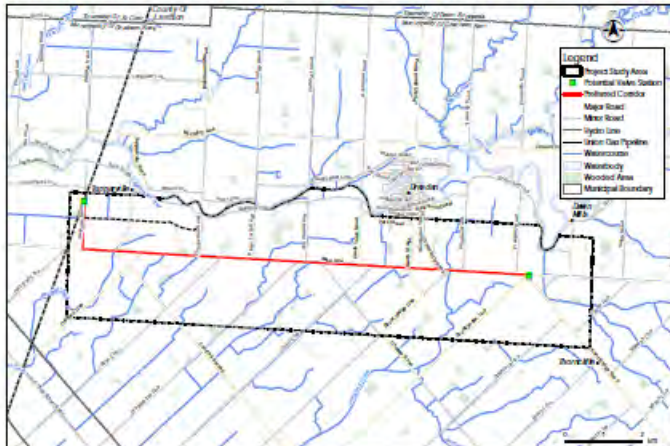
Additional information about the OEB process can be found on the project newsletter and at: [www.ontarioenergyboard.ca](http://www.ontarioenergyboard.ca)

Submit application → Public hearing → Approval → Construction



## Preliminary Preferred Route

The quantitative comparative evaluation identified that the Preliminary Preferred Route was environmentally acceptable. To avoid dissecting land parcels and severing fields, the Preliminary Preferred Route is an accessible corridor that is within existing road allowances.

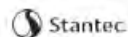


## Access and Land Requirements

Union Gas will work with directly affected landowners along the pipeline route to obtain the land rights necessary to construct the pipeline. Union Gas will continue discussions if appropriate land rights for the construction of the pipeline are necessary.

These land rights may consist of permanent easements and/or temporary easements. The temporary rights are only required during construction activities.

Union Gas will ensure that a Land Relations Agent (LRA) is available to each Landowner during the entire pipeline construction process. The LRA will continue to communicate to all landowners around the project progress and assist with any concerns that may arise as a result of the construction activities.





## Socio-Economic Features

The project will be constructed mainly in existing road allowances, as well as private business (including agriculture) and residential land.

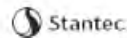
### Potential Effects

- ▶ Temporary increases in noise, dust and air emissions
- ▶ Increased construction traffic volumes
- ▶ Temporary impairment of the use and enjoyment of property
- ▶ Vegetation clearing along the pipeline easement (if needed)



### Example Mitigation Measures

- ▶ Provide access across the construction area
- ▶ Restrict construction to daylight hours, and adhere to applicable noise by-laws
- ▶ Develop and implement a Traffic Control Plan
- ▶ Place fencing at appropriate locations for safety
- ▶ Implement a water well monitoring program
- ▶ Make contact information for a designated Union Gas representative available prior to and throughout construction



## Aquatic Resources

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

The pipeline crosses 8 known watercourses.

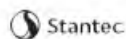
### Potential Effects

- ▶ Disruption and alteration to aquatic species and habitat and/or nuisance effects
- ▶ Increased erosion, sedimentation, and turbidity resulting from removal of vegetation



### Example Mitigation Measures

- ▶ Conduct surveys of waterbodies
- ▶ Secure all permits from St. Clair Region Conservation Authority
- ▶ Limit in-channel construction, where possible, and conform to fish timing window guidelines
- ▶ For in-channel construction, protect aquatic species and manage sedimentation and turbidity
- ▶ Restore and seed areas to establish habitat and reduce erosion
- ▶ Replace riparian vegetation



## Cultural Heritage Resources

During the course of construction, cultural heritage features such as archaeological finds, buildings, fences and landscapes may be encountered. Detailed field surveys will be conducted by independent, third-party archaeologists and cultural heritage professionals.

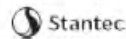
### Potential Effects

- ▶ Damage or destruction of archaeological, paleontological or historical resources



### Example Mitigation Measures

- ▶ Archaeological assessment of the construction right-of-way, with review and comment from the Ministry of Tourism, Culture and Sport (MTCS)
- ▶ Cultural heritage assessment (for built heritage features and cultural heritage landscapes) of the construction right-of-way, with review and comment from the MTCS
- ▶ Reporting of any previously unknown archaeological, paleontological or historical resources uncovered, or suspected of being uncovered, during excavation



## Terrestrial Resources

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

### Potential Effects

- ▶ Damage or removal of vegetation and wildlife habitat adjacent to the construction area
- ▶ Disturbance and/or mortality to local wildlife



### Example Mitigation Measures

- ▶ Conduct surveys (including Species at Risk surveys) in advance of construction to determine opportunities for wildlife habitat to exist
- ▶ Clearly mark the construction area to avoid accidental damage
- ▶ Restore and seed areas to establish habitat and reduce erosion
- ▶ Secure any necessary permits, and follow any conditions of approval



## Agricultural Soils

The Preliminary Preferred Route is in existing road allowances; however, agricultural lands adjacent to the road right-of-way may be impacted along the route to facilitate the construction process.

Union Gas has established and tested measures to preserve the integrity of agricultural lands throughout the construction phase:

- ▶ A sampling program for Soybean Cyst Nematodes will be implemented where appropriate.
- ▶ If work occurs on agricultural lands, a third-party soils specialist will determine topsoil depth prior to stripping and supervise all activities so that the proper depth of topsoil is removed and replaced.
- ▶ Union Gas will implement a wet soil shutdown protocol on agricultural lands to minimize soil structure damage.
- ▶ If work occurs on agricultural lands, Union Gas will implement appropriate cleanup and restoration.
- ▶ Any agricultural drainage systems impacted by construction will be repaired.



## Project Schedule

Serving more than 400 communities in Ontario, we consider ourselves strong community partners who believe in and are committed to public consultation.

During the planning stages for this project, we have consulted and will continue to consult with local landowners, Indigenous communities, government agencies and other interested parties that could be impacted by the project.

### KEY MILESTONES:



# Union Gas - Who We Are & What We Do

## What to look for when choosing a natural gas provider



# Safety is Our #1 Priority

We are dedicated to the safe operation of our facilities and to the protection of our employees and the public.



