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VIA Email, RESS and Courier

October 25, 2019

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

Dear Ms Walli:

**Re: Enbridge Gas Inc. (Enbridge Gas)
Ontario Energy Board (Board) File No.: EB-2015-0120
Sudbury Expansion Project (Project)**

On July 9, 2015 the Board issued its Decision and Order for the above noted proceeding which included, as Schedule B, several Conditions of Approval.

Per section 6. (b) in the aforementioned Decision and Order, Enbridge Gas is to provide the Board with a final monitoring report no later than fifteen months after the in-service date. Please find enclosed a copy of the Final Monitoring Report for this Expansion project.

Please contact me if you have any questions.

Yours truly,

(Original Signed)

Alison Evans
Advisor Rates
Regulatory Application

**SUDBURY EXPANSION PROJECT
FINAL MONITORING REPORT
EB-2015-0120**

Prepared by: Enbridge Gas Inc.
Environmental Planning
October 2019

TABLE OF CONTENTS
Sudbury Expansion Project
Final Monitoring Report

	<u>Page No.</u>
1.0 Introduction	1
2.0 Background	3
3.0 Potential Impacts and Mitigation	4
3.1 Condition 1.0)	4
3.2 Condition 3.0)	4
3.3 Condition 4.0)	5
3.4 Condition 6.0) a)	7
Condition 6.0) b).....	8
4.0 Summary	9

TABLE 1..... Potential Impacts and Mitigation Measures

APPENDIX A..... Location Map

APPENDIX B..... Conditions of Approval

APPENDIX C..... Letter to the OEB – Change Requests

APPENDIX D.....Executive Certification

1.0 INTRODUCTION

This Final Monitoring Report is provided pursuant to the Ontario Energy Board (“Board”) Decision and Order for the EB-2015-0120 proceeding. The Decision and Order granted Union Gas Limited (“Union”) leave to construct the Sudbury Expansion Project (the “Project”). The Project consists of the construction of approximately 1.55 kilometers of NPS 12 inch natural gas pipeline, 2 kilometers of NPS 10 inch natural gas pipeline and 2.3 kilometers of NPS 6 inch natural gas pipeline in the City of Greater Sudbury. On January 1, 2019 Enbridge Gas Distribution Inc. and Union Gas Limited amalgamated to form Enbridge Gas Inc. (“Enbridge Gas”).

The Project is required in order to meet a request from KGHM International to provide natural gas service to the new FNX Victoria Mine, to meet the growing demand for natural gas and to ensure the continued safe operation of the Sudbury pipeline system. Appendix A of this report sets out maps of the Project Area.

Due to an unanticipated delay by the City of Greater Sudbury to acquire the permits necessary to begin the reconstruction of Crean Hill Road, the construction schedule was divided into two phases. Phase 1 was separated into two sections consisting of Section 1 which included the construction of 1.55 kilometers of NPS 12 inch natural gas pipeline from Frood Road to a new station south of LaSalle Road. Section 2 included the construction of 2.0 kilometers of NPS 10 inch natural gas pipeline from a new station south of the Town of Azilda to a new station north of Azilda. Section 1 looped the Sudbury lateral system and Section 2 looped the existing NPS 6 natural gas pipeline.

Phase 2 consisted of the construction of approximately 2.3 kilometers of a new NPS 6 inch natural gas pipeline required to supply the FNX Victoria Mine. Phase 2 was installed over a two year period. Approximately 1400 metres of pipeline was installed in 2017 and approximately 900 meters was installed in 2018.

The OEB’s Decision and Order for the Project specified several conditions of approval (“COA”). The COAs can be found in Appendix B of this report. The specific COAs addressed in this report are as follows:

- 1.0 Union Gas Limited (“Union”) shall construct the facilities and restore the land in accordance with the OEB’s Decision and Order in EB-2015-0120 and these Conditions of Approval.*
- 3.0 Union shall implement all the recommendations of the Environmental Report filed in the proceeding and all the recommendations and directives identified by the Ontario Pipeline Coordinating Committee review.*
- 4.0 Union shall advise the OEB of any proposed change to OEB-approved construction or restoration procedures. Except in an emergency, Union shall not make such change without prior notice to and written approval of the OEB. In the event of an emergency, the OEB shall be informed immediately after the fact.*
- 6.0 Both during and after construction, Union shall monitor the impacts of construction, and shall file with the OEB one paper copy and one electronic (searchable PDF) version of each of the following reports:*

a) a post construction report, within three months of the in-service date, which shall:

- i. provide a certification, by a senior executive of the company, of Union’s adherence to Condition 1;*
- ii. described any impact or outstanding concerns identified during construction;*
- iii. describe the actions taken or planned to be taken to prevent or mitigate any identified impacts of the construction;*
- iv. include a log of all complaints received by Union, including the date/time the complaint was received, a description of the complaint, any actions taken to address the complaint, the rationale for taking such actions and;*
- v. provide a certification, by a senior executive of the company, that the company has obtained all other approvals, permits, licences and certificates required to construct, operate and maintain the proposed project.*

b) a final monitoring report, no later than fifteen months after the in-service date or where the deadline falls between December 1 and May 31, following June 1, which shall:

- i. *provide a certification, by a senior executive of the company, of Union's adherence to Condition 3;*
- ii. *describe the condition of any rehabilitated land;*
- iii. *describe the effectiveness of any actions taken to prevent or mitigate and identified impacts of construction.*
- iv. *include the results of any analyses and monitoring programs and any recommendations arising therefrom; and*
- v. *include a log of all complaints received by Union, including the date/time the complaint was received, a description of the complaint, any actions taken to address the complaint, the rational for taking such actions.*

2.0 BACKGROUND

Enbridge Gas was granted leave to construct the Sudbury Expansion Project on March 11, 2015. Phase 1 construction began with Section 1 (Frood Road) on July 27, 2015. Section 2 (Azilda) construction began on August 24, 2015. The pipelines were placed into service on December 15, 2015 and cleanup for the year completed on December 15, 2015.

For Section 1 (Phase 1) construction progressed from the Frood Town Border Station (TBS) in a westerly direction according to the following order of operations: topsoil removal, stringing, welding, joint coating, trenching, lowering-in, tie-ins, backfilling, testing and year end clean-up. There was no cleanup necessary in the spring of 2016.

