

Subject: RE: Question regarding Shut off Valves for Grand and Nith River
From: Margery Fowke (Margery.Fowke@enbridge.com)
To: butterflybluelu@rogers.com;
Date: Wednesday, April 3, 2013 10:20:57 AM

Ms. Lanteigne,

Thank you for your email and the information you provided to us. Please see the responses to your follow-up questions below.

1. Will Enbridge still be installing the three additional shut-off valves along Line 9 that it was required to install as part of the Line 9A proceeding, given the changes to the Navigable Waters Protection Act?

Response:

Enbridge was not required to install any additional shut-off valves along Line 9 as part of the NEB's approval of the Line 9 Reversal Phase I Project. The remote-controlled valves discussed in the Line 9A proceeding were not included in the scope of work for the Line 9A project. As Enbridge stated in the 9A proceeding, Enbridge's Operational Risk Management liquid mainline risk assessment model had identified the need for remote-controlled valves and had determined that remote-controlled valves were needed regardless of whether the pipeline was reversed or not.

While Enbridge has applied its Intelligent Valve Placement ("IVP") methodology to examine the potential placement of the automated valves along Line 9A, Enbridge is still in the process of evaluating the location of these valves in accordance to CSA Z662-11.

However, Enbridge does not propose to change its IVP methodology with recent changes to the *Navigable Waters Protection Act*.

2. With the flow reversal of Line 9B will Enbridge be installing any new shut off valves along the Grand and Nith Rivers other than the current isolation valve on the east side of the Grand River and isolation valve 4.8 km (3 miles) west of the Nith River?

Response:

The Enbridge IVP methodology is used on the Enbridge system to confirm the appropriateness of current remote-controlled valves locations and to determine where new ones are needed. This is an ongoing process conducted as part of Enbridge's operation and maintenance activities and fully complies with the Board's *Operation and Maintenance Activities Regulation*. The installation and use of such valves is an effective measure that contributes to the safe operation of the pipeline and the protection of the environment.

As part of the IVP methodology, Enbridge is currently looking at installing a valve on the west side of the Grand River in 2013. This work would be independent of the Line 9B Reversal and Line 9 Capacity Expansion Project.

Yours sincerely,

Margery Fowke

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ENBRIDGE

This e-mail is sent by legal counsel and contains information that may be privileged and confidential. If you are not the intended recipient, please delete this e-mail and notify us immediately.

From: Louisette Lanteigne [mailto:butterflybluelu@rogers.com]
Sent: Wednesday, March 06, 2013 2:50 PM
To: Margery Fowke
Subject: Question regarding Shut off Valves for Grand and Nith River

Hi Ms. Fowke

Thanks for your response regarding my inquiry of the shut off valves along the Grand. It is greatly appreciated.

The NEB already gave the approval for the Enbridge Line 9 pipeline reversal for phase 1, from Sarnia to Westover back in August 2012 before Omnibus bill C-45 removed the Navigable Waters Act status from the Nith and Grand River in November. The Omnibus Bill's outcome is that it negated the need to install shut off valves for oil pipes crossing tributaries. Procedurally I'm wondering if Enbridge is bound to still install those shut off valves seeing that the NEB gave their OK during the time the Navigable Waters Act was still in effect. In my view we really need those valves in there, particularly with the nature of flooding we've had along the Nith River.

Here is a GRCA document regarding flood risks along the Nith: <http://www.grandriver.ca/flooding/NewHamburgFlood.pdf>

A new report presented to the City of Toronto predicts Toronto will see drastically more heat waves and rainfall in 2040. The report findings noted that there will be 80% more summer rain in July and 50% more

rain in August. Extreme rain events will almost triple in size to 166 mm in 24 hours from the current 66mm so we must prepare for floods. To view this report visit here;

<http://www.toronto.ca/legdocs/mmis/2012/pe/bgrd/backgroundfile-51653.pdf>

Previously in your response you stated:

Enbridge has an isolation valve on the east side of the Grand River and an isolation valve 4.8 km (3 miles) west of the Nith River.

These precautionary features were worked in when the oil flow was going east to west. Will we see the placement of new shut off valves along the Grand and Nith Rivers to address the reversal of the flow in compliance with the Navigational Waters Act that was in effect at the time the NEB approval or is Enbridge intending to keep the pipe as is?

It is my hope new valves will be placed to address our ever increasing flood and erosion risks.

Thank you kindly for your time.

Louissette Lanteigne

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From: Margery Fowke <Margery.Fowke@enbridge.com>
To: "butterflybluelu@rogers.com" <butterflybluelu@rogers.com>
Sent: Tuesday, March 5, 2013 11:35:05 PM
Subject: RE: Two brief questions regarding Enbridge Line 9 & tips to prevent leaks

Ms Lanteigne,

Thank you for your questions regarding Line 9. Frank is no longer working on this project, so he forwarded your email to me for response. Please see the responses to your question below.

1. Is there currently a shut off valve for where Line 9 crosses the Nith and Grand Rivers?

Response: Enbridge has an isolation valve on the east side of the Grand River and an isolation valve 4.8 km (3 miles) west of the Nith River.

2. Where is Enbridge's closest emergency response team should there be a spill in Waterloo Region? Would that be Flamborough?

Response: Enbridge has an emergency response team in Flamborough. That is the closest response team.

Thank you also for the information you provided us. The effort you put in and the work you do are much appreciated.

Yours sincerely,

Margery Fowke
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From: Louisette Lanteigne [<mailto:butterflybluelu@rogers.com>]
Sent: Friday, February 15, 2013 05:37 PM
To: Frank Dumford
Subject: Two brief questions regarding Enbridge Line 9 & tips to prevent leaks

Hello Mr. Dumford

I'm working on comments regarding the Ontario Source Water Protection Act and I had two questions regarding Enbridge Line 9 reversal phase 1 which the NEB approved.

1. Is there is currently a shut off valve for where Line 9 crosses the Nith and Grand Rivers?
2. Where is Enbridge's closest emergency response team should there be a spill in Waterloo Region? Would that be Flamborough?

Any information you can provide would be greatly appreciated. It might help us to create a tighter spills response plan at the local level.

Also I created a power point to help prevent oil pipeline leaks. This is just general information that I put together addressing Artic pipeline issues, earthquake risks and the kind of welds we need to prevent leaks. Basically it's preventative concepts based on information I researched online. I thought it might come in