

November 23, 2012

BY RESS and COURIER

Ms. Kirsten Walli
Board Secretary
Ontario Energy Board
Suite 2700, 2300 Yonge Street
Toronto, Ontario
M4P 1E4

Dear Ms. Walli:

**Re: Union Gas Limited ("Union")
Leamington Expansion Pipeline Project
Board File # EB-2012-0431**

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

Please note that Schedule 12 – Environmental Report is not included in the electronic filing. A CD of Schedule 12, along with hard copies will be provided in our hard copy filing which we will be forwarding by courier. The same will also be available on our website.

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 at 519-436-4601.

Sincerely,

[original signed by]

Mark A. Murray, LL.B
Manager, Regulatory Projects and Lands Acquisition
:mjp
Encl.

cc: Neil McKay, Manager Facilities Applications
Zora Crnojacki, Project Advisor

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
Leamington and the Town of Lakeshore, both in the
County of Essex

UNION GAS LIMITED

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 8.5 kilometres of NPS 12 natural gas pipeline (the "Proposed Pipeline"), in the Municipality of Leamington and the Town of Lakeshore, in the County of Essex.
2. Attached hereto as Schedule "A" is a map showing the general location of the proposed pipeline and the municipalities, highways, railways, utility lines and navigable waters through, under, over, upon or across which the proposed pipeline will pass.
3. The construction of the Proposed Pipeline will allow the Applicant to serve the growing greenhouse market in the Municipality of Leamington.
4. The Applicant requests that this Application be dealt with in accordance with Section 34 of the Board's Rules of Practice and Procedure for written hearings.

5. 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 23rd day of November, 2012.


Per: Dan Jones,
Assistant General Counsel for
Union Gas Limited

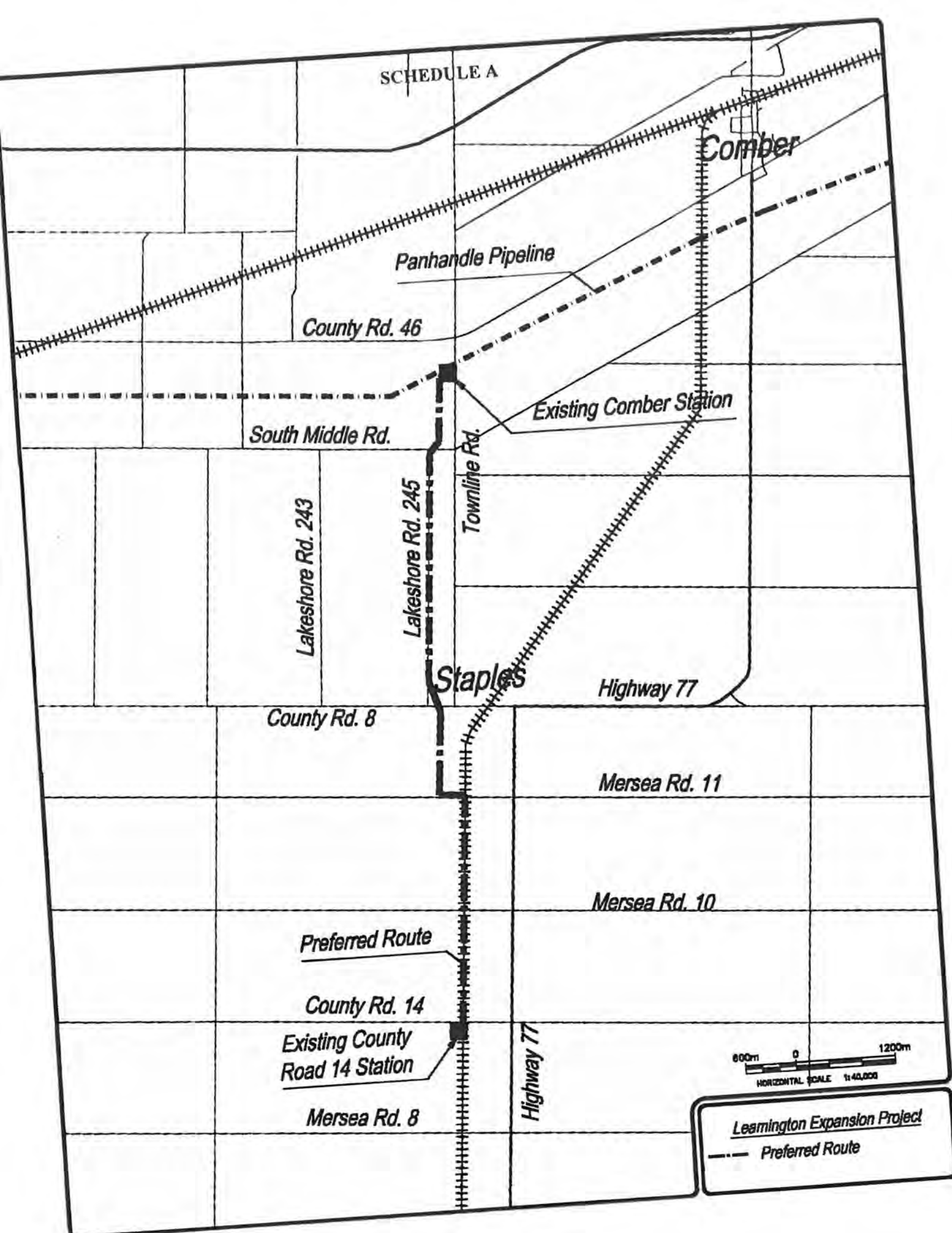
Comments respecting this Application should be directed to:

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Leamington Expansion Pipeline Project

Applications

Leave to Construct

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PROJECT SUMMARY

1. In response to requests for additional natural gas service from greenhouse growers in the Leamington area, and to ensure the continued efficient operation of the Union Gas Limited (“Union”) pipeline system, Union is seeking an Order under Section 90(1) of the Ontario Energy Board Act for leave to construct approximately 8.5 kilometers of NPS 12 natural gas pipeline in the Municipality of Leamington, and the Town of Lakeshore in the County of Essex.
2. The Leamington system can be broken down into two components: the high pressure system, and the low pressure local distribution network (“Leamington System”). The purpose of this project is to reinforce the high pressure system, 8.5 km of NPS 12 natural gas pipeline (the “Proposed Facilities”) as shown on Schedule A in Union’s Application. There will be no customers directly connected to this pipeline. Customers are spread out throughout the local distribution network and will be connected to the distribution system following normal new business guidelines.
3. Union has entered into negotiations with 18 customers that account for 51% of the capacity of the Proposed Facilities. Union will continue to sign contracts with growers until the Proposed Facilities are at full capacity.
4. The total capital costs of the Proposed Facilities, including all pipeline and station costs, are estimated to be approximately \$8,200,000.00.
5. An economic analysis has been completed for the Projects. This analysis shows that, with a contribution from the growers, the Proposed Facilities have a positive profitability index which, combined with other factors identified in paragraph 41 demonstrates that the construction project is in the public interest.
6. The economic analysis that has been completed includes the Proposed Facilities and any distribution facilities required to connect all contracted and forecast customers. As the project does not have a PI of 1 an aid to construct will be required.
7. An Environmental Report (“ER”) has been prepared for the Proposed Facilities. The ER concludes that there will be no significant environmental impacts associated with construction

1 of the Proposed Facilities given Union's standard construction procedures and the mitigation
2 measures recommended in the ER.

- 3 8. The contracted customers require natural gas service for November 1, 2013. Union plans to
4 construct the Proposed Facilities during the summer 2013 season in order to allow
5 construction of the pipeline during favourable weather conditions. Therefore, Union
6 respectfully requests the timely approval of this application by March 2013.

7
8 **NEED FOR PIPELINE**

9 ***MARKET REQUIREMENTS***

10 ***Overview***

- 11 9. Union has received a number of requests for firm and interruptible natural gas service from
12 greenhouse growers in the Leamington, Kingsville, Mersea Township and Gosfield South
13 Township area.
- 14 10. These requests have come from new greenhouse operations, greenhouses that operate on fuels
15 other than natural gas, and from growers who want to switch from interruptible service to firm
16 natural gas service. Schedule 1 provides a letter of support from the Corporation of the
17 Municipality of Leamington.
- 18 11. In order to determine the level of interest in natural gas service, Union held an open season to
19 allow growers and other users of natural gas to express their interest in natural gas service. A
20 copy of the open season package can be found at Schedule 2.
- 21 12. As part of the open season Union placed advertisements in local newspapers, held customer
22 meetings with both growers and energy marketers, and notified all contract greenhouse
23 customers. The open season was very well received, and provided Union with a clear
24 understanding of the potential growth in the greenhouse market
- 25 13. There are 18 customers, representing 21% of the Union's contract rate greenhouse growers,
26 that have entered into negotiations with Union ("Contract Customers"). This represents 51%

1 of the capacity of the Proposed Facilities. Schedule 3 identifies the individual customers who
2 are in contract negotiations with Union.

3 14. Some growers have identified that they do not require additional natural gas service at the
4 present time but will require additional service in the near future (“Forecast Customers”).
5 Schedule 3 also indicates the forecasted greenhouse growth for the next 3 years.

6 15. While it is possible to only build for the Contract Customers that have shown an interest in the
7 open season, a more practical and economic approach is to build for the Contract and Forecast
8 Customers.

9 16. The customers are aware that Union will follow its new business guidelines regarding
10 connection to the distribution system which may include the collection of an aid to construct.

11 17. The Forecast Customers will also follow these guidelines when they connect to the system.
12 This may include an aid to construct to cover the cost of constructing both the high and low
13 pressure systems.

14 **FACILITIES PLANNING**

15 ***Existing Facilities***

16 18. The Leamington and Kingsville pipeline system consists of two distinct components. There is
17 a high pressure system and a local distribution network. The high pressure system is supplied
18 by Union’s NPS 20 Panhandle Line and operates at a maximum operating pressure (MOP) of
19 6040 kPag. Downstream of this high pressure system is the local distribution network which
20 provides natural gas service to the customers in the Leamington and Kingsville area. The
21 local distribution network consists of a 1900 kPag MOP system and a 420 kPag MOP system.

22 19. There are three high pressure pipelines that serve the Leamington and Kingsville local
23 distribution network. The NPS 6 Essex Line was constructed in 1958, the NPS 8 North
24 Leamington Line was constructed in 1968, and the NPS 8 Leamington North Reinforcement
25 Line (“Mersea Line”) was constructed in 1997.

26 20. The existing Leamington and Kingsville high pressure system is shown on Schedule 4. The
27 local distribution network is shown on Schedule 5.

21. Due to tremendously strong growth in the greenhouse market in the Leamington and Kingsville area over the past couple of years, the high pressure system is currently at capacity on a peak day. Union is not able to connect any additional firm customers to the local distribution network without reinforcement of the high pressure system.

Proposed Facilities

22. Union is seeking approval for an Order to leave to construct for approximately 8.5 km of NPS 12 high pressure pipeline. These facilities would loop the existing North Leamington Line from the Comber Transmission Station to the County Road 14 Station. The proposed pipeline will be constructed on road allowance from the NPS 20 to County Road 8 and on the abandoned railroad corridor south of County Road 8.
23. As the purpose of the Proposed Facilities is to provide more gas to the local distribution network, there will be no customers attached directly to the Proposed Facilities.
24. There will be modifications at the Comber Transmission Station and a connection to the North Leamington Line at the County Road 14 Station to facilitate the Proposed Facilities.
25. The proposed pipeline is designed to a maximum operating pressure of 6040 kPag.
26. Customers who were successful in the open season will be attached to the local distribution network. There may be some additional pipeline and station facilities required to attach these customers to the local distribution network. Facilities required to connect new greenhouse customers 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 as per the new business attachment guidelines.
27. Union has completed a Facilities Business Plan (“FBP”) for the reinforcement of the high pressure pipeline system and the local distribution network. The FBP identifies some larger diameter pipelines to reinforce the local distribution network. The FBP has also identified future phases of the high pressure system reinforcement, if greenhouse growth continues at the current rate. Union will seek future Orders for leave to construct as growth develops on the system.

Alternatives Considered

28. To reinforce the high pressure pipeline system, Union considered three different starting points on the NPS 20 Panhandle Line as the source of gas for this project. The Leamington North Reinforcement Line/NPS 20 Panhandle Valve site, the Comber Transmission Station and a point east of Comber Transmission Station near Highway 77 which follows the abandoned railway corridor. The three potential routes are shown on Schedule 6.
29. The Comber Transmission Station was selected for the following reasons:
- It is the lowest cost option due to the ability to utilize an existing station at the take off;
 - It had the opportunity for alternative routes that would provide the shortest route from the Panhandle system to the area requiring reinforcement; and,
 - It provides the ability to utilize part of the abandoned railway corridor.
30. Several pipe sizes were considered for this project. NPS 8, 10, 12 and 16 inch nominal diameter were considered. An NPS 12 was determined to be the appropriate size based on the results of the open season and the expected growth in the area as detailed in the Facilities Business Plan.

PROJECT COSTS AND ECONOMICS

Project Costs

31. The total estimated capital cost for all the facilities required for the Project including pipeline and stations is as follows:

Total Pipeline Cost (including Environmental cost)	\$6,400,000.00
Total Station Cost	<u>\$1,800,000.00</u>
Total Project Cost	<u>\$8,200,000.00</u>

32. The total estimated capital pipeline costs and station costs can be found at Schedules 7 and 8 respectively.

33. The estimated total capital cost of the project includes contingencies and interest during construction (“IDC”).

34. The estimated material cost of the pipeline of \$1,500,000.00 covers the costs of all pipe, valves, fittings, coatings, miscellaneous items and stores overheads. Estimated costs for all materials are based on past experience and recent manufacturer quotes. The stores overheads cover all warehousing and handling costs of the materials.

35. The estimated costs of construction and labour of \$4,100,000.00 covers the installation of the pipeline, valving facilities and land acquisition. The construction and labour cost estimate is based on Union’s experience with construction of similar projects.

36. The estimated costs associated with environmental measures are included in the total pipeline capital costs shown in Schedule 7. These costs are identified as pre construction-related, construction related, and post-construction related. The estimated total environmental costs are \$246,500.00.

Project Economics

37. Union has employed an economic feasibility test consistent with the Board’s recommendations in the E.B.O. 188 Report on Natural Gas System Expansion to assess the economics of this project.

38. The Board has found that new distribution facilities are in the public interest if no undue burden is placed on existing customers. When the proposed facilities are included in Union’s 2013 new business investment portfolio the resulting Profitability Index (“PI”) would be 1.14. Similarly, including the proposed facilities in Union’s rolling portfolio as at October 2012 would result in a PI of 1.43.

39. To provide the Board with additional information, a standalone Discounted Cash Flow (“DCF”) analysis was completed. It can be found at Schedule 9. This schedule indicates that the proposed facilities have a PI of 1.0 with a contribution of \$2,092,349.00.

40. Union therefore submits that the distribution of natural gas by Union to the Leamington area is economically feasible and in the public interest.

Other Public Interest Considerations

41. There are a number of other public interest factors for consideration as a result of the addition of the proposed facilities. These additional public interest considerations include the following:

Reduced Air Emissions

Natural gas, because of its cleaner-burning properties compared to other fossil fuels, has an increasingly important role to play in reducing the environmental impacts of energy use. Emissions from the combustion of natural gas are less than other fossil fuels on a per unit of energy basis.

Utility Taxes - Income and municipal taxes paid by Union as a direct result of the project are included as costs in the economic analysis. These taxes are not true economic costs of the project, but rather represent transfer payments within the economy as they are available for redistribution by the federal, provincial and municipal governments. Since these taxes have been included as a cost in the analysis, they must also be considered as a benefit in order to reflect the appropriate economic benefit on an overall basis.

Employment - The construction of this project will result in additional direct and indirect employment. There will be additional employment of persons directly involved in the construction of the project and the manufacture of pipe. There are also substantial indirect benefits or multiplier effects related to these activities. Therefore, as a result of the construction of the proposed facilities, the Ontario economy would receive a positive employment benefit.

PIPELINE DESIGN AND CONSTRUCTION

Construction Matters

42. Between the Comber Transmission and County Road 14 stations, the proposed pipeline will be constructed on easement, road allowance and an abandoned rail corridor.

43. The prime construction contractor will mobilize to the area. Access roads will be constructed to gain entry to the working area. It will be necessary to clear and grade both the easement and temporary land use areas. Topsoil will be stored in the temporary land use areas. Clearing along road allowance will also be required. Stringing trucks will deliver the NPS 12 pipe. The pipeline will then be welded, x-rayed, coated. Bending will take place if required. The trenching crew will excavate a new trench. Spoil will be placed, separate from the topsoil. The welded pipe will be lowered into the trench. Sand-padding will be installed as needed given the ground conditions. The trench will be backfilled. Watercourse crossings will be an open cut or directionally drilled. All roads crossings will be horizontally drilled if possible. Welding crews will complete all tie-ins of trenched, open-cut and bored sections. The continuous pipeline will then be cleaned, hydrostatically tested and dried. Final tie-ins will be completed at the stations and the pipeline placed into service. Final clean up of the easement and the road allowance will be completed.
44. The Proposed Facilities will be constructed using Union's standard practices and procedures and will be in compliance with the mitigation measures identified in the ER.
45. Material is readily available for the project and Union foresees no problem in obtaining contractors to complete the proposed construction. Construction contract documents will be prepared at a later date. The ER will be included as part of the contract documents.
46. Permits, approvals and authorizations are pending from the Municipality of Leamington, Town of Lakeshore, Hydro One, and the Essex Region Conservation Authorities. Union expects to receive all approvals prior to construction.

Construction Schedule

47. Schedule 10 provides the proposed construction schedule for the project. Construction of the Proposed Facilities is expected to begin in May 2013 in order to meet the requested in-service date for commissioning in November 2013 and to construct the pipeline summer weather conditions.

Design and Pipe Specifications

48. All design, installation and testing of the natural gas pipelines are in accordance with the requirements of Ontario Regulation 210/01, Oil and Gas Pipeline Systems under the Technical Standards and Safety Act 2000. This regulation governs the installation of pipelines in the Province of Ontario. The minimum design and pipe specifications for the proposed NPS 12 pipelines are outlined in Schedule 11.
49. The Ontario regulations include a classification system on land use and population density to determine the appropriate design factors.
50. A Class 1 location contains ten or fewer dwellings intended for human occupancy within a 200 m wide strip of land on either side of the centerline of any continuous 1.6 km length of pipeline.
51. A Class 2 location contains more than ten but fewer than 46 dwellings intended for human occupancy within a 200 m wide strip of land on either side of the centerline of any continuous 1.6 km length of pipeline. Further, a Class 2 location is designated to contain the following:
- a. A building that is occupied by 20 or more persons during normal use;
 - b. A small, well-defined outside area that is occupied by 20 or more persons during normal use such as a playground, recreation area, outdoor theatre, or other place of public assembly; or
 - c. An industrial installation such as a chemical plant or hazardous substance storage area, where release of products from a pipeline could cause the industrial installation to produce a dangerous or environmentally hazardous condition.
52. A Class 3 location contains more than 46 dwellings intended for human occupancy within a 200 m wide strip of land on either side of the centerline of any continuous 1.6 km length of pipeline.
53. The proposed NPS 12 pipeline is located within Class 1 locations. The pipeline is designed to meet the requirements of Class 3 locations in areas where the potential for such development exists.

54. The MOP for the proposed NPS 12 pipeline is 6040 kPag and will have an outside diameter of 323.9 millimeters.

55. The minimum depth of cover specified is 1.2 metres to the top of the pipe. Additional depth will be provided to accommodate existing or planned underground facilities, or in specific areas in compliance with the applicable regulated standards.

ENVIRONMENTAL MATTERS

56. Azimuth Environmental Consulting Inc. prepared an ER for the proposed pipeline dated October 2012. The results of the ER indicate that the location of the proposed pipeline is environmentally acceptable. Union believes that by following its standard construction practices and adhering to the mitigation measures identified in the ER, construction of this project will have negligible impacts on the environment. No significant cumulative effects are anticipated from development of the proposed pipeline. A copy of the ER can be found at Schedule 12.

57. The ER was prepared in accordance with the Board's document "Environmental Guidelines for Locating, Constructing and Operating Hydrocarbon Pipelines in Ontario" [2011].

58. The objectives of the ER were to:

- a. Define a study boundary in the area of the proposed pipeline and review environmental conditions within this area;
- b. Identify pipeline route alternatives;
- c. Evaluate route alternatives and document the route selection process;
- d. Undertake detailed environmental studies of the proposed route and assess the potential environmental effects of construction and operating a pipeline along this route;
- e. Record the concerns of Provincial ministries, municipalities, conservation authorities and landowners along the proposed route;
- f. Recommend mitigation measures which minimize any adverse environmental impacts of pipeline construction; and

- 1 g. Provide pipeline contractors and the environmental inspector involved in the
2 construction of the pipeline with general and site-specific guidelines for environmental
3 protection that supplement Union's construction specifications.
- 4 59. Letters were delivered to all directly and indirectly affected landowners along the preliminary
5 preferred route and to landowners on alternative routes. Letters were either forwarded by mail
6 or by mail drop and were provided to inform landowners of the project and of the Information
7 Session. Also, at the same time letters were forwarded to environmental agencies,
8 municipalities, First Nations and Métis, to inform them of the project and of the Information
9 Session.
- 10 60. To solicit input from the general public with respect to the project, a Notice of Information
11 Session was published in two local papers. The Information Session, which identified a
12 preliminary preferred route and several alternative routes along with potential mitigation
13 measures, was held on July 24, 2012 in Comber, Ontario. The Session was attended by seven
14 members of the public. Questions asked at this time included requests for natural gas service,
15 traffic control, access to properties and general inquiries about the project. Discussions with
16 attendees did not result in the identification of any concerns with the preliminary preferred
17 route.
- 18 61. A copy of the ER was submitted to the Ontario Pipeline Coordination Committee ("OPCC")
19 on November 14, 2012. Also, a copy of the ER was sent to local municipalities, the Essex
20 Region Conservation Authority, First Nations, Métis and upon request to interested parties.
21 Directly affected landowners received a copy of the Executive Summary and will be provided
22 a copy of the ER upon request. A summary of the comments and Union's response to
23 concerns from agencies and interested parties will be filed, when received, as Schedule 13.
- 24 62. The total estimated environmental mitigation costs associated with the construction of the
25 Proposed Facilities are identified in Schedule 14. These costs are identified as pre-
26 construction related, construction-related and post-construction related. The estimated total
27 environmental costs are \$246,500.00.
- 28 63. There are seven drain crossings associated with the construction of this project. Union will
29 obtain all necessary permits associated with these crossings prior to construction.

