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February 19, 2018

BY RESS & 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”)
2016 Sudbury Replacement Project
Board File # EB-2016-0122**

Pursuant to Condition 6. (b) i. - v. of the Board’s Conditions of Approval for the above-noted project, enclosed please find the Final Monitoring Report.

Sincerely,

[original signed by]

Shelley Bechard
Administrative Analyst, Regulatory Projects

cc: Z. Crnojacki
N. Marconi
Regulatory Library

**2016 SUDBURY REPLACEMENT PROJECT
FINAL MONITORING REPORT
EB-2016-0122**

Prepared by: Union Gas Limited
Environmental Planning
February 2018

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2016 Sudbury Replacement Project Final Monitoring Report

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1.0 INTRODUCTION

This Final Monitoring Report is provided in compliance with the Ontario Energy Board (“Board”) Order EB-2016-0122 granting Union Gas Limited (“Union”) “Leave to Construct” approximately 850 metres of NPS 12 inch diameter natural gas pipeline to replace and upsize two short sections of the existing NPS 10 inch Sudbury Lateral Line in the City of Greater Sudbury.

Sudbury Lateral was predominantly constructed in 1958. Union replaced and upsize two short sections of the Sudbury lateral to address class location changes, integrity issues and some future growth requirements.

The requirements for and details of this report are outlined in the specific conditions issued by the Board in its Order dated July 7, 2016 as listed below. The Conditions of Approval can be found in Appendix B.

Accordingly, the purpose of this Final Monitoring Report is to fulfill these conditions.

- 1.0 Union Gas Limited (Union) shall construct the facilities and restore the land in accordance with the OEB’s Decision and Order in this proceeding 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 Gas 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 Gas 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 15 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 rationale for taking such actions.*

2.0 BACKGROUND

Union was granted approval to construct the 2016 Sudbury Replacement Project on July 7, 2016. Construction began on Section 1 on September 19, 2016 which consisted of 700 metres of NPS 12 located near Falconbridge Road and Maley Drive in the City of Sudbury and completed on October 28, 2016. Construction was initiated near Falconbridge Rd. and progressed in a northerly direction to the end point south of Maley Drive with the following order of operations: stringing, welding, joint coating, trenching, directional drilling, lowering-in, tie-ins, backfilling, testing and clean-up.

Construction began on Section 2 October 16, 2017 which consisted of 150 metres of NPS 12 located at Froot Road in the City of Sudbury and completed on December 5, 2017. Construction commenced east of Froot Rd. and progressed in a westerly direction with the following order of operations: stringing, welding, joint coating, trenching, lowering-in, tie-ins, backfilling, testing and clean-up.

Union returned to the Section 1 right-of-way in spring 2017 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 was required. Union returned to the Section 2 right-of-way in spring 2018 to perform the same general tasks.

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 OEB's Decision and Order in this proceeding and these Conditions of Approval.

With exception to the changes indicated in Condition 4.0, Union has complied with all conditions imposed by the Board during construction of the pipeline and has restored the land according to the evidence 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.

Union has implemented all recommendations and mitigation measures outlined in the Environmental Report (ER) along with all directives identified by the OPCC.

3.3 Condition 4.0

Union Gas 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.

As indicated in the previously filed Post Construction Report, Union Gas forwarded letters to the OEB on three (3) separate occasions with “Requests to Vary” for the project. The changes included;

- 1) In a letter dated July 12, 2016, Union Gas submitted a “Change Request” to the OEB. In order to facilitate construction of the proposed facilities Union proposed to obtain additional temporary lands at the Western Terminus of Section One of the Project. These lands are owned by the Hydro Electric Power Commission of Ontario. Union met with this organization and they agreed to grant Union the temporary rights necessary for Union to use the property.
- 2) In a letter dated September 22, 2016, Union Gas submitted a “Change Request” to the OEB. In order to facilitate more efficient construction of the Proposed Facilities in the

area of Junction Creek, Union proposed a minor change to the route of the pipeline on the City of Greater Sudbury property at the eastern end of Section One. Union had originally planned to open-cut and drill this section of pipeline. Union's proposal was to directionally drill the entire area where the route will be changed.

- 3) In a letter dated December 16, 2016, Union Gas submitted a "Change Request" to the OEB. The Sudbury 2016 Replacement Project consisted of two sections of NPS 12 pipeline replacements. Union completed the 700 metre western section and placed this section in-service in November of 2016. Due to the late finish of the western section Union proposed to complete the 150 metre eastern section crossing Froot Road in 2017.

3.4 Condition 6.0

Both during and after construction, Union Gas 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 rationale for taking such actions and:*
 - iv. *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, described 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;

Michelle George, Vice President of Engineering has certified that the company has implemented all recommendations and mitigation measures outlined in the Environmental Report. The signed letter of confirmation can be found in Appendix C.

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 in particular areas in close proximity to the watercourses were checked for stability, subsidence and vegetation re-establishment for Section 1 in the spring of 2017 and for Section 2 in the spring of 2018. The lands were 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*

To date no complaints have been received by Union Gas for the 2016 Sudbury Replacement Project constructed under Board Order EB-2016-0122. Union will continue to monitor the state of the land and environment and will address any additional landowner concerns, if they should arise.