- ✓ Over 100 years of proven safety experience
  - ✓ Pipeline and facilities are:
    - Constructed using well-established best practices
    - Designed and maintained to strict safety standards
    - Monitored 24/7 by 2 gas control centres
  - ✓ Highly trained industry experts
  - ✓ Ongoing public safety awareness programs
  - ✓ Support for community based safety programs such as school programs and children's safety villages
- Past winner of the prestigious American Gas Association Safety Achievement Awards in fleet safety



# Being a Good Neighbour is Important to Us

We live and work in over 400 communities across Ontario and it's our goal to be a good neighbour in each one.



Consult with landowners, stakeholders, and Indigenous communities to learn what is important when determining new facilities locations



Conduct municipal meetings, as well as public information sessions about our projects



Involve communities in decision making to help address environmental or cultural sensitivities



Invest in relationships and training with emergency first responders



Develop community safety and emergency preparedness programs



Support community initiatives through donations for charitable organizations, sponsorships, in-kind contributions and volunteerism



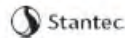
It's been a pleasure working with Union Gas. They were very professional, and I'm very happy with the overall experience. I've never run a construction project so that smoothly. With good communication and proper information, they did what they said they would do, and then some. They're just great to work with.

— Jim Lindsay, Jason Peris, *Mayor* about his experience as a landowner on the 2017 Union Gas Pipeline Replacement Project in Chatham-Kent



I'm so impressed with the lengths they have gone in order to ensure safety, the respect they have taken with farmers' land, and their protection of the environment.

— Claudette Clarke, *Mayor*, Municipality of Chatham-Kent, *Mayor* about Union Gas 2017 Pipeline Replacement Project



**Correspondence - Aamjiwnaang First Nation**

From: Ken McCorkle  
To: Chief Rogers; Sharilyn Johnston  
Cc: Shereen Smithanik (Shereen.Smithanik@ontario.ca); Lauren Whitwham  
Subject: Chatham-Kent Rural Project!

Sent: Wed 14/02/2018 8:54 AM

Message: Aamjiwnaang First Nation.pdf (323 KB)

Hello Chief Rogers & Sharilyn:  
Please find attached a notification of the above noted project. Union will be in contact with you to follow up on the consultation process.

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



February 20, 2018  
File: 160961248

**Attention: Chief Joanne Rogers**  
Aamjiwaaang First Nation  
978 Tashmoo Avenue  
Samia, ON N7T7H5

Dear Chief Joanne Rogers,

**Reference: Union Gas Limited Pipeline Project – Chatham-Kent Rural Pipeline Expansion Project:  
Notice of Project Commencement and Information Session**

To meet the growing demand for natural gas, Union Gas is proposing to construct a new 8-inch natural gas pipeline in the Municipality of Chatham-Kent. The proposed pipeline will meet the growing agricultural, commercial, and industrial market demand for natural gas in Chatham-Kent and surrounding areas, including in the fast-growing greenhouse market.

The proposed pipeline will be approximately 13 km in length and will begin at Union Gas' existing Simpson Road Station (near the community of Tupperville) and proceed south and east within the road allowance of Base Line Rd. to an end point near the corner of Base Line Road and Kent Bridge Road east of Dresden.

A preliminary preferred route for the proposed pipeline has been determined. A route selection process is currently being conducted to evaluate alternative corridors. Attached please find a newspaper notice, which includes a map of the study area.

As an integral part of this project, Union Gas has hired Stantec Consulting Ltd. to undertake an environmental study of the construction and operation of the proposed pipeline and related facilities. The environmental study will fulfill the requirements of the Ontario Energy Boards' (OEB) *Environmental Guidelines for the Location, Construction and Operation of Hydrocarbon Pipelines and Facilities in Ontario (2016)*.

The environmental study process will include consultation and engagement with landowners, municipalities, agencies, Indigenous communities, and other interested parties through notices, mailouts, meetings and an information session. The Stantec-authored Environmental Report will accompany the Union Gas application to the OEB, whose review and approval is needed before the project can proceed. If approved, construction could begin as early as Spring/Summer 2019.

The information session will be held as follows:

**Tuesday March 6, 2018**  
**5:00 pm to 8:00 pm**  
The Old Czech Hall 116  
St John Street East  
Dresden, ON



February 20, 2018  
Page 2 of 2

**Reference: Union Gas Limited Pipeline Project – Chatham-Kent Rural Expansion Project: Notice of Project Commencement**

Aamjiwnaang First Nation is invited to provide comments regarding the proposed project. Specifically, Stantec is seeking information about any adverse impacts that the project may have on constitutionally protected aboriginal or treaty rights and any measures for mitigating those adverse impacts. Stantec is also seeking background environmental and socio-economic information that may be useful in compiling an inventory.

For additional information, please visit Union Gas' website for this project: [www.uniongas.com/Projects](http://www.uniongas.com/Projects). If you have any questions or comments regarding the environmental study process for the proposed project please do not hesitate to contact the undersigned.

Sincerely,

*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](mailto:kmccorkle@uniongas.com)

Attachment: Newspaper Notice

c. Steve Thurtell, Stantec Consulting Ltd.





February 20, 2018  
File: 160961248

Attention: Sharilyn Johnston  
SENT VIA EMAIL: sjohnston@aamjiwnaang.ca

Dear Sharilyn Johnston,

Reference: Union Gas Limited Pipeline Project – Chatham-Kent Rural Pipeline Expansion Project:  
Notice of Project Commencement and Information Session

To meet the growing demand for natural gas, Union Gas is proposing to construct a new 8-inch natural gas pipeline in the Municipality of Chatham-Kent. The proposed pipeline will meet the growing agricultural, commercial, and industrial market demand for natural gas in Chatham-Kent and surrounding areas, including in the fast-growing greenhouse market.

The proposed pipeline will be approximately 13 km in length and will begin at Union Gas' existing Simpson Road Station (near the community of Tupperville) and proceed south and east within the road allowance of Base Line Rd. to an end point near the corner of Base Line Road and Kent Bridge Road east of Dresden.

