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September 20, 2023

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Ottawa

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Dear Sirs/Mesdames:

EB-2022-0171
Imperial Oil Limited (“Imperial”)
Post Construction Report
Relocation of the Sarnia Products Pipeline in the City of Hamilton (“Relocation Project”)

On September 15, 2022, the OEB issued its Decision and Order for the above noted proceeding which included, as Schedule A, several Conditions of Approval.

Per Schedule A, Section 6(a), of the aforementioned Decision and Order, Imperial is to provide the Ontario Energy Board with a Post Construction Report within three months of the in-service date of the Relocation Project.

Please find enclosed a copy of the Post Construction Report for the Relocation Project dated September 19, 2023.

Please contact me if you have any questions.

Yours very truly,

Cole Tavener

Cole Tavener

CT:hi
Enclosure

c: Zora Crnojacki (OEB)
Michael Miller (OEB)
Janet Sakauye (OEB)
Thomas Cao (Imperial Oil)
Jessica Mercier (Imperial Oil)
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**Imperial Oil Limited –
Pipeline Relocation Project
Post Construction Report**

Three Month Post Construction Report

September 19, 2023

Prepared for:
Imperial Oil Limited

Prepared by:
Stantec Consulting Ltd.

Project Number:
110905235

Limitations and Sign-off

The conclusions in the Report titled Imperial Oil Limited – Pipeline Relocation Project Post Construction Report are Stantec’s professional opinion, as of the time of the Report, and concerning the scope described in the Report. The opinions in the document are based on conditions and information existing at the time the scope of work was conducted and do not take into account any subsequent changes. The Report relates solely to the specific project for which Stantec was retained and the stated purpose for which the Report was prepared. The Report is not to be used or relied on for any variation or extension of the project, or for any other project or purpose, and any unauthorized use or reliance is at the recipient’s own risk.

Stantec has assumed all information received from Imperial Oil Limited (the “Client”) and third parties in the preparation of the Report to be correct. While Stantec has exercised a customary level of judgment or due diligence in the use of such information, Stantec assumes no responsibility for the consequences of any error or omission contained therein.


This Report is intended solely for use by the Client in accordance with Stantec’s contract with the Client. While the Report may be provided to applicable authorities having jurisdiction and others for whom the Client is responsible, Stantec does not warrant the services to any third party. The report may not be relied upon by any other party without the express written consent of Stantec, which may be withheld at Stantec’s discretion.

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Executive Summary

Imperial Oil Limited (IOL) filed an application with the Ontario Energy Board (OEB) under Section 90 of the *Ontario Energy Board Act*, 1998, S.O. 1998, c. 15, Schedule B for an order granting leave to construct approximately 2 kilometres (km) of 30.48 cm (12-inch) nominal pipe size (NPS) steel natural gas pipeline along their 74 km Sarnia Products Pipeline (the Project). The OEB issued the Leave to Construct (LTC) Decision and Order for the Project along the preferred route under file number EB-2022-0171 on September 15, 2022. The purpose of the Project was to eliminate interference from a segment of its existing Sarnia Products Pipeline with the approved mining operations of Lafarge Canada Inc. (Lafarge).

As part of the LTC EB-2022-0171 Decision and Order, Schedule A - Conditions of Approval 6. a) IOL is required to file a *Post Construction Report* with the OEB within three months of the in-service date and file a *Final Monitoring Report* within 15 months of the in-service date. As reported to the OEB, the Project's in-service date was June 20, 2023, making the filing date for the *Post Construction Report* September 20, 2023. IOL will file a *Final Monitoring Report* with the OEB by September 20, 2024, as per condition 6.b).

The LTC *Conditions of Approval* specifically states that the *Post Construction Report* shall:

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

During construction of the Project, there was ongoing consultation with Lafarge, neighbouring landowners, residents, and other stakeholders. There were no significant (material) changes or modifications to construction methodology from the approved methods identified in the *Environmental Report* (ER; Stantec 2022b) filed with the OEB.