Construction was initiated for Section 2 (Phase 1) on August 24, 2015 from the new station south of Azilda. Construction progressed in a westerly direction to the new station north of Azilda according to the following order of operations: topsoil removal, stringing, welding, joint coating, directional drilling, trenching, lowering-in, tie-ins, backfilling, testing and clean-up.

Enbridge Gas returned to the right-of-way of Section 2 in the spring of 2016 to complete the following activities: repair subsidence on the right-of-way, perform a general overview of the right-of-way and complete any additional clean-up that was required.

Work on Phase 2 was first initiated on July 24, 2017 with construction for the year completed on December 1, 2017. Construction was initiated from a new station at the south end of Crean Road and progressed north on the west side of the road to a new customer station located on the Victoria Mine property. Due to a delay with the City of Greater Sudbury obtaining permits for road construction, approximately 1400 metres of the pipeline was installed in 2017 with the remainder deferred until 2018. Construction on the remaining portion of the pipeline was initiated on May 28th, 2018 and completed on July 28th, 2018. Enbridge Gas returned to the right-of-way in spring 2019 to complete the following activities: repair any subsidence on the right-of-way, perform a general overview of the right-of-way and complete any additional clean-up that is required.

3.0 POTENTIAL IMPACTS AND MITIGATION

3.1 Condition 1.0

Union Gas Limited (“Union”) shall construct the facilities and restore the land in accordance with the Board’s Decision and Order in EB-2015-0041 and these Conditions of Approval.

Except for the changes indicated in Condition 4.0, Enbridge Gas has complied with all conditions imposed by the Board’s Decision and Order in EB-2015-0041 and these COAs during construction of the Project and has restored the land according to the evidence provided in support of its application.

3.2 Condition 3.0

Union shall implement all the recommendations of the Environmental Report filed in the proceeding, and all the recommendations and directives identified by the Ontario Pipeline Coordinating Committee review.

Enbridge Gas has implemented all recommendations and mitigation measures outlined in the Environmental Study Report (ER) along with all directives identified by the Ontario Pipeline Coordinating Committee (OPCC) review. Table 1 summarizes the construction

effects and general mitigation measures carried out during construction. All mitigation techniques used throughout construction were also implemented during cleanup activities as required.

3.3 Condition 4.0

Union shall advise the Board of any proposed change to Board-approved construction or restoration procedures. Except in an emergency, Union shall not make such change without prior notice to and written approval of the Board. In the event of an emergency, the Board shall be informed immediately after the fact.

Enbridge Gas advised the Board of six (6) “Change Requests” issued during the project. These include:

In a letter filed with the Board, dated August 21, 2015, Enbridge Gas sought Board review and approval of two “Requests to Vary” for the Project. The two requests to vary were as follows:

- 1) Enbridge Gas proposed to extend the looping of Azilda lateral by approximately 160 meters. This extension allowed for an easier tie-in to the existing pipelines and provided a location where launcher/receiver facilities could be constructed.
- 2) Enbridge Gas proposed to change the pipeline route where it crosses Notre Dame Avenue. During discussion with the City of Greater Sudbury it was agreed that moving the pipeline to the proposed location would result in fewer disturbances to other utilities, and vehicles using Notre Dame Avenue and Regional Road 35 (formerly Highway 144). The changes moved the pipeline from adjacent to the limits of Regional Road 35 to a location away from other utilities and resulted in a more direct directional drill for the Notre Dame Avenue crossing.

In a letter filed with the Board, dated November 17, 2015, Enbridge Gas sought Board review and approval of two change requests for the Project. The two change requests were as follows:

- 3) Enbridge Gas deferred construction of the proposed pipeline to serve the Victoria Mine until 2016. As described in Enbridge Gas' pre-filed evidence, the Municipality of Greater Sudbury was planning to make improvements to the Crean Hill Road. The original schedule for these improvements to be completed was the summer /fall of 2015. Due to unforeseen delays the road improvements were not completed, and were then proposed to be completed by the spring of 2016. As Enbridge Gas had proposed to construct the pipeline in the shoulder of the improved road, construction was not possible in 2015. Final road improvements were completed in late 2017.
- 4) The location of the Victoria Mine customer station and northern terminus of the pipeline had been changed. Based on discussions between Enbridge Gas and Victoria Mine it was determined that moving the customer station from its original location would allow for better and more efficient site planning of the Victoria Mine site. The customer station was completed in 2017.

In a letter filed with the Board dated August 17, 2016, Enbridge Gas sought Board review and approval of one change request for the Project. The change request was as follows:

- 5) In Change Request #4 Enbridge Gas identified that the pipeline to serve the Victoria Mine would not be constructed until 2016. The pipeline installation was delayed and then proposed to be constructed in 2017. As stated in Enbridge Gas' pre-filed evidence the pipeline to serve the Victoria Mine was to be constructed within the road allowance of the reconstructed Crean Hill Road. It had taken the City of Greater Sudbury, who was reconstructing the road, longer than anticipated to receive the permits necessary to begin reconstruction of the road. As it was not practical for Enbridge Gas to construct the pipeline until the roadwork had been completed and therefore pipeline construction was deferred until all roadwork had been completed.

In a letter filed with the Board dated December 15, 2017, Enbridge Gas sought Board review and approval of one change request for the Project. The change request was as follows:

- 6) In Change Request #4 Enbridge Gas identified that the pipeline to serve the Victoria Mine would not be constructed until 2016. In Change Request #5 Enbridge Gas deferred construction until 2017. In 2017 Enbridge Gas constructed approximately 1400 metres of the Project but was unable to complete construction in 2017. Enbridge Gas proposed to complete construction in 2018. It took the City of Greater Sudbury until mid-2017 to obtain the species at risk permits necessary to start reconstruction of the road. As it was not practical for Enbridge Gas to construct the pipeline until the roadwork had been completed, pipeline construction had been deferred until all roadwork has been completed.

Copies of all the letters sent to the Board and responses to those letters from the Board can be found in Appendix C.