64. When the project is constructed, the most up-to-date construction specifications will be followed.

65. Union will ensure that the recommendations in the ER, commitments and the conditions of approval are followed. An environmental inspector will monitor construction activities and ensure that all activities comply with all conditions of approval.

66. The results of the ER indicate that the environmental and socio-economic effects associated with construction of the project are generally short-term in nature and minimal. There are no significant cumulative effects as a result of this pipeline construction.

LAND MATTERS

Land Requirements

67. The proposed facilities will be constructed on private easement lands, road allowances and an abandoned railway corridor owned by the Municipality of Leamington.

68. Union will be required to obtain the necessary crossing permits or agreements with local Municipalities, Conservation Authority, and other utilities along the pipeline route.

69. Union will not require any fee simple purchase of land.

70. Union has met or will be speaking with all of the directly affected landowners along the proposed pipeline route.

71. There is one private landowner that Union will require permanent land rights from for the Proposed Facilities. Union has been in contact with the landowner and will obtain a signed agreement in December 2012.

72. Union will require temporary land use for the pipeline construction from seven separate land owners. Union will be contacting and negotiating with those landowners.

73. Union has negotiated the use of the abandoned railway corridor with the Municipality of Leamington and will be obtaining a signed agreement in the next couple of months.

74. Schedule 15 is a map that shows the running line of the pipeline and the permanent and temporary land rights required for the pipeline.

Pipeline-Related Easement Requirements

75. Schedule 16 lists the names and addresses and identifies the permanent and temporary land use rights required to construct the proposed pipeline.

76. Union's form of easement is attached as Schedule 17 this form will be offered to all new landowners where permanent easements are required. This easement covers the installation, operation and maintenance of one pipeline. The main restrictions imposed upon the individual landowner by having this easement is that the landowner cannot erect buildings or privacy fencing in the easement. The landowner can, however, install service pipe or utility lines or develop the easement into a laneway or driveway entrance upon prior written approval by Union.

77. Temporary Land Use Agreements are usually required for a period of two years. This allows Union the opportunity to return in the year following construction to perform further clean-up and remediation work as may be required. Union will offer a form of Temporary Land Use Agreement previously approved by the Board and utilized by Union in the past on similar pipeline projects.

78. At the conclusion of construction, Union will seek a Full and Final Release from each of the directly affected landowners. This Full and Final Release will include compensation for any damages caused or attributed to the pipeline construction.

Landowner Issues

79. Union has implemented a comprehensive program to provide landowners, tenants, and other interested persons with information regarding the proposed pipeline. Project information was distributed through correspondence and meetings with the public.

80. For over a decade Union has had in place a comprehensive Landowner Relations program which has proven successful on other projects. The key elements of this program are a Complaint Tracking system, and the assignment on a full-time basis of a Landowner Relations

1 Agent to projects such as these to ensure that commitments made to landowners are fulfilled,
2 to address questions and concerns of the landowners, and to act as a liaison between
3 landowners and the contractor and company engineering personnel. Union's Complaint
4 Resolution System will be used in this project to record, monitor, and ensure follow-up on any
5 complaint or issue received by Union related to the construction. This process assists in
6 resolving complaints and tracking the fulfillment of commitments. A process chart and
7 explanatory notes that describe the Complaint Resolution System are found in Schedule 18.
8 In addition to the Landowner Relations Agent's duties during construction, the individual
9 assigned to this position will conduct pre-construction and post-construction interviews to
10 capture any concerns (so that they can be resolved, if at all possible) and document specific
11 landowner concerns and comments (so that they can be considered in the planning of future
12 projects).

- 13 81. After construction, negotiations with landowners will continue, where necessary, to settle any
14 damages that were not foreseen or compensated for, prior to construction.

15 **FIRST NATION AND MÉTIS**

- 16 82. Union has a long standing practice of consulting with Métis and First Nations, and has
17 programs in place whereby Union works with them to ensure they are aware of Union's projects
18 and have the opportunity to participate in both the planning and construction phases of the
19 project.

- 20 83. Union has an extensive data base and knowledge of First Nations and Métis organizations in
21 Ontario and consults with the Tribal organizations and the data bases of the Ministry of Natural
22 Resources, Ministry of Aboriginal Affairs and Aboriginal Affairs and Northern Development
23 Canada to ensure consultation is carried out with the most appropriate groups.

- 24 84. Union has signed a General Relationship Agreement with the Métis Nation of Ontario which
25 describes Union's commitments to the Métis when planning and constructing pipeline projects.

- 26 85. The following First Nations and Métis were notified by letter regarding the Project on two
27 separate occasions.

Chief Liz Cloud	Chippewas of Kettle and Stony Point First Nations
Chief Chris Plain	Aamjiwnaang First Nation
Chief Joseph Gilbert	Walpole Island First Nation
Chief Louise Hillier	Caldwell First Nation
Chief Greg Peters	Moravian of the Thames First Nation
Chief Richard Miskokomon	Chippewa of the Thames First Nation
Chief Patrick Waddilove	Munsee Delaware First Nation
Chief Joel Abrams	Oneida First Nation
Melanie Paradis	Director of Lands, Resources and Consultation Métis Nation of Ontario

- 1
- 2 86. Union conducted formal consultations with the following First Nations and the Métis Nation
- 3 for the Project:
- 4 ○ Caldwell First Nation
- 5 87. The consultation included:
- 6 ○ April 27, 2012 phone call with Chief Hillier regarding this project
- 7 ○ Formal meeting with Chief Hillier and Caldwell First Nation Councilors to review
- 8 this project.
- 9 88. Copies of the correspondence that were sent to the First Nations and Métis groups can be found
- 10 in Schedule 19.
- 11 89. The following issues were raised as part of the consultations process:
- 12 ○ Caldwell First Nation did not bring up anything specific to this project but we were
- 13 informed that in the future they will be securing lands to create their Reserve as part
- 14 of their Land Claim settlement but not likely in the area of the Pipeline
- 15

- 1 90. Union proposed to address these concerns in the following manner:
- 2 ○ Union will discuss Permit requirements to have pipe on Reserve lands once Caldwell
- 3 First Nation secures their lands.
- 4 91. During construction, Union has inspectors in the field who are available to First Nation's and
- 5 Métis organization as a primary contact to discuss and review any issues that may arise during
- 6 construction.
- 7 92. When Union completes the necessary archaeological assessments for the project Union will
- 8 consult with and provide the result of the surveys to any First Nations or Métis upon their
- 9 request.



THE CORPORATION OF THE MUNICIPALITY OF LEAMINGTON

111 Erie Street North, Leamington, ON, Canada N8H 2Z9

Telephone (519) 326-5761 • Fax (519) 326-2481

OFFICE OF THE MAYOR

John Paterson

Email: jpaterson@leamington.ca

November 21, 2012

Union Gas Limited
3840 Rhodes Drive
Windsor, ON
N9A 6N7

Attn: Mark Egbedeyi-Emmanuel, District Manager, Windsor/Chatham

Dear Mr. Egbedeyi-Emmanuel:

RE: Leamington Reinforcement Line Project

Leamington is very supportive of Union Gas' Leamington Reinforcement Line Project and is encouraged that this initiative is being considered by the Ontario Energy Board.

The Municipality relies heavily on the greenhouse sector which contributes significantly to employment in the region. The sector has expanded dramatically in the last five years and this growth is expected to continue as the sector works to address market demands. In order to keep pace with this expansion, the new pipeline is essential. It will allow not only the greenhouse sector to operate effectively, but it will also help the municipality in its investment attraction programs, and future residential growth.

The Municipality has enjoyed a long and extremely amicable relationship with Union Gas and appreciates their efforts to provide the best, most cost effective and modern service delivery to our businesses and residents.

We look forward to the completion of this very important project.

Yours truly,

John Paterson
Mayor

JP/kms

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Union Gas Leamington Pipeline Expansion Project Expression of Interest in Gas Service for Commercial and Industrial Customers

Union Gas is seeking expressions of interest in gas distribution service from new and existing commercial and industrial customers, to support a proposed new 12-inch diameter pipeline to be built in the Leamington and Kingsville area.

Firm and Interruptible distribution service would be available beginning as early as Nov. 2013, contingent on sufficient market support and approval of the pipeline project by the Ontario Energy Board. Services include:

1. Firm distribution service (265 new acres) to greenhouses in Leamington and Kingsville area
2. Interruptible distribution service (141 new acres) to greenhouses in Leamington and Kingsville area
3. Conversion of customers from Interruptible distribution service to Firm distribution service (103 existing acres) for greenhouses in Leamington and Kingsville area

This offer excludes individual customer specific costs required to serve specific customers such as customer station costs, customer service lateral cost and extensions.

This offer closes at 12 p.m. EDT on July 27, 2012. Completed Expression of Interest Bid Forms must be returned on or before 12 p.m. EDT on July 27, 2012.

For information on this project or to submit a binding expression of interest, see the "What's New" section on www.uniongas.com/business.

Project Contacts:

John Squazzin Union Gas Account Manager 519 436-5478 jsquazzi@uniongas.com	Jeff Blunt Union Gas Account Manager 519 436-5298 jblunt@uniongas.com
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Union Gas Limited
Expression of Interest for
Leamington Expansion Project

July 6, 2012

To serve a growing demand for natural gas in the Leamington and Kingsville area, Union Gas is proposing to build a new 12-inch diameter pipeline from the existing Union Gas Comber Station located on Townline Road just south of County Road 46 to an existing Union Gas station located along County Road 14 (see attached map).

The "*Leamington Expansion Project*" will provide additional capacity to serve an equivalent of 509 acres of greenhouses in the Leamington and Kingsville, area.

Union Gas is pleased to announce a binding expression of interest for Firm and Interruptible distribution service on the proposed new pipeline, beginning as early as November 2013.

Development of this project is contingent on sufficient market support and approval of the project by the Ontario Energy Board (OEB).

Proposed Services:

Capacity would be available for the following three services, depending on market support:

- 1) *Firm distribution service (265 New Acres) to greenhouses in the Leamington and Kingsville area; and***
- 2) *Interruptible distribution service (141 New Acres) to greenhouses in the Leamington and Kingsville area; and***
- 3) *Conversion of customers from Interruptible distribution service to Firm distribution service (103 Existing Acres) for greenhouses in the Leamington, and Kingsville area.***

This offering does not include the individual customer specific costs that are required to serve specific customers such as customer station costs, customer service lateral cost and extensions. This offering is only for the facilities shown in the attached map.

This Open Season closes at **12:00 p.m. EDT on July 27, 2012.**

1. Service Description and Details:

Term:

As this expansion project requires a significant capital investment and is being constructed during a period of changing gas supply dynamics, the term of these agreements is to be a minimum of one year contractual commitments and or upfront payment for capacity. The facilities, rates and services included in this binding Expression of Interest will be subject to OEB approval.

2. Submitting a Binding Expression of interest

If you wish to participate in the ***Leamington Expansion Project***, please complete, sign and return the Expression of Interest via email or fax to:

ATTN: Jeff Blunt or John Squazzin
Email: llajoie@uniongas.com
Fax: 613-634-4541

Completed forms must be returned on or before 12 p.m. EDT on July 27, 2012

Expression of Interest Process:

This binding Expression of Interest is being offered to assist Union Gas with determining facility design requirements to meet market needs. Union Gas will acknowledge customers bid in writing or e-mail on or before 4 p.m. EDT on July 31, 2012. Union Gas in its sole discretion reserves the right to reject any and all proposals received.

The returned forms will be time stamped by the date on the fax or e-mail date.

Union will evaluate awarding of capacity on a first come first serve basis and when capacity is required. Earliest start date is November 1, 2013 and the term the customer is willing to commit to for the service.

Successful bidders will be expected to execute a Union Gas Distribution Contract within two years of Union Gas receiving OEB approval to build the facility. The bidders will also submit an irrevocable letter of credit or cash payment by the end of August 30, 2012. Once a contract has been executed, the letter of credit will be returned.

If one of the three services mentioned above is sold out, and capacity is still available for the other services, Union Gas reserves the right to contact the next customer in line based on the received faxed date and time to offer this customer one of the unsold services.

Any suggested Conditions Precedent that the Customer proposes should be clearly articulated and attached to the bid form and will be considered during the capacity allocation process. Successful participants in the Expression of Interest will be expected to submit a letter of credit or make cash payment by August 30, 2012.

To discuss the Letter of Credit in more detail, contact your Account Manager or Jeff Blunt or John Squazzin.

Union Gas anticipates allocating capacity to successful bidders and executing the associated contracts no later than August 30, 2012.

If you have any questions about the *Leamington Expansion Project*, please contact:

Jeff Blunt, Account Manager, Greenhouse Markets, (519) 436-5478;
jblunt@uniongas.com

John Squazzin, Account Manager, Greenhouse Markets, (519) 436-5298;
jsquazzi@uniongas.com

Expression of Interest BID FORM

Page 1 of 1

Please complete, sign and return this Expression of Interest Bid Form on or before 12:00 p.m. EDT on July 27, 2012, via email or fax to:

ATTN: Jeff Blunt or John Squazzin via

Email: llajoie@uniongas.com

or Fax: 613-634-4541

This is a binding bid, subject to specified conditions precedent. The purpose of the Leamington Expansion Project is for Union Gas to determine the facility design requirements to support market needs. Union Gas will determine whether or not to proceed with offering any of the services defined in the Leamington Expansion Project based on the assessment of the results from this Expressions of Interest by signing and returning this Distribution Service Bid Form,

Customers may submit one bid form. Please indicate your requirements below:

Expression of Interest Binding Bid:

- ☐ Interruptible Distribution Service; number of acres requesting _____ acres (\$10,300/acre)
- ☐ Firm Distribution Service; number of acres requesting _____ acres (\$20,500/acre)
- ☐ Conversion of customers from Interruptible distribution service to Firm distribution service; number of acres requesting _____ acres (\$20,500/acre)

TOTAL (Interruptible, Firm + Conversion) Acres _____

☐ Non Greenhouse Applications _____ m³ /hour (\$ 205/m³ /hour).

Start Date ☐ Nov 1, 2013 or _____ ☐ (m/d/yr)

Customer's Condition Precedence:

