

**Enbridge Pipelines Inc.
Application for the Line 10 Westover Segment Replacement Project
Hearing Order OH-001-2016 File No. OF-Fac-Oil-E101-2015-09-02**

Undertaking – See Paragraphs 1258 and 1259

**Response to Undertaking given by Mr. Laybolt to Ms. Haug at Transcript Volume 3,
Paragraphs 1258 and 1259**

Undertaking:

To update the relevant pages of the Line 10 Map Book.

Response:

Please refer to Attachment 1 to Undertaking at Paragraph 1258.

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Undertaking U-1

Response to Undertaking U-1 given by Mr. Neufeld to Ms. Haug at Transcript Volume 3, Paragraph 1270

Undertaking:

To provide a breakdown of temporary workspace and permanent easement that will affect the 14 hectares of woodlands.

Response:

Based on the latest route file with the NEB, the following area of woodland is proposed to be removed:

- 2.61 ha within the permanent easement ("PE");
- 11.03 ha within the temporary workspace ("TWS"); and
- 13.64 ha total.

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Undertaking U-2

Response to Undertaking U-2 given by Mr. Neufeld to Ms. Haug at Transcript Volume 3, Paragraph 1283

Undertaking:

To provide the mount of woodland located within the project vegetation RSA and what percentage of this will require clearing for the project.

Response:

In response to Undertaking U-2, Enbridge is providing the percent of woodlands that will be disturbed as a result of the Project within the Regional Study Area ("RSA") defined for the Environmental and Socio-Economic Assessment (i.e., 2 km on both sides of the centre line).

The total area of the Vegetation RSA is approximately 14,793 ha and the total area of woodlands located in the Vegetation RSA is approximately 1,993 ha. The amount of woodlands that will be disturbed as a result of the Project is approximately 13.6 ha or 0.7% of woodlands in the Vegetation RSA that will be disturbed.

Please refer to Attachment 1 to Undertaking U-2.

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Undertaking U-3

Response to Undertaking U-3 given by Mr. Neufeld to Ms. Haug at Transcript Volume 3, Paragraph 1291

Undertaking:

To consider the conclusion as to significance changed in light of the answer in Undertaking 2 with respect to vegetation RSA.

Response:

CH2M Hill confirms that the previous conclusions regarding the significance of impacts due to vegetation clearing remain the same.

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Undertaking U-4

Response to Undertaking U-4 given by Mr. Laybolt to Mr. Kelly at Transcript Volume 3, Paragraph 1417

Undertaking:

To provide details pertaining to the diameter of the pipeline over its entire length to its terminus as the refinery.

Response:

Please refer to Attachment 1 to Undertaking U-4.

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Undertaking U-5

**Response to Undertaking U-5 given by Mr. Houncaren to Mr. Lytle at Transcript
Volume 3, Paragraph 1498**

Undertaking:

To provide more information on cyber security, specifically on the PLC protection.

Response:

Enbridge has robust cyber security controls in place to ensure the protection of critical control system infrastructure, including the protection of network connectivity from the remote programmable logic controllers ("PLCs") to the Control Center. Firewalls have been installed at each pump station and terminal to safeguard our Control Systems infrastructure. Enbridge has also segregated the Controls Network from the Business Network, effectively blocking general access and communications between the two networks. Remote access to the Controls Network and the connected Industrial Control System ("ICS") devices is restricted to authorized personnel only through the use of secured VPN connections. All communications to and from the internet are blocked. Corporate firewalls are in place to protect the Control Centre, allowing access to authorized traffic only. Control System traffic from remote terminal units through to the SCADA hosts is encrypted.

The network traffic on the Controls Network is monitored 24x7x365 for malicious activity related to cyber security. This activity can include things such as data exfiltration, communication to known bad threat actors, and malicious software running in our environments. Enbridge subscribes to the latest cyber security threat intelligence services to provide forward looking insight into potential threats that may impact our environment. In the event we detect malicious behavior, we have a team of incident responders that can respond and act appropriately to the incident.