Many of the potential environmental effects were avoided by locating the pipeline within the quarry industrial lands, some of which are temporarily used for agriculture, and previously disturbed municipal road rights-of-way (ROW) to reduce and limit potential impacts to surrounding environmental features. Other potential environmental effects were further reduced by implementing feature-appropriate mitigation measures including conducting vegetation clearing outside of sensitive breeding and active wildlife periods, and proactively re-grading and stabilizing disturbed areas as soon as possible after pipeline installation.



Construction of the Project commenced on January 23, 2023, and continued until the in-service date of June 20, 2023. Construction activities were carried out with consideration for the environment and the residents located adjacent to the construction area. Appropriate mitigation and monitoring measures were implemented during all phases of construction for the Project to assess and minimize potential impacts. Good communication practices and meetings between the Environmental Inspector (EI) and the construction staff were key to conveying an understanding of responsibilities and reducing the likelihood of adverse environmental effects. The monitoring programs did not identify any potential long-term effects because of the Project.

There were no complaints or issues that were identified by IOL. A post construction inspection was conducted by the EI on July 25, 2023. The conclusions of that inspection were that most of the lands along the route were aggregate extraction lands which were left level and stable but unvegetated as requested by Lafarge and the easement lands adjacent to the road allowance on Concession 4 West were stable with vegetation progressing. Generally, the ROW was level and soils were stable, thus limiting the potential for erosion or off-site sedimentation. Monitoring will be conducted in 2024 noting any locations where the further attention is required.

Provided that all outstanding commitments identified in this report are addressed, no significant residual or cumulative effects on environmental and/or socio-economic features are anticipated from the Project.



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Acronyms / Abbreviations

AA	archaeological assessment
CISEC	Certified Inspector of Erosion and Sediment Control
ECB	erosion control blanket
ESC	erosion and sediment control
EI	Environmental Inspector
IOL	IOL Natural Gas Limited Partnership
EASR	Environmental Activity and Sector Registry
EPP	Environmental Protection Plan
ER	Environmental Report
km	kilometers
LTC	Leave to Construct
MECP	Ministry of the Environment, Conservation and Parks
MHSTCI	Ministry of Heritage, Sport, Tourism and Culture Industries
NPS	nominal pipe size
OEB	Ontario Energy Board
ROW	right-of-way
SAC	Spills Action Centre
SAR	species at risk
Stantec	Stantec Consulting Ltd.
TWS	Temporary Workspace



1 Introduction

Imperial Oil Limited (IOL) filed an application with the Ontario Energy Board (OEB) under Section 90 of the *Ontario Energy Board Act*, 1998, S.O. 1998, c. 15, Schedule B for an order granting leave to construct approximately 2 kilometers (km) of natural gas (the Project), see Figure 1. The OEB issued the Leave to Construct (LTC) Order for the Project along the preferred route under file number EB-2022-0171 on September 15, 2022 (OEB, 2022).

As part of the LTC EB-2022-0171 Decision and Order, Schedule A - Conditions of Approval 6. a) IOL is required to file a *Post Construction Report* with the OEB within three months of the in-service date and file a *Final Monitoring Report* within 15 months of the in-service date. As reported to the OEB, the Project's in-service date was June 20, 2023, making the filing date for the *Post Construction Report* September 20, 2023. IOL will file a *Final Monitoring Report* with the OEB by September 20, 2024, as per condition 6. b).

1.1 Scope

This *Post Construction Report* has been prepared in support of the EB-2022-0171 *Decision and Order* (OEB, 2022), detailing the reporting requirements upon completion of the Project and the actual environmental conditions of the right-of-way (ROW) current to September 20, 2023. The scope includes requirements outlined in both the EB-2022-0171 *Decision and Order* and the OEB (2016) *Environmental Guidelines for the Location, Construction and Operation of Hydrocarbon Pipelines and Facilities in Ontario* (7th Edition).

The scope of this *Post Construction Report* will include the following EB-2022-0171 *Decision and Order*, *Attachment A - Condition of Approval* (Condition 6. (a)):

6. *Both during and after construction, Imperial Oil Limited shall monitor the impacts of construction, and shall file with the OEB 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 Imperial Oil Limited 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 Imperial Oil Limited, 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*
- 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 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 Imperial Oil Limited 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*
 - v. *include a log of all complaints received by Imperial Oil Limited, including the date/time the complaint was received; a description of the complaint; any actions taken to address the complaint; and the rationale for taking such action.*

Condition 6. (b) will be addressed during the filing of the *Final Monitoring Report*. Any additional information collected after the September 20, 2023, filing date, will be included in the *Final Monitoring Report*.

