

Alison Evans Regulatory Affairs

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VIA Email, RESS and Courier

October 22, 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-2015-0179 Community Expansion Project – Delaware Nation of Moraviantown First Nation (Project)

On August 10, 2017 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 Community Expansion project.

Please contact the undersigned if you have any questions.

Yours truly,

(Original Signed)

Alison Evans Advisor Rates **Regulatory Application**

MORAVIANTOWN NATURAL GAS PIPELINE PROJECT

FINAL MONITORING REPORT

Prepared By: Enbridge Gas Inc. Environment October 2019

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1.0 INTRODUCTION

This Final Monitoring Report is provided pursuant to the Ontario Energy Board ("OEB" or the "Board") Decision and Order for the EB-2015-0179 proceeding. In that Decision and Order, the Board granted Union Gas Limited ("Union") approval to construct approximately 7.43 kilometres of plastic natural gas pipeline to provide natural gas service to the Delaware Nation at Moraviantown. On January 1, 2019 Enbridge Gas Distribution Inc. and Union Gas Limited amalgamated to form Enbridge Gas Inc. ("Enbridge Gas").

The Nominal Pipe Size (NPS) 4 inch plastic pipeline commenced at Enbridge Gas' existing pipeline on Norton Line in the Municipality of Chatham – Kent and travelled east along Norton Line and Knoll Road to School House Line. NPS 2 inch pipeline was installed along Lunaapeew Road, and then along School House Line to Little John Road and then ended at Corn Plant Road/Austin Line. All pipelines were installed within road allowances. Please see Appendix A for a map of the entire pipeline route.

The requirements for and details of this report are outlined in the specific conditions issued by the OEB in its Decision and Order dated August 10, 2017 and are listed below. The complete Conditions of Approval ("COA") can be found in Appendix B. The COAs addressed in this report are as follows:

Condition 1

Union Gas Limited (Union) shall construct the facilities and restore the land in accordance with the OEB's Decision and Order in EB-2015-0179 and these Conditions of Approval.

Condition 3

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

Condition 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.

Condition 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 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, licenses, 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, the following June 1, which shall:
 - i. provide a certification, by a senior executive of the company, of Union 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.

2.0 BACKGROUND

Enbridge Gas was granted approval to construct the Moraviantown Natural Gas Pipeline Project (the "Project") on August 10, 2017. Approval to proceed with the Project was contingent upon Enbridge Gas receiving grant funding or some other means of direct Aid-to-Construction in order to meet a minimum Profitability Index (PI) of 1.0 for the Project. Enbridge Gas applied for a grant from the Ontario Natural Gas Grant Program in July of 2017 and received approval for the funding in December of 2017, which allowed the Project to proceed. Construction was initiated on July 3, 2018 and the pipeline was placed into service on July 30, 2018. Cleanup and land restoration was completed concurrently to construction, and was completed for the year on July 31, 2018.

Construction commenced at Norton Line with the installation of the NPS 4 inch plastic pipeline and continued east along Knoll Road to Moraviantown. In parallel, a separate crew worked on the installation of the NPS 2 inch pipeline along School House Road, Little John Road, Corn Plant Road, and Lunaapeew Road. Construction generally progressed with the following order of operations: flagging/staking, stringing, Ploughing/HDD, tie-ins, back filling, and clean-up.

Enbridge Gas returned to the right-of-way in 2019 to perform a general overview to ensure clean-up and restoration measures were successful and all disturbed areas were stable and revegetated. All clean-up and restoration measures were successful and no additional clean-up was required.

3.0 POTENTIAL IMPACTS AND MITIGATION

3.1 Condition 1

Union Gas Limited (Union) shall construct the facilities and restore the land in accordance with the OEB's Decision and Order in EB-2015-0179 and these Conditions of Approval.

Enbridge Gas constructed the facilities and restored the land in accordance with the OEB's Decision and Order in the EB-2015-0179 proceeding and these Conditions of Approval.

3.2 Condition 3

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

Enbridge Gas has implemented all the recommendations of the Environmental Protection Plan filed in the proceeding. Please refer to Table 1 to confirm Enbridge Gas' adherence to the recommendations and mitigation measures identified in the Environmental Protection Plan.