3.4 Condition 6.0

Both during and after construction, Union shall monitor the impacts of construction, and shall file with the Board one paper copy and one electronic (searchable PDF) version of each of the following reports:

- a) *post construction report, within three months of the in-service date, which shall:*
- i. *provide a certification, by a senior executive of the company, of Union's adherence to Condition 1;*
 - ii. *described any impact or outstanding concerns identified during construction*
 - iii. *describe the actions taken or planned to be taken to prevent or mitigate any identified impacts of the construction;*
 - iv. *include a log of all complaints received by Union, including the date/time the complaint was received, a description of the complaint, any actions taken to address the complaint, the rational for taking such actions and:*
 - v. *provide a certification, by a senior executive of the company, that the company has obtained all other approvals, permits, licences and certificates required to construct, operate and maintain the proposed project.*

The previously filed Post Monitoring Report included the required certifications from a senior executive, describing the construction effects and general mitigation measures employed during construction and provided a description of the successfully completed monitoring programs initiated both prior to and during construction.

b) a final monitoring report, no later than fifteen months after the in-service date or where the deadline falls between December 1 and May 31, following June 1, which shall:

- i. provide a certification, by a senior executive of the company, of Union's adherence to Condition 3;*

One paper copy and one electronic (searchable PDF) version of this Final Monitoring Report have been filed with the OEB. Enbridge Gas has implemented all the recommendations of the Environmental Report filed in the proceeding, and all the recommendations and directives identified by the OPCC review. Executive certification can be found in Appendix D to this report.

- ii. describe the condition of any rehabilitated land;*
- iii. describe the effectiveness of any actions taken to prevent or mitigate and identified impacts of construction.*
- iv. include the results of any analyses and monitoring programs and any recommendations arising therefrom; and*

The entire right of way and areas in close proximity to the watercourses were checked for stability, subsidence and vegetation re-establishment in the spring of 2018 and found to be successfully rehabilitating and protected with proper sediment control devices to aid in the rehabilitation process. No deficiencies in compliance were identified. No post construction monitoring programs were required or performed.

- v. include a log of all complaints received by Union, including the date/time the complaint was received, a description of the complaint, any actions taken to address the complaint, the rationale for taking such actions and:*

To date no complaints have been received by Enbridge Gas for the Project. Enbridge Gas will continue to monitor the state of the land and environment and will address any landowner concerns, if they should arise.

4.0 SUMMARY

This Final Monitoring Report has been prepared pursuant to the COAs contained in the Board Decision and Order for the EB-2015-1020 proceeding. The report in conjunction with the previously filed Post Construction Report provides confirmation that Enbridge Gas has implemented all the recommendations of the Environmental Protection Plan filed in the proceeding and all recommendations and directives identified by the Ontario Pipeline Coordinating Committee review. This report also confirms that Enbridge Gas successfully rehabilitated the land disturbed from construction and there are no outstanding concerns. It is anticipated that these mitigation measures and rehabilitation efforts will effectively eliminate any long-term impacts to the environment.

“Table 1”