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February 20, 2018  
Page 2 of 2

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Sincerely,

*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](mailto:kmccorkle@uniongas.com)

Attachment: Newspaper Notice

c. Steve Thurtell, Stantec Consulting Ltd.

From: Ken McCorkle  
 To: Lauren Whitwham  
 Cc:  
 Subject: Consultation Request for Chatham-Kent Rural Pipeline Project

Sent: Thu 15/03/2018 5:09 PM

Hello Lauren:

I followed up with a phone call, Monday March 12, 2018, to the following Nations to request a consultation regarding the Chatham-Kent Rural Pipeline project:

- 1) Aamjiwnaang First Nation (Sharilyn Johnson)
- 2) Kettle & Stony Point First Nation (Valerie George)
- 3) Walpole Island First Nation (Dr. Dean Jacobs)
- 4) Caldwell First Nation (Chief Duckworth)
- 5) Chippewa of the Thames First Nation (Emma Young)

Oneida First Nation was on the consultation list from the Ministry of Energy but I have already contacted them and conducted a consultation with Brandon Doxtator, councillor for the First Nation, on Friday March 2, 2018.

Regards,  
 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

From: Ken McCorkle  
 To: Sharilyn Johnston  
 Cc: Lauren Whitwham  
 Subject: Chatham-Kent Rural Natural Gas pipeline project

Sent: Sat 24/03/2018 8:56 PM

Message | Chatham-Kent Rural Project.pdf (6 MB)

Hello Sharilyn:

Please see the attached presentation for the Chatham-Kent Rural pipeline that I called about on March 12, 2018. Could you please contact me regarding a time to set up a consultation for this project? Looking forward to meeting you again. I will await your call,

Miigwetch,  
 Ken

*Ken McCorkle*

Manager, Indigenous Affairs  
 Union Gas Ltd.  
 Phone: 519-436-4600 Ext.5002243  
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 We can't change the past, but we can influence our future

**From:** Courtney Jackson [<mailto:cjackson@aamjiwnaang.ca>]  
**Sent:** May-01-18 11:30 AM  
**To:** Ken McCorkle  
**Cc:** Sharilyn Johnston; Christine James  
**Subject:** [External] AFN Environment Committee Dates

Good morning Ken,

**Re: Chatham-Kent Rural Project**

Thank you for your call today to start consultation process with Aamjiwnaang First Nation. As mentioned over the phone, we have agreed to set up a meeting for Tuesday, May 15, 2018 at 11:00 am at our office (located behind the Band Administration Building) to discuss the project.

Also I would like to set up a meeting with the Environment Committee and I've provided upcoming meeting dates. Our committee meets twice per month, please select a date that works best for Union Gas, as our meetings tend to fill up quickly.

**Upcoming meeting dates:**

1. Tuesday, June 19, 2018
  - a. 5:00 pm
  - b. 5:30 pm
2. Tuesday, July 10, 2018
  - a. 5:00 pm
  - b. 5:30 pm
3. Tuesday, July 17, 2018
  - a. 5:00 pm
  - b. 5:30 pm

Presentations are scheduled for 30 minutes but if you require more time, please let me know and we can arrange it. The Environment Committee meetings are held at the Band Administration Building (978 Tashmoo Avenue, Sarnia, ON N7T 7H5)

If you have any questions, please let me know.

Sincerely,  
Courtney Jackson

***Courtney Jackson***

*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 <[KMcCorkle@uniongas.com](mailto:KMcCorkle@uniongas.com)>  
**Sent:** Thursday, May 3, 2018 8:40 AM  
**To:** Courtney Jackson <[cjackson@aamjiwnaang.ca](mailto:cjackson@aamjiwnaang.ca)>  
**Cc:** Sharilyn Johnston <[sjohnston@aamjiwnaang.ca](mailto:sjohnston@aamjiwnaang.ca)>; Christine James <[cjames@aamjiwnaang.ca](mailto:cjames@aamjiwnaang.ca)>; Lauren Whitwham <[LWhitwham@uniongas.com](mailto:LWhitwham@uniongas.com)>  
**Subject:** RE: AFN Environment Committee Dates

Hello Courtney:  
Please book us in for Tuesday July 10, 2018 for 5:00PM. Appreciate your response and I will see you on the 15<sup>th</sup>.

Miigwetch,  
Ken

From: Courtney Jackson <[cjackson@aamjiwnaang.ca](mailto:cjackson@aamjiwnaang.ca)> Sent: Mon 07/05/2018 2:02 PM  
To: Ken McCorkle  
Cc: Sharilyn Johnston; Christine James; Lauren Whitwham  
Subject: [External] RE: AFN Environment Committee Dates

Good afternoon Ken,  
Thank you for response, I've scheduled Union Gas for July 10, 2018 at 5:00 pm with the Environment Committee.

Thank you,  
Courtney

**Correspondence - Bkejawnong (Walpole Island) First Nation**

From: Ken McCorkle Sent: Wed 14/02/2018 9:04 AM  
To: dan.miskokomon@wifn.org; Dean Jacobs; Janet Macbeth  
Cc: Shereen Smithanik (Shereen.Smithanik@ontario.ca); Lauren Whitwham  
Subject: Chatham-Kent Rural Project!

---

Message: Walpole Island First Nation.pdf (328 KB)

Hello Chief Miskokomon, Dr. Jacobs & Janet:  
Please find attached a notification of the above noted project. Union will be in contact with you to follow up on the consultation process.

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



February 20, 2018  
File: 160961248

**Attention: Chief Dan Miskokomon**  
Bkejwanong (Walpole Island) First Nation  
RR#3  
Walpole Island, ON N8A4K9

Dear Chief Dan Miskokomon,

**Reference: Union Gas Limited Pipeline Project – Chatham-Kent Rural Pipeline Expansion Project:  
Notice of Project Commencement and Information Session**

To meet the growing demand for natural gas, Union Gas is proposing to construct a new 8-inch natural gas pipeline in the Municipality of Chatham-Kent. The proposed pipeline will meet the growing agricultural, commercial, and industrial market demand for natural gas in Chatham-Kent and surrounding areas, including in the fast-growing greenhouse market.