3.3 <u>Condition 4</u>

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.

Enbridge Gas advised the Board of one change – a layout change of the proposed pipeline via a letter filed with the Board on March 15, 2018. Enbridge Gas received Board approval for the change request on April 25, 2018. Enbridge Gas' change request and Board approval is provided in Appendix C to this report.

3.4 <u>Condition 6</u>

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 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, licenses, and certificates required to construct, operate and maintain the proposed project.

A Post Construction Report that satisfied the above conditions was completed and submitted to the Board within three months of the in-service date in October 2018.

- 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, the following June 1, which shall:
 - *i.* provide a certification, by a senior executive of the company, of Union 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 Protection Plan filed in the proceeding. Executive certification can be found in Appendix D to this report.

ii. describe the condition of any rehabilitated land;

All disturbed land has been returned to at least pre-construction conditions. This land that was disturbed during construction was successfully re-vegetated and no further clean-up is required. Please see Appendix E for a photo log of the restored land. *iii. describe the effectiveness of any actions taken to prevent or mitigate any identified impacts of construction;*

The mitigation measures taken to address the identified impacts of construction listed in Table 1 of this report were utilized and successful. No additional mitigation measures other than those listed Table 1 were required.

iv. include the results of analyses and monitoring programs and any recommendations arising therefrom; and

No monitoring programs for the Project were recommended or carried out.

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.

Enbridge Gas' Complaint Tracking System, which identifies the current status of complaints received as a result of pipeline construction, was in effect. A complaint is identified as a concern raised by a landowner or member of the public that has not been resolved to their satisfaction within three (3) working days. No complaints were received during construction and therefore a log of complaints was not produced.

During construction, various concerns were raised to Enbridge Gas and their Contractor. These issues were minor in nature and were dealt with by Enbridge Gas and the Contractor in an expeditious manner.

Enbridge Gas will continue to monitor the state of the land and will address any landowner or public concerns should they arise.

4.0 SUMMARY

This Final Monitoring Report has been prepared pursuant to the Conditions of Approval contained in the OEB Decision and Order for the EB-2015-0179 proceeding. The report provides

confirmation that Enbridge Gas has implemented all the recommendations of the Environmental Protection Plan filed in the proceeding. This report also confirms that Enbridge Gas successfully rehabilitated the land disturbed from construction and there are no outstanding concerns. It is anticipated that the mitigation measures and rehabilitation efforts implemented during construction will effectively eliminate any long-term impacts to the environment.