Potential Impacts and Mitigation Measures

TABLE 1: MITIGATION SUMMARY

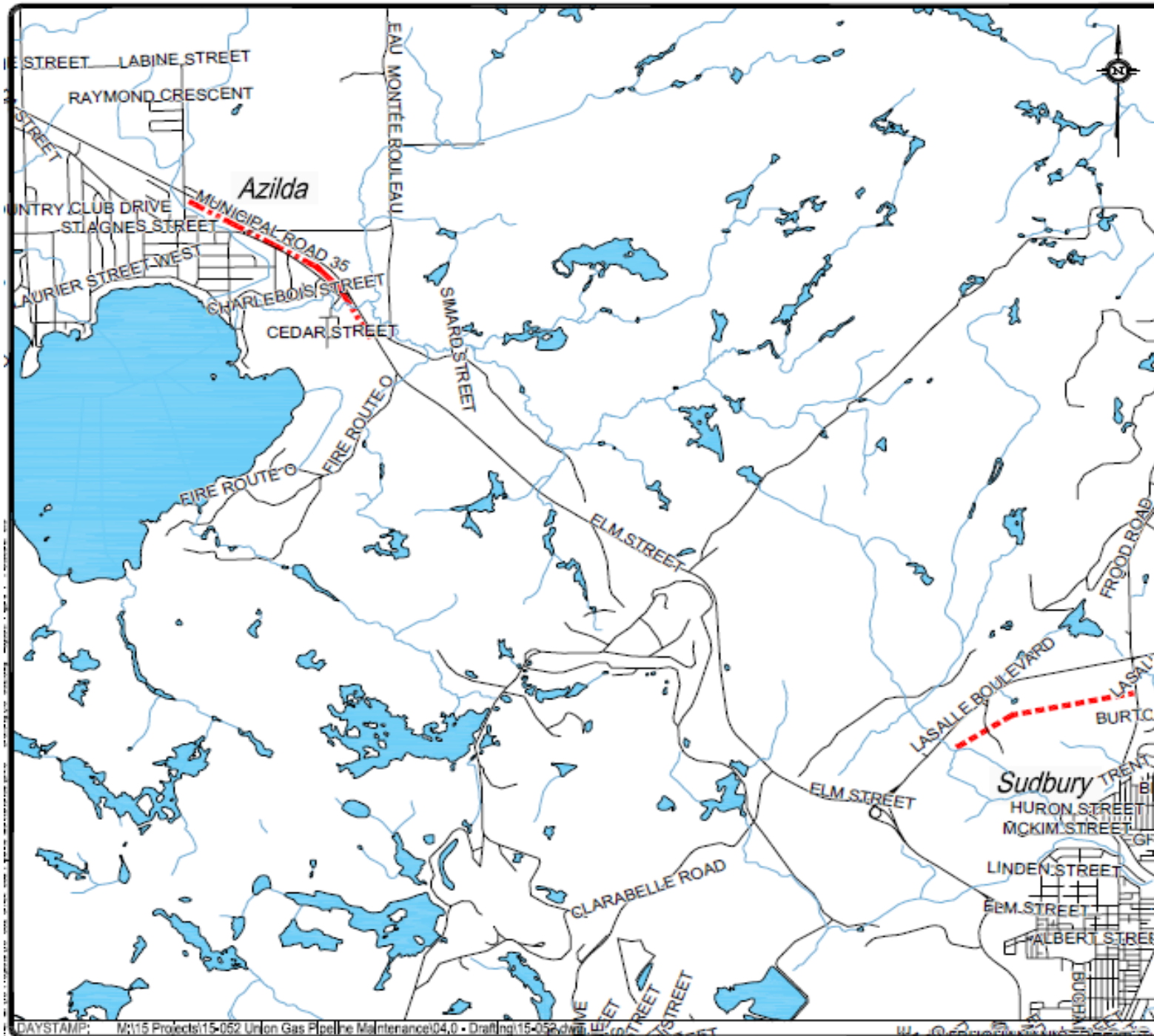
Issue	Potential Impact	Proposed Mitigation
a) Archaeology	Disturbance to cultural heritage resources.	<ul style="list-style-type: none"> • Prior to any activities associated with the project, an archaeological survey was completed. No artifacts were found during the survey or construction.
b) Species At Risk (SAR)	Encountering SAR	<ul style="list-style-type: none"> • Phase 2 -Followed recommendations as outlined in the conditions imposed by the Ministry of Natural Resources and Forestry for the City of Sudbury road construction. • There were no SAR concerns with Phase 1
c) Landowner Concerns	Disruption to landowners	<ul style="list-style-type: none"> • Enbridge Gas provided the landowners with the telephone numbers of Company personnel. • A Landowner Relations Program was established to track complaints during construction. • To date there have been no complaints entered into the complaint tracking system.
d) Watercourses	Water quality concerns	<ul style="list-style-type: none"> • Enbridge Gas adhered to Company specifications for watercourse crossings. • Enbridge Gas obtained permits from Conservation Sudbury for all watercourse crossings.
e) Road Side Ditches	Water quality concerns	<ul style="list-style-type: none"> • Ensured ditches were returned to pre-construction condition as quickly as possible.
f) Roadways	Disruption to local citizens and businesses	<ul style="list-style-type: none"> • At least one lane of traffic was maintained at all times. • Flag persons and warning devices were used to notify traffic of the construction zone. •
g) Public Safety	Public safety concerns	<ul style="list-style-type: none"> • Company inspectors ensured public safety on construction site. • Ensured proper signage and flag persons if required.
h) Construction Equipment	Disruption to landowners and tenants	<ul style="list-style-type: none"> • Equipment was stored well off road shoulders when not in use.
i) Construction Noise	Disturbance to landowners and tenants	<ul style="list-style-type: none"> • Construction was carried out during daylight hours whenever possible. • Ensured equipment was properly muffled.
j) Fuel Storage and Handling	Improper fuel storage and handling may cause spillage and possible contamination of soil	<ul style="list-style-type: none"> • Fuel was not stored near watercourses (i.e. Within 50 metres) • Spill clean-up materials were stored on site and available in the event of a spill. Spills or leakage were to be reported to the appropriate authority immediately (Ministry of the Environment Spills Action Centre at 1-800-268-6060) • No reportable spills were recorded during construction

Appendix A

Location Map

GENERAL LOCATION MAP

PHASE 1 - SUDBURY EXPANSION PROJECT



LEGEND:

