

*These spill **frequencies** were extrapolated from estimated spill **rates** for the Gateway project, calculated in a 2005 Simon Fraser University study by Timothy Van Hinte (Van Hinte, T. 2005. Managing Impacts of Major Projects: An Analysis of the Enbridge Gateway Pipeline Proposal. Simon Fraser University; Tables 3.4 and 3.5) - and are based on crude oil pipeline flow rates into Kitimat of 800,000 to 1,000,000 barrels per day (over the course of the Enbridge project, flow rates of between 400,000 and 1,000,000 have been suggested).

Both the Enbridge Gateway project and Kinder Morgan's Northern Leg proposal are currently proposed at 400,000 barrels of crude oil per day.

Van Hinte's estimates are based on a survey of international, U.S., and Alaska North Slope crude oil tanker spill rates.

I.e. The spill frequencies cited on Dogwood's website reflect estimates for either the expanded version of the Enbridge project alone (800,000 - 1,000,000 barrels/day), or both the Enbridge and Kinder Morgan 400,000 barrels/day projects combined. It is stressed that these spill frequencies are only estimates. Nobody can predict exactly how many spills would happen, or how large they would be. Sometimes actual spill frequencies are greater than predicted (e.g. [read here](#)), sometimes they are less.

Bottom line: spills happen.

Tanker frequencies from pg. 8 of Van Hinte, 2005.