This *Post Construction Report* also complies with Section 7.2.2 Monitoring Reports of the *Environmental Guidelines for the Location, Construction and Operation of Hydrocarbon Pipelines and Facilities in Ontario* (8th Edition) (OEB. 2023).

To address the requirements of *Condition of Approval 6. (a)*, this report summarizes:

- The monitoring programs conducted in support of the construction of the Project
- Complaints or issues received by IOL
- The success of mitigation measures
- Outstanding commitments and monitoring requirements

Included in the report are outstanding commitments that require monitoring or resolution, which will be summarized in the *Final Monitoring Report*.



2 The Project

2.1 Project Description

Lafarge will be mining their approved South Quarry Extension lands on the south side of Concession 4 West, Hamilton, ON and therefore, the existing 12" nominal pipe size (NPS) pipeline owned and operated by IOL required relocation. The intent was to relocate the pipeline along Concession Road 4 West primarily within a private easement on lands owned by Lafarge. The rest of the relocation was located within the municipal road ROW, including two road crossings of Concession Road 4 West (Figure 1 Project Overview). Approximately 2 km of new pipe was installed. The OEB issued the LTC Order for the Project along the preferred route under file number EB-2022-0171 on September 15, 2022.

Construction commenced on January 23, 2023, and had an in-service date of June 20, 2023. Interim restoration occurred directly after pipe installation with final restoration conducted during the final stages of construction. At the request of Lafarge, the sections of the route that were on private easements along the borders of their extractive lands were left unvegetated. The other areas included the road ditches of Brock Road and Concession Road 4 West at the crossing locations. Another inspection will be conducted in 2024.

The *Environmental Report (ER; Stantec 2022b)* and permitting process identified various construction timing restrictions to avoid impacts to breeding and sensitive periods for birds, and bats. IOL adhered to these construction timing restrictions.

2.1.1 Supporting Studies for the Project

Conducting the environmental assessment of the Project required desktop and field habitat surveys. The assessment resulted in the identification of a headwater drainage feature; and bat, reptiles and colonial-nesting bird breeding habitat being identified. The results of the assessment were reviewed and mitigation to protect these features was developed and presented in the *ER*.

In support of permitting requirements for the Project, IOL coordinated the execution of additional field studies and surveys as well as the preparation of respective reports to file with the appropriate provincial regulators and to assist with the design, construction, and further development of appropriate mitigation measures. Table 2-1 lists the reports that were generated in support of the Project.



Table 2-1: Studies Completed for the Project

Report Title	Author	Report Date
<i>Imperial Oil Limited Pipeline Relocation Project: Environmental Report. Prepared for IOL.</i>	Stantec Consulting Ltd.	January 6, 2022
<i>Stage 1 Archaeological Assessment, Imperial Oil Limited Pipeline Relocation project. Prepared for IOL.</i>	Stantec Consulting Ltd.	September 1, 2022
<i>Stage 2 Archaeological Assessment: Imperial Oil Limited Pipeline Relocation Project. Prepared for IOL.</i>	Stantec Consulting Ltd.	September 1, 2022

2.2 Modifications to the Project

There were no material changes or modifications to construction methodology from the approved methods identified in the *ER*.

2.3 Environmental Protection Plan

A comprehensive *Environmental Protection Plan (EPP)* (Stantec, 2022a) was developed to address the construction mitigation and reclamation of the Project and applied to the ROW, temporary workspaces (TWS), municipal road allowances, and construction yard. Features and mitigation measures discussed in the *ER* and supplemental permitting and reports were included into the *EPP*. The *EPP* was distributed to supervisory Project personnel including IOL Site Inspectors, EIs, Contractor Foremen and supervisory staff. At the beginning of construction, a presentation was delivered by the EI to the Site Inspector, contractor Foreman and Lead Hand to present the various components of the *EPP* and other environmental permitting commitments.