Method of Providing commitment

☐ Cash payment Amount: _____ or ☐ Letter of Credit Amount: _____

Dated this _____ day of _____ 2012

CUSTOMER LEGAL NAME _____

By: _____

Signature: _____

E-mail: _____

Name: _____

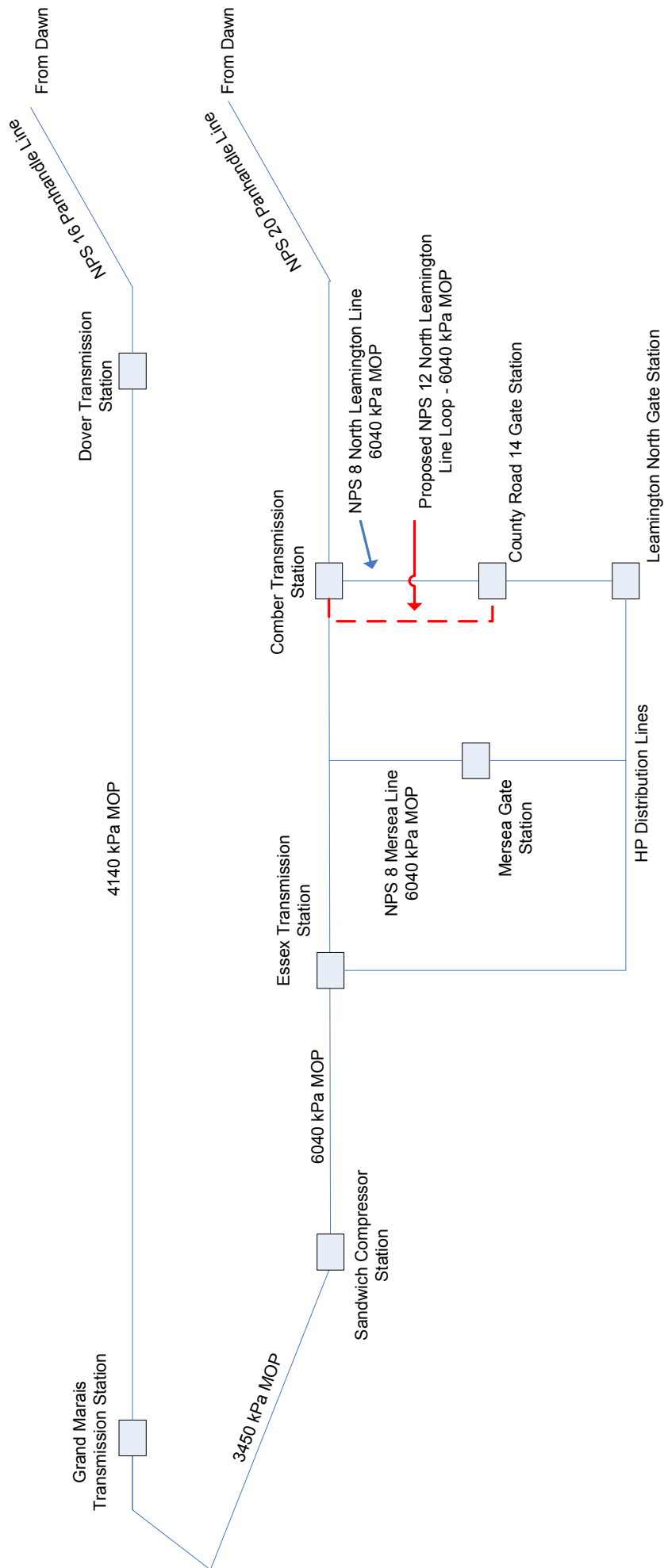
Phone: _____

Contracted and Forecasted Customer Growth

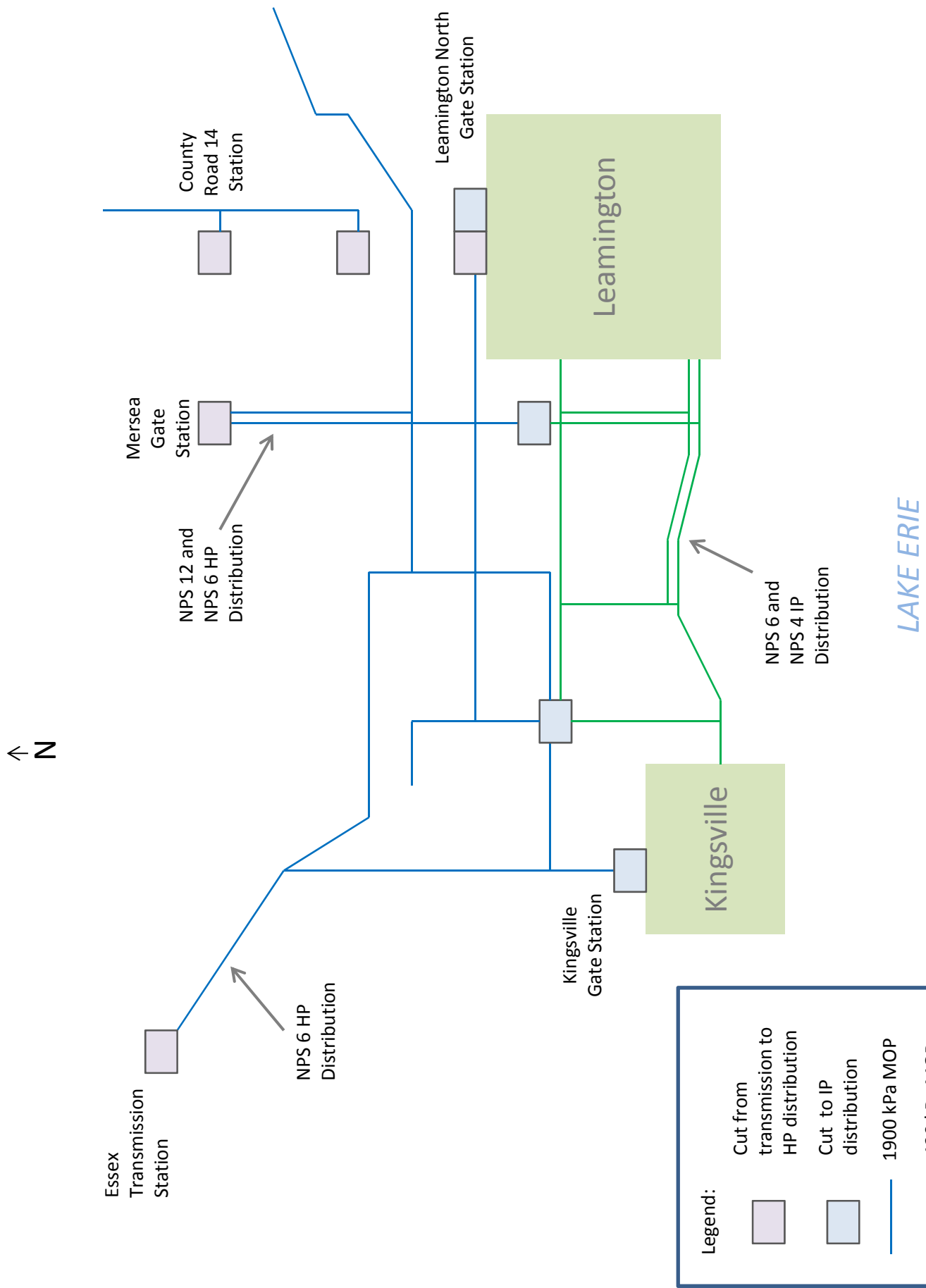
EB-2012-0431
Schedule 3

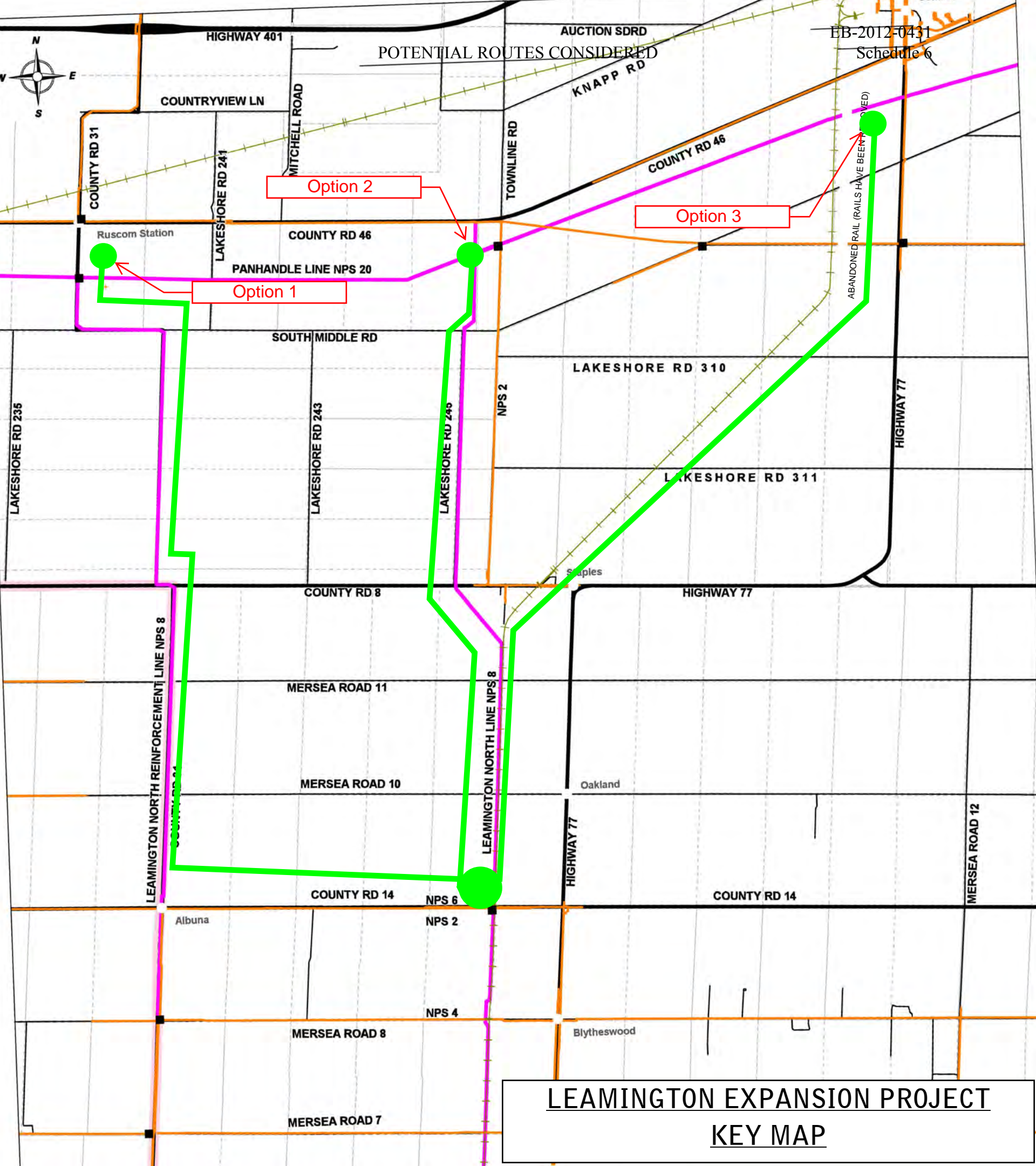
		Interruptible Distribution Service (# of acres)	Firm Distribution Service (# of acres)	Conversion from Interruptible to Firm (# of acres)	Start Date Requested
Contract	1			7	November 2013
	2			10	November 2013
	3			4	November 2013
	4	12			December 2013
	5	20	20	25	November 2013
	6		4		November 2013
	7		1.5		November 2013
	8	30			November 2013
	9		10		November 2013
	10			6	November 2013
	11			10	November 2013
	12			15	November 2013
	13			2.5	November 2013
	14		5.2	8.2	November 2013
	15			5.5	November 2013
	16	9	8		December 2014
	17		32		November 2015
	18	12			December 2015
		83.0	80.7	93.2	
Forecast	1		30		November 2014
	2		30		November 2014
	3			15	November 2014
	4	20			November 2014
	5		30		November 2015
	6		30		November 2015
	7			15	November 2015
	9		30		November 2016
	10		34.3		November 2016
	11			17.8	November 2016
		103	265	141	

EXISTING HIGH PRESSURE SYSTEM



EXISTING LOCAL DISTRIBUTION NETWORK





TOTAL ESTIMATED PIPELINE CAPITAL COSTS

LEAMINGTON PIPELINE PROJECT

Pipeline and Equipment

NPS 12 Steel Pipe, Coated 8,500 metres	\$1,350,000	
Valves, Fittings and Miscellaneous Material	<u>\$119,000</u>	
Sub-Total	\$1,469,000	
Stores Overhead – Valves, Fittings and Misc. Material	<u>\$14,000</u>	
Total Pipeline and Equipment		\$1,483,000

Construction and Labour

Lay 8,500 metres of NPS 12 Steel Pipe	\$3,166,000	
Boring, Weights, Testing, Valving, Casing		
Miscellaneous Contract Labour		
Company Labour, X-Ray, Construction Survey, Legal, Mill Inspection and Consultants	\$534,000	
Easements, Lands, Damages & Regulatory	<u>\$373,000</u>	
Total Construction and Labour		<u>\$4,073,000</u>

Total Estimated Pipeline Capital Costs - 2013 Construction	<u>\$5,556,000</u>
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Escalation	\$157,000	
Contingencies	\$571,000	
Interest During Construction	<u>\$108,000</u>	
Total Estimated Pipeline Capital Costs – 2013 Construction		<u><u>\$6,392,000</u></u>

Includes the Estimated Environmental Costs Identified in Schedule 14.

TOTAL ESTIMATED STATION CONSTRUCTION COSTS**STATION MODIFICATIONS**

Station Equipment	\$743,000	
Construction and Labour	<u>\$852,000</u>	
Total Station Equipment and Construction and Labour		\$1,595,000
Escalation	\$48,000	
Contingency	\$106,000	
Interest During Construction	<u>\$29,000</u>	
Total Estimated Station Capital Costs – 2013 Construction		<u><u>\$1,778,000</u></u>

[illegible]

D	ID	Task Name	Start	Duration	Task Mode
1	6	NPS 12 Pipeline			
2	3	Field Survey	Fri 01/03/13	43 days	
3	2	Mobilize	Mon 29/04/13	2 days	
4	4	Access & Grading Easement	Wed 01/05/13	13 days	
5	5	String Pipe	Tue 14/05/13	8 days	
6	6	Weld Pipe	Mon 27/05/13	24 days	
7	7	Ditch, Lower & Backfill Easement	Mon 01/07/13	5 days	
8	8	Ditch, Lower and Backfill Road	Mon 08/07/13	10 days	
9	9	Ditch, Lower and Backfill Rail	Mon 22/07/13	10 days	
10	10	HDD Road Crossings (5)	Mon 01/07/13	11 days	
11	11	HDD Creek and Cnty Road 8	Tue 16/07/13	5 days	
12	12	Intermediate Tie-ins	Mon 05/08/13	10 days	
13	13	Testing	Mon 19/08/13	6 days	
14	14	Final Tie-Ins	Tue 27/08/13	4 days	
15	15	Purge and Pressurize	Mon 02/09/13	3 days	
16	16	Contingency	Thu 05/09/13	18 days	
17	17	Clean Up	Tue 01/10/13	20 days	
18	18				
19	19	Comber Transmission Station			
20	20	Fabrication	Fri 01/03/13	66 days	
21	21	Shut in Feed from Panhandle	Mon 03/06/13	3 days	
22	22	Disconnect & Remove Meter Building	Wed 05/06/13	3 days	
23	23	Excavate Valve Nest & Install Mueller Stopper Fitting on 6" Bypass	Mon 10/06/13	2 days	
24	24	Demo Station & Blind Flange Valve Nest	Wed 12/06/13	14 days	
25	25	Install, Weld & Bolt Up	Tue 02/07/13	21 days	
26	26	Pressure Test	Wed 31/07/13	2 days	
27	27	Tie-ins	Fri 02/08/13	3 days	
28	28	Commissioning	Wed 07/08/13	5 days	
29	29	NPS 20 Panhandle Tie-in & Remove Old Tie-in	Wed 14/08/13	7 days	
30	30	Bring 12" In service, Shut in 8" to County Road 14 Str	Fri 23/08/13	2 days	
31	31	Complete Final Tie-ins at Comber	Tue 27/08/13	7 days	
32	32	Return 8" to Service	Thu 05/09/13	2 days	
33	33	Contingency	Mon 09/09/13	14 days	
34	34	Clean Up	Mon 30/09/13	14 days	
35	35				
36	36	County Road 14 Station			
37	37	Install New Culvert	Mon 01/04/13	5 days	
38	38	Renovate Fencing	Tue 02/04/13	3 days	
39	39	Locate and Excavate	Mon 08/04/13	3 days	
40	40	Pour Footings, Install Pipe and Fittings	Thu 11/04/13	15 days	
41	41	Pressure Test	Thu 02/05/13	2 days	
42	42	Tie-ins	Tue 27/08/13	3 days	
43	43	Contingency	Fri 30/08/13	14 days	
44	44	Clean Up	Thu 19/09/13	10 days	
45	45				
46	46	In Service	Fri 01/11/13	1 day	

Project: Learning Expansion Pr
Date: Tue 23/10/12

Summary
Project Summary
External Tasks

Task
Split
Milestone

External Milestone
Inactive Task
Inactive Milestone

Inactive Summary
Manual Task
Duration-only

Manual Summary Rollup
Manual Summary
Start-only

Finish-only
Deadline
Progress

Page 1

LEAMINGTON EXPANSION: NATURAL GAS PIPELINE PROJECT

DESIGN AND PIPE SPECIFICATIONS

Design Specifications: NPS 12

Class Location	-	Class 1
Design Class Location	-	Class 3
Design Factor	-	0.80
Location Factor	-	0.625
Maximum Design Pressure	-	6040 kPa
Test Medium	-	Water
Test Pressure	-	Min: 9653 kPa, Max: 10343 kPa
Valves/Fittings	-	PN 100 above grade; buried fittings Grade 359, 7.1 mm wall, Cat I
Minimum Depth of Cover	-	1.2 m

Pipe Specifications:

Size	-	NPS-12
Wall Thickness	-	7.1 mm
Grade	-	359 MPa
Type	-	Electric Resistance Weld
Description	-	C.S.A. Standard Z245.1-02
Category	-	Cat. I, M5C
Coating	-	Yellow Jacket/Abrasion Resistant Coating
% SMYS	-	38%

Summary of Comments

TO BE FILED WHEN RECEIVED

TOTAL ESTIMATED ENVIRONMENTAL COSTS

**LEAMINGTON EXPANSION
PROJECT**

Pre-Construction

Environmental Assessment	\$	35,000
Archaeology		15,000
Soil Sampling		10,000
Hearing Costs (Environmental Consultant)		5,000
Permits		<u>3,000</u>

Total Pre-Construction \$ **68,000**

Construction

Environmental Inspection	\$	5,000
Water Well Sampling		10,000
Stream Crossings		1,500
Site Restoration		<u>120,000</u>

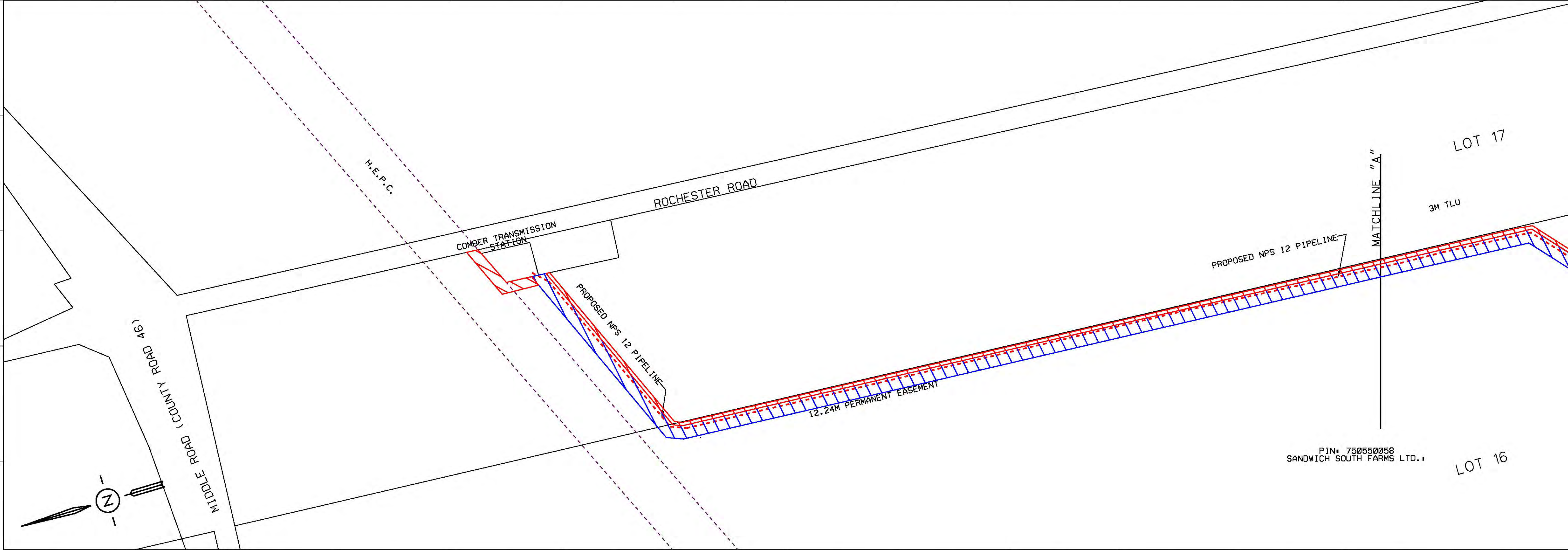
Total Construction \$ **136,500**


Post Construction

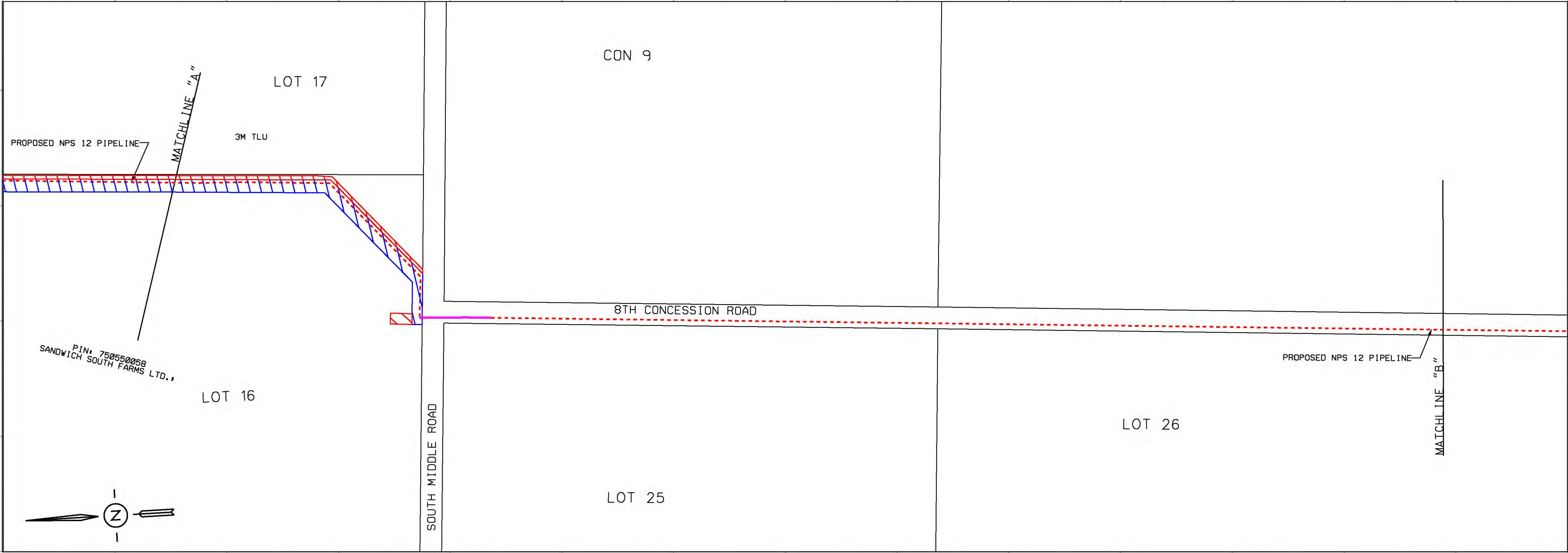
Site Restoration	\$	40,000
Environmental Inspection/Monitoring		<u>2,000</u>


Total Post Construction \$ **42,000**

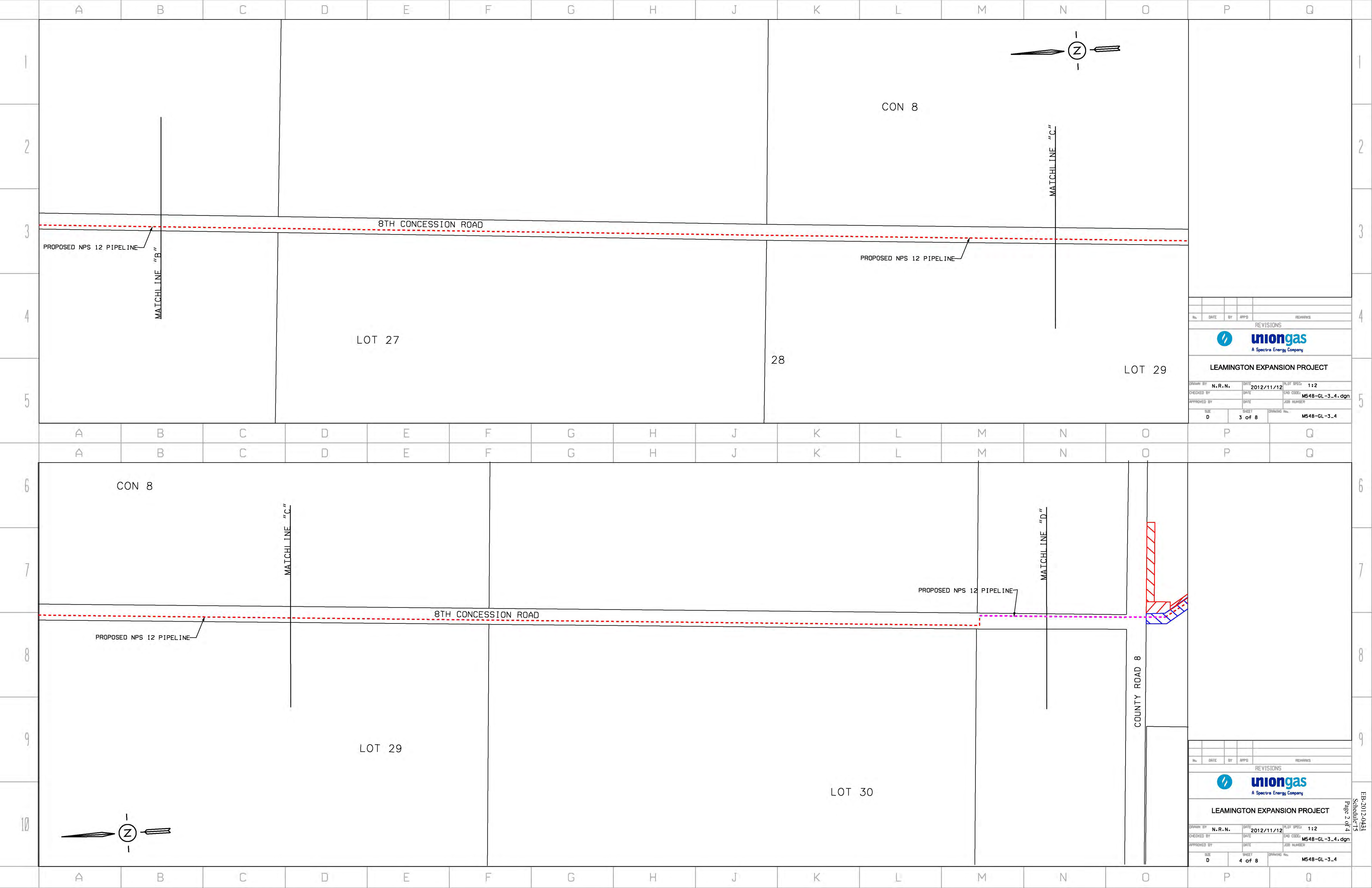
Total Estimated Environmental Costs \$ **246,500**





