

Appendix H

Pembina Infrastructure and Logistics LP's Project Specific Information Package



File #:

Project Specific Information Package Corunna Storage Terminal – Approval to Store Hydrocarbons in Salt Solution Mined Caverns

Pembina Infrastructure and Logistics LP ("Pembina"), by its wholly-owned subsidiary and general partner 1195714 Alberta Ltd., plans to make application to the Ontario Ministry of Natural Resources and Forestry ("MNR") for:

- Conversion of Cavern 45 in 2015 by abandoning the current entry well and drilling two new entry wells; and
- Expansion of Pembina's current storage capacity in existing Salt Solution Mined Caverns, by converting 10 currently unused Salt Solution Mined Caverns to hydrocarbon storage within the next fifteen years.

The *Oil, Gas and Salt Resources Act, R.S.O. 1990, c P.12* requires parties whose rights may be directly and/or adversely affected by the nature and extent of proposed projects to be consulted and/or notified of project specific details.

Project Description

Pembina is committed to full disclosure of its planned projects so that landowners, occupants, Crown disposition holders, local and urban authorities, Aboriginal communities and other groups or individuals with interests in the area are informed of the activities being proposed. The following table summarizes Pembina's plans regarding the above noted project (the "Project").

If you require any additional information or would like to talk with a Pembina representative regarding this project, please do not hesitate to call the contact listed at the end of this handout.

Location	The Corunna Storage Terminal is located in Concession XI and XII, Lot 23 and 24, St. Clair Township – County of Lambton. A map showing the project location is attached.
Project Description	Cavern 45 will be a single cavern with two entry wells (Wells BR-45 and HC-45). One well will be used for injecting and removing brine while the other well will be used for injecting and removing hydrocarbons. The installation of two wells into a cavern provides for greater efficiencies in flow, pump horsepower and operation. Upon completion of drilling Wells BR-45 and HC-45, Cavern 45 is proposed to store hydrocarbons as per CSA Z341.2: Storage of Hydrocarbons in Underground Formations. Pending regulatory approval, Wells BR-45 and HC-45 will be drilled into the B2 salt formation. Surface casing will be run and cemented on the circumference of Wells BR-45 and HC-45 to protect groundwater aquifers. Wells BR-45 and HC-45 will both be drilled to approximately 600 mKB with the production casing cemented from 600 mKB to surface to isolate all formations.

Cavern 45

Project Need	This application is in response to a new business development and compliments Pembina's overall business model for the extraction, fractionation, storage, transportation and marketing of liquefied petroleum gases ("LPGs"), which in addition to being used as feedstock for refineries and petrochemical facilities in Ontario and surrounding regions, LPGs are also used by the general public throughout North America for home heating and cooking. It is therefore expected that the Project would positively impact Ontario's economy through such direct and indirect benefits. The intention of the Project is to fully utilize unused cavern space over the next 15 years to the mutual benefit of Pembina's stakeholders and the general public.
Substance Type	It is proposed that Cavern 45 will be utilized to store propane.
Project Schedule and Duration	Pending regulatory approval, drilling of Wells BR-45 and HC-45 is to occur in April, 2015 and will last approximately 20 days per well. Pembina anticipates Cavern 45 becoming operational in late 2015.
Traffic	As with any construction project, Pembina expects some construction noise associated with drilling Wells BR-45 and HC-45 as well as increased traffic in the area during construction of Cavern 45 due to the movement of equipment and construction personnel to and from the construction sites. The increase in traffic will be minimal and temporary.
Noise	If there are concerns regarding excessive noise during construction they should be reported to one of the contacts listed at the end of this information package.
Setbacks	<p>As with all facilities, there are minimum setback distances required between an energy facility and a dwelling, public facility, rural housing project or urban centre. Setbacks prevent populated areas from developing too close to energy facilities and prevent energy facilities from getting too close to people.</p> <p>Wells BR-45 and HC-45 will be drilled within Pembina property boundaries and will not impact or create any setbacks on adjacent lands.</p>
Odours/Emissions	Pembina does not expect any odours from drilling activities associated with the Project. Possible intermittent emissions may originate during drilling from diesel electric power generation, heavy duty diesel vehicles and normal light duty gasoline vehicles. We ask that any unusual odours be reported immediately to our local operations representative or our 24-hour emergency number, 1-519-862-3561. We will promptly investigate and ensure any problems are corrected.
Continuous Venting/Flaring	There will be no continuous permanent flaring associated with Cavern 45. Temporary flaring will only occur as part of routine maintenance operations, or infrequently as a safety measure during an unexpected event.

Cavern 45

Emergency Response Plan	<p>Pembina is committed to protecting the health and safety of the public as well as of its employees and contractors. Operations will be conducted in strict accordance with good oilfield practices and in compliance with all applicable technical and safety standards and regulations. Pembina personnel are trained to recognize hazards and deal with emergency situations, so that any abnormal situation that might arise can be quickly detected and corrected.</p> <p>Pembina currently has an Emergency Response Plan (“ERP”) in place for its Corunna Terminal. A hazard area will be modeled for the new cavern, and this information will be added to the existing ERP. Area stakeholders will be advised of emergency response procedures and public protection measures.</p>
Safety / Environment	<p>Pembina is committed to safety and environmental stewardship throughout the life of this Project and all our projects. We have a strong reputation for constructing and operating facilities designed to meet or exceed MNR safety and environmental protection guidelines and regulations. Pembina commits to continue to meet or exceed these guidelines and regulations as they relate to this Project.</p> <p>Pembina encourages a workplace that places a high priority on the health and safety of employees, contractors and the public at large, and ensures our facilities meet the highest standards.</p>

Additional Information

Thank you for taking the time to read this handout. If you have questions or concerns, please do not hesitate to contact the Pembina representative listed in the Contacts section below.

You are encouraged to contact Pembina or the MNR directly through their website or by telephone to obtain additional information pertaining to oil and gas operations.

MNR ONTARIO MAIN OFFICE

Ministry of Natural Resources and Forestry

659 Exeter Road

London, Ontario N6E 1L3

Toll Free Phone: 1-800-667-1940

Website: <https://www.ontario.ca/ministry-natural-resources-forestry>

Contacts

If you have questions or concerns, please do not hesitate to call the Pembina representative listed below. If you are calling outside of business hours, please leave a message and a representative will return your call on the next business day. **If this is an emergency please contact the Pembina 24 Hour Emergency Number at 1-519-862-3561.** Please note this number is for emergencies only.

Surface Landman, Peter Miles directly at (403) 231-3157

Pembina 24 Hour Emergency Number: 1-519-862-3561

