

WesPac Tilbury Marine Jetty

PROJECT DESCRIPTION

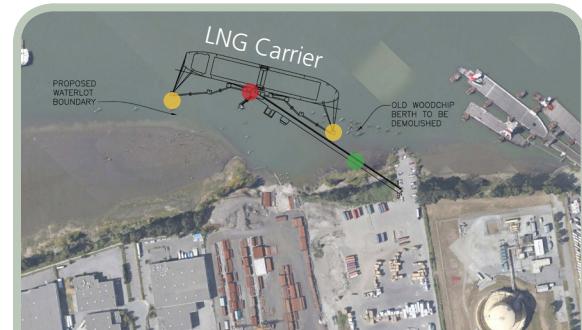
The proposed project will develop an LNG Marine Jetty on the Fraser River, adjacent to the existing FortisBC Tilbury LNG Plant. The Marine Jetty project will include a dock and loading platform with a berth for docking a single barge or carrier for LNG loading.

PROPOSED PROJECT LOCATION



The proposed marine jetty would consist of:

- ▶ A loading platform (dock)
- ▶ An access trestle and walkway to connect the platform to shore and support the LNG product lines, safety supplies and utilities
- ▶ Individual breasting and mooring dolphins to secure ships in dock



LEGEND

- Loading Platform
- Breasting and Mooring Dolphins
- Access Trestle

ABOUT THE PROPOSED PROJECT

WesPac is proposing to construct and operate an LNG marine jetty structure on Tilbury Island in Delta, BC. Weyerhaeuser Company Limited previously owned the site and operated the Northwest Hardwood Mill and marine terminal on it. The purpose of the proposed project is to transfer LNG to barges and mid-size marine carriers for delivery to both local and offshore markets. The size of these vessels is consistent with other ships currently using the Fraser River. This project will not involve storage or processing of LNG.

The proposed project site was selected because it is on an established shipping route and is located in an industrial and marine shipping area which already includes deep-sea marine jetties. The adjacency to the FortisBC Tilbury LNG Storage Plant would support efficient movement of LNG from the existing plant to the ships, minimizing impacts related to development of new transportation or transmission infrastructure.



Container Ship currently operating on the Fraser
Length = 293 m



Proposed Typical 65,000 m³ LNG Carrier
Length = 216 m



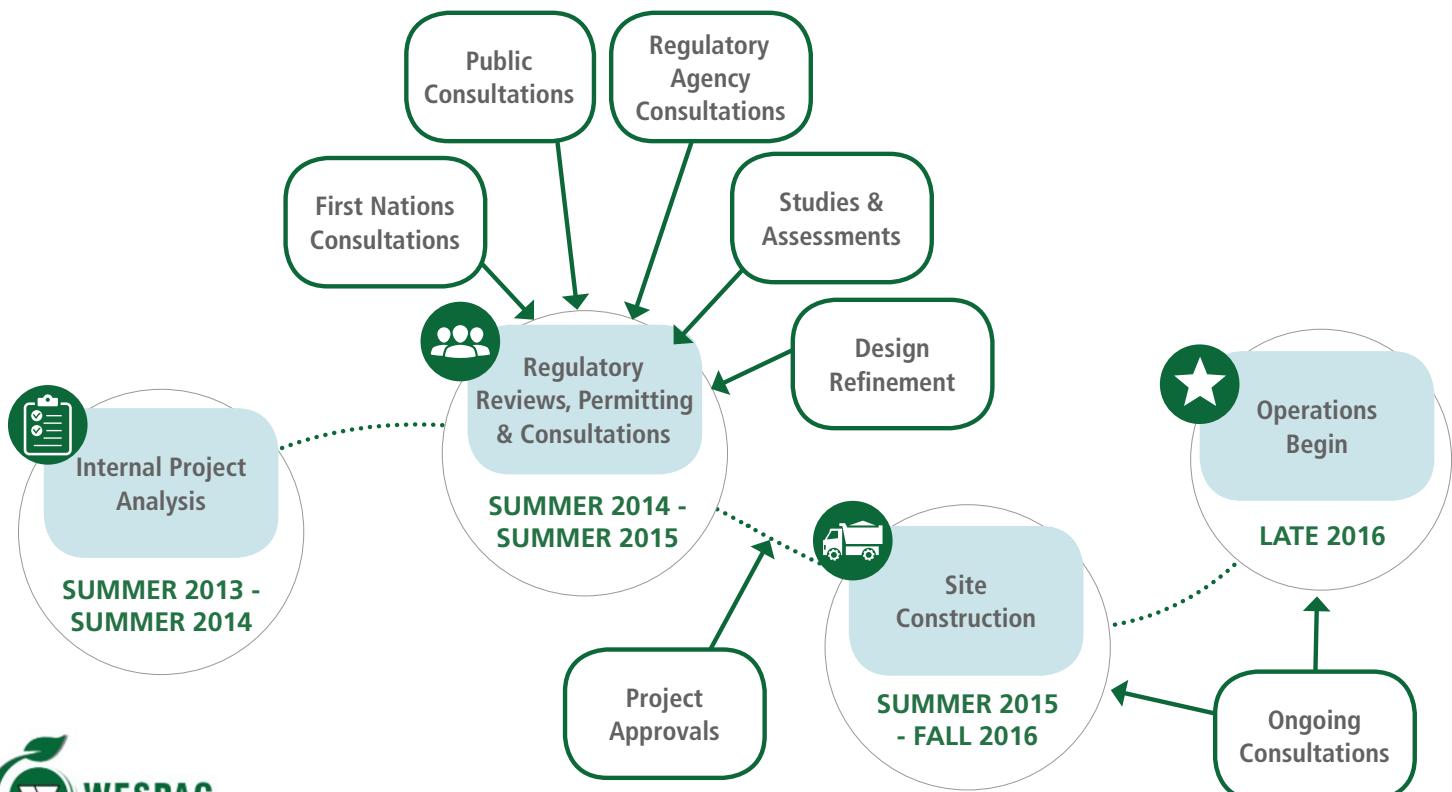
Existing BC Ferries Coastal Celebration
Length = 160 m