No.	DATE	BY	APP'D	REMARKS	
REVISIONS					
 uniongas A Spectra Energy Company					
LEAMINGTON EXPANSION PROJECT					
DRAWN BY	N.R.N.	DATE	2012/11/12	PLT SPEC	1:2
CHECKED BY		DATE		DWG CODE	M548-GL-1.2.dgn
APPROVED BY		DATE		JOB NUMBER	
SIZE	D	SHEET	3 of 16	DRAWING No.	M548-GL-1.2

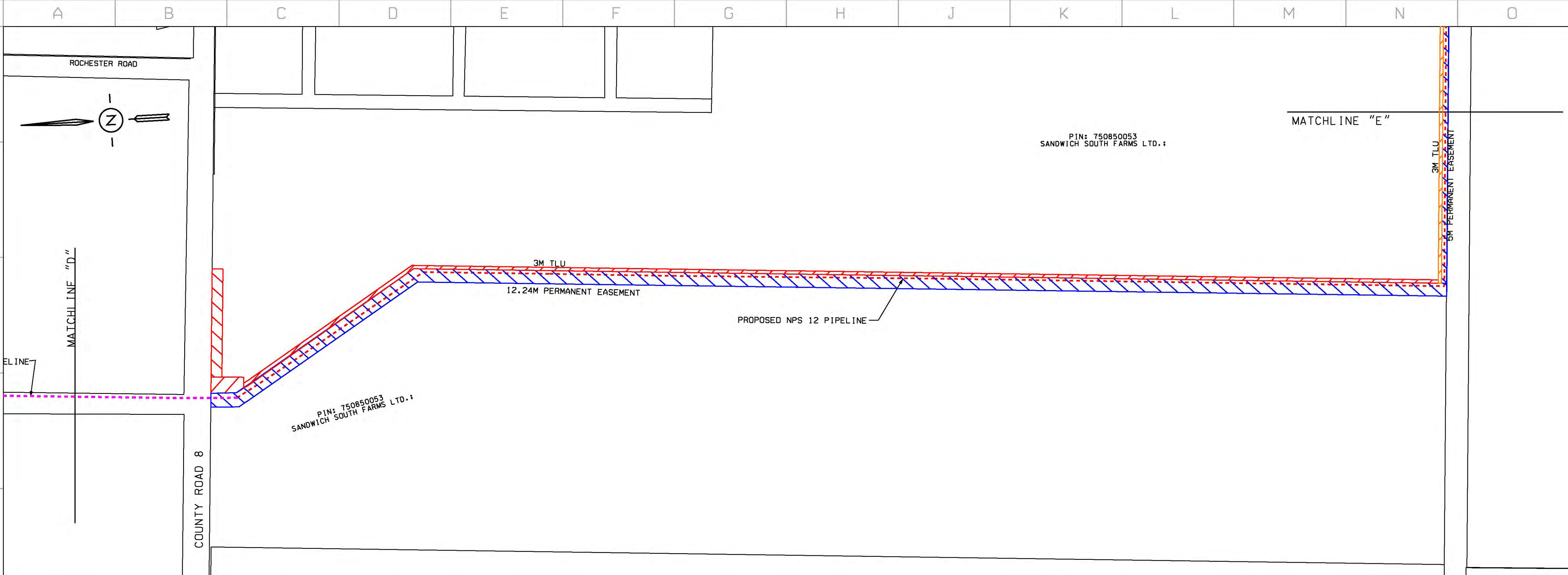



No.	DATE	BY	APPD	REMARKS	
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 uniongas A Spectra Energy Company					
LEAMINGTON EXPANSION PROJECT					
Page 1 of 4					
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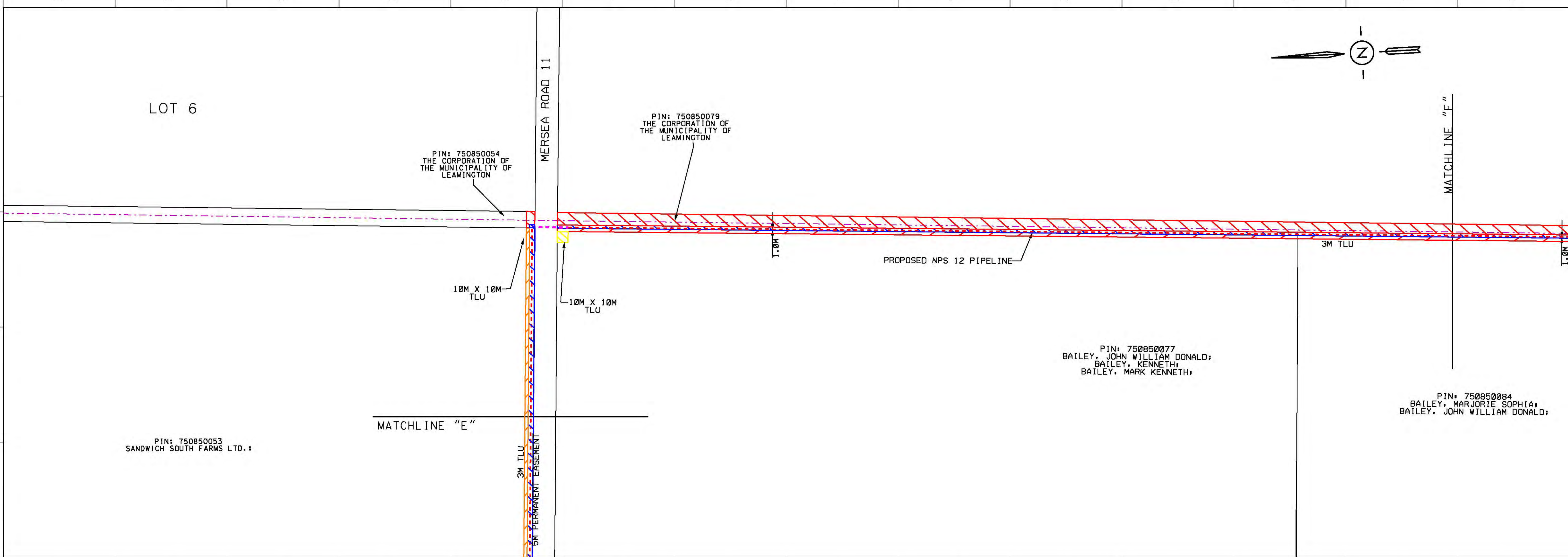



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 uniongas A Spectra Energy Company					
LEAMINGTON EXPANSION PROJECT					
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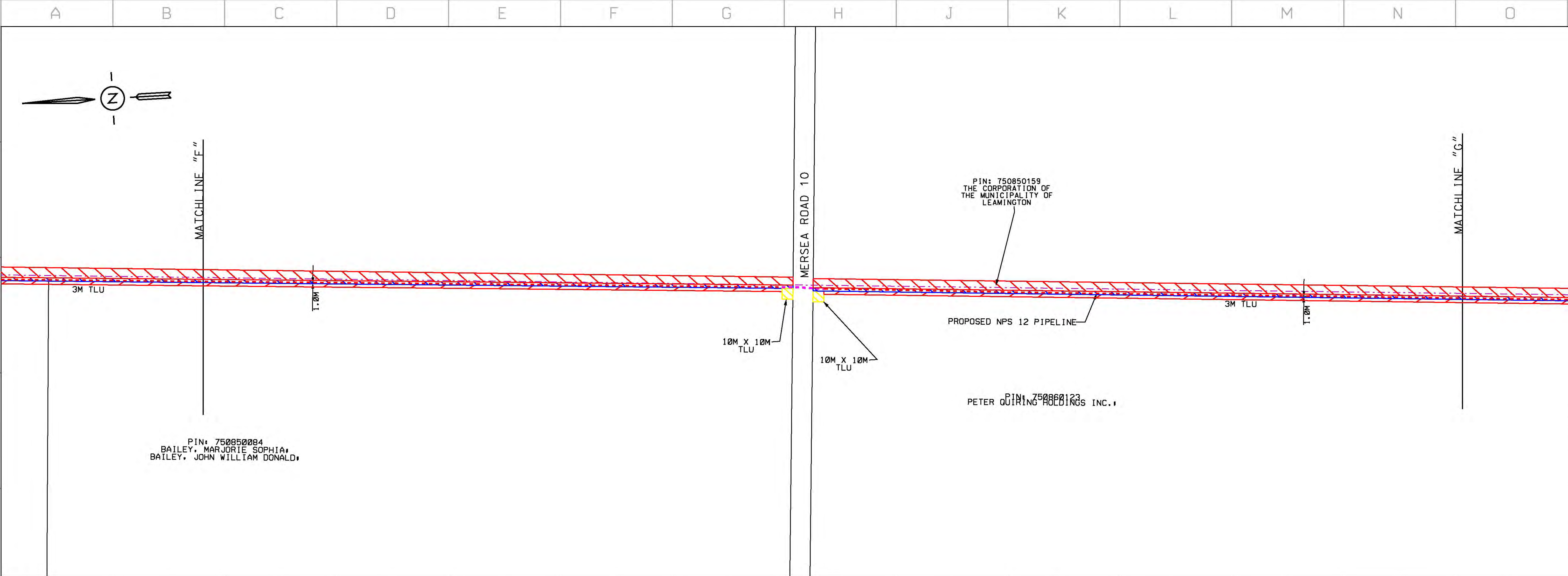
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LEAMINGTON EXPANSION PROJECT					
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APPROVED BY			DATE		JOB NUMBER
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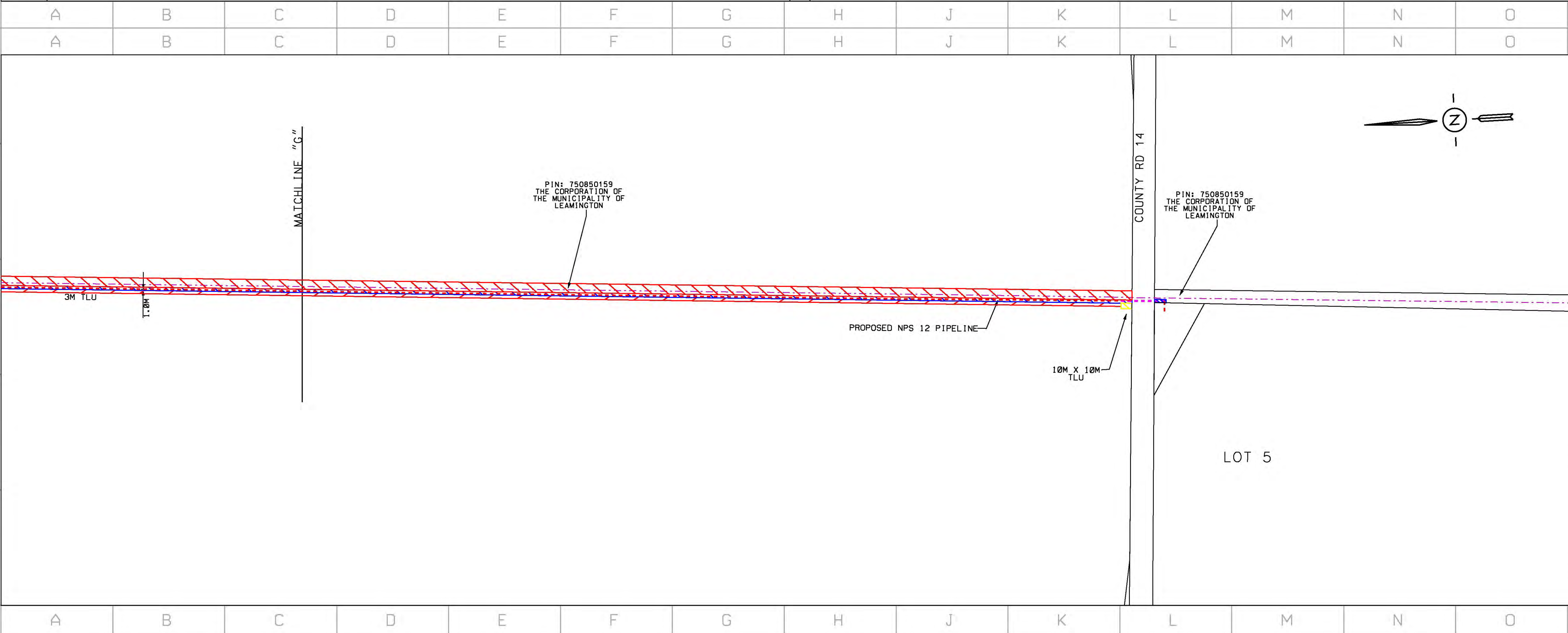
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SIZE	D	SHEET	5 of 8	DRAWING No.	M548-GL-5.6




No.	DATE	BY	APPD	REMARKS	
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		uniongas A Spectra Energy Company			
LEAMINGTON EXPANSION PROJECT					
Page 3 of 4					
DRAWN BY	N.R.N.	DATE	2012/11/12	PLAT SPEC	1:2
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APPROVED BY		DATE		JOB NUMBER	
SIZE	D	SHEET	6 of 8	DRAWING No.	M548-GL-5.6



No.	DATE	BY	APPD	REMARKS	
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LEAMINGTON EXPANSION PROJECT					
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APPROVED BY		DATE		JOB NUMBER	
SIZE D	SHEET 7 of 8		DRAWING No. M548-GL-7.8		



No.	DATE	BY	APPD	REMARKS	
REVISIONS					
 uniongas A Spectra Energy Company					
LEAMINGTON EXPANSION PROJECT					
DRAWN BY N.R.N.		DATE 2012/11/12		PLOT SPEC 1:2	
CHECKED BY		DATE		JOB CODE M548-GL-7.8.dgn	
APPROVED BY		DATE		JOB NUMBER	
SIZE D		SHEET 8 of 8		DRAWING No. M548-GL-7.8	

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File #	PIN	NAME & ADDRESS	PROPERTY DESCRIPTION	PERMANENT EASEMENT Dimensions (Metres) Area Length Width (Hectares)	TEMPORARY EASEMENT Dimensions (Metres) Area Length Width (Hectares)	MORTGAGE, LIEN/LEASE &/OR ENCUMBRANCES
1	75055-0057 LT		Pt n1/2 Lt 13, Con SMR (Rochester); Pt s1/2 Lt 13, Con SMR (Rochester); Pt n1/2 Lt 14, Con SMR (Rochester); Pt s1/2 Lt 14, Con SMR (Rochester); Pt Lt 15, Con SMR (Rochester); Pt n1/2 Lt 16, Con SMR (Rochester); Pt Lt 17, Con SMR (Rochester) Pt 1 to 6 12R603, Pt 8 to 15 12R603, Pt 2 to 6 12R645, Pt 7 12R603 Except s1/2 Lt 16 Con SMR; S/T R567049, R561727, R569792, R561705; S/T R425001, R014428; Subject to an easement in gross over Pt. 1 12R24869 as in CE539570; Town of Lakeshore		10.0m x 50.78m 0.05 ha 0.13 ac	(e) Hydro Electric Power Commission of Canada 185 Clegg Road Markham, ON L6G 1B7 #R014428; Notice #CE539566 (e) Union Gas Limited 50 Keil Drive North Chatham, ON N7M 5M1 #R425001 (e) Comber Wind Limited Partnership 480 de la Cite Boulevard Gatineau, Quebec J8T 8R3 #CE539570 (e) Comber Wind General Partnership 480 de la Cite Boulevard Gatineau, Quebec J8T 8R3 #CE539570
2	75055-0058 R		Pt Lt 15, Con SMR (Rochester); Pt N 1/2 Lt 16 Con SMR (Rochester); Pt S 1/2 Lt 16 Con SMR (Rochester); Pt Lt 17 Con SMR (Rochester) as in R1344070 S of 12R-603 T/W & S/T R 1344070 Lakeshore 3015 County Rd 46	12.24m x 1166.67m 1.43 ha 3.53 ac	3.0m x 118.29m 10.0m x 20.00m 10.0m x 23.0m 0.37 ha 0.94 ac	Notice of Charge of Lease - National Bank of Canada Suite 2700, 530-8th Ave. S. W. Calgary, Alberta T2J 3S8 #R1551023 (e) Comber Wind Limited Partnership by its General Partner Comber Wind General Partnership by its Partners, Brookfield BRP Canada Corp and 2184014 Ontario Limited 480 Boulevard de la Cité, Gatineau, Quebec J8T 8R3 #R1552019 (e) Union Gas Limited 50 Keil Drive North Chatham, ON N7M 5M1 R425001; R474152; R477677; R541388 R543094; R544512; R547298
23	75085-0053 LT		Lt 70-83, 89-102 PL 375; Pt Huron St. Elm St., Ash St., St. Clair St. PL 375 Mersea closed by R1248685 Pt Lt 5 Con 11 (Mersea) Pt 2, 12R-13648 S/T R412647; R801214 Learnington	12.24m x 1171.0m 5.0m x 332.4m 1.59 ha 3.95 ac	30.0m x 15.0 (irr) 3.0m x 1133.0m 3.0m x 322.4m 10.0m x 10.0m 0.48 ha 1.2 ac	(e) Union Gas Limited 50 Keil Drive North Chatham, ON N7M 5M1 #R412647; #R801214 Pembina Exploration Limited 707-8th Avenue S. W. Calgary, Alberta T2J 2M7 #R1086131; #R1289595

File #	PIN	NAME & ADDRESS	PROPERTY DESCRIPTION	PERMANENT EASEMENT Dimensions (Metres) Area Length Width (Hectares)	TEMPORARY EASEMENT Dimensions (Metres) Area Length Width (Hectares)	MORTGAGE, LIEN/LEASE &/OR ENCUMBRANCES
27	75085-0077 LT		Pt Lt 5 Con 10 (Mersea) as in R1345423 Leamington 508 Mersea Rd 11		3.0m x 684.29m 10.0m x 10.0m 0.22 ha 0.53 ac	(e) Union Gas Limited 50 Keil Drive North Chatham, ON N7M 5M1 #R412648
29	75085-0084 LT		Pt Lt 5 Con 10 (Mersea) as in R824857 S/T R411871 Leamington		3.0m x 686.05m 10.0m x 10.0m 0.22 ha 0.53 ac	(e) Union Gas Limited 50 Keil Drive North Chatham, ON N7M 5M1 #R411871
30	75086-0123 LT		Pt Lt 5 Con 9 (Mersea) as in R1536850 S/T Esmt over Pt 1, 12R24824 as in CE498722 Leamington 525 Essex Rd 14		10.0m x 10.0m 3.0m x 1364.47m 10.0m x 10.0m 0.44 ha 1.08 ac	(m) Farm Credit Canada 200-1133 St. George Blvd Moncton, NB E1E 4E1 #CE473516 Notice of Security Interest Farm Credit Canada 200-1133 St. George Blvd Moncton, NB E1E 4E1 #RCE473517 (e) Union Gas Limited 50 Keil Drive North Chatham, ON N7M 5M1 #RCE498722,
37	75085-0079 75085-0159 75085-0147		Pt Lt 5 Con 10 (Mersea) Pt N 1/2 Lt 6 Con 10 (Mersea) Pt S 1/2 Lt 6 Con 10 (Mersea) Prt 1, 12R-19206 Leamington Pt Lt 5 Con 8 (Mersea) Pt Lt 5 Con 9 (Mersea)	3.0m x 1370.32m 3.0m x 1365.36m 0.82 ha 2.02 ac	12.0m x 1370.32m 12.0m x 1365.36m 3.29 ha 8.12 ac	(e) The Canada Southern Railway Company 277 Front St. W. 8th floor Toronto, ON M5V 2X7 #R1530946 Notice of Charge of lease National Bank of Canada Suite 2700-530-8th Ave S. W. Calgary, Alberta T2 (358 #CE442382 (l) Dundee Oil and Gas Limited 28th Floor Dundee Place 1 Adelaide St E Toronto, ON M5C 2V9 #CE437190



For Internal Use Only
Lands File No.:
Cheque No.:
Project:
Acct No.:

PIPELINE EASEMENT

(the "Easement")

Between

(herein called the "Transferor")

and

UNION GAS LIMITED

(herein called the "Transferee")

This Easement is an easement in Gross

WHEREAS the Transferor is the owner in fee simple of those lands and premises more particularly described as:
PIN: Insert Legal (hereinafter called the "Transferor's Lands").