Environmental Alignment Sheets, included in the *EPP*, provided an overview of environmental features for each segment of the pipeline. The air photo-based mapping illustrated the location of key environmental and socio-economic features both within and adjacent to the pipeline alignment. The *Environmental Alignment Sheets* also identified and described items such as location of any Conservation Authority (CA) regulated areas, wetland and watercourse locations, construction timing windows, vegetation clearing windows, feature crossing methods, wildlife information such as specific fisheries timing windows, archaeological sites and built cultural heritage properties and landscapes.



3 Monitoring Programs

3.1 Construction Monitoring Programs

IOL implemented several programs to monitor potential effects during construction of the Project. The monitoring programs for the Project focused on areas where the *ER* identified potential interactions with the environment. This section describes the monitoring programs implemented during construction of the Project along with a general discussion of the results of each program.

3.1.1 Environmental Inspection Program

IOL contracted Stantec Consulting Ltd. (Stantec) to provide an EI for the Project. Stantec provided a trained EI that was a Certified Inspector of Sediment and Erosion Control (CISEC) with significant experience with monitoring environmental compliance of pipeline projects of similar scope and magnitude. The EI conducted regularly scheduled inspections (weekly) during construction as well as additional inspections during and after major weather events. Each inspection would commence with an announcement of arrival at the construction trailer followed by an update of current activities that day and conclude with informing crew leads of any issues that were noted during the inspection. Following final restoration, the EI conducted a follow-up inspection to observe and report on the post construction conditions of the ROW.

The EI's main responsibilities were to:

- Assist IOL and the contractor with compliance to environmental commitments, undertakings and conditions of environmental permits and approvals.
- Observe and document that mitigation and protection measures were being implemented and maintained to be effective.
- Communicate to workers and inspectors, the environmental sensitivities for the site when the EI was not on-site.
- Observe and document that all work was completed in accordance with applicable environmental regulations and IOL policies, procedures, and specifications.

3.1.2 Groundwater and Surface Water Monitoring

Prior to construction, IOL determined that construction of the Project was not anticipated to potentially require groundwater dewatering discharge in exceedance of 400,000 L/day, so an Environmental Activity and Sector Registry (EASR) from the Ministry of the Environment, Conservation and Parks (MECP) was not required.

No groundwater was encountered during construction of the Project. Pooled water from precipitation events did require pumping. Crews were instructed to always use sediment bags on the end of discharge hoses (see Photos 22, 33). No sediment-laden water from dewatering activities was observed leaving the site.



In the beginning of June, the hydrostatic test was conducted. The source of the water was municipal water trucked-in to the site where it was stored in weir tanks (See Photo 25). After the hydrostatic test was successfully completed, the test water was pumped back into the weir tanks, de-chlorinated and released into a sediment basin constructed on lands owned by Lafarge (See Photos 26 and 27). No issues were identified.

3.1.3 Well Monitoring

Only one house, owned by Lafarge, was located along the route, at 799 Concession 4 West. A water well monitoring program was not required for that house. No other water wells were identified within 50 m of the route.



4 Mitigation Measures and Compliance

The following section outlines the primary mitigation measures implemented during construction. These measures were implemented to reduce the potential of environmental and socio-economic effects from construction of the Project and to identify and rectify any deviations from the proposed mitigation measures initially identified in the ER. See Appendix B (Photos 25-30, 33, 34 38-42) for photos of mitigation measures implemented throughout construction.

4.1 Pipeline and Facilities Construction

Good communication and regularly scheduled meetings during construction between IOL supervisory and inspection staff, the Contractor, and the EI, was key to review proposed work, understand responsibilities, and discuss opportunities for the reduction of potential adverse environmental effects.

Many of the potential environmental impacts were avoided by locating the Project within the previously disturbed municipal ROWs. Other potential adverse environmental effects were reduced by implementing appropriate mitigation measures and best management practices including observing construction timing windows and reducing potential interactions during sensitive breeding and active periods; implementing, inspecting, and maintaining appropriate erosion and sediment control (ESC) measures; and proactively reclaiming disturbed areas as soon as possible following construction.