The proposed pipeline will be approximately 13 km in length and will begin at Union Gas' existing Simpson Road Station (near the community of Tupperville) and proceed south and east within the road allowance of Base Line Rd. to an end point near the corner of Base Line Road and Kent Bridge Road east of Dresden.

A preliminary preferred route for the proposed pipeline has been determined. A route selection process is currently being conducted to evaluate alternative corridors. Attached please find a newspaper notice, which includes a map of the study area.

As an integral part of this project, Union Gas has hired Stantec Consulting Ltd. to undertake an environmental study of the construction and operation of the proposed pipeline and related facilities. The environmental study will fulfill the requirements of the Ontario Energy Boards' (OEB) *Environmental Guidelines for the Location, Construction and Operation of Hydrocarbon Pipelines and Facilities in Ontario (2016)*.

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February 20, 2018  
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**Reference: Union Gas Limited Pipeline Project – Chatham-Kent Rural Expansion Project: Notice of Project Commencement**

Bkejwanong (Walpole Island) First Nation is invited to provide comments regarding the proposed project. Specifically, Stantec is seeking information about any adverse impacts that the project may have on constitutionally protected aboriginal or treaty rights and any measures for mitigating those adverse impacts. Stantec is also seeking background environmental and socio-economic information that may be useful in compiling an inventory.

For additional information, please visit Union Gas' website for this project: [www.uniongas.com/Projects](http://www.uniongas.com/Projects). If you have any questions or comments regarding the environmental study process for the proposed project please do not hesitate to contact the undersigned.

Sincerely,

*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](mailto:kmccorkle@uniongas.com)

Attachment: Newspaper Notice

c. Steve Thurtell, Stantec Consulting Ltd.





February 20, 2018  
File: 160961248

**Attention: Dr. Dean Jacobs**  
SENT VIA EMAIL: Dean.Jacobs@wfn.org

Dear Dr. Dean Jacobs,

**Reference: Union Gas Limited Pipeline Project – Chatham-Kent Rural Pipeline Expansion Project:  
Notice of Project Commencement and Information Session**

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Sincerely,

*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](mailto:kmccorkle@uniongas.com)

Attachment: Newspaper Notice

c. Steve Thurtell, Stantec Consulting Ltd.



February 20, 2018  
File: 160961248

**Attention: Janet Macbeth**  
SENT VIA EMAIL: Janet Macbeth <Janet.Macbeth@wfn.org>

Dear Janet Macbeth,

**Reference: Union Gas Limited Pipeline Project – Chatham-Kent Rural Pipeline Expansion Project:  
Notice of Project Commencement and Information Session**

To meet the growing demand for natural gas, Union Gas is proposing to construct a new 8-inch natural gas pipeline in the Municipality of Chatham-Kent. The proposed pipeline will meet the growing agricultural, commercial, and industrial market demand for natural gas in Chatham-Kent and surrounding areas, including in the fast-growing greenhouse market.

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Sincerely,

*Ken McCorkle*

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

Attachment: Newspaper Notice

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From: Ken McCorkle  
 To: Lauren Whitwham  
 Cc:  
 Subject: Consultation Request for Chatham-Kent Rural Pipeline Project

Sent: Thu 15/03/2018 5:09 PM

Hello Lauren:

I followed up with a phone call, Monday March 12, 2018, to the following Nations to request a consultation regarding the Chatham-Kent Rural Pipeline project:

- 1) Aamjiwnaang First Nation (Sharilyn Johnson)
- 2) Kettle & Stony Point First Nation (Valerie George)
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- 4) Caldwell First Nation (Chief Duckworth)
- 5) Chippewa of the Thames First Nation (Emma Young)

Oneida First Nation was on the consultation list from the Ministry of Energy but I have already contacted them and conducted a consultation with Brandon Doxtator, councillor for the First Nation, on Friday March 2, 2018.

Regards,  
 Ken

*Ken McCorkle*

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

From: Ken McCorkle  
 To: Dean Jacobs; Janet Macbeth  
 Cc: Lauren Whitwham  
 Subject: Chatham-Kent Rural Pipeline Project

Sent: Sat 24/03/2018 8:38 PM

Message | Chatham-Kent Rural Project.pdf (6 MB)

Hello Dr. Jacobs & Janet:

Please see the attached presentation for the Chatham-Kent Rural pipeline that I would like to meet and discuss with you at your convenience. Dean thank you for your call and I will follow up with you to set up some time for a consultation for this project.

Miigwetch,  
 Ken

*Ken McCorkle*

Manager, Indigenous Affairs  
 Union Gas Ltd.  
 Phone: 519-436-4600 Ext.5002243  
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 Fax; 519-436-5392  
 Email: [kmccorkle@uniongas.com](mailto:kmccorkle@uniongas.com)  
 We can't change the past, but we can influence our future

**Correspondence - Caldwell First Nation**

You replied to this message on 14/02/2018 10:39 AM.

From: Ken McCorkle  
To: chief.duckworth@caldwellfirstnation.ca; Allen Deleary  
Cc: Shereen Smithanik (Shereen.Smithanik@ontario.ca); Lauren Whitwham  
Subject: Chatham-Kent Rural Project!

Sent: Wed 14/02/2018 10:39 AM

Message Caldwell First Nation.doc (268 KB)

Hello Chief Duckworth & Allen:  
Please find attached a notification of the above noted project. Union will be in contact with you to follow up on the consultation process.

Miigwetch,  
Ken

*Ken McCorkle*  
Manager, Indigenous Affairs  
Union Gas Ltd.  
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Fax; 519-436-5392  
Email: [kmccorkle@uniongas.com](mailto:kmccorkle@uniongas.com)  
We can't change the past, but we can influence our future



February 20, 2018  
File: 160961248

**Attention: Allen Deleary**  
Caldwell First Nation  
14 Orange Street  
Leamington, ON N8H1P5

Dear Allen Deleary,

**Reference: Union Gas Limited Pipeline Project – Chatham-Kent Rural Pipeline Expansion Project:  
Notice of Project Commencement and Information Session**

To meet the growing demand for natural gas, Union Gas is proposing to construct a new 8-inch natural gas pipeline in the Municipality of Chatham-Kent. The proposed pipeline will meet the growing agricultural, commercial, and industrial market demand for natural gas in Chatham-Kent and surrounding areas, including in the fast-growing greenhouse market.