The Transferor does hereby GRANT, CONVEY, TRANSFER AND CONFIRM unto the Transferee, its successors and assigns, to be used and enjoyed as appurtenant to all or any part of the lands of the Transferee's lands the right, liberty, privilege and easement on, over, in, under and/or through a strip of the Transferor's Lands more particularly described as being PIN: Insert Legal Being Part of the PIN (hereinafter referred to as the "Lands") to survey, lay, construct, maintain, inspect, patrol, alter, remove, replace, reconstruct, repair, move, keep, use and/or operate one Pipe line for the transmission of pipeline quality natural gas as defined in The Ontario Energy Board Act S.O. 1998 (hereinafter referred to as the "Pipeline") including therewith all such buried attachments, equipment and appliances for cathodic protection which the Transferee may deem necessary or convenient thereto, together with the right of ingress and egress at any and all times over and upon the Lands for its servants, agents, employees, those engaged in its business, contractors and subcontractors on foot and/or with vehicles, supplies, machinery and equipment for all purposes necessary or incidental to the exercise and enjoyment of the rights, liberty, privileges and easement hereby granted. The Parties hereto mutually covenant and agree each with the other as follows:

1. In consideration of the sum of DOLLARS (\$) of lawful money of Canada (hereinafter called the "Consideration"), which sum is payment in full for the rights and interest hereby granted and for the rights and interest, if any, acquired by the Transferee by expropriation, including in either or both cases payment in full for all such matters as injurious affection to remaining lands and the effect, if any, of registration on title of this document and where applicable, of the expropriation documents, subject to Clause 12 hereof to be paid by the Transferee to the Transferor within 90 days from the date of these presents or prior to the exercise by the Transferee of any of its rights hereunder other than the right to survey (whichever may be the earlier date), the rights, privileges and easement hereby granted shall continue in perpetuity or until the Transferee, with the express written consent of the Transferor, shall execute and deliver a surrender thereof . Prior to such surrender Transferee shall remove all debris as may have resulted from the Transferee's use of the Lands from the Lands and in all respects restore the Lands to it's previous productivity and fertility so far as is reasonably possible , save and except for items in respect of which compensation is due under Clause 2. hereof. Transferor and Transferee hereby agree that nothing herein shall oblige Transferee to remove the Pipeline from the Lands as part of Transferee's obligation to restore the Lands.
2. The Transferee shall make to the Transferor (or the person or persons entitled thereto) due compensation for any damages to the Lands resulting from the exercise of any of the rights herein granted, and if the compensation is not agreed upon by the Transferee and the Transferor, it shall be determined by arbitration in the manner prescribed by the Expropriations Act, R.S.O. 1990, Chapter E-26 or any Act passed in amendment thereof or substitution therefore. Any gates, fences and tile drains curbs, gutters, asphalt paving, lockstone, patio tiles interfered with by the Transferee shall be restored by the Transferee at its expense as closely as reasonably possible to the condition and function in which they existed immediately prior to such interference by the Transferee and in the case of tile drains, such restoration shall be performed in accordance with good drainage practice and applicable government regulations.
3. The Pipeline (including attachments, equipment and appliances for cathodic protection but excluding valves, take-offs and fencing installed under Clause 9 hereof) shall be laid to such a depth that upon completion of installation it will not obstruct the natural surface run-off from the Lands nor ordinary cultivation of the Lands nor

any tile drainage system existing in the Lands at the time of installation of the Pipeline nor any planned tile drainage system to be laid in the Lands in accordance with standard drainage practice, if the Transferee is given at least thirty (30) days notice of such planned system prior to the installation of the pipeline; provided that the Transferee may leave the Pipeline exposed in crossing a ditch, stream, gorge or similar object where approval has been obtained from the Ontario Energy Board or other Provincial Board or authority having jurisdiction in the premises. The Transferee agrees to make reasonable efforts to accommodate the planning and installation of future tile drainage systems following installation of the pipeline so as not to obstruct or interfere with such tile installation.

4. As soon as reasonably possible after the construction of the Pipeline, the Transferee shall level the Lands and unless otherwise agreed to by the Transferor, shall remove all debris as may have resulted from the Transferee's use of the Lands therefrom and in all respects restore the Lands to its previous productivity and fertility so far as is reasonably possible, save and except for items in respect of which compensation is due under Clause 2 hereof.

5. The Transferee shall indemnify the Transferor for any and all liabilities, damages, costs, claims, suits and actions which are directly attributable to the exercise of the rights hereby granted, except to the extent of those resulting from the gross negligence or wilful misconduct of the Transferor.

6. In the event that the Transferee fails to comply with any of the requirements set out in Clause 2, 3, or 4 hereof within a reasonable time of the receipt of notice in writing from the Transferor setting forth the failure complained of, the Transferee shall compensate the Transferor (or the person or persons entitled thereto) for any damage, if any, necessarily resulting from such failure and the reasonable costs if any, incurred in the recovery of those damages.

7. Except in case of emergency, the Transferee shall not enter upon any of the Transferor's Lands, other than the Lands, without the consent of the Transferor. In case of emergency the right of entry upon the Transferor's Lands for ingress and egress to and from the Lands is hereby granted. The determination of what circumstances constitute an emergency, for purposes of this paragraph is within the absolute discretion of the Transferee, but is a situation in which the Transferee has a need to access the pipeline in the public interest without notice to the Transferor, subject to the provisions of paragraph 2 herein. The Transferee will, within 72 hours of entry upon such lands, advise the Transferor of the said emergency circumstances and thereafter provide a written report to Transferor with respect to the resolution of the emergency situation. The Transferee shall restore the lands of the Transferor at its expense as closely as reasonably practicable to the condition in which they existed immediately prior to such interference by the Transferee and in the case of tile drains, such restoration shall be performed in accordance with good drainage practice.

8. The Transferor shall have the right to fully use and enjoy the Lands except for planting trees over the lesser of the Lands or a six (6) metre strip centered over the Pipeline, and except as may be necessary for any of the purposes hereby granted to the Transferee, provided that without the prior written consent of the Transferee, the Transferor shall not excavate, drill, install, erect or permit to be excavated, drilled, installed or erected in, on, over or through the Lands any pit, well, foundation, pavement, building, mobile homes or other structure or installation. Notwithstanding the foregoing the Transferee upon request shall consent to the Transferor erecting or repairing fences, hedges, pavement, lockstone constructing or repairing tile drains and domestic sewer pipes, water pipes, and utility pipes and constructing or repairing lanes, roads, driveways, pathways, and walks across, on and in the Lands or any portion or portions thereof, provided that before commencing any of the work referred to in this sentence the Transferor shall (a) give the Transferee at least (30) clear days notice in writing describing the work desired so as to enable the Transferee to evaluate and comment on the work proposed and to have a representative inspect the site and/or be present at any time or times during the performance of the work, (b) shall follow the instructions of such representative as to the performance of such work without damage to the Pipeline, (c) shall exercise a high degree of care in carrying out any such work and, (d) shall perform any such work in such a manner as not to endanger or damage the Pipeline as may be required by the Transferee.

9. The rights, privileges and easement herein granted shall include the right to install, keep, use, operate, service, maintain, repair, remove and/or replace in, on and above the Lands any valves and/or take-offs subject to additional agreements and to fence in such valves and/or take-offs and to keep same fenced in, but for this right the Transferee shall pay to the Transferor (or the person or persons entitled thereto) such additional compensation as may be agreed upon and in default of agreement as may be settled by arbitration under the provisions of The Ontario Energy Board Act, S.O. 1998, or any Act passed in amendment thereof or substitution therefore. The Transferee shall keep down weeds on any lands removed from cultivation by reason of locating any valves and/or take-offs in the Lands.

10. Notwithstanding any rule of law or equity and even though the Pipeline and its appurtenances may become annexed or affixed to the realty, title thereto shall nevertheless remain in the Transferee.

11. Neither this Agreement nor anything herein contained nor anything done hereunder shall affect or prejudice the Transferee's rights to acquire the Lands or any other portion or portions of the Transferor's lands under the provisions of The Ontario Energy Board Act, S.O. 1998, or any other laws, which rights the Transferee may exercise at its discretion in the event of the Transferor being unable or unwilling for any reason to perform this Agreement or give to the Transferee a clear and unencumbered title to the easement herein granted.

12. The Transferor covenants that he has the right to convey this easement notwithstanding any act on his part, that he will execute such further assurances of this easement as may be requisite and which the Transferee may at its expense prepare and that the Transferee, performing and observing the covenants and conditions on its part

to be performed, shall have quiet possession and enjoyment of the rights, privileges and easement hereby granted. If it shall appear that at the date hereof the Transferor is not the sole owner of the Lands, this Indenture shall nevertheless bind the Transferor to the full extent of his interest therein and shall also extend to any after-acquired interest, but all moneys payable hereunder shall be paid to the Transferor only in the proportion that his interest in the Lands bears to the entire interest therein.

13. In the event that the Transferee fails to pay the consideration as hereinbefore provided, the Transferor shall have the right to declare this easement cancelled after the expiration of 15 days from personal service upon the Secretary, Assistant Secretary or Manager, Lands Department of the Transferee at its Executive Head Office in Chatham, Ontario, (or at such other point in Ontario as the Transferee may from time to time specify by notice in writing to the Transferor) of notice in writing of such default, unless during such 15 day period the Transferee shall pay the said consideration; upon failing to pay as aforesaid, the Transferee shall forthwith after the expiration of 15 days from the service of such notice execute and deliver to the Transferor at the expense of the Transferee, a valid and registerable release and discharge of this easement.

14. All payments under these presents may be made either in cash or by cheque of the Transferee and may be made to the Transferor (or person or persons entitled thereto) either personally or by mail. All notices and mail sent pursuant to these presents shall be addressed to the Transferor at _____ and to the Transferee at Union Gas Limited, P.O.Box 2001, 50 Keil Drive North, Chatham, Ontario N7M 5M1. Attention: Manager, Lands or to such other address in either case as the Transferor or the Transferee respectively may from time to time appoint in writing.

15 The rights, privileges and easement hereby granted are and shall be of the same force and effect as a covenant running with the land and this Indenture, including all the covenants and conditions herein contained, shall extend to, be binding upon and enure to the benefit of the heirs, executors, administrators, successors and assigns of the Parties hereto respectively; and, wherever the singular or masculine is used it shall, where necessary, be construed as if the plural, or feminine or neuter had been used, as the case may be.

16. The Transferor hereby acknowledges that this transfer will be registered electronically and the Transferor hereby authorizes the Transferee to complete the registration of this transfer.

DATED this day of January 2010

Name & Title:

I have authority to bind the corporation

Name & Title:

I have authority to bind the corporation

Address:

UNION GAS LIMITED

Name: Mervyn R. Weishar
Senior Lands Agent

I have authority to bind the Corporation

Additional Information: (if applicable)

Solicitor:

Telephone:

Municipality of Chatham-Kent

Province of Ontario

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

I, Mervyn R. Weishar, of the City of Municipality of Chatham-Kent , in the Province of Ontario.

DO SOLEMNLY DECLARE THAT

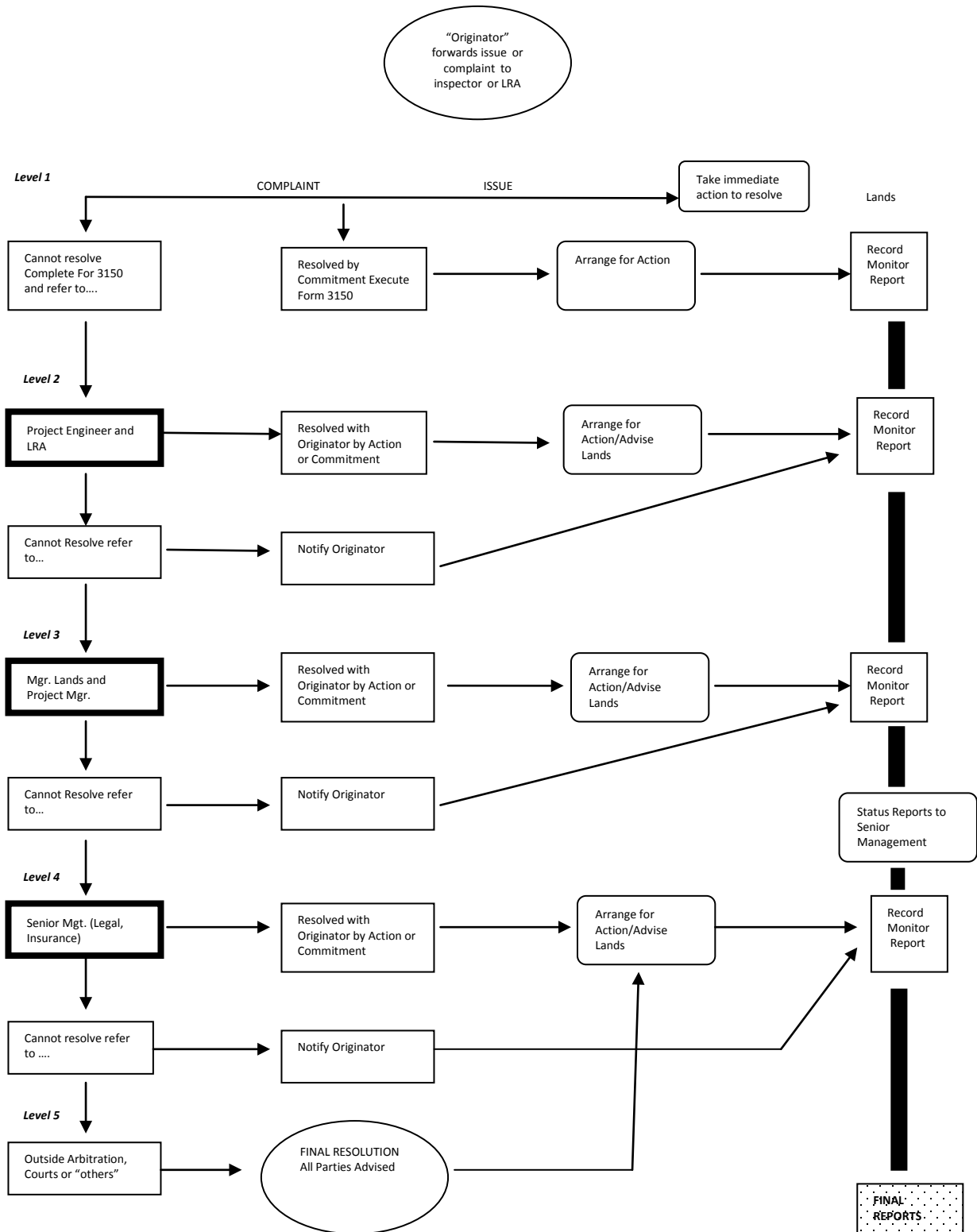
1. I am, Senior Lands Agent Lands Department of Union Gas Limited, the Transferee in the attached Grant of Easement and as such have knowledge of the matters herein deposed to.
2. The use of or right in the land described in the said Grant of Easement is being acquired by Union Gas Limited for the purpose of a hydrocarbon transmission line within the meaning of part VI of the Ontario Energy Board Act , 1998.

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

DECLARED before me at the
Municipality of Chatham-Kent,
in the Province of Ontario

this day of January ,2010

A Commissioner, etc.



1. "originator" of complaint or issue may be landowner or company representative
2. Parties indicated in heavy outlined boxes shall assume responsibility for actions subsequently required in the resolution process. Parties identified in brackets may only be required for resolution or specific technical concerns
3. "L.R.A." refers to Landowner Relations Agent

LANDOWNER COMPLAINT RESOLUTION SYSTEM EXPLANATION OF PROCESS CHART

Key Definitions

Originator – The originator of a complaint or issue is the landowner or Union Gas personnel who initiates a complaint or issue by making it known to the Landowner Relations Agent or a company inspector.

Landowner Relations Agent (LRA) – A person assigned on a full time or part time basis to record, monitor, and ensure follow-up on any complaint or issue received by Union related to construction, to address questions and concerns of the landowners, and to act as a liaison between landowners and the contractor and engineering personnel.

Issue – A concern of a landowner which can be resolved within three (3) working days. Immediate action is taken to resolve such matters.

Complaint – A concern of a landowner which cannot be resolved within three (3) working days.

Commitment – If an issue or complaint is resolved at any level of the Complaint Resolution system through the efforts and liaison activities of the Landowner Relations Agent or other personnel, the resolution is recorded to ensure proper future follow-up.

Outside Arbitration – includes the Board of Negotiation, O.M.B., and O.E.B.

Others – refers to other regulatory bodies and tribunals

Levels of the Complaint Resolution System

Level 1: The LRA or company inspector receives issues or complaints, and the following can happen:

- a) Immediate action could be arranged by the LRA or inspector to resolve the issue or complaint; or
- b) A complaint can be resolved by a commitment in which case the LRA is responsible for arranging for the committed action and having the commitment recorded in the Complaint Resolution system; or
- c) If a complaint cannot be resolved through the efforts of the LRA or inspector, the applicable form (Form 3150) is completed and then recorded, and the complaint is referred to **Level 2**.

Level 2: The LRA and the Construction Supervisor work together to develop a resolution for the complaint, and the following can happen:

- a) the complaint may be resolved with the originator by action or commitment and the action or commitment is recorded in the Complaint Resolution System; or
- b) if the complaint cannot be resolved, the originator is notified, the non-resolution is recorded, and the complaint is referred to **Level 3**.

Level 3: The Manager, Lands and the Project Manager work together to develop a resolution for the complaint, and the following can happen:

- a) complaint may be resolved with the originator by action or commitment and the action or commitment is recorded in the Complaint Resolution System; or
- b) if the complaint cannot be resolved, the originator is notified, the non-resolution is recorded, and the complaint is referred to **Level 4**;

When complaints reach this level, status reports are generated through the Complaint Resolution System and are forwarded to Senior Management.

Level 4: Senior Management (with possible input from the Legal and Risk and Claims Departments) attempts to develop a resolution to the complaint, and the following can happen:

- a) the complaint may be resolved with the originator by action or commitment and the action or commitment is recorded in the Complaint Resolution System; or
- b) if the complaint cannot be resolved, the originator is notified, the non-resolution is recorded, and the complaint is referred to **Level 5**;

Level 5: Involves the resolution of a complaint by outside arbitration or others, and the following will happen:

A final resolution will occur, all parties will be advised, and any action required will be arranged by the LRA or other Lands Department personnel.

Note: the Complaint Resolution System is used to generate final reports to the Ontario Energy Board

Patrick, Mary Jane

From: Bonin, John
Sent: June-20-12 8:04 AM
To: Chief Gregory Peters
Subject: Proposed Leamington North Loop Project
Attachments: Study Area Map Leamington.pdf, Moravian of the Thames.pdf

Chief Peters :

On April 9, 2012, you would have received the following information from Azimuth Environmental Consulting about the proposed project that Union Gas is undertaking in the Leamington area from County Rd 46 to Hwy 77 as the first phase of this project. All indications are that it will likely be installed in the existing abandoned railway line for most of the route. The proposed project is still being studied and an Environmental assessment is under way. Part of the information gathering process is to hold an open house for the nearby landowners. The open house will likely be held mid-summer in the Leamington area.

I wanted to let you in advance of any publication of the open house information and to see if you require any further information regarding the project?

Look forward to hearing back from you!

Miigwech!