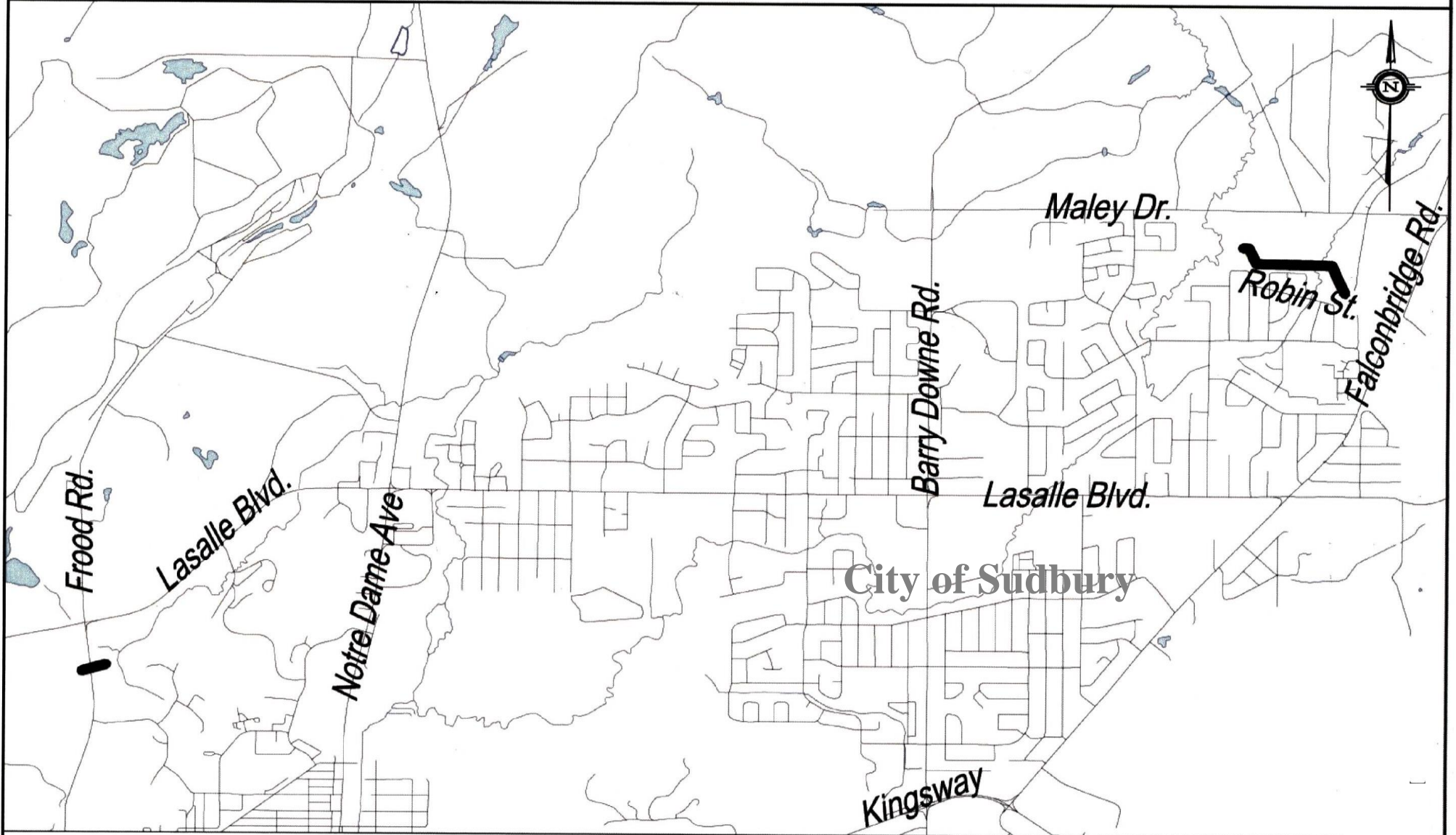
4.0 SUMMARY

This Final Monitoring Report has been prepared as per conditions in the Board Order EB-2016-0122. The report in conjunction with the previously filed Post Construction Report provides an outline of Unions' compliance with the commitments of its witnesses, the measures implemented during construction to minimize disturbance to the environment and a description of Unions' monitoring programs. It is anticipated that these measures will effectively eliminate any long-term impacts to the environment.

Appendix A

Location Map

Union Gas Limited 2016 Sudbury Replacement Project



Legend:

— NPS 12 Inch Pipeline Location

Appendix B

Conditions of Approval

**Leave to Construct Conditions of
Approval
Application under Section 90 of the
OEB Act
Union Gas Limited
EB-2016-0122**

1. Union Gas Limited (Union) shall construct the facilities and restore the land in accordance with the OEB's Decision and Order in this proceeding and these Conditions of Approval.
2. (a) Authorization for leave to construct shall terminate 12 months after this Decision and Order 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

Executive Certification



2016 SUDBURY REPLACEMENT PROJECT
EB-2016-0122

I hereby certify Union Gas Limited has complied with the Decision and Order, Schedule B, EB-2016-0122, Condition 3.0

Feb 12, 2019

Date

Michelle George

Michelle George

Vice President, Engineering

Enbridge Gas Inc. – Operating as Union Gas

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.