4.1.1 Agriculture

The agricultural lands crossed by the project were owned by Lafarge and now have a private easement. The easement lands are adjacent to their lands that are planned for extraction of the underlying bedrock resources.

A.1.1 Wildlife

4.1.1.1 Migratory Bird Nesting Surveys

Since construction was scheduled to begin in January and continue into the summer months, vegetation disturbance was done outside of the migratory bird nesting restricted activity period (April 1 to August 31) (Photo 41). No nesting surveys were required.



4.1.1.2 Reptiles and Amphibians

No potential habitat for the reptiles and amphibians listed as potentially in the Study Area (e.g., deciduous forest or wetlands) was found along the construction route. No active nests or species were observed during construction.

4.1.1.3 Species at Risk

The *ER* identified 13 Endangered or Threatened species at risk (SAR) which could potentially be found within the Study Area for the Project. Project construction avoided sensitive SAR habitats wherever possible by placing the pipeline within the previously disturbed municipal ROW and adjacent disturbed private lands which significantly reduced potential conflicts with SARs.

No buildings or structures such as bridges were disturbed or removed which avoided potential disturbances to SAR bats and barn swallow habitat. Additionally, cutting of potential SAR bat roosting habitat, (i.e., mature, or dead trees), was avoided between April 30 and October 1. No SAR species were encountered during the construction.

4.1.2 Aquatic Species and Watercourse Crossings

No regulated watercourses or aquatic species were identified along the construction route.

4.1.2.1 Horizontal Directional Drilling

The road crossings and driveways were open cut for the pipeline relocation. Most of the trench was dug by excavator (Photo 36). Bedrock encountered in the middle of the site was ground away to trench depth using a bedrock grinder (Photo 24). Horizontal directional drilling (HDD) was not used on the project.

4.1.3 Wetland Crossings

There were no wetlands crossed by the pipeline relocation.

4.1.4 Archaeology

The archaeological work for the Project was completed in accordance with the Ministry of Heritage, Sport, Tourism and Culture Industries (MHSTCI) 2011 *Standards and Guidelines for Consultant Archaeologists*. Stage 1 and Stage 2 archaeological assessments (AA) were conducted for the Project to assess and survey the preferred route and TWS required to facilitate construction. The Stage 1 and 2 archaeological work for the Project was documented in separate AA reports submitted to the MHSTCI for review and inclusion in the *Ontario Public Register of Archaeological Reports (Stage 1 Archaeological Assessment, IOL Pipeline Relocation Project (Stantec, 2022c) and Stage 2 Archaeological Assessment, IOL Pipeline Relocation Project (Stantec, 2022d))*.

The Stage 1 and Stage 2 AAs conducted for the Project were submitted and accepted for registry with the MHSTCI.



4.1.5 Spills and Debris

No spills were reported to or identified by the EI. Pumps and portable generators were protected with secondary containment devices (Photos 29 and 34). There were no spills communicated to the MECP Spills Action Centre.

All garbage and debris were immediately removed from the construction site. Each contractor's vehicle had a bag or bin to accept and contain rubbish. Sand blast sand was collected on plywood and removed from the site. The extra epoxy coating used to coat the welded joints was captured on drip trays or plywood sheets so that any material dripping from the welded joints would not reach on the ground surface (Photo 30).

4.2 Local By-Law Issues and Non-Compliances

During construction, IOL did not record any issues regarding local by-laws. Frequent contact was maintained with the local municipalities as a best practice.



5 Current Condition of the Right-of-Way

Photos of the current condition on July 25, 2023, can be found in Appendix B, Photos 1-24. The site was left in a suitably stable condition. At the time of the post construction inspection, there were tasks that remained outstanding. Tasks uncompleted at the time of the inspection are discussed below.

Backfilling and restoration of grades along the site was progressive throughout construction. Once installation was completed, the site was re-graded as soon as practical to match pre-existing conditions and the topsoil replaced where it had been salvaged during stripping (Photo 40). Appropriate ESC measures were implemented as needed, and sloping areas were seeded and covered with erosion control blankets (ECB) (Photo 38) where necessary to help stabilize soils and establish vegetation.