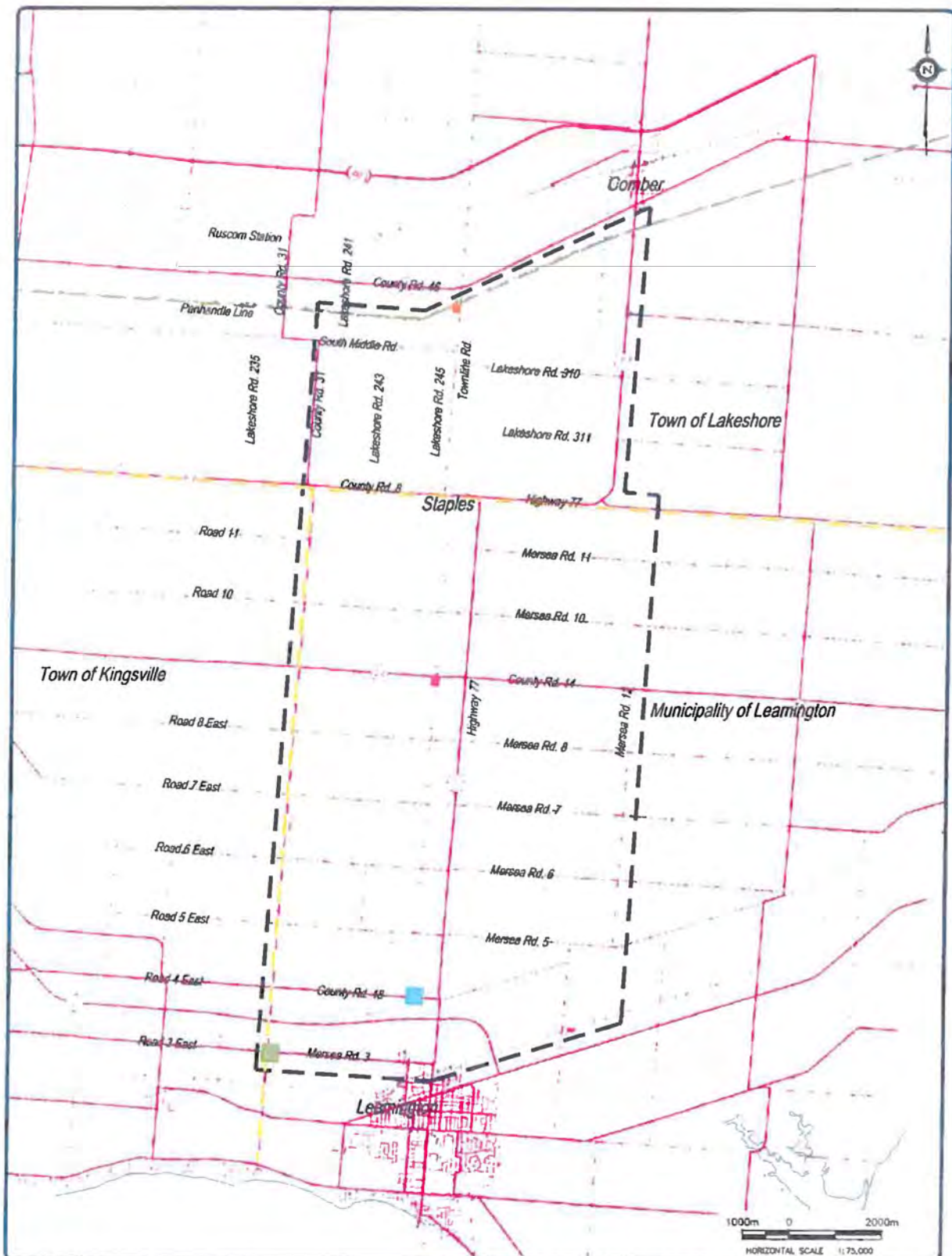
John Bonin

Manager Aboriginal Affairs

Union Gas

Phone: 519-539-8509 ext 5021063

Email: jbonin@uniongas.com



<ul style="list-style-type: none"> --- Proposed Study Area --- Panhandle Line --- Municipal Boundaries ■ Existing Comber Station ■ Existing County Road 14 Station & Midpoint ■ Proposed Station & Midpoint (Location to be determined) ■ Proposed Station & End Point (Location to be determined) 	<div> <div>AZARITH ENVIRONMENTAL CONSULTING INC.</div> <div>Study Area</div> <div>Leamington North Loop Pipeline Project</div> <div> <div>DATE: March 2012</div> <div>CREATED BY: JLM</div> <div>DATE: 12-08-12</div> <div>DATE: 12-08-12</div> </div> <div>1</div> </div>
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Environmental Assessments & Approvals

April 9, 2012

AEC 12-086

Moravian of the Thames
R.R. #3
Thamesville, ON N0P 2K0

Attention: Greg Peters

**RE: Environmental Report Commencement - Union Gas Limited
Leamington North Loop Pipeline Project**

Dear Chief Peters:

Azimuth Environmental Consulting, Inc. (Azimuth) has been retained by Union Gas Limited (Union) to prepare an Environmental Report (ER) for the proposed Leamington North Loop Pipeline Project. The project will potentially include the construction of a 12 or 16 inch natural gas pipeline from the existing Union Gas Panhandle Line south of County Road 46 between Ruscom and the Community of Comber to a proposed station near County Road 31 and Mersea Road 3, north of Leamington. The proposed project is needed to help Union Gas meet the increasing demand for natural gas in both the Leamington and Kingsville area.

The project is proposed to be built in two phases. The first phase would have the pipeline run from the Panhandle Line to the existing station at County Road 14 and the abandoned railway line west of Highway 77. The second phase would continue the pipeline from the station at County Road 14 to a new station near the intersection of County Road 31 and Mersea Road 3. There would be a mid-point station for the second phase at County Road 18 and the abandoned railway line. Phase one construction is proposed for 2013 while phase two construction is proposed for sometime in the future.

The study area is located in the County of Essex in the Municipalities of Leamington, Town of Lakeshore and the Town of Kingsville. Please see attached map Figure 1.



A Public Information Centre regarding the proposed project is planned to be held in the summer of 2012. A notice will be placed in local newspapers and First Nations, Métis Nation, interested agencies and directly affected landowners will be informed by mail. We are requesting any relevant environmental or socioeconomic information that in your opinion should be included in the assessment of alternative pipeline routes.

Your response would be appreciated by June 1st, 2012. If you have no concerns regarding the proposed project and/or its construction and you do not require any further correspondence regarding the project please indicate that in writing to the undersigned.

If you have any questions, please contact me at (705) 721-8451 or by email at paul@azimuthenvironmental.com. Thank you for your cooperation.

Yours truly,
AZIMUTH ENVIRONMENTAL CONSULTING, INC.

Paul Neals, B.Sc.Agr.
Vice-President
Attach.

Patrick, Mary Jane

From: Bonin, John
Sent: June-20-12 8:01 AM
To: Chief Richard "Joe" Miskokomon (chief@cottfn.ca)
Subject: Proposed Leamington North Loop Project
Attachments: Study Area Map Leamington.pdf; Chippewas of the Thames First Nation.pdf

Chief Miskokomon:

On April 9, 2012, you would have received the following information from Azimuth Environmental Consulting about the proposed project that Union Gas is undertaking in the Leamington area from County Rd 46 to Hwy 77 as the first phase of this project. All indications are that it will likely be installed in the existing abandoned railway line for most of the route. The proposed project is still being studied and an Environmental assessment is under way. Part of the information gathering process is to hold an open house for the nearby landowners. The open house will likely be held mid-summer in the Leamington area.

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Look forward to hearing back from you!

Miigwech!

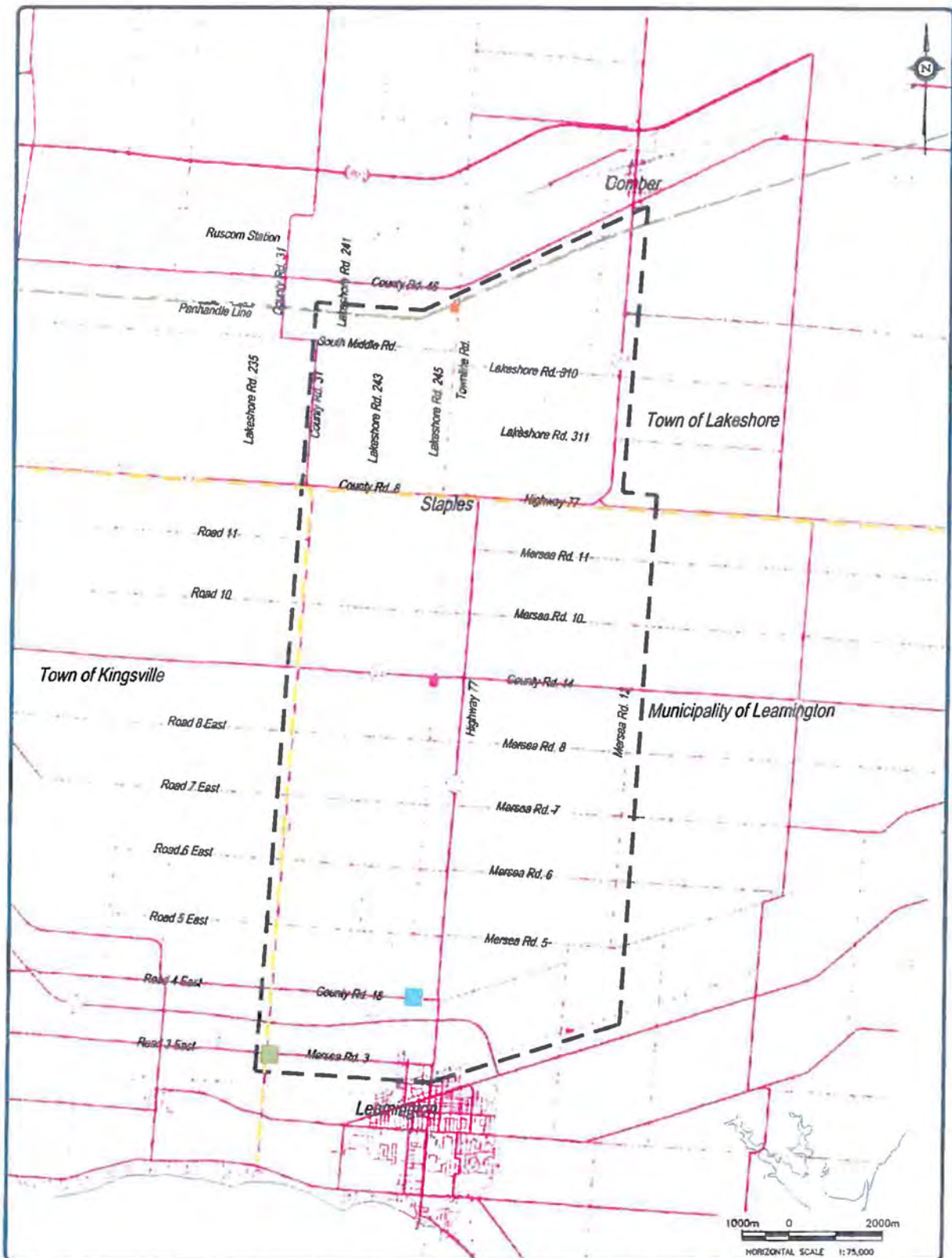
John Bonin

Manager Aboriginal Affairs

Union Gas

Phone: 519-539-8509 ext 5021063

Email: jbodin@uniongas.com



- - - Proposed Study Area
 --- Panhandle Line
 --- Municipal Boundaries
 ■ Existing Comber Station
 ■ Existing County Road 14 Station & Midpoint
 ■ Proposed Station & Midpoint (Location to be determined)
 ■ Proposed Station & End Point (Location to be determined)

M112 Project 12-005 Leamington North Loop Project 04.0 - Drafting 12-005.dwg
 Project 12-005 Leamington North Loop Project 04.0 - Drafting 12-005.dwg
 File: M112 Project 12-005 Leamington North Loop Project 04.0 - Drafting 12-005.dwg Layout: Figure 1 Plot: 205

AZIMUTH ENVIRONMENTAL CONSULTING INC.
 Study Area
 Leamington North Loop
 Pipeline Project
 Date: March 2012
 Created: JLM
 Rev: 12-005
 Reference: Geoplot Maps



Environmental Assessments & Approvals

April 9, 2012

AEC 12-086

Chippewas of the Thames First Nation
R.R.#1,320 Chippewa Road
Muncy, ON N0L 1Y0

Attention: Richard "Joc" Miskokomon

**RE: Environmental Report Commencement - Union Gas Limited
Leamington North Loop Pipeline Project**

Dear Chief Miskokomon:

Azimuth Environmental Consulting, Inc. (Azimuth) has been retained by Union Gas Limited (Union) to prepare an Environmental Report (ER) for the proposed Leamington North Loop Pipeline Project. The project will potentially include the construction of a 12 or 16 inch natural gas pipeline from the existing Union Gas Panhandle Line south of County Road 46 between Ruscom and the Community of Comber to a proposed station near County Road 31 and Mersea Road 3, north of Leamington. The proposed project is needed to help Union Gas meet the increasing demand for natural gas in both the Leamington and Kingsville area.

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If you have any questions, please contact me at (705) 721-8451 or by email at paul@azimuthenvironmental.com. Thank you for your cooperation.

Yours truly,
AZIMUTH ENVIRONMENTAL CONSULTING, INC.

Paul Neals, B.Sc.Agr.
Vice-President
Attach.

Patrick, Mary Jane

From: Bonin, John
Sent: June-20-12 8:00 AM
To: Liz.Cloud@kettlepoint.org
Subject: Proposed Leamington North Loop Project
Attachments: Study Area Map Leamington.pdf; Chippewas of Kettle and Stoney Point First Nation.pdf

Chief Cloud:

On April 9, 2012, you would have received the following information from Azimuth Environmental Consulting about the proposed project that Union Gas is undertaking in the Leamington area from County Rd 46 to Hwy 77 as the first phase of this project. All indications are that it will likely be installed in the existing abandoned railway line for most of the route. The proposed project is still being studied and an Environmental assessment is under way. Part of the information gathering process is to hold an open house for the nearby landowners. The open house will likely be held mid-summer in the Leamington area.

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Look forward to hearing back from you!

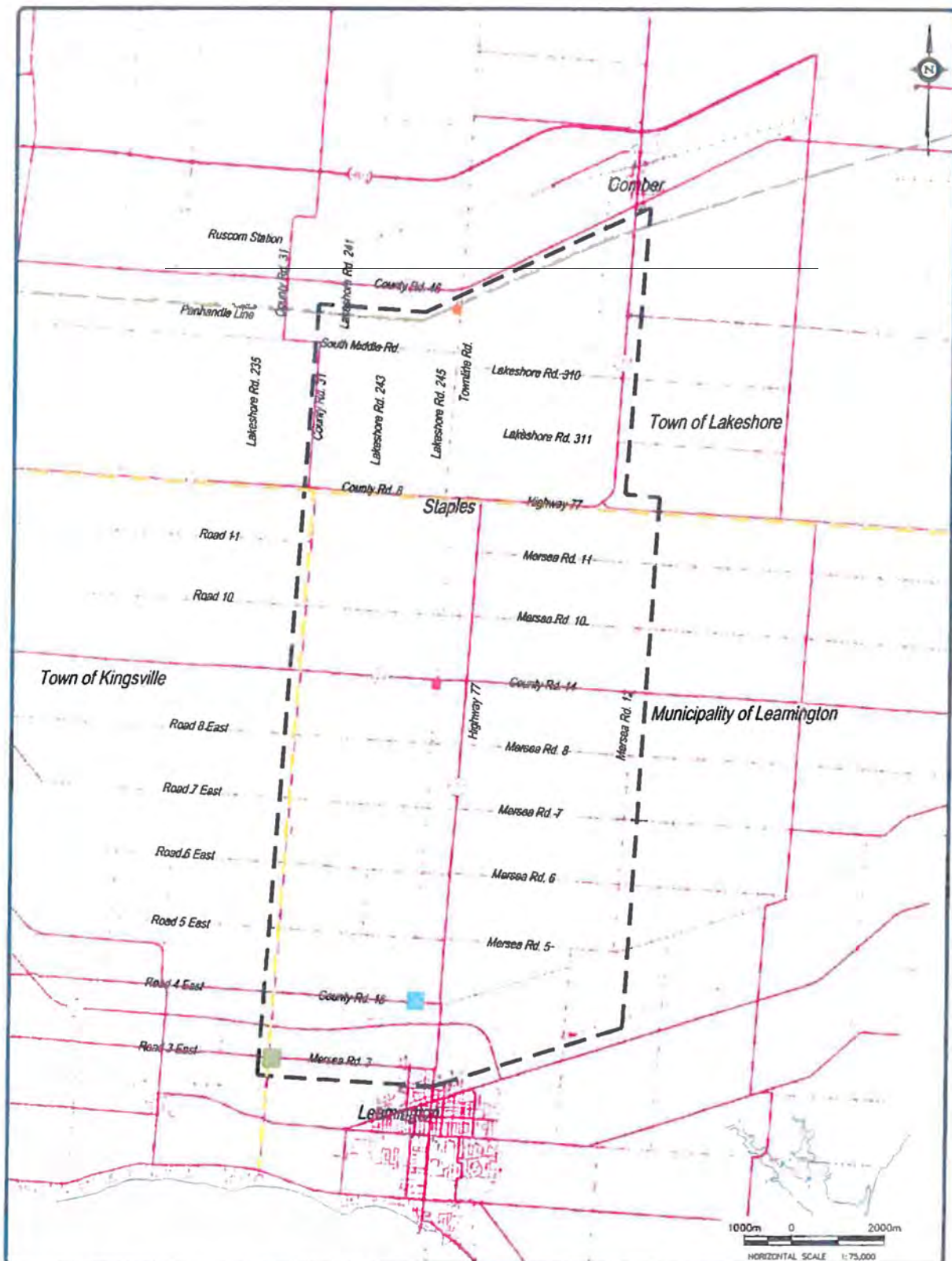
Miigwech!

John Bonin

Manager Aboriginal Affairs
Union Gas

Phone: 519-539-8509 ext 5021063

Email: jbonin@uniongas.com



<ul style="list-style-type: none"> Proposed Study Area Panhandle Line Municipal Boundaries Existing Comber Station Existing County Road 14 Station & Midpoint Proposed Station & Midpoint (Location to be determined) Proposed Station & End Point (Location to be determined) 	<div> <div>AZARITH ENVIRONMENTAL CONSULTING INC.</div> <div>Study Area</div> <div>Leamington North Loop Pipeline Project</div> <div> <div>March 2012</div> <div>CDP #120117</div> <div>12-005</div> <div>CDP #120117</div> </div> <div> <div>1</div> <div>Gazette Map</div> </div> </div>
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Environmental Assessments & Approvals

April 9, 2012

AEC 12-086

Chippewas of Kettle and Stoney Point First Nation
R.R. #2
Forrest, ON N0N 1J0

Attention: Liz Cloud

**RE: Environmental Report Commencement - Union Gas Limited
Leamington North Loop Pipeline Project**

Dear Chief Cloud:

Azimuth Environmental Consulting, Inc. (Azimuth) has been retained by Union Gas Limited (Union) to prepare an Environmental Report (ER) for the proposed Leamington North Loop Pipeline Project. The project will potentially include the construction of a 12 or 16 inch natural gas pipeline from the existing Union Gas Panhandle Line south of County Road 46 between Ruscom and the Community of Comber to a proposed station near County Road 31 and Mersea Road 3, north of Leamington. The proposed project is needed to help Union Gas meet the increasing demand for natural gas in both the Leamington and Kingsville area.

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Yours truly,

AZIMUTH ENVIRONMENTAL CONSULTING, INC.

Paul Neals, B.Sc.Agr.
Vice-President
Attach.

Patrick, Mary Jane

From: Bonin, John
Sent: June-20-12 7:56 AM
To: Chief Chris Plain
Subject: Proposed Leamington North Loop Project
Attachments: Study Area Map Leamington.pdf; Aamijwinaang First Nation.pdf

Chief Plain:

On April 9, 2012, you would have received the following information from Azimuth Environmental Consulting about the proposed project that Union Gas is undertaking in the Leamington area from County Rd 46 to Hwy 77 as the first phase of this project. All indications are that it will likely be installed in the existing abandoned railway line for most of the route. The proposed project is still being studied and an Environmental assessment is under way. Part of the information gathering process is to hold an open house for the nearby landowners. The open house will likely be held mid-summer in the Leamington area.

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Miigwech!

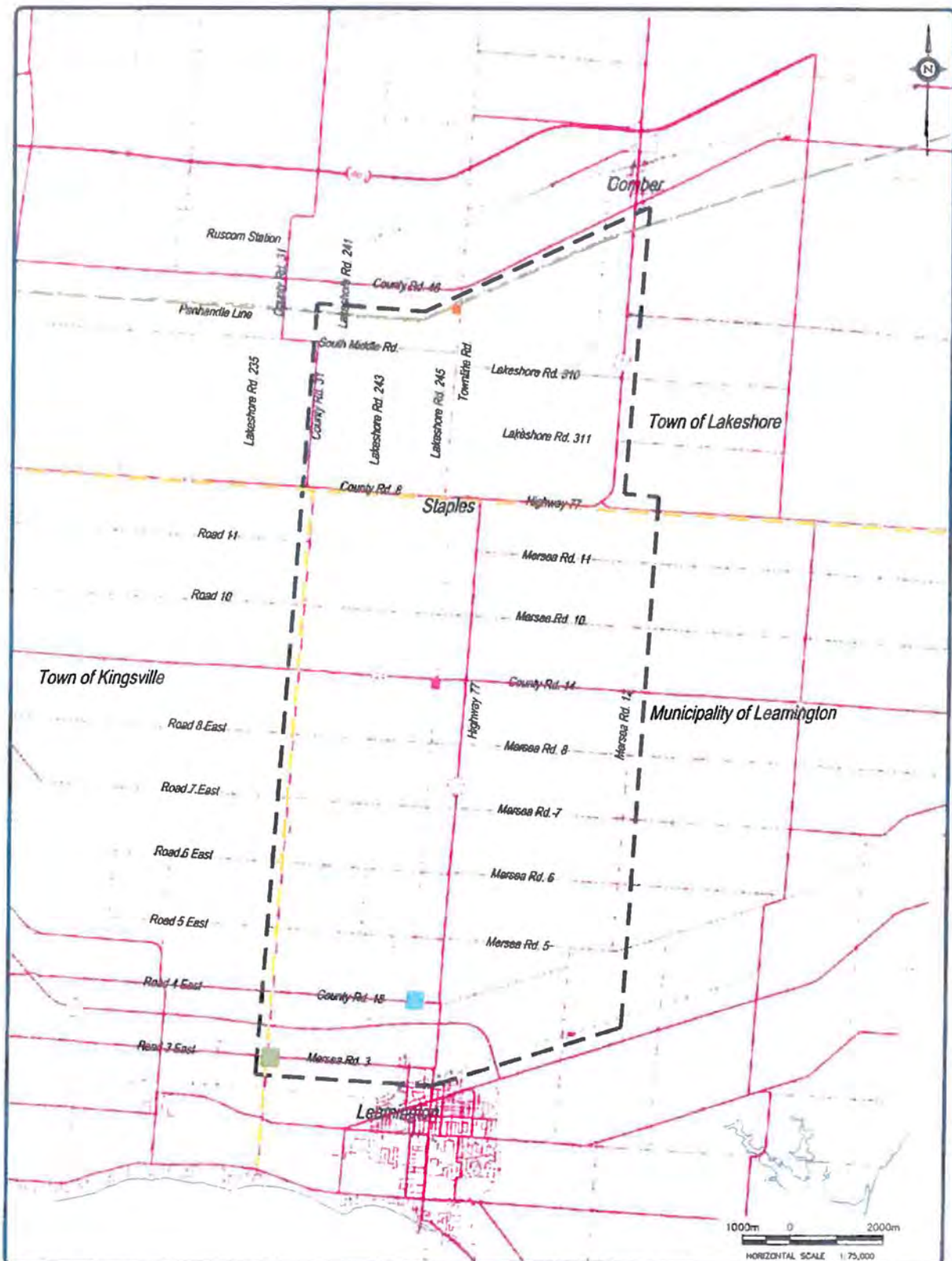
John Bonin

Manager Aboriginal Affairs

Union Gas

Phone: 519-539-8509 ext 5021063

Email: jbonin@uniongas.com



---	Proposed Study Area
---	Panhandle Line
---	Municipal Boundaries
●	Existing Comber Station
●	Existing County Road 14 Station & Midpoint
●	Proposed Station & Midpoint (Location to be determined)
●	Proposed Station & End Point (Location to be determined)

AZIMUTH ENVIRONMENTAL CONSULTING INC.	
Study Area	
Leamington North Loop Pipeline Project	
DATE ISSUED	March 2012
PREPARED BY	JLM
REVISION	12-085
REFERENCES	Consultant Maps



Environmental Assessments & Approvals

April 9, 2012

AEC 12-086

Aamjiwnaang First Nation
978 Tashmoo
Sarnia, ON N7T 7H5

Attention: Chris Plain

**RE: Environmental Report Commencement - Union Gas Limited
Leamington North Loop Pipeline Project**

Dear Chief Plain:

Azimuth Environmental Consulting, Inc. (Azimuth) has been retained by Union Gas Limited (Union) to prepare an Environmental Report (ER) for the proposed Leamington North Loop Pipeline Project. The project will potentially include the construction of a 12 or 16 inch natural gas pipeline from the existing Union Gas Panhandle Line south of County Road 46 between Ruscom and the Community of Comber to a proposed station near County Road 31 and Mersea Road 3, north of Leamington. The proposed project is needed to help Union Gas meet the increasing demand for natural gas in both the Leamington and Kingsville area.