The proposed pipeline will be approximately 13 km in length and will begin at Union Gas' existing Simpson Road Station (near the community of Tuppersville) and proceed south and east within the road allowance of Base Line Rd. to an end point near the corner of Base Line Road and Kent Bridge Road east of Dresden.

A preliminary preferred route for the proposed pipeline has been determined. A route selection process is currently being conducted to evaluate alternative corridors. Attached please find a newspaper notice, which includes a map of the study area.

As an integral part of this project, Union Gas has hired Stantec Consulting Ltd. to undertake an environmental study of the construction and operation of the proposed pipeline and related facilities. The environmental study will fulfill the requirements of the Ontario Energy Boards' (OEB) *Environmental Guidelines for the Location, Construction and Operation of Hydrocarbon Pipelines and Facilities in Ontario (2016)*.

The environmental study process will include consultation and engagement with landowners, municipalities, agencies, Indigenous communities, and other interested parties through notices, mailouts, meetings and an information session. The Stantec-authored Environmental Report will accompany the Union Gas application to the OEB, whose review and approval is needed before the project can proceed. If approved, construction could begin as early as Spring/Summer 2019.

The information session will be held as follows:

**Tuesday March 6, 2018**  
**5:00 pm to 8:00 pm**  
The Old Czech Hall 116  
St John Street East  
Dresden, ON



February 20, 2018  
Page 2 of 2

**Reference: Union Gas Limited Pipeline Project – Chatham-Kent Rural Expansion Project: Notice of Project Commencement**

Caldwell First Nation is invited to provide comments regarding the proposed project. Specifically, Stantec is seeking information about any adverse impacts that the project may have on constitutionally protected aboriginal or treaty rights and any measures for mitigating those adverse impacts. Stantec is also seeking background environmental and socio-economic information that may be useful in compiling an inventory.

For additional information, please visit Union Gas' website for this project: [www.uniongas.com/Projects](http://www.uniongas.com/Projects). If you have any questions or comments regarding the environmental study process for the proposed project please do not hesitate to contact the undersigned.

Sincerely,

*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](mailto:kmccorkle@uniongas.com)

Attachment: Newspaper Notice

c. Steve Thurtell, Stantec Consulting Ltd.



From: Ken McCorkle  
 To: Lauren Whitwham  
 Cc:  
 Subject: Consultation Request for Chatham-Kent Rural Pipeline Project

Sent: Thu 15/03/2018 5:09 PM

Hello Lauren:

I followed up with a phone call, Monday March 12, 2018, to the following Nations to request a consultation regarding the Chatham-Kent Rural Pipeline project:

- 1) Aamjiwnaang First Nation (Sharilyn Johnson)
- 2) Kettle & Stony Point First Nation (Valerie George)
- 3) Walpole Island First Nation (Dr. Dean Jacobs)
- 4) Caldwell First Nation (Chief Duckworth)
- 5) Chippewa of the Thames First Nation (Emma Young)

Oneida First Nation was on the consultation list from the Ministry of Energy but I have already contacted them and conducted a consultation with Brandon Doxtator, councillor for the First Nation, on Friday March 2, 2018.

Regards,  
 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

From: Ken McCorkle  
 To: [chief.duckworth@caldwellfirstnation.ca](mailto:chief.duckworth@caldwellfirstnation.ca)  
 Cc: Lauren Whitwham  
 Subject: Chatham-Kent Rural Natural Gas pipeline project

Sent: Sat 24/03/2018 8:52 PM

Message: Chatham-Kent Rural Project.pdf (6 MB)

Hello Chief Duckworth:

Please see the attached presentation for the Chatham-Kent Rural pipeline that I called about on March 12, 2018. Could you please contact me regarding a time to set up a consultation for this project? Looking forward to meeting you. I will await your call,

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

From: Ken McCorkle  
 To: [rcorpden@calbwellfrstnations.ca](mailto:rcorpden@calbwellfrstnations.ca)  
 Cc: Lauren Whitwham  
 Subject: Chatham-Kent Rural Project (Union Gas)

Sent: Thu 19/07/2018 10:41 PM

Message: Chatham-Kent Rural Project.pdf (6 MB)

Hello Darryl:

It was a pleasure to speak with you today regarding the Chatham-Kent Rural Project for Union Gas. I am following up as I have not received a copy of the consultation protocol from Chief Duckworth as of today. I very much appreciate your sincerity and fully understand a busy schedule. As per our discussion I have enclosed a copy of Union's presentation for your information and to arrange a meeting for consultation. I look forward to meeting with you and your counterparts to discuss this project at your convenience. I will await your response!

Could you confirm receipt of this email?

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

From: Ken McCorkle  
 To: Lauren Whitwham  
 Cc:  
 Subject: Chatham-Kent Rural Project

Sent: Fri 25/05/2018 1:29 PM

Hello Lauren:

After speaking with Chief Duckworth and still waiting for a consultation protocol, I then spoke with Darryl at the band office who stated he would arrange a council meeting and have not heard back yet? I have now called Nikki who I have been directed to and have left a voice message. Waiting for her to response to set something up for the Chatham-Kent Rural project if they want. They have been notified regarding a request for monitors.

Thanks,  
 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)  
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**Correspondence - Chippewas of the Thames First Nation**

From: Ken McCorkle  
To: myeengun@cottfn.com; Kelly Riley  
Cc: Shereen Smithanik (Shereen.Smithanik@ontario.ca); Lauren Whitwham  
Subject: Chatham-Kent Rural Project

Sent: Wed 14/02/2018 11:51 AM

Message Chippewas of the Thames First Nation.pdf MOE Summary Map.pdf

Hello Chief Henry & Kelly:  
Please find attached a notification of the above noted project. Union will be in contact with you to follow up on the consultation process.