Table 1

Potential Impacts and Mitigation Measures

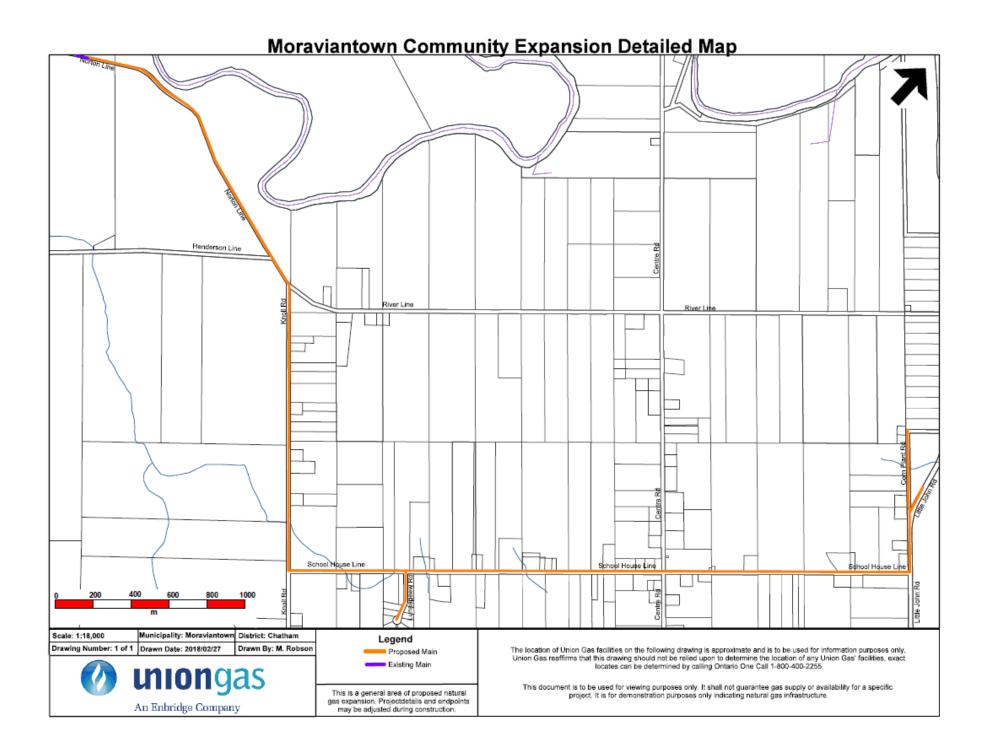
Table 1: Potential Impacts and Mitigation Measures				
Issue	Potential Impact	Mitigation Measure		
Paved/Gravel	Disruption to local traffic,	- All roadways and driveways were		
Driveways and	landowners and tenants	bored if practical.		
Roadways		- If it was not possible to bore driveways		
		and roads, steel plates were on site to		
		provide access to landowners and tenants.		
		The Company kept at least one lane of		
		traffic open during construction and		
		traffic controls were implemented as		
		required.		
		- For driveways that required cutting,		
		the excavation was filled with sand and		
		granular material and compacted.		
		 Driveways were repaired as soon as 		
		possible.		
Traffic	Disruption to local citizens	- At least one lane of traffic was		
	I I I I I I I I I I I I I I I I I I I	maintained at all times.		
		- Flag persons and warning devices were		
		used to notify traffic of construction in		
		accordance with Ministry of		
		Transportation standards.		
Public Safety	Public safety concerns	- Company inspectors ensured public		
		safety on the construction site.		
		- Proper signage and flag persons were		
		used where required.		
Commercial/Retail	Disruption to businesses	- Access to businesses was maintained		
Businesses and		at all times.		
Recreational Areas		- The land around businesses and		
		recreational areas was restored as soon		
		as possible.		
		- Construction was scheduled with		
		business owners or managers when		
Construction Noise	Disturbance to local sitizana	necessary.		
Construction Noise	Disturbance to local citizens	- Construction was carried out during		
		daylight hours whenever possible.		
Nuisance Dust	Disturbance to local citizens	- Equipment was properly muffled.		
Construction	Disturbance to local citizens	Dust was controlled as required.Equipment was stored off road		
Equipment		shoulders when not in use.		
Landowner	Disruption to landowners	 The Company provided the 		
Concerns	(Municipality and First	Municipality and First Nation with the		
Concerns	Nation)	telephone numbers of supervisory		
		personnel.		
Fences	Disruption to landowners	 No fences were removed or damaged 		

Table 1: Potential Impacts and Mitigation Measures			
Issue	Potential Impact	Mitigation Measure	
	Loss of control of animals inside fenced areas	during construction.	
Front Yards	Disruption to landowners and tenants	 Landowners and tenants were notified prior to construction. Lawns and yards were restored to original condition. 	
Mailboxes	Disruption to landowners and tenants	 Landowners were notified of mailbox disruption when required. Mailboxes were restored as soon as possible and temporary alternatives were provided if necessary. 	
Underground Utilities	Disruption of services	 Locates were obtained from all utilities. Any damages to utilities were repaired as soon as possible. 	
Archaeology	Disturbance of heritage resources	 An Archaeological Assessment was completed prior to construction. No artifacts were encountered during construction. 	
Water Wells	Disruption to water supply	 A hydrogeological investigation was conducted prior to construction. No water well problems were reported during construction. 	
Trees	Damage to trees Disturbance to wildlife	- Tree removal did not occur as part of construction.	
Watercourse Crossings	Water quality concerns	 Union adhered to all Company specifications and the Fisheries and Oceans Canada – endorsed Generic Sediment Control Plan for Horizontal Directional Drill for watercourse crossings. 	
Natural Areas	Sedimentation run-off	- Sediment barriers (i.e. silt fencing and filter socks) were used in areas where there was potential for run-off.	
Vegetative Cover	Loss of vegetative cover leading to soil erosion	- Cover was restored by seeding as soon as possible.	
Soils: Erosion	Introduction of sediment/silt to adjacent lands	- Disturbed soils were restored as soon as possible after construction.	
Roadside Ditches	Water quality concerns	 Ditches were returned to pre- construction condition as quickly as possible. Rock rip rap/straw bale check dams 	