The project is proposed to be built in two phases. The first phase would have the pipeline run from the Panhandle Line to the existing station at County Road 14 and the abandoned railway line west of Highway 77. The second phase would continue the pipeline from the station at County Road 14 to a new station near the intersection of County Road 31 and Mersea Road 3. There would be a mid-point station for the second phase at County Road 18 and the abandoned railway line. Phase one construction is proposed for 2013 while phase two construction is proposed for sometime in the future.

The study area is located in the County of Essex in the Municipalities of Leamington, Town of Lakeshore and the Town of Kingsville. Please see attached map Figure 1.



A Public Information Centre regarding the proposed project is planned to be held in the summer of 2012. A notice will be placed in local newspapers and First Nations, Métis Nation, interested agencies and directly affected landowners will be informed by mail. We are requesting any relevant environmental or socioeconomic information that in your opinion should be included in the assessment of alternative pipeline routes.

Your response would be appreciated by June 1st, 2012. If you have no concerns regarding the proposed project and/or its construction and you do not require any further correspondence regarding the project please indicate that in writing to the undersigned.

If you have any questions, please contact me at (705) 721-8451 or by email at paul@azimuthenvironmental.com. Thank you for your cooperation.

Yours truly,

AZIMUTH ENVIRONMENTAL CONSULTING, INC.

Paul Neals, B.Sc. Agr.
Vice-President
Attach.

Patrick, Mary Jane

From: Bonin, John
Sent: June-20-12 7:55 AM
To: Chief Burton Kewayosh (burton.kewayosh@wifn.org)
Subject: Proposed Leamington North Loop Project
Attachments: Study Area Map Leamington.pdf; Walpole First Nation.pdf

Chief Gilbert:

On April 9, 2012, you would have received the following information from Azimuth Environmental Consulting about the proposed project that Union Gas is undertaking in the Leamington area from County Rd 46 to Hwy 77 as the first phase of this project. All indications are that it will likely be installed in the existing abandoned railway line for most of the route. The proposed project is still being studied and an Environmental assessment is under way. Part of the information gathering process is to hold an open house for the nearby landowners. The open house will likely be held mid-summer in the Leamington area.

I wanted to let you in advance of any publication of the open house information and to see if you require any further information regarding the project?

Look forward to hearing back from you!

Miigwech!

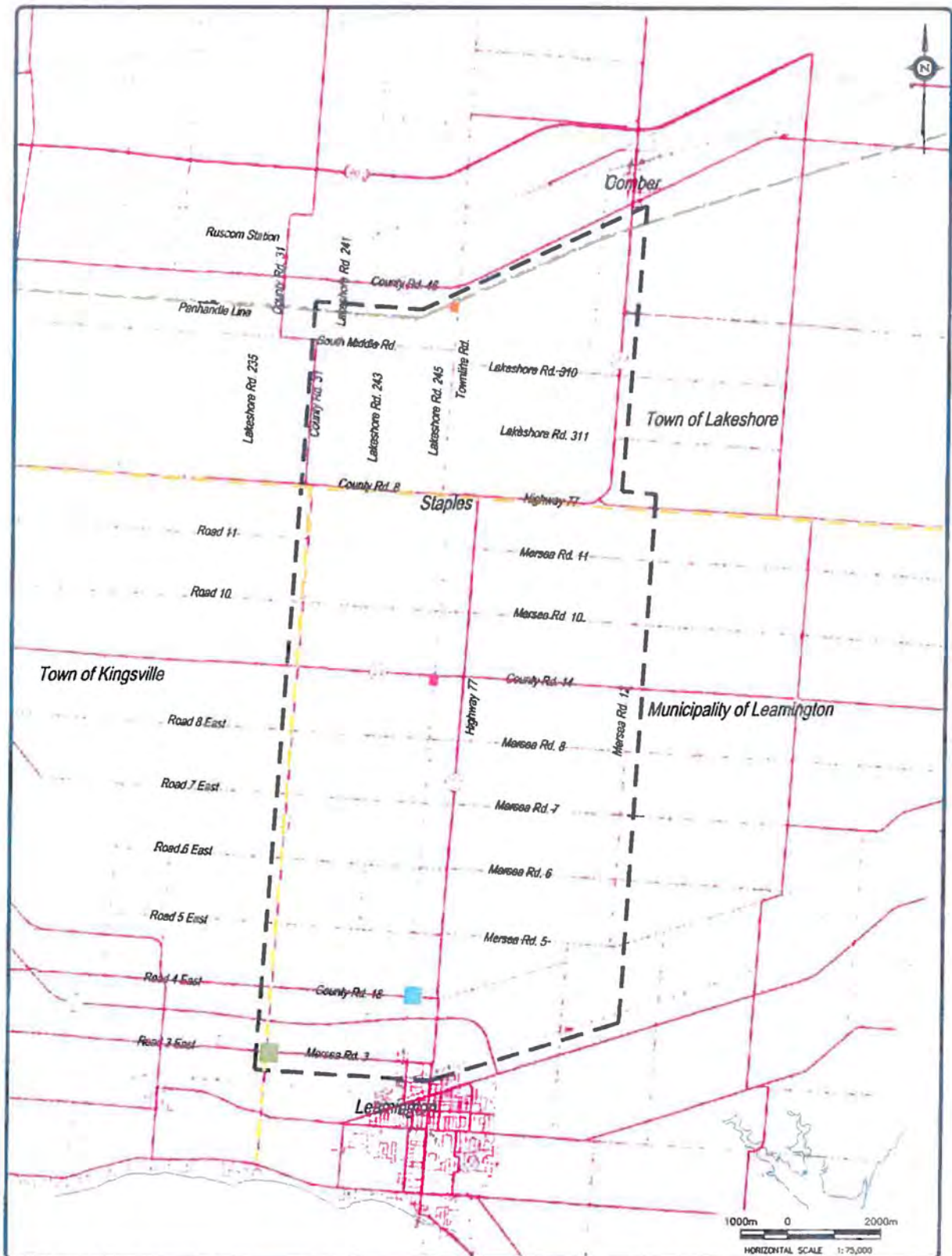
John Bonin

Manager Aboriginal Affairs

Union Gas

Phone: 519-539-8509 ext 5021063

Email: jbonin@uniongas.com



— —	Proposed Study Area
...	Panhandle Line
---	Municipal Boundaries
●	Existing Comber Station
●	Existing County Road 14 Station & Midpoint
■	Proposed Station & Midpoint (Location to be determined)
■	Proposed Station & End Point (Location to be determined)

AZIMUTH ENVIRONMENTAL CONSULTING INC.	
Study Area	
Leamington North Loop Pipeline Project	
DATE: March 2012	1
CREATED BY: JLM	
PROJECT NO: 12-005	
SCALE: Cassini Map	



Environmental Assessments & Approvals

April 9, 2012

AEC 12-086

Walpole First Nation
R.R. #3
Wallacburg, ON N8A 4K9

Attention: Joseph Gilbert

**RE: Environmental Report Commencement - Union Gas Limited
Leamington North Loop Pipeline Project**

Dear Chief Gilbert:

Azimuth Environmental Consulting, Inc. (Azimuth) has been retained by Union Gas Limited (Union) to prepare an Environmental Report (ER) for the proposed Leamington North Loop Pipeline Project. The project will potentially include the construction of a 12 or 16 inch natural gas pipeline from the existing Union Gas Panhandle Line south of County Road 46 between Ruscom and the Community of Comber to a proposed station near County Road 31 and Mersea Road 3, north of Leamington. The proposed project is needed to help Union Gas meet the increasing demand for natural gas in both the Leamington and Kingsville area.

The project is proposed to be built in two phases. The first phase would have the pipeline run from the Panhandle Line to the existing station at County Road 14 and the abandoned railway line west of Highway 77. The second phase would continue the pipeline from the station at County Road 14 to a new station near the intersection of County Road 31 and Mersea Road 3. There would be a mid-point station for the second phase at County Road 18 and the abandoned railway line. Phase one construction is proposed for 2013 while phase two construction is proposed for sometime in the future.

The study area is located in the County of Essex in the Municipalities of Leamington, Town of Lakeshore and the Town of Kingsville. Please see attached map Figure 1.



A Public Information Centre regarding the proposed project is planned to be held in the summer of 2012. A notice will be placed in local newspapers and First Nations, Métis Nation, interested agencies and directly affected landowners will be informed by mail. We are requesting any relevant environmental or socioeconomic information that in your opinion should be included in the assessment of alternative pipeline routes.

Your response would be appreciated by June 1st, 2012. If you have no concerns regarding the proposed project and/or its construction and you do not require any further correspondence regarding the project please indicate that in writing to the undersigned.

If you have any questions, please contact me at (705) 721-8451 or by email at paul@azimuthenvironmental.com. Thank you for your cooperation.

Yours truly,
AZIMUTH ENVIRONMENTAL CONSULTING, INC.

Paul Neals, B.Sc.Agr.
Vice-President
Attach.

Patrick, Mary Jane

From: Bonin, John
Sent: June-20-12 7:52 AM
To: Chief Louise Hillier
Subject: Proposed Leamington North Loop Project
Attachments: Caldwell First Nation.pdf; Study Area Map Leamington.pdf

Chief Hillier:

On April 9, 2012, you would have received the following information from Azimuth Environmental Consulting about the proposed project that Union Gas is undertaking in the Leamington area from County Rd 46 to Hwy 77 as the first phase of this project. All indications are that it will likely be installed in the existing abandoned railway line for most of the route. The proposed project is still being studied and an Environmental assessment is under way. Part of the information gathering process is to hold an open house for the nearby landowners. The open house will likely be held mid-summer in the Leamington area.

I wanted to let you in advance of any publication of the open house information and to see if you require any further information regarding the project?

Look forward to hearing back from you!

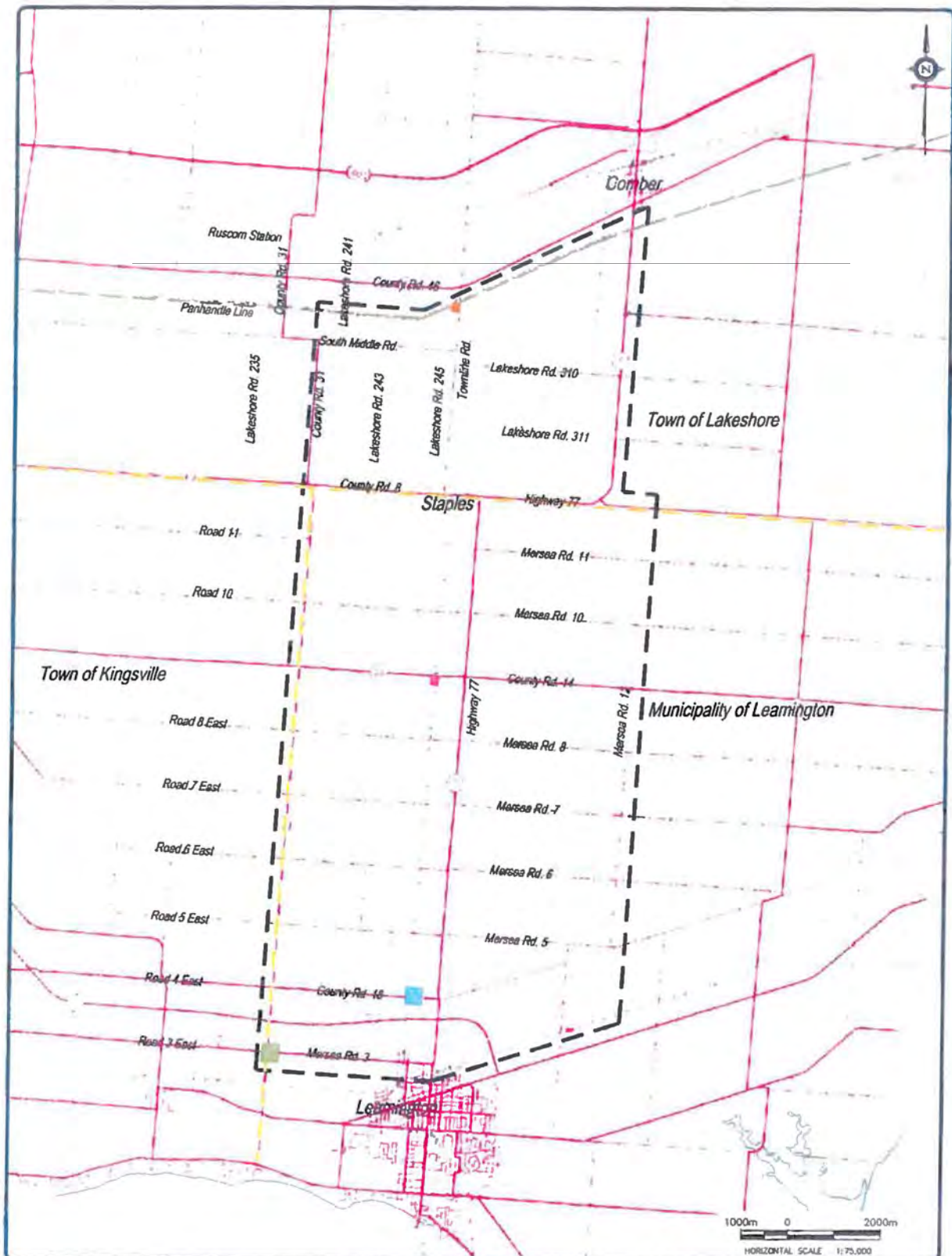
Miigwech!

John Bonin

Manager Aboriginal Affairs
Union Gas

Phone: 519-539-8509 ext 5021063

Email: jbodin@uniongas.com



--- Proposed Study Area
... Panhandle Line
--- Municipal Boundaries
● Existing Comber Station
● Existing County Road 14 Station & Midpoint
● Proposed Station & Midpoint (Location to be determined)
● Proposed Station & End Point (Location to be determined)

AZURITH ENVIRONMENTAL CONSULTING INC.	
Study Area	
Leamington North Loop Pipeline Project	
DATE: 2012	March 2012
CREATED BY:	JUM
PROJECT NO:	12-005
REVISIONS:	Consultant Maps



Environmental Assessments & Approvals

April 9, 2012

AEC 12-086

Caldwell First Nation
P.O. Box 388
Leamington, ON N8H 3W3

Attention: Louise Hillier

**RE: Environmental Report Commencement - Union Gas Limited
Leamington North Loop Pipeline Project**

Dear Chief Hillier:

Azimuth Environmental Consulting, Inc. (Azimuth) has been retained by Union Gas Limited (Union) to prepare an Environmental Report (ER) for the proposed Leamington North Loop Pipeline Project. The project will potentially include the construction of a 12 or 16 inch natural gas pipeline from the existing Union Gas Panhandle Line south of County Road 46 between Ruscom and the Community of Comber to a proposed station near County Road 31 and Mersea Road 3, north of Leamington. The proposed project is needed to help Union Gas meet the increasing demand for natural gas in both the Leamington and Kingsville area.

The project is proposed to be built in two phases. The first phase would have the pipeline run from the Panhandle Line to the existing station at County Road 14 and the abandoned railway line west of Highway 77. The second phase would continue the pipeline from the station at County Road 14 to a new station near the intersection of County Road 31 and Mersea Road 3. There would be a mid-point station for the second phase at County Road 18 and the abandoned railway line. Phase one construction is proposed for 2013 while phase two construction is proposed for sometime in the future.

The study area is located in the County of Essex in the Municipalities of Leamington, Town of Lakeshore and the Town of Kingsville. Please see attached map Figure 1.



A Public Information Centre regarding the proposed project is planned to be held in the summer of 2012. A notice will be placed in local newspapers and First Nations, Métis Nation, interested agencies and directly affected landowners will be informed by mail. We are requesting any relevant environmental or socioeconomic information that in your opinion should be included in the assessment of alternative pipeline routes.

Your response would be appreciated by June 1st, 2012. If you have no concerns regarding the proposed project and/or its construction and you do not require any further correspondence regarding the project please indicate that in writing to the undersigned.

If you have any questions, please contact me at (705) 721-8451 or by email at paul@azimuthenvironmental.com. Thank you for your cooperation.

Yours truly,

AZIMUTH ENVIRONMENTAL CONSULTING, INC.

Paul Neals, B.Sc.Agr.
Vice-President
Attach.

Patrick, Mary Jane

From: Bonin, John
Sent: June-20-12 8:31 AM
To: hankr@metisnation.org
Subject: Proposed Leamington North Loop Project
Attachments: Study Area Map Leamington.pdf; Metis Consultation Unit.pdf

Hank:

On April 9, 2012, you would have received the following information from Azimuth Environmental Consulting about the proposed project that Union Gas is undertaking in the Leamington area from County Rd 46 to Hwy 77 as the first phase of this project. All indications are that it will likely be installed in the existing abandoned railway line for most of the route. The proposed project is still being studied and an Environmental assessment is under way. Part of the information gathering process is to hold an open house for the nearby landowners. The open house will likely be held mid-summer in the Leamington area.

I wanted to let you in advance of any publication of the open house information and to see if you require any further information regarding the project?

Look forward to hearing back from you!

Miigwech!