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



February 20, 2018  
File: 160961248

**Attention: Chief Myeengun Henry**  
Chippewas of the Thames First Nation  
320 Chippewa Road, RR#1  
Muncey, ON N0L1Y0

Dear Chief Myeengun Henry,

**Reference: Union Gas Limited Pipeline Project – Chatham-Kent Rural Pipeline Expansion Project:  
Notice of Project Commencement and Information Session**

To meet the growing demand for natural gas, Union Gas is proposing to construct a new 8-inch natural gas pipeline in the Municipality of Chatham-Kent. The proposed pipeline will meet the growing agricultural, commercial, and industrial market demand for natural gas in Chatham-Kent and surrounding areas, including in the fast-growing greenhouse market.

The proposed pipeline will be approximately 13 km in length and will begin at Union Gas' existing Simpson Road Station (near the community of Tupperville) and proceed south and east within the road allowance of Base Line Rd. to an end point near the corner of Base Line Road and Kent Bridge Road east of Dresden.

A preliminary preferred route for the proposed pipeline has been determined. A route selection process is currently being conducted to evaluate alternative corridors. Attached please find a newspaper notice, which includes a map of the study area.

As an integral part of this project, Union Gas has hired Stantec Consulting Ltd. to undertake an environmental study of the construction and operation of the proposed pipeline and related facilities. The environmental study will fulfill the requirements of the Ontario Energy Boards' (OEB) *Environmental Guidelines for the Location, Construction and Operation of Hydrocarbon Pipelines and Facilities in Ontario (2016)*.

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Dresden, ON



February 20, 2018  
Page 2 of 2

**Reference: Union Gas Limited Pipeline Project – Chatham-Kent Rural Expansion Project: Notice of Project Commencement**

Chippewas of the Thames First Nation is invited to provide comments regarding the proposed project. Specifically, Stantec is seeking information about any adverse impacts that the project may have on constitutionally protected aboriginal or treaty rights and any measures for mitigating those adverse impacts. Stantec is also seeking background environmental and socio-economic information that may be useful in compiling an inventory.

For additional information, please visit Union Gas' website for this project: [www.uniongas.com/Projects](http://www.uniongas.com/Projects). If you have any questions or comments regarding the environmental study process for the proposed project please do not hesitate to contact the undersigned.

Sincerely,

*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](mailto:kmccorkle@uniongas.com)

Attachment: Newspaper Notice

c. Steve Thurtell, Stantec Consulting Ltd.



February 20, 2018  
File: 160961248

Attention: Kelly Riley  
SENT VIA EMAIL: kriley@cottfn.com

Dear Kelly Riley,

Reference: Union Gas Limited Pipeline Project – Chatham-Kent Rural Pipeline Expansion Project:  
Notice of Project Commencement and Information Session

To meet the growing demand for natural gas, Union Gas is proposing to construct a new 8-inch natural gas pipeline in the Municipality of Chatham-Kent. The proposed pipeline will meet the growing agricultural, commercial, and industrial market demand for natural gas in Chatham-Kent and surrounding areas, including in the fast-growing greenhouse market.

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February 20, 2018  
Page 2 of 2

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Chippewas of the Thames First Nation are invited to provide comments regarding the proposed project. Specifically, Stantec is seeking information about any adverse impacts that the project may have on constitutionally protected aboriginal or treaty rights and any measures for mitigating those adverse impacts. Stantec is also seeking background environmental and socio-economic information that may be useful in compiling an inventory.

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Sincerely,

*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](mailto:kmccorkle@uniongas.com)

Attachment: Newspaper Notice

c. Steve Thurtell, Stantec Consulting Ltd.

From: Ken McCorkle  
 To: Lauren Whitwham  
 Cc:  
 Subject: Consultation Request for Chatham-Kent Rural Pipeline Project

Sent: Thu 15/03/2018 5:09 PM

Hello Lauren:

I followed up with a phone call, Monday March 12, 2018, to the following Nations to request a consultation regarding the Chatham-Kent Rural Pipeline project:

- 1) Aamjiwnaang First Nation (Sharilyn Johnson)
- 2) Kettle & Stony Point First Nation (Valerie George)
- 3) Walpole Island First Nation (Dr. Dean Jacobs)
- 4) Caldwell First Nation (Chief Duckworth)
- 5) Chippewa of the Thames First Nation (Emma Young)

Oneida First Nation was on the consultation list from the Ministry of Energy but I have already contacted them and conducted a consultation with Brandon Doxtator, councillor for the First Nation, on Friday March 2, 2018.

Regards,  
 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

From: Ken McCorkle  
 To: Kelly Riley; eyoung@cottfn.com  
 Cc: Lauren Whitwham  
 Subject: Chatham-Kent Rural Natural Gas pipeline project

Sent: Sat 24/03/2018 8:50 PM

Message Chatham-Kent Rural Project.pdf (6 MB)

Hello Kelly & Emma:

Please see the attached presentation for the Chatham-Kent Rural pipeline that I called about on March 12, 2018. Could you please contact me regarding a time to set up a consultation for this project? Looking forward to meeting you again. I will await your call,

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



Follow up. Start by March-26-18. Due by March-26-18.  
If there are problems with how this message is displayed, click here to view it in a web browser.

From: Emma Young <eyoung@cottfn.com> Sent: Mon 26/03/2018 10:14 AM  
To: Ken McCorkle  
Cc: Lauren Whitwham; Rochelle Smith; Kelly Riley  
Subject: [External] RE: Chatham-Kent Rural Natural Gas pipeline project

Good morning Ken,

Would you be available to meet on April 11<sup>th</sup> at 10am?

Please note, we have relocated our office and are now situated at the Administration Building. The address is:

320 Chippewa Road  
Muncey, ON  
N0L 1Y0

Our phone contact has also changed (I'm not sure who you spoke with on March 12<sup>th</sup> or if you left a message at our old office). Myself, Kelly and Rochelle can now be reached at 519-289-5555.