Table 1: Potential Impacts and Mitigation Measures			
Issue	Potential Impact	Mitigation Measure	
		were installed as required.	
Spills	Public safety issue	- No spills were identified during construction.	
Contaminated Soils	Dealing with contaminated materials	- No contaminated soils were identified during construction.	
	Public safety issue		
Cemeteries	Disturbance to unmarked grave sites and disruption to services	 Archaeological Assessments were conducted around cemeteries to prevent potential impacts. Construction was suspended during services. 	
Site Restoration	Disturbance to public and private properties	- The construction area was restored as soon as possible upon completion of pipe installation.	

Appendix A

Project Location Map



Appendix B

Conditions of Approval

Leave to Construct Conditions of Approval Application under Section 90 of the *Ontario Energy Board Act, 1998* Union Gas Limited EB-2015-0179

- Union Gas Limited (Union) shall construct the facilities and restore the land in accordance with the OEB's Decision and Order in EB-2015-0179 and these Conditions of Approval.
- 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:
 - of the commencement of construction, at least 10 days prior to the date construction commences;
 - ii. of the planned in-service date, at least 10 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.
- Union shall implement all the recommendations of the Environmental Protection Plan filed in the proceeding.
- 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 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 of any significant variances from the cost estimates filed in this proceeding.
- 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:

- provide a certification, by a senior executive of the company, of Union 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
- provide a certification, by a senior executive of the company, that the company has obtained all other approvals, permits, licenses, and certificates required to construct, operate and maintain the proposed project.
- 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, the following June 1, which shall:
 - provide a certification, by a senior executive of the company, of Union 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 Request and Approval



March 15, 2018

RESS & COURIER

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") Community Expansion Project Board File # EB-2015-0179

Please find attached Change Request #6, 7 and 8, for the above-noted project.

Union believes that these changes are the result of additional field studies which have allowed Union to prepare a more complete and comprehensive piping plan for the communities. The changes are not significant and we would appreciate your timely review and approval of these requests.

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

Sincerely,

[original signed by]

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

cc: Zora Crnojacki, OEB Nancy Marconi, OEB Ritchie Murray, OEB

REQUEST TO VARY

Project Name:	Moraviantown Project Community Expansion Project
OEB file Number:	EB-2015-0179
Request to Vary:	б

Description and Rationale for Change

Union has changed the layout of the Proposed Pipelines to service Little John Road within the boundaries of the Moraviantown Project Area. This request can be completed without changing the Project economics filed as part of Union's pre-filed evidence.

A revised map showing the location where pipelines will be constructed for this Project can be found at Schedule 1.

Construction and Restoration Practices

Union's standard construction practices will be followed for construction of the proposed pipelines.

Environmental

No new environmental mitigation measures will be required.

Consultation

Union has discussed this change with the Moraviantown First Nation who have not identified any concerns with this change.

Lands

No new lands are required as the Proposed Pipelines will be constructed within road allowance.

Costs

Construction of this additional pipeline will increase the Project costs by approximately \$4,000. A DCF analysis for the Project remains above 1.

Schedule

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

Attachments

A drawing showing the location of the proposed pipeline is attached at Schedule 1.

Ontario Energy Board P.O. Box 2319 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 C.P. 2319 27* étage 2300, rue Yonge Toronto ON M4P 1E4 Téléphone: 416-481-1987 Télécopieur: 416-440-7856 Numéro sans frais: 1-888-632-6273



BY E-MAIL

April 25, 2018

Bill Wachsmuth Senior Administrator, Regulatory Projects Union Gas Limited 50 Keil Drive North P.O. Box 2001 Chatham ON N7M 5M1 <u>bwachsmuth@uniongas.com</u>

Dear Mr. Wachsmuth:

Re: Union Gas Limited EB-2015-0179 Community Expansion Project Request to Vary / Change Request Nos. 6, 7 and 8

The Ontario Energy Board (OEB) received your letter dated March 15, 2018, in which Union Gas Limited (Union Gas) requests three variances to the OEB approved Community Expansion Project (Project) - Change Request Nos. 6, 7 and 8. On March 23, 2018, the OEB requested additional information and clarifications. Union Gas filed its responses on March 27, 2018.