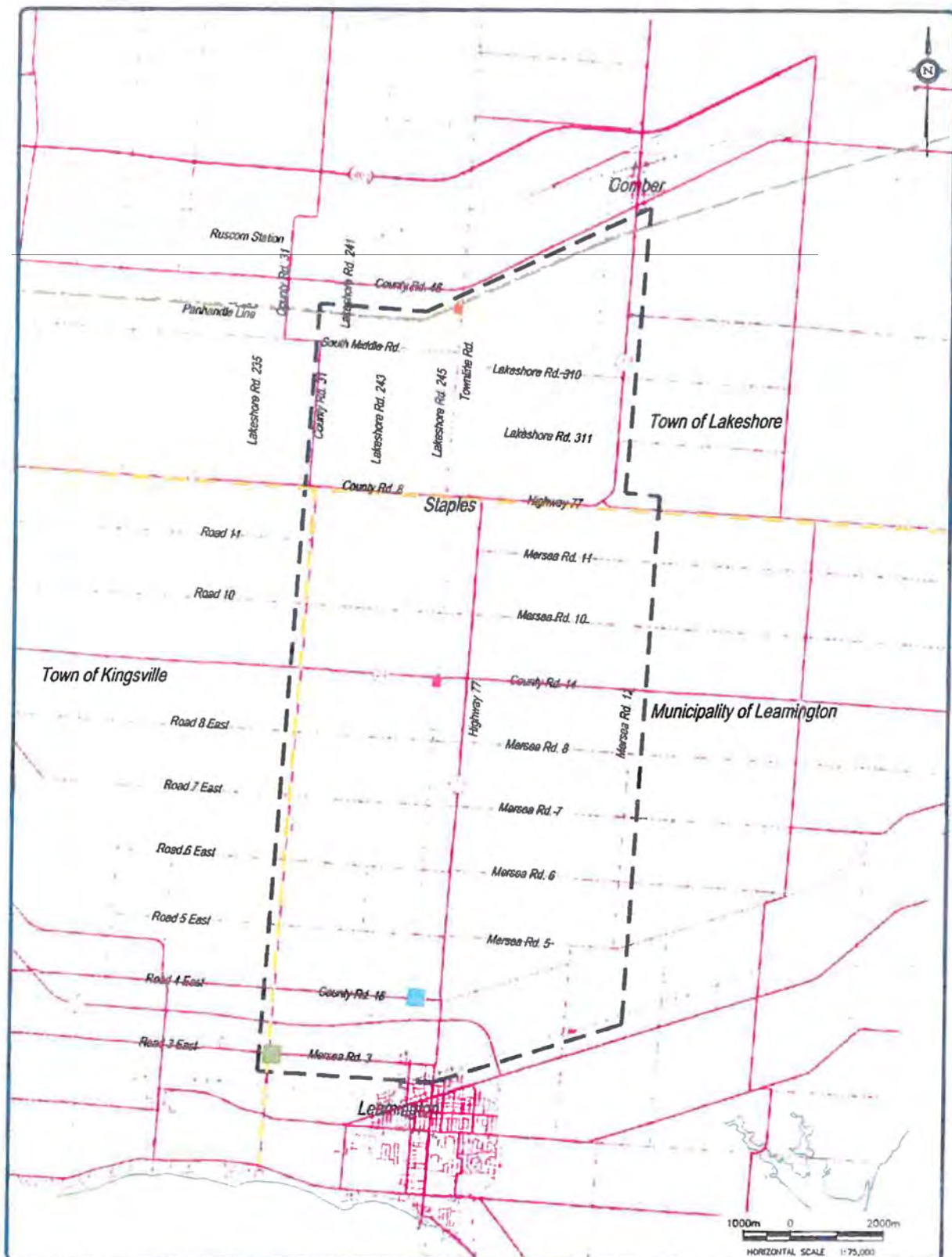
John Bonin

Manager Aboriginal Affairs

Union Gas

Phone: 519-539-8509 ext 5021063

Email: jbonin@uniongas.com



<p>--- Proposed Study Area</p> <p>... Panhandle Line</p> <p>--- Municipal Boundaries</p> <p>● Existing Comber Station</p> <p>● Existing County Road 14 Station & Midpoint</p> <p>● Proposed Station & Midpoint (Location to be determined)</p> <p>● Proposed Station & End Point (Location to be determined)</p>	<p>AZIMUTH ENVIRONMENTAL CONSULTING INC.</p> <p>Study Area</p> <p>Leamington North Loop Pipeline Project</p> <p>DATE: March 2012</p> <p>PREPARED BY: JLM</p> <p>REVISION: 12-000</p> <p>REFERENCE: Gazetteer Maps</p>
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Environmental Assessments & Approvals

April 9, 2012

AEC 12-086

Metis Consultation Unit,
Metis Nation of Ontario Head Office
500 Old St. Patrick Street, Unit D
Ottawa, ON K1N 9G4

Attention: Sir/Madame

**RE: Environmental Report Commencement - Union Gas Limited
 Leamington North Loop Pipeline Project**

Dear Sir/Madame :

Azimuth Environmental Consulting, Inc. (Azimuth) has been retained by Union Gas Limited (Union) to prepare an Environmental Report (ER) for the proposed Leamington North Loop Pipeline Project. The project will potentially include the construction of a 12 or 16 inch natural gas pipeline from the existing Union Gas Panhandle Line south of County Road 46 between Ruscom and the Community of Comber to a proposed station near County Road 31 and Mersea Road 3, north of Leamington. The proposed project is needed to help Union Gas meet the increasing demand for natural gas in both the Leamington and Kingsville area.

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The study area is located in the County of Essex in the Municipalities of Leamington, Town of Lakeshore and the Town of Kingsville. Please see attached map Figure 1.

A Public Information Centre regarding the proposed project is planned to be held in the summer of 2012. A notice will be placed in local newspapers and First Nations, Métis Nation, interested agencies and directly affected landowners will be informed by mail.



We are requesting any relevant environmental or socioeconomic information that in your opinion should be included in the assessment of alternative pipeline routes.

Your response would be appreciated by June 1st, 2012. If you have no concerns regarding the proposed project and/or its construction and you do not require any further correspondence regarding the project please indicate that in writing to the undersigned.

If you have any questions, please contact me at (705) 721-8451 or by email at paul@azimuthenvironmental.com. Thank you for your cooperation.

Yours truly,
AZIMUTH ENVIRONMENTAL CONSULTING, INC.

A handwritten signature in blue ink that reads "Paul Neals". The signature is fluid and cursive.

Paul Neals, B.Sc.Agr.
Vice-President
Attach.

Patrick, Mary Jane

From: Bonin, John
Sent: June-20-12 8:07 AM
To: Chief Joel Abram
Subject: Proposed Leamington North Loop Project
Attachments: Study Area Map Leamington.pdf; Oneida First Nation.pdf

Chief Abram:

On April 9, 2012, you would have received the following information from Azimuth Environmental Consulting about the proposed project that Union Gas is undertaking in the Leamington area from County Rd 46 to Hwy 77 as the first phase of this project. All indications are that it will likely be installed in the existing abandoned railway line for most of the route. The proposed project is still being studied and an Environmental assessment is under way. Part of the information gathering process is to hold an open house for the nearby landowners. The open house will likely be held mid-summer in the Leamington area.

I wanted to let you in advance of any publication of the open house information and to see if you require any further information regarding the project?

Look forward to hearing back from you!

Miigwech!

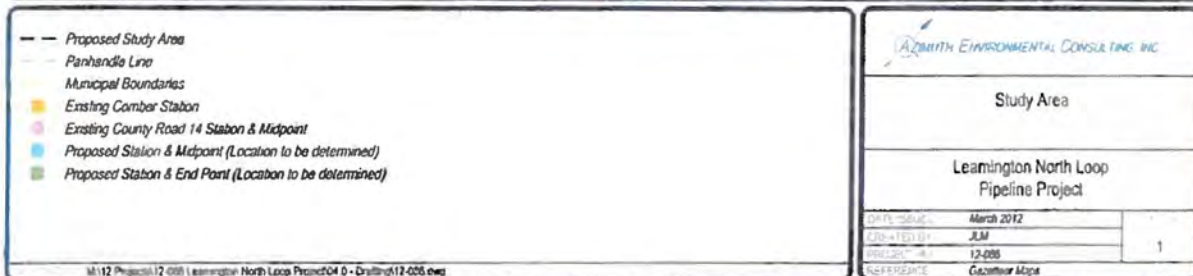
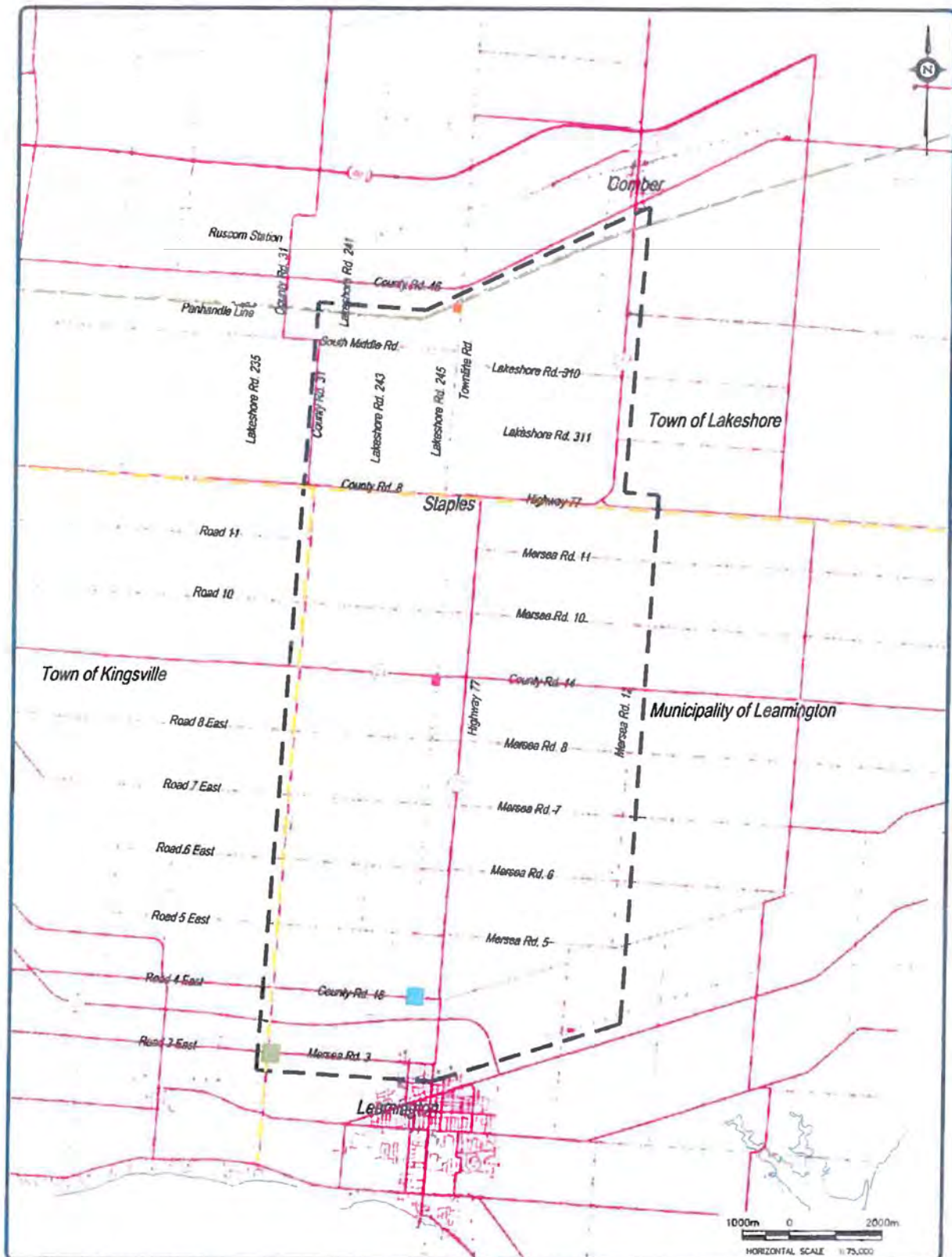
John Bonin

Manager Aboriginal Affairs

Union Gas

Phone: 519-539-8509 ext 5021063

Email: jbodin@uniongas.com





Environmental Assessments & Approvals

April 9, 2012

AEC 12-086

Oncida First Nations
2212 Elm Ave
Southwold, ON N0L 2G0

Attention: Joel Abram

**RE: Environmental Report Commencement - Union Gas Limited
Leamington North Loop Pipeline Project**

Dear Chief Abram:

Azimuth Environmental Consulting, Inc. (Azimuth) has been retained by Union Gas Limited (Union) to prepare an Environmental Report (ER) for the proposed Leamington North Loop Pipeline Project. The project will potentially include the construction of a 12 or 16 inch natural gas pipeline from the existing Union Gas Panhandle Line south of County Road 46 between Ruscom and the Community of Comber to a proposed station near County Road 31 and Mersea Road 3, north of Leamington. The proposed project is needed to help Union Gas meet the increasing demand for natural gas in both the Leamington and Kingsville area.

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The study area is located in the County of Essex in the Municipalities of Leamington, Town of Lakeshore and the Town of Kingsville. Please see attached map Figure 1.



A Public Information Centre regarding the proposed project is planned to be held in the summer of 2012. A notice will be placed in local newspapers and First Nations, Métis Nation, interested agencies and directly affected landowners will be informed by mail.

We are requesting any relevant environmental or socioeconomic information that in your opinion should be included in the assessment of alternative pipeline routes.

Your response would be appreciated by June 1st, 2012. If you have no concerns regarding the proposed project and/or its construction and you do not require any further correspondence regarding the project please indicate that in writing to the undersigned.

If you have any questions, please contact me at (705) 721-8451 or by email at paul@azimuthenvironmental.com. Thank you for your cooperation.

Yours truly,

AZIMUTH ENVIRONMENTAL CONSULTING, INC.

Paul Neals, B.Sc.Agr.
Vice-President
Attach.

Patrick, Mary Jane

From: Bonin, John
Sent: June-20-12 8:05 AM
To: Chief Waddilove
Subject: Proposed Leamington North Loop Project
Attachments: Study Area Map Leamington.pdf; Munsee-Delaware First Nation.pdf

Chief Waddilove :

On April 9, 2012, you would have received the following information from Azimuth Environmental Consulting about the proposed project that Union Gas is undertaking in the Leamington area from County Rd 46 to Hwy 77 as the first phase of this project. All indications are that it will likely be installed in the existing abandoned railway line for most of the route. The proposed project is still being studied and an Environmental assessment is under way. Part of the information gathering process is to hold an open house for the nearby landowners. The open house will likely be held mid-summer in the Leamington area.

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Miigwech!

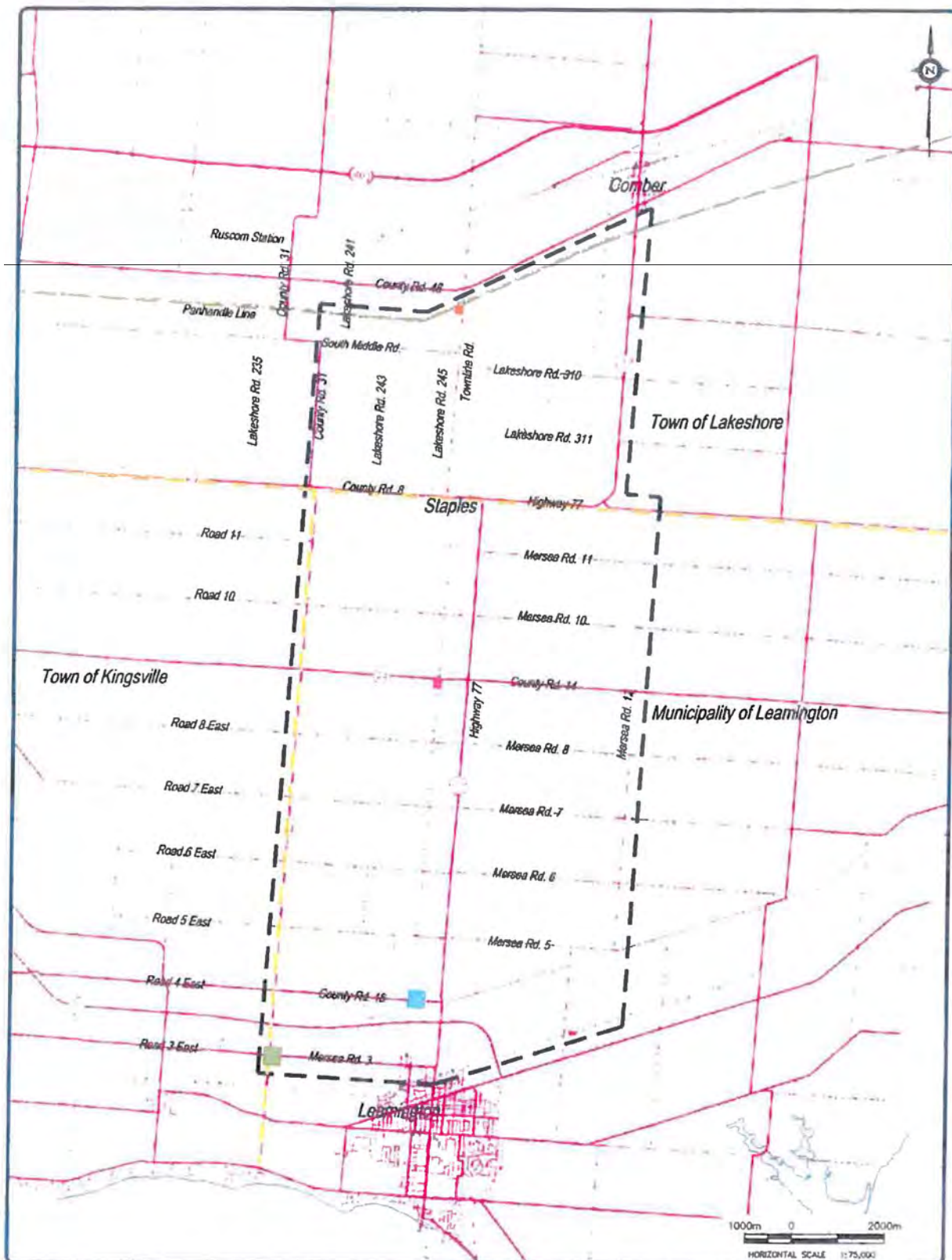
John Bonin

Manager Aboriginal Affairs

Union Gas

Phone: 519-539-8509 ext 5021063

Email: jbonin@uniongas.com



—	Proposed Study Area
...	Panhandle Line
---	Municipal Boundaries
●	Existing Comber Station
●	Existing County Road 14 Station & Midpoint
●	Proposed Station & Midpoint (Location to be determined)
●	Proposed Station & End Point (Location to be determined)

AZIMUTH ENVIRONMENTAL CONSULTING, INC.	
Study Area	
Leamington North Loop Pipeline Project	
DATE: 2012	March 2012
CREATED BY:	JLM
PROJECT #:	12-005
DATE: 2012	March 2012



Environmental Assessments & Approvals

April 9, 2012

AEC 12-086

Munsee-Delaware First Nation
RR#1
Muncy, ON N0L 1Y0

Attention: Patrick Waddilove

**RE: Environmental Report Commencement - Union Gas Limited
Leamington North Loop Pipeline Project**

Dear Chief Waddilove:

Azimuth Environmental Consulting, Inc. (Azimuth) has been retained by Union Gas Limited (Union) to prepare an Environmental Report (ER) for the proposed Leamington North Loop Pipeline Project. The project will potentially include the construction of a 12 or 16 inch natural gas pipeline from the existing Union Gas Panhandle Line south of County Road 46 between Ruscom and the Community of Comber to a proposed station near County Road 31 and Mersea Road 3, north of Leamington. The proposed project is needed to help Union Gas meet the increasing demand for natural gas in both the Leamington and Kingsville area.

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The study area is located in the County of Essex in the Municipalities of Leamington, Town of Lakeshore and the Town of Kingsville. Please see attached map Figure 1.



A Public Information Centre regarding the proposed project is planned to be held in the summer of 2012. A notice will be placed in local newspapers and First Nations, Métis Nation, interested agencies and directly affected landowners will be informed by mail.

We are requesting any relevant environmental or socioeconomic information that in your opinion should be included in the assessment of alternative pipeline routes.

Your response would be appreciated by June 1st, 2012. If you have no concerns regarding the proposed project and/or its construction and you do not require any further correspondence regarding the project please indicate that in writing to the undersigned.

If you have any questions, please contact me at (705) 721-8451 or by email at paul@azimuthenvironmental.com. Thank you for your cooperation.

Yours truly,

AZIMUTH ENVIRONMENTAL CONSULTING, INC.

Paul Neals, B.Sc.Agr.
Vice-President
Attach.



Environmental Assessments & Approvals

July 5, 2012

AEC 12-086

Town of Kingsville
2021 Division Road North
Kingsville, ON N9Y 2Y9

Attention: Dan DiGiovanni
Chief Administrative Officer

**RE: Preliminary Preferred Route - Union Gas Limited
Leamington Expansion Project**

Dear Mr. DiGiovanni:

Azimuth Environmental Consulting, Inc. (Azimuth) has been retained by Union Gas Limited (Union Gas) to prepare an Environmental Report (ER) for the proposed Leamington Expansion Project.

Earlier you received notice from Azimuth about a pipeline project from north of Staples to the edge of Leamington that was to be constructed in phases. Plans have changed regarding that project and Union Gas is now proposing the Leamington Expansion Project.

The project includes the construction of a 12 inch natural gas pipeline from the existing Union Gas Comber Station located on Rochester Townline Road just south of County Road 46 to an existing Union Gas station located along County Road 14. The proposed project is needed to help Union Gas meet the growing demand for natural gas in the Leamington and Kingsville area, which is being driven by growth in the greenhouse industry. Construction is proposed to begin in the spring of 2013.

A preliminary preferred route has been identified that would exit the existing Comber Station to the west and would parallel an existing Union Gas Pipeline until reaching the County Road 14 Station. Shortly after leaving the Comber Station the pipeline would turn south to align with Lakeshore Road 245. Upon reaching Lakeshore Road 245 it would follow the road allowance to County Road 8. After crossing County Road 8 it would turn southeast to access the abandon railway right-of-way which it would follow to the



existing station at County Road 14. The preliminary preferred route and alternative routes are shown on the attached figure.

We are requesting your agency provide any comments you may have on the preliminary preferred route to assist us in assessing the suitability of the route. Your agency's response would be appreciated by July 31, 2012. If your agency has no concerns regarding the preliminary preferred route, please indicate that in writing to the undersigned.

An Information Session will be held on July 24, 2012 at the Comber Legion located at 6420 Main Street in Comber from 6:00 – 8:00 p.m. The purpose of the Information Session is to present all aspects of the project to affected landowners, the public, First Nations, Métis and government agencies and provide the opportunity for comment on this proposal. Representatives from Azimuth and Union Gas will be present to answer questions.

If you have any questions, please contact me at (705) 721-8451 or by email at paul@azimuthenvironmental.com. Thank you for your cooperation.

Yours truly,

AZIMUTH ENVIRONMENTAL CONSULTING, INC.

Paul Neals, B.Sc.Agr.
Vice-President

Attach.



LEGEND

- Preliminary Preferred Route
- Alternative Route
- Proposed Study Area
- Panhandle Line
- Municipal Boundaries
- Existing Comber Station
- Existing County Road 14 Station

DAYSTAMP: M:\12 Projects\12-086 Leamington North Loop Project\04.0 - Drafting\12-086.dwg

Printed by: 2008/07/12 at 10:11 AM

File: M:\12 Projects\12-086 Leamington North Loop Project\04.0 - Drafting\12-086.dwg Layout: Figure 2 Plotcode: 1



Preliminary Preferred Route
and Alternative Routes

Leamington Expansion Project

DATE ISSUED: July 2012
CREATED BY: JLM
PROJECT NO.: 12-086
REFERENCE: First Base Solutions

Figure No.
1