Best wishes,  
Emma



**Emma Young**  
**Sr. Environment Officer, Chippewas of the Thames First Nation**  
320 Chippewa Rd Muncey, ON N0L 1Y0 | 519-289-5555 ext. 254 | [www.cottfn.com](http://www.cottfn.com)

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.

This message is part of a tracked conversation. Click here to find all related messages or to open the original flagged message.

From: Ken McCorkle Sent: Mon 26/03/2018 12:16 PM  
To: Emma Young  
Cc: Lauren Whitwham; Rochelle Smith; Kelly Riley  
Subject: RE: Chatham-Kent Rural Natural Gas pipeline project

Hello Emma:  
Thank you for your response. The April 11<sup>th</sup> at 10:00 AM will work for me. I will see you then at your new location.

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

From: Emma Young <eyoung@cottfn.com>  
To: Ken McCorkle  
Cc: Lauren Whitwham; Rochelle Smith; Kelly Riley  
Subject: [External] RE: Chatham-Kent Rural Natural Gas pipeline project

Sent: Tue 10/04/2018 10:59 AM

Good morning Ken,

Unfortunately we will need to reschedule tomorrow's meeting.

Would we be able to schedule a conference call instead for Thursday April 12<sup>th</sup> at 4pm?

I apologize for the inconvenience this may be.

Best wishes,  
Emma



**Emma Young**  
Sr. Environment Officer, Chippewas of the Thames First Nation  
320 Chippewa Rd Muncey, ON N0L 1Y0 | 519-289-5555 ext. 254 | [www.cottfn.com](http://www.cottfn.com)

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From: Ken McCorkle  
To: Emma Young  
Cc: Lauren Whitwham; Rochelle Smith; Kelly Riley  
Subject: RE: Chatham-Kent Rural Natural Gas pipeline project

Sent: Tue 10/04/2018 11:51 AM

Hello Emma:  
Thank you for the follow up email. Yes.....Thursday at 4PM I will call in. Could you please forward the number you would like me to call? We'll talk then.

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

**Correspondence - Chippewas of Kettle and Stony Point**

From: Ken McCorkle  
To: Thomas Bressette; Valerie George  
Cc: Shereen Smithanik (Shereen.Smithanik@ontario.ca); Lauren Whitwham  
Subject: Chatham-Kent Rural Project!

Sent: Wed 14/02/2018 11:32 AM

Message: Kettle & Stony Point First Nation.pdf (330 KB)

Hello Chief Bressette & Valerie:  
Please find attached a notification of the above noted project. Union will be in contact with you to follow up on the consultation process.

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



February 20, 2018  
File: 160961248

**Attention: Chief Thomas Bressette**  
Chippewas of Kettle and Stoney Point  
6247 Indian Lane  
Kettle and Stoney Point First Nation, ON N0N2G0

Dear Chief Thomas Bressette,

**Reference: Union Gas Limited Pipeline Project – Chatham-Kent Rural Pipeline Expansion Project:  
Notice of Project Commencement and Information Session**

To meet the growing demand for natural gas, Union Gas is proposing to construct a new 8-inch natural gas pipeline in the Municipality of Chatham-Kent. The proposed pipeline will meet the growing agricultural, commercial, and industrial market demand for natural gas in Chatham-Kent and surrounding areas, including in the fast-growing greenhouse market.

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A preliminary preferred route for the proposed pipeline has been determined. A route selection process is currently being conducted to evaluate alternative corridors. Attached please find a newspaper notice, which includes a map of the study area.

As an integral part of this project, Union Gas has hired Stantec Consulting Ltd. to undertake an environmental study of the construction and operation of the proposed pipeline and related facilities. The environmental study will fulfill the requirements of the Ontario Energy Boards' (OEB) *Environmental Guidelines for the Location, Construction and Operation of Hydrocarbon Pipelines and Facilities in Ontario (2016)*.

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February 20, 2018  
Page 2 of 2

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Chippewas of Kettle and Stoney Point is invited to provide comments regarding the proposed project. Specifically, Stantec is seeking information about any adverse impacts that the project may have on constitutionally protected aboriginal or treaty rights and any measures for mitigating those adverse impacts. Stantec is also seeking background environmental and socio-economic information that may be useful in compiling an inventory.

For additional information, please visit Union Gas' website for this project: [www.uniongas.com/Projects](http://www.uniongas.com/Projects). If you have any questions or comments regarding the environmental study process for the proposed project please do not hesitate to contact the undersigned.

Sincerely,

*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](mailto:kmccorkle@uniongas.com)

Attachment: Newspaper Notice

c. Steve Thurtell, Stantec Consulting Ltd.



February 20, 2018  
File: 160961248

Attention: Valerie George  
SENT VIA EMAIL: Valerie.George@kettlepoint.org

Dear Valerie George,

Reference: Union Gas Limited Pipeline Project – Chatham-Kent Rural Pipeline Expansion Project:  
Notice of Project Commencement and Information Session

To meet the growing demand for natural gas, Union Gas is proposing to construct a new 8-inch natural gas pipeline in the Municipality of Chatham-Kent. The proposed pipeline will meet the growing agricultural, commercial, and industrial market demand for natural gas in Chatham-Kent and surrounding areas, including in the fast-growing greenhouse market.

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February 20, 2018  
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Sincerely,

*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](mailto:kmccorkle@uniongas.com)

Attachment: Newspaper Notice

c. Steve Thurtell, Stantec Consulting Ltd.

From: Ken McCorkle  
To: Lauren Whitwham  
Cc:  
Subject: Chatham-Kent Rural Pipeline Project  
Sent: Wed 21/03/2018 4:54 PM

Hello Lauren:  
I spoke with Valerie George at the career fair today and she is going to forward me a couple of meeting dates to start the consultation for the Chatham-Kent rural project!