Proposed Pipeline Sections

--- Frood Station

--- Azilda Lateral

750m 0 1500m

HORIZONTAL SCALE 1:50,000



Study Area Location

Proposed Pipeline Sections for
Replacement/Installations, Sudbury, ON

DATE ISSUED: February 2015

CREATED BY: JLM

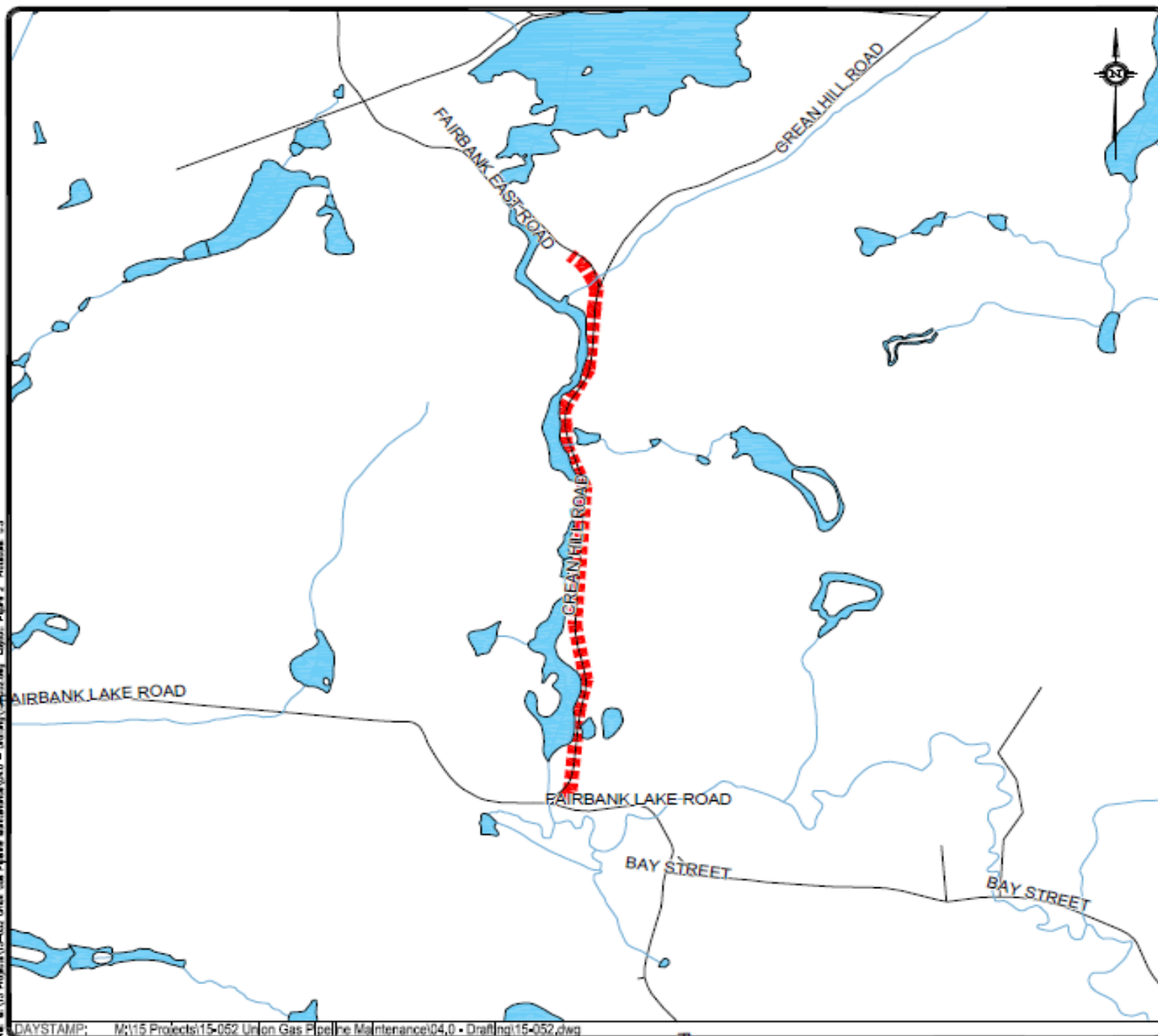
PROJECT NO: 15-052

REFERENCE: Google Maps

Figure No.

1

M:\15 Projects\15-052 Union Gas Pipeline Maintenance\04.0 - Drafting\15-052.dwg Layer: Figure 2 - Pipeline 0.5



LEGEND:
--- Proposed New 6" Pipeline Location

KEY PLAN

HORIZONTAL SCALE 1:25,000

AZIMUTH ENVIRONMENTAL CONSULTING, INC.

Study Area Location

Victoria Mine Pipeline Installation
Sudbury, ON

DATE ISSUED: February 2015	Figure No. 2
CREATED BY: JLM	
PROJECT NO.: 15-052	
REFERENCE: Google Maps	

Appendix B

Conditions of Approval

Leave to Construct Conditions of Approval

Application under Section 90 of the OEB Act

Union Gas Limited

EB-2015-0120

1. Union Gas Limited (Union) shall construct the facilities and restore the land in accordance with the OEB's Decision and Order in EB-2015-0120 and these Conditions of Approval.
2. (a) Authorization for leave to construct shall terminate 12 months after the decision is issued, unless construction has commenced prior to that date.

(b) Union shall give the OEB notice in writing:
 - i. of the commencement of construction, at least ten days prior to the date construction commences;
 - ii. of the planned in-service date, at least ten days prior to the date the facilities go into service;
 - iii. of the date on which construction was completed, no later than 10 days following the completion of construction; and
 - iv. of the in-service date, no later than 10 days after the facilities go into service.
3. Union shall implement all the recommendations of the Environmental Report filed in the proceeding, and all the recommendations and directives identified by the Ontario Pipeline Coordinating Committee review.
4. Union shall advise the OEB of any proposed change to OEB-approved construction or restoration procedures. Except in an emergency, Union shall not make any such change without prior notice to and written approval of the OEB. In the event of an emergency, the OEB shall be informed immediately after the fact.
5. Union shall file, in the proceeding where the actual capital costs of the project are proposed to be included in rate base, a Post Construction Financial Report, which shall indicate the actual capital costs of the project and shall provide an explanation for any significant variances from the cost estimates filed in this proceeding.
6. Both during and after construction, Union shall monitor the impacts of construction, and shall file with the OEB one paper copy and one electronic (searchable PDF) version of each of the following reports:
 - a) a post construction report, within three months of the in-service date, which shall:
 - i. provide a certification, by a senior executive of the company, of Union's adherence to Condition 1;

- ii. describe any impacts and outstanding concerns identified during construction;
 - iii. describe the actions taken or planned to be taken to prevent or mitigate any identified impacts of construction;
 - iv. include a log of all complaints received by Union, including the date/time the complaint was received, a description of the complaint, any actions taken to address the complaint, the rationale for taking such actions; and
 - v. provide a certification, by a senior executive of the company, that the company has obtained all other approvals, permits, licences, and certificates required to construct, operate and maintain the proposed project.
- b) a final monitoring report, no later than fifteen months after the in-service date, or, where the deadline falls between December 1 and May 31, the following June 1, which shall:
- i. provide a certification, by a senior executive of the company, of Union's adherence to Condition 3;
 - ii. describe the condition of any rehabilitated land;
 - iii. describe the effectiveness of any actions taken to prevent or mitigate any identified impacts of construction;
 - iv. include the results of analyses and monitoring programs and any recommendations arising therefrom; and
 - v. include a log of all complaints received by Union, including the date/time the complaint was received, a description of the complaint, any actions taken to address the complaint, the rationale for taking such actions.

Appendix C

Change Requests and Approvals

August 21, 2015

Ms. Pascale Duguay
Facilities Applications
Ontario Energy Board
2300 Yonge Street, Suite 2700
Toronto, Ontario
M4P 1E4

Dear Ms. Duguay:

**Re: Union Gas Limited (“Union”)
Panhandle 2015 Replacement Project
Board File # EB-2015-0041**

Please find attached three Requests to Vary for the above-noted project.

Union believes that these changes are not significant and would appreciate your timely review and approval of these requests, as construction is scheduled to start August 28, 2015.

In the event that you have any questions or would like to discuss in more detail, please do not hesitate to contact me at 519-436-5457.

Sincerely,

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

cc: Zora Crnojacki, OEB Project Advisor

REQUEST TO VARY

Project Name: Panhandle 2015 Replacement Project

OEB File Number: EB-2015-0041

Request to Vary: 1

Description and Rationale for Change

Union is proposing changing the construction technique for the crossings of Patillo Road and Wallace Line. Union's original proposal had been to open cut these road crossings. Union is now proposing to complete these crossings using a directional drill. Union has had requests from the local Municipality and adjacent landowner to complete these crossings using directional drills. Drilling the roads will reduce the impacts to local residents.

Construction and Restoration Practices

Union will follow its standard practice for directional drilled crossings to complete the work.