Change Request No. 6 pertains to the construction of additional pipeline on Little John Road as part of the Moraviantown portion of the Project. Union Gas confirms that the Environmental Report (ER) for the Project encompassed the location of the proposed main on Little John Road. Union Gas submits that this change will not modify the Project's originally proposed construction and restoration methods, environmental mitigation measures, land use requirements, or schedule. Union Gas has consulted with the Moraviantown First Nation, and they expressed no concerns regarding the proposed change. Union Gas submits that the additional works will result in an increase to the Project budget of approximately \$4,000 but will also increase the number of customers -2-

served and the profitability index of the Project remains greater than 1.0. To the extent that the increase in costs associated with this change results in the Project going over budget, this will be considered when Union Gas seeks to put the assets in rate base.

Change Request No. 7 pertains to Union Gas' inability to complete the Rostock and Wartburg portions of the Project in 2017 due to weather conditions, and its proposal to complete the construction by the fall of 2018. In addition, Union Gas has provided updated maps showing the locations of pipelines that were contemplated in its original leave to construct application but not accurately depicted on the maps filed in that application. Union Gas confirms that the ER for the Project encompassed the locations of the inaccurately depicted pipelines. Union Gas submits that these changes will not modify the Project's originally proposed construction and restoration methods, environmental mitigation measures, land use requirements, project cost or schedule. Union Gas has consulted with the Township of Perth East and the County of Perth, and they expressed no concerns regarding the proposed changes.

Change Request No. 8 pertains to the elimination of three pipeline segments in the Prince Township portion of the Project, and the construction of additional pipeline segments at other locations in that same community. Through additional environmental and engineering reviews, Union Gas has determined that it can avoid two water crossings as well as the installation of pipe on Heywood Road without reducing the number of customers served. In addition, Union Gas has provided updated maps showing the locations of pipelines that were contemplated in its original leave to construct application but not accurately depicted on the maps filed in that application. Union Gas confirms that the ER for the Project encompassed the locations of the inaccurately depicted pipelines. Union Gas submits that these changes will not modify the Project's originally proposed construction and restoration methods, environmental mitigation measures, land use requirements, project cost or schedule. Union Gas has consulted with the Township of Prince, and it expressed no concerns regarding the proposed changes.

As the Manager, Applications Supply and Infrastructure, I have been delegated the authority of the OEB under section 6 of the Ontario Energy Board Act, 1998 to determine whether Union's proposal will result in material changes to the leave to construct granted by the OEB in the EB-2015-0179 proceeding. I have been further granted the authority to approve any changes that I have concluded are not material.

Based on my review of the information provided, I find that the described changes do not materially impact the leave granted by the OEB. I hereby approve the proposed change. Yours truly,

Original Signed by

Nancy Marconi Manager, Applications Supply and Infrastructure

Appendix D

Executive Certification



Moraviantown

EB-2015-0179

I hereby certify Enbridge Gas Inc. has constructed the facilities and restored the land in accordance with the OEB's Decision and Order in EB-2015-0179 and the Conditions of Approval, as per Condition 6 (b).

10/18/2019

Date

Michelleloge

Senior Executive

Condition 6 (b)

6 (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, the following June 1, which shall:

i. provide a certification, by a senior executive of the company, of Union 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.

Condition 3

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

Appendix E

Photograph Inventory



1. Vegetation removal and disturbance was kept to a minimum during construction.



2. The new pipeline was installed the road allowance which minimized disturbance to natural areas.



3. All disturbed areas were returned to at least pre-construction conditions and were successfully rehabilitated.



4. Driveways were crossed via horizontal directional drill where practical to allow continued access during construction.