Since construction was completed by open trenching techniques, potential areas of settlement are anticipated. To date, there are no outstanding observations of significant settlement or erosion along the ROW which would require additional restoration. There were no stability concerns or sedimentation risks. The ROW will be assessed for settlement and stability in 2024.

Two minor tasks were noted on the site during the inspection on July 25, 2023. A silt bag was found remaining in the road ditch in front of the construction yard (Photo 22). This was missed during clean-up and has been removed. The perimeter silt fence remained in place in several locations around the site (Photos 22, 23, 24). The perimeter fence remains and will be reassessed in 2024.

Overall, the ROW is in an excellent, stable condition. If the assessment in 2024 identifies additional areas that require restoration, efforts should be taken to complete them in a timely manner so that vegetation establishment can occur during the appropriate season. Periodic monitoring will continue in 2023 to assess vegetation establishment on these areas. The results will be included in the *Final Monitoring Report*.



6 Stakeholder Relations and Complaint Management

During the planning stages of the Project, IOL went through an engagement process with directly impacted landowners. During these pre-construction communications, directly impacted landowners were given the opportunity to provide feedback and complaints. Additionally, design and construction scheduling were made available to interested parties throughout construction.

IOL continued to work closely with the local municipality, Agencies and stakeholders, as necessary. IOL also coordinated closely with utility companies and adjacent landowners on various aspects of the Project.

As a requirement of the LTC for the Project, IOL was to track and respond to comments and complaints received throughout the duration of the construction period. This section is designed to document the complaints tracking and management process and the steps taken by IOL to resolve them. However, no complaints were received by IOL during construction.

6.1 Recording and Response Process

Prior to construction, an IOL Company representative was identified to receive and address comments and/or complaints regarding the Project. The IOL representative's name and contact information was clearly posted in a prominent location at the construction site so that all comments and /or complaints would be directed to them. No complaints were received by IOL during construction. If a complaint was received, IOL would have recorded the details and tracked the activities leading to the resolution of the complaint. The process would have involved recording the correspondence between the complainant and IOL of efforts made to reach a resolution. Actions to reach a resolution would have been tracked and followed up by IOL to confirm resolution.

6.2 Summary of Complaints

IOL did not receive any complaints regarding the Project. Therefore, IOL did not include a *Complaints and Resolutions Log* in this report. If a complaint is received after the filing of this *Post Construction Report*, it will be added to a *Complaints and Resolutions Log* for the Project.



7 Outstanding Commitments

7.1 Restoration

Restoration and re-grading were ongoing throughout construction. Supplemental restoration may include some minor re-grading and re-seeding in 2023.

7.2 Monitoring Programs

To comply with the LTC *Conditions of Approval* for the Project, IOL will file a *Final Monitoring Report* with the OEB by September 20, 2024, which will include a monitoring site visit in summer 2024 to inspect the revegetation and general conditions of the ROW.



8 Executive Certification

To comply with the LTC *Conditions of Approval* for the Project, IOL has attached an executive certification to this report in Appendix D.



9 References

Ministry of the Environment, Conservation and Parks MECP). 2007. *Spills Reporting - A Guide to Reporting Spills and Discharges* (May 2007).

Ontario Energy Board (OEB). 2023. *Environmental Guidelines for the Location, Construction and Operation of Hydrocarbon Pipelines and Facilities in Ontario 8th Edition*.

OEB. 2022. EB-2022-0171 Imperial Oil Limited. *Leave to Construct the Project - Schedule A Decision and Order*. September 15, 2022.

Stantec. 2022a. *IOL: Millgrove Pipeline Relocation Project Environmental Protection Plan*. Prepared for IOL, December 7, 2022.

Stantec. 2022b. *Imperial Oil Limited Pipeline Relocation Project: Environmental Report*.

Stantec. 2022c. *Stage 1 Archaeological Assessment, Imperial Oil Limited Pipeline Relocation project*. Prepared for IOL.

Stantec. 2022d. *Stage 2 Archaeological Assessment: Imperial Oil Limited Pipeline Relocation Project*. Prepared for IOL. September 1, 2022.