Environmental

No new environmental mitigation measures will be required.

Consultation

Union has met with all of the directly affected landowners and the Municipality of Lakeshore and no concerns have been identified.

Lands

No additional land rights are required.

Costs

These changes will not result in any change to the total cost of the project.

Schedule

This change will not result in a change to the in-service date of the project.

Attachments

A map showing the location of Patillo Road and Wallace line is attached at Schedule 1.

Union Gas Limited Proposed NPS 16 Panhandle Replacement Route



Lake St. Clair

Wallace Line Rd.

Patillo Rd.

West Puce Rd.

East Puce River Rd.

County Rd. 42

LEGEND:



EB-2015-0041
Request to Vary I
Schedule I

----- 2015 NPS16 Panhandle Replacement

REQUEST TO VARY

Project Name: Panhandle 2015 Replacement Project

OEB File Number: EB-2015-0041

Request to Vary: 2

Description and Rationale for Change

Union is proposing a change to the construction schedule for this project.

While completing the Stage 2 archaeological assessment a large scatter of mid to-late 19th century historic Euro-Canadian artifacts with a small component of early 19th century artifacts were discovered. The discovery of this number of artifacts requires Stage 3 and 4 archaeological assessments be completed.

The property where the artifacts were discovered is owned by Hydro One and administered by Infrastructure Ontario. In order for Infrastructure Ontario to provide Union with the necessary land rights to construct the pipeline Union was required to complete the archaeological assessments.

The archaeological assessment and Infrastructure Ontario's Class EA process have taken longer to complete than expected and Union does not believe that it will be able to construct the entire project in 2015.

Union is proposing to complete the section of pipeline west of Patillo Road in 2015 and return in 2016 to complete the remainder of the project.

Construction and Restoration Practices

This change will not impact any construction procedures.

Environmental

No new environmental mitigation measures will be required.

Consultation

Union has consulted with the Ministry of Tourism, Culture and Sport's regarding this site. They have reviewed the assessments that have been completed to date. They have agreed to Union proposed plans for the site. There are no landowners issues associated with this change.

Lands

No additional land rights are required.

Costs

These changes will result in a small increase in costs due to constructing occurring over two years. The final project costs will be reported in the Post Construction Financial Report.

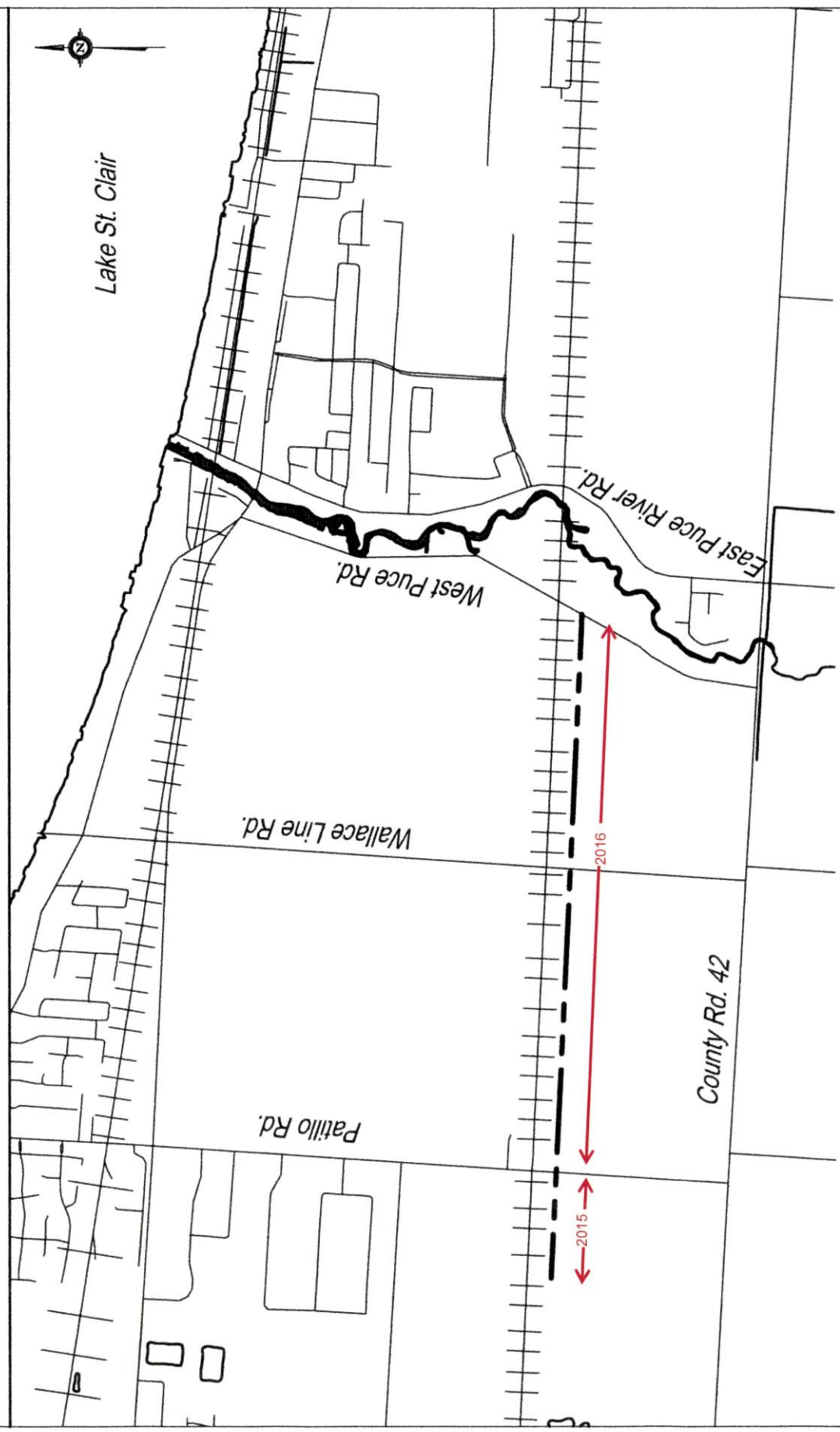
Schedule

This work west of Patillo Road will be completed in the fall of 2015, with remainder of the project being completed in 2016.

