

Proposed Changes to the Tables of Drinking Water Threats Established under the Technical Rules – December 2017

Clean Water Act, 2006

The following changes are proposed to the Tables of Drinking Water Threats:

1. Within the table of contents for Table 1 – Drinking Water Threats - Chemical, the addition of the following prescribed drinking water threat: “The establishment and operation of a liquid hydrocarbon pipeline”. This threat is proposed to have the following short form names, which represent three subcategories of the prescribed drinking water threat:
 - a. Pipelines above ground
 - b. Pipelines below ground
 - c. Pipelines under a water body

2. The addition of circumstances to Table 1 – Drinking Water Threats – Chemicals for the new prescribed threat “The establishment and operation of a liquid hydrocarbon pipeline”.
 - a. Each of the pipeline circumstances are proposed to contain the following:
 - i. The conveyance of a liquid hydrocarbon by way of a pipeline within the meaning of Ontario Regulation 210/01 under the Technical Standards and Safety Act, or that is subject to the National Energy Board Act.
 - ii. The pipeline is designated for transmitting or distributing to terminals and distribution centres.
 - iii. The rupture and release from the pipeline may result in the presence of a chemical in groundwater or surface water. The chemicals proposed for inclusion are: Petroleum Hydrocarbons F1 (nC6-nC10); Petroleum Hydrocarbons F2 (>nC10-nC16); Petroleum Hydrocarbons F3 (>nC16-nC34); and, Petroleum Hydrocarbons F4 (>nC34); BTEX compounds.

 - b. The following is proposed for inclusion in the circumstances pertaining to the respective pipeline subcategory:

- i. Pipelines above ground - The conveyance of a liquid hydrocarbon by way of a pipeline where the pipeline is fully above ground or above a water body.
 - ii. Pipelines below ground - The conveyance of a liquid hydrocarbon by way of a pipeline where the pipeline is below ground and is not crossing underneath a water body.
 - iii. Pipelines under a water body - The conveyance of a liquid hydrocarbon by way of a pipeline where the pipeline is below ground and is crossing underneath a water body.

- c. Each of the circumstances describe when pipelines would be a significant, moderate, or low drinking water threat in relation to the vulnerability scores in intake protection zones, wellhead protection areas, and highly vulnerable aquifers. The proposed vulnerability scores for which the pipeline circumstances would be a significant drinking water threat are summarized as follows:
 - i. Pipelines above ground – intake protection zones scoring 9 or 10.
 - ii. Pipelines below ground – wellhead protection areas scoring 10.
 - iii. Pipelines under a water body– intake protection zones scoring 9 or 10 and wellhead protection areas scoring 10.

- d. The new reference numbers associated with these proposed additions would be: Circumstances 1972-1978.