Appendices



Appendix A Figure 1

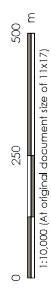


Figure 1: Project Overview– IOL Pipeline Relocation



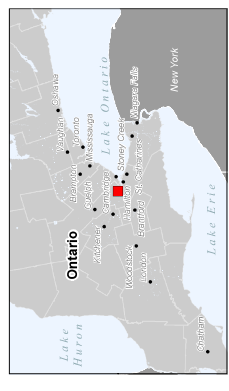


- Legend**
- Tie In Location
 - Existing Pipeline
 - Proposed Pipeline
 - Project Study Area
 - Road
 - Watercourse
 - Lot Boundary
 - Waterbody



Notes

- Coordinate System: NAD 1983 UTM Zone 17N
- Base features produced under license with the Ontario Ministry of Natural Resources and Forestry
- Orthoregion of 1:100,000, 2022, Imagery Date: 2021



Client/Project
Imperial Oil
Pipeline Relocation Project

Project Location
City of Hamilton

110904552, REV A
Prepared by SFE on 2022-11-29

Figure No.
1

Title
Project Location



Disclaimer: Stantec assumes no responsibility for data used in this document. The recipient assumes full responsibility for verifying the accuracy and completeness of the data. The recipient assumes full responsibility for any and all claims arising in any way from the content or omission of the data.

Appendix B Photolog





Photo 1: Project take-off at 600 Brock Road West side, ON
July 25, 2023 – Facing north.



Photo 2: Project take-off at 600 Brock Road West side, ON
July 25, 2023 – Facing west.



Photo 3: Project take-off at 600 Brock Road West side, ON.
July 25, 2023 – Facing northwest.



Photo 4: East side of 600 Brock Road, ON.
July 25, 2023 – Facing east.



Photo 5: East side of 600 Brock Road, ON. July 25, 2023 –
Facing north.



Photo 6: Northeast corner of Brock Road and Concession Road
4 West. July 25, 2023 – Facing south.



Photo 7: North side of Concession Road 4 West at Brock Road. July 25, 2023 - Facing west.



Photo 8: North side of Concession Road 4 West, middle of site. July 25, 2023 - Facing west.



Photo 9: House on north side of Concession 4 West middle of site. July 25, 2023 - Facing north.



Photo 10: North side of Concession Road 4 West, middle of site. July 25, 2023 - Facing east.



Photo 11: North side of Concession Road 4 West. July 25, 2023 - Facing north.



Photo 12: Second undercrossing of Concession Road 4 West. July 25, 2023 - Facing west.



Photo 13: Drainage across pipeline on north side of Concession Road 4 West, middle of site. July 25, 2023 – Facing south.



Photo 14: Drainage across pipeline on north side of Concession Road 4 West, middle of site. July 25, 2023 – Facing west.



Photo 15: North side of Concession Road 4 West, middle of site. July 25, 2023 – Facing east.



Photo 16: Beside Cemetery on Concession Road 4 West. July 25, 2023 – Facing east.



Photo 17: East of cemetery on Concession Road 4 West. July 25, 2023 – Facing southwest.



Photo 18: Construction trailer remained in the yard on Concession Road 4 West. July 25, 2023 – Facing east.



Photo 19: Construction yard on Concession Road 4 West was cleared out. July 25, 2023 – Facing south.



Photo 20: Topsoil pile remained after clearing out the yard. July 25, 2023 – Facing west.



Photo 21: Pipeline crossing over quarry conveyor location by Concession Road 4 West. July 25, 2023 – Facing east.



Photo 22: Silt bag remained in ditch of Concession Road 4 West by construction yard. July 25, 2023 – Facing west.



Photo 23: Eastern pipeline tie-in point. July 25, 2023 – Facing south.



Photo 24: Eastern Tie-in point. Perimeter silt fence remained. July 25, 2023 – Facing east.



Photo 25: Weir tanks to hold hydrostatic test water. June 6, 2023 – Facing north.



Photo 26: Sediment basin for hydrostatic test water discharge. June 6, 2023 – Facing west.