Attachments

A map showing the location of the 2015 and 2016 construction is attached at Schedule 1.

Union Gas Limited Proposed NPS 16 Panhandle Replacement Route



LEGEND:

----- 2015 NPS16 Panhandle Replacement



REQUEST TO VARY

Project Name: 2015 Panhandle Replacement Project

OEB File Number: EB-2015-0041

Request to Vary: 3

Description and Rationale for Change

Union is proposing changes in the vicinity of Patillo Road Station.

Union requires additional triangular 15 x 25 x 29 metre temporary land right adjacent to the Station to facilitate pipeline construction.

Construction and Restoration Practices

There are no changes proposed for construction of the proposed facilities.

Environmental

No new environmental mitigation measures will be required.

Consultation

Union has met with the directly affected landowner and no concerns have been identified.

Lands

Union has the necessary temporary land right in place.

Costs

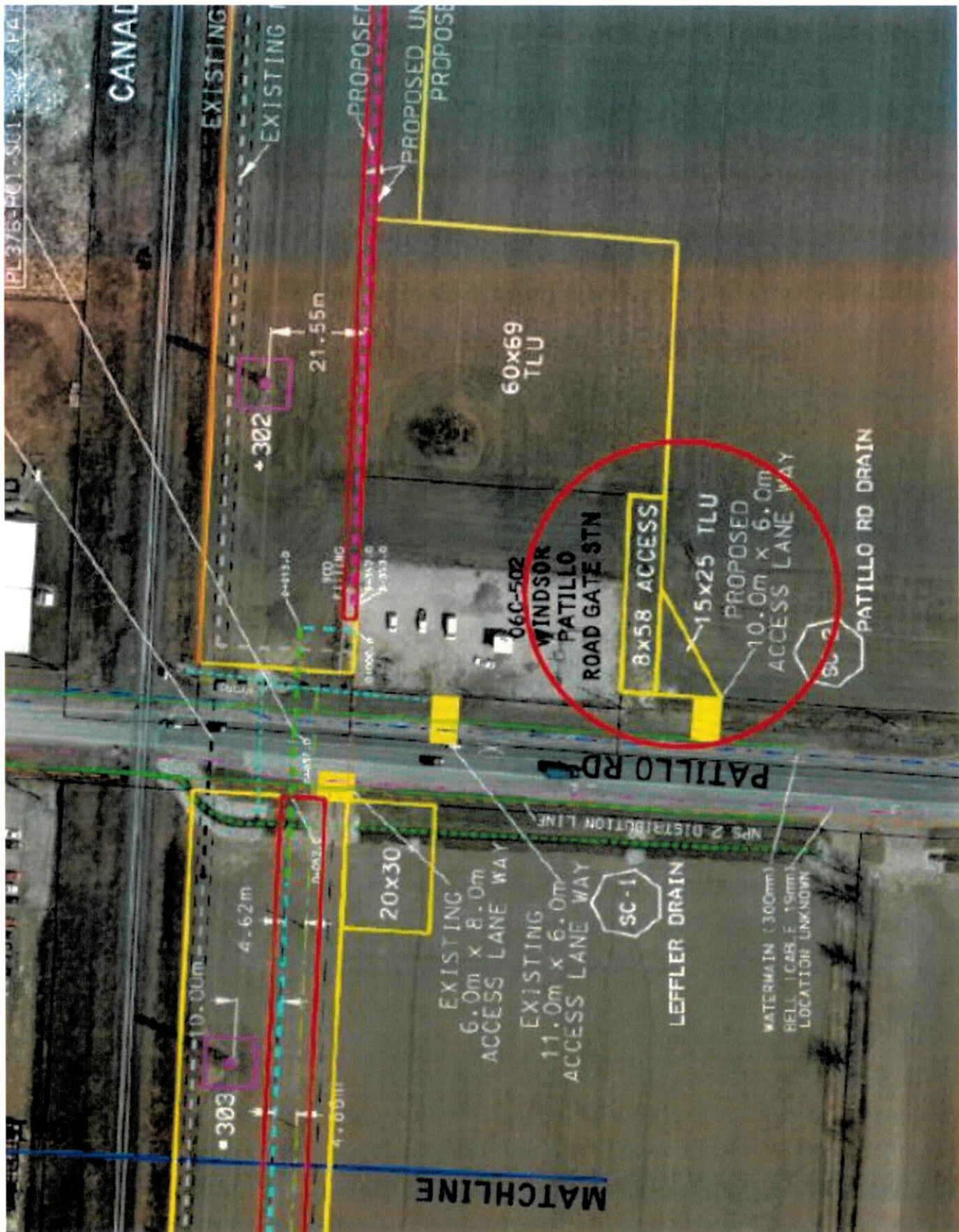
These changes will not result in any change to the total cost of the project.

Schedule

This change will not result in a change to the in-service date of the project.

Attachments

A map showing the location of the temporary land right is attached at Schedule 1.



**Ontario Energy
Board**

P.O. Box 2319
2300 Yonge Street
27th Floor
Toronto ON M4P 1E4
Telephone: 416-481-1967
Facsimile: 416-440-7656
Toll free: 1-888-632-6273

**Commission de l'énergie
de l'Ontario**

C.P. 2319
2300, rue Yonge
27^e étage
Toronto ON M4P 1E4
Téléphone: 416-481-1967
Télécopieur: 416-440-7656
Numéro sans frais: 1-888-632-6273



BY E-MAIL

August 28, 2015

W.T. Wachsmuth
Union Gas Limited
Senior Administrator, Regulatory Projects
P.O. Box 2001, 50 Keil Drive North
Chatham ON N7M 5M1

Dear Mr. Wachsmuth

Re: **Panhandle Replacement 2015 Project – EB-2015-0041
Request to Vary**

The Ontario Energy Board (OEB) is in receipt of your letter dated August 21, 2015 where you informed the OEB of three changes for the Panhandle Replacement 2015 Project.