Thanks,  
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

From: Ken McCorkle  
 To: Lauren Whitwham  
 Cc:  
 Subject: Consultation Request for Chatham-Kent Rural Pipeline Project

Sent: Thu 15/03/2018 5:09 PM

Hello Lauren:

I followed up with a phone call, Monday March 12, 2018, to the following Nations to request a consultation regarding the Chatham-Kent Rural Pipeline project:

- 1) Aamjiwnaang First Nation (Sharilyn Johnson)
- 2) Kettle & Stony Point First Nation (Valerie George)
- 3) Walpole Island First Nation (Dr. Dean Jacobs)
- 4) Caldwell First Nation (Chief Duckworth)
- 5) Chippewa of the Thames First Nation (Emma Young)

Oneida First Nation was on the consultation list from the Ministry of Energy but I have already contacted them and conducted a consultation with Brandon Doxtator, councillor for the First Nation, on Friday March 2, 2018.

Regards,  
 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

From: Ken McCorkle  
 To: Valerie George  
 Cc: Lauren Whitwham  
 Subject: Chatham-Kent Rural Natural Gas pipeline project

Sent: Sat 24/03/2018 9:01 PM

Message: Chatham-Kent Rural Project.pdf (6 MB)

Hello Valerie:

Please see the attached presentation for the Chatham-Kent Rural pipeline that I called about on March 12, 2018. Could you please contact me regarding a time to set up a consultation for this project? It was great to speak with you at the Career fair this past Thursday.....looking forward to meeting you again. I will await your call,

Miigwetch,  
 Ken

*Ken McCorkle*

Manager, Indigenous Affairs  
 Union Gas Ltd.  
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**Correspondence - Oneida Nation of the Thames**

From: Ken McCorkle  
To: Chief Randall Phillips (randall.phillips@oneida.on.ca)  
Cc: Shereen Smithanik (Shereen.Smithanik@ontario.ca); Lauren Whitwham  
Subject: Chatham-Kent Rural Project!

Sent: Wed 14/02/2018 8:58 AM

Message | Oneida Nation of the Thames.pdf (323 KB)

Hello Chief Phillips:

Please find attached a notification of the above noted project. Union will be in contact with you to follow up on the consultation process.

Miigwetch,  
Ken

*Ken McCorkle*

Manager, Indigenous Affairs

Union Gas Ltd.

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February 20, 2018  
File: 160961248

**Attention: Chief Randall Phillips**  
Oneida Nation of the Thames  
RR2  
Southwold, ON N0L2G0  
SENT VIA EMAIL: randall.phillips@oneida.on.ca

Dear Chief Randall Phillips,

**Reference: Union Gas Limited Pipeline Project – Chatham-Kent Rural Pipeline Expansion Project:  
Notice of Project Commencement and Information Session**

To meet the growing demand for natural gas, Union Gas is proposing to construct a new 8-inch natural gas pipeline in the Municipality of Chatham-Kent. The proposed pipeline will meet the growing agricultural, commercial, and industrial market demand for natural gas in Chatham-Kent and surrounding areas, including in the fast-growing greenhouse market.

The proposed pipeline will be approximately 13 km in length and will begin at Union Gas' existing Simpson Road Station (near the community of Tupperville) and proceed south and east within the road allowance of Base Line Rd. to an end point near the corner of Base Line Road and Kent Bridge Road east of Dresden.

A preliminary preferred route for the proposed pipeline has been determined. A route selection process is currently being conducted to evaluate alternative corridors. Attached please find a newspaper notice, which includes a map of the study area.

As an integral part of this project, Union Gas has hired Stantec Consulting Ltd. to undertake an environmental study of the construction and operation of the proposed pipeline and related facilities. The environmental study will fulfill the requirements of the Ontario Energy Boards' (OEB) *Environmental Guidelines for the Location, Construction and Operation of Hydrocarbon Pipelines and Facilities in Ontario (2016)*.

The environmental study process will include consultation and engagement with landowners, municipalities, agencies, Indigenous communities, and other interested parties through notices, mailouts, meetings and an information session. The Stantec-authored Environmental Report will accompany the Union Gas application to the OEB, whose review and approval is needed before the project can proceed. If approved, construction could begin as early as Spring/Summer 2019.

The information session will be held as follows:

**Tuesday March 6, 2018  
5:00 pm to 8:00 pm  
The Old Czech Hall 116  
St John Street East  
Dresden, ON**

P.O. Box 2001, 50 Keil Drive North, Chatham, ON N7M 5M1 [www.uniongas.com](http://www.uniongas.com)  
Union Gas Limited



February 20, 2018  
Page 2 of 2

**Reference: Union Gas Limited Pipeline Project – Chatham-Kent Rural Expansion Project: Notice of Project Commencement**

Oneida Nation of the Thames is invited to provide comments regarding the proposed project. Specifically, Stantec is seeking information about any adverse impacts that the project may have on constitutionally protected aboriginal or treaty rights and any measures for mitigating those adverse impacts. Stantec is also seeking background environmental and socio-economic information that may be useful in compiling an inventory.

For additional information, please visit Union Gas' website for this project: [www.uniongas.com/Projects](http://www.uniongas.com/Projects). If you have any questions or comments regarding the environmental study process for the proposed project please do not hesitate to contact the undersigned.

Sincerely,

*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](mailto:kmccorkle@uniongas.com)

Attachment: Newspaper Notice

c. Steve Thurtell, Stantec Consulting Ltd.

From: Ken McCorkle  
To: brandon.doxlator@oneida.on.ca  
Cc: Lauren Whitwham  
Subject: Electronic Copy of the Chatham-Kent Rural Natural Gas Pipeline project for Oneida First Nation  
Sent: Thu 22/03/2018 9:30 AM  
Message: Chatham-Kent Rural Project.pdf (6 MB)

Hello Brandon:  
I trust this email finds you well my Friend!  
Please see the attached presentation that you requested from our meeting on March 2, 2018 at your office. This is the electronic copy of the hard copy I left with you regarding Union's Chatham-Kent Rural Natural Gas Pipeline project. If you have any further questions regarding this please do not hesitate to contact me!

Miigwetch,  
Ken  
*Ken McCorkle*  
Manager, Indigenous Affairs  
Union Gas Ltd.  
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Cell; 519-365-0584  
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**MOE's Review and Confirmation**

**TO BE FILED AT A LATER DATE**