Photo 27: Sediment basin for hydrostatic test water discharge. June 6, 2023 – Facing south.



Photo 28: Dewatering of ponded water. May 19, 2023 – Facing south.



Photo 29: Portable generator with spill protection in place. May 8, 2023 – Facing north.



Photo 30: Plywood to catch drips and sand. January 30, 2023 – Facing east.



Photo 31: Bedrock grinder in action. March 7, 2023 – Facing north.



Photo 32: Trench dug by grinder. March 3, 2023 – Facing east.



Photo 33: Sediment bag for pumping water. February 10, 2023 – Facing south.



Photo 34: Portable generator protected from spills. February 10, 2023 – Facing south.



Photo 35: Trench dug by excavator. February 17, 2023 – Facing west.



Photo 36: Digging trench with excavator. March 7, 2023 – Facing south



Photo 37: Undercrossing of quarry infrastructure. May 8, 2023 – Facing northeast.



Photo 38: Erosion control matting installed to protect grades. June 13, 2023 – Facing east



Photo 39: Vegetation re-establishing on site. June 26, 2023 – Facing west.



Photo 40: New pipe was backfilled, and site was re-graded. March 17, 2023 – Facing east.



Photo 41: Branches cut outside bird window. January 20, 2023 – Facing east.



Photo 42: Silt fence was installed early in construction. January 20, 2023 – Facing north.

Appendix C Complaint and Resolution Log (Placeholder)



Appendix D Executive Certification




Lafarge Pipeline Relocation Project
EB-2022-0171
Decision and Order

I hereby certify that Imperial Oil Limited has constructed the facilities and restored the land in accordance with the OEB's Decision and Order (EB-2022-0171), Schedule A, Condition 6(a), with the following exceptions:

- (i) Imperial Oil Limited cannot find a record of notifying the Ontario Energy Board of the planned in-service date at least 10 days prior to the facilities going into service (as required by Schedule A, Condition 2(b)(ii)); and
- (ii) Imperial Oil Limited notified the Ontario Energy Board of the in-service date 29 days after the facilities went into service (as opposed to within 10 days as required by Schedule A, Condition 2(b)(iv)).

September 19, 2023

DocuSigned by:

CG4832BEOA6F4B7...

Imperial Regional Projects Inc.

Date

Name and Title of Signee

Condition 6(a)(i).

6. Both during and after construction, Imperial Oil Limited shall monitor the impacts of construction, and shall file with the OEB an electronic copy (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 Imperial Oil Limited 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 Imperial Oil Limited, 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
- 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

Condition 1

Imperial Oil Limited shall construct the facilities and restore the land in accordance with the OEB's Decision and Order in EB-2022-0171 and these Conditions of Approval.

Appendix E Conditions of Approval



**Leave to Construct Application under
Section 90 of the OEB Act**

**Imperial Oil Limited
EB-2022-0171
Conditions of Approval**

1. Imperial Oil Limited shall construct the facilities and restore the land in accordance with the OEB's Decision and Order in EB-2022-0171 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) Imperial Oil Limited shall give the OEB notice in writing:
 - i. 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
 - iv. of the in-service date, no later than 10 days after the facilities go into service
3. Imperial Oil Limited shall obtain all necessary approvals, permits, licences, certificates, agreements and rights required to construct, operate and maintain the Project.
4. Imperial Oil Limited 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.
5. Imperial Oil Limited shall advise the OEB of any proposed change to OEB-approved construction or restoration procedures. Except in an emergency, Imperial Oil Limited 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.
6. Both during and after construction, Imperial Oil Limited shall monitor the impacts of construction, and shall file with the OEB 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 Imperial Oil Limited 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 Imperial Oil Limited, 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
 - 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 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 Imperial Oil Limited 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
 - v. include a log of all complaints received by Imperial Oil Limited, including the date/time the complaint was received; a description of the complaint; any actions taken to address the complaint; and the rationale for taking such action.
7. Imperial Oil Limited shall designate one of their employees as project manager who will be the point of contact for these conditions and shall provide the employee's name and contact information to the OEB and to all affected landowners and shall clearly post the project manager's contact information in a prominent place at the construction site.