The first is a change to the Patillo Road and Wallace Line crossing technique, from open cut to directional drilling method. The directional drilling method was requested by the local municipality and adjacent landowner. The second change is a delay of the construction from 2015 to 2016 for the section of the pipeline between Patillo Road and West Puce Road. The delay is due to the requirements for additional archeological surveys and assessments. The third change is that Union requires additional temporary land rights adjacent to the Patillo Road Station.

As the Vice-President, Applications, I have been delegated the authority of the OEB under Section 6 of the *Ontario Energy Board Act, 1998* to determine whether Union's proposals will result in material changes to the leave to construct granted by the OEB in the EB-2015-0041 proceeding. I have been further granted the authority to approve any changes that I have concluded are not material.

You indicated that the change in the road crossing technique would not require new land rights or new environmental mitigation measures and that it would not impact the planned in-service date or the total estimated project costs. As for the construction delay to the 2016 season, you anticipate no impacts except for a small increase in cost, without specifying the estimated amount. The actual project costs and explanation of variances from estimated costs will be reported in the Post-Construction Financial Report and reviewed as part of Union's next re-basing rate application. Regarding the proposed delay of construction, I note that a condition of approval requires that Union start construction prior to June 4, 2016. Union stated that the construction is planned to start on August 28, 2015. Provided that construction commences by June 4, 2016, no vary order is required. For the new temporary land rights in the vicinity of the Patillo Road Station, you have indicated that the temporary land rights have already been obtained.

Based on my review of the information provided, I find that the described changes do not materially impact the leave granted by the OEB to construct the pipeline. I hereby approve the three proposed changes.

Yours truly,

Original Signed By

Lynne Anderson
Vice-President, Applications

January 23, 2017

RESS

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

Dear Ms. Walli,

**Re: Union Gas Limited ("Union")
Panhandle 2015 Replacement Project
Board File # EB-2015-0041**

This letter is to inform the Board of a change that happened in the field during hydrostatic testing of the pipeline for the above-noted project. Please find attached Change Request 5.

In making the change which is permitted by the CSA code, it is Union's position that this change is not significant and is allowed for under code. Union would appreciate your timely review and approval of this request.

In the event that you have any questions or would like to discuss in more detail, please do not hesitate to contact me at 519-436-5457.

Sincerely,

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

cc: Nancy Marconi, OEB
Zora Crnojacki, OEB

REQUEST TO VARY

Project Name: 2015 Panhandle Replacement Project

OEB File Number: EB-2015-0041

Request to Vary: 5

Description and Rationale for Change

Union in its pre-filed evidence stated that it would follow all the requirements of the CSA Z662 code. In relation to pressure testing the code requires that the pipe be tested to a pressure of 1.4 times the maximum operating pressure of the pipeline. Schedule 4 of the pre-filed evidence identifies that the pipeline will be tested to 1.5 times the maximum operating pressure. Union typically tests the pipelines to a target pressure of 1.5 times the maximum operating pressure to allow for site specific variations (such as temperature and elevation changes). For this project the minimum test pressure remained above the code required 1.4 times the maximum operating pressure.

Construction and Restoration Practices

There are no changes proposed for construction of the proposed facilities.

Environmental

No new environmental mitigation measures will be required.

Consultation

No consultation is required for this change.

Lands

No additional lands are required for this change.

Costs

These changes will not result in any change to the total cost of the project.

Schedule

This change will not result in a change to the in-service date of the project.

Attachments

No Attachments.

**Ontario Energy
Board**
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27th. Floor
2300 Yonge Street
Toronto ON M4P 1E4
Telephone: 416-481-1967
Facsimile: 416-440-7656
Toll free: 1-888-632-6273

**Commission de l'énergie
de l'Ontario**
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Toronto ON M4P 1E4
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BY E-MAIL

February 01, 2017

Union Gas Limited
W.T. Wachsmuth
Senior Administrator, Regulatory Projects
50 Keil Drive North
P.O. Box 2001
Chatham ON N7M 5M1
bwachsmuth@uniongas.com

Dear Mr. Wachsmuth:

**Re: Panhandle 2014 Replacement Project – EB-2015-0041
Request to Vary
Change Request No. 5**

The Ontario Energy Board (OEB) is in receipt of your letter dated January 23, 2017 where Union Gas limited (Union) advised the OEB of a change to the Panhandle 2015 Replacement Project (Change Request No. 5).

The change relates to Union's hydrostatic testing of the pipeline. Union is required to adhere to all requirements of the CSA Standards Z662 for Oil and Gas Pipelines Systems (CSA Z662). In the pre-filed evidence, Union proposed that the pipeline be tested to a pressure of 1.5 times the maximum operating pressure, which is above the pressure set in the CSA Z662. The CSA Z662 requires that a pipeline in this site specific situation be tested to a pressure of 1.4 times the maximum operating pressure of the pipeline. Union's change request indicates that the hydrostatic testing for this project will be changed a pressure of 1.4 times the maximum operating pressure of the pipeline as required by the CSA Z662.

As the Manager, Applications Policy and Climate Change, I have been delegated the authority of the OEB under section 6 of the *Ontario Energy Board Act, 1998* to determine whether Union's proposals will result in material changes to the leave to construct granted by the OEB in the EB-2015-0041 proceeding. I have been further granted the authority to approve any changes that I have concluded are not material.

Union stated that this change will not modify the construction methods, or environmental mitigation measures and consultation. Union also noted that no additional lands will be needed, and the total cost to the project and the in-service date will remain as planned.

Based on my review of the information provided, I find that the described change does not materially impact the leave granted by the OEB to construct the pipeline. I hereby approve the proposed change. I note that this change requested by Union is no. 4 and not no. 5, as indicated by Union.

Yours truly,

Original Signed by

Pascale Duguay
Manager, Applications Policy and Climate Change

Appendix D

Executive Certification



SUDBURY EXPANSION PROJECT

EB-2015-0120

I hereby certify Enbridge Gas Inc. has complied with the Decision and Order, Schedule B, EB-2015-0120, Condition 3.0

Oct 23/2019

Date

Michelle George

Michelle George

Vice President, Engineering

Enbridge Gas Inc.

Condition 3.0

Union shall implement all the recommendations of the Environmental Protection Plan in the proceeding.

C of A Senior Executive Certification – Condition 6 b) i.