Proposed Typical LNG Barge
Length = 154 m

PROPOSED PROJECT TIMELINE & PHASING

WesPac is currently undertaking the Regulatory Reviews, Permitting & Consultation Phase including: site analysis, safety planning, due diligence and consultations with First Nations and the public to plan and design a marine jetty that addresses safety, community interests and the environment. This phase is anticipated to last through 2014 and into 2015. Once the proposed project has successfully completed the consultation and approvals processes, the marine jetty design will be finalized and a construction contract established. Construction is anticipated to start in late 2015 and last about 14 months, with the goal for the marine jetty to be operational by the end of 2016.



KEY PROJECT FACTS

What is Liquefied Natural Gas (LNG)?

LNG is natural gas that has been cooled to -162° Celsius to condense it to a liquid. LNG is 1/600th of

the volume of natural gas, making it ideal for transportation and storage. Upon arrival at its destination, LNG is warmed back to a gaseous state and distributed as natural gas to heat and cool our homes, generate electricity or fuel natural gas vehicles and ships.

LNG is an important step in the global shift to cleaner energy production and a future mix of renewable and alternative energy sources. In BC, marine transportation companies are in support of the adoption of LNG for marine transportation. BC Ferries recently awarded a contract to build three new intermediate class vessels with LNG capabilities.

Is shipping LNG safe?

To date, LNG ships have safely loaded and sailed over 100 million miles without a major incident.

Like any fuel, LNG is an energy source that needs to be transported following industry safety standards. LNG ships are double-hulled and ships and marine facilities are equipped with sophisticated leak detection, emergency shut-down, security and other systems designed to ensure safe and secure transport of LNG.

LNG is odourless, colourless, non-toxic and non-corrosive. It is stored at atmospheric pressure. In its liquid state, LNG is not explosive and cannot burn. Unlike oil products, in the unlikely release of LNG, it would gasify and evaporate without environmental impacts to the water.

How is this project related to the existing FortisBC Tilbury LNG Plant?

The WesPac Tilbury Marine Jetty project is independent from the FortisBC Tilbury LNG Plant. WesPac and FortisBC are separate organizations.

WesPac's proposed Marine Jetty project will be a mooring site for carriers to load LNG from the FortisBC Plant for transport.

FortisBC has safely operated the existing plant since 1971 on the lot adjacent to the project site. Visit the FortisBC website to learn more about the FortisBC Tilbury LNG Storage Plant.

What studies are being done about the site?

WesPac and their project team are completing multiple studies to analyze existing conditions of the project site and surrounding area to inform design and operations planning for the facility.

The following technical reviews are being completed as part of the project study:

- ▶ Surface Water and Hydrology;
- ▶ Marine Flora and Fauna;
- ▶ Terrestrial Flora and Fauna;
- ▶ Noise;
- ▶ Heritage Resources;
- ▶ Air Quality;
- ▶ Socioeconomics;
- ▶ Groundwater;
- ▶ Navigable Waters;
- ▶ Hazard Identification;
- ▶ Accidents and Malfunctions (including effects of an LNG spill);
- ▶ Aboriginal Interests;
- ▶ Community Interests.

Other studies may be identified and undertaken during the project process.

What safety measures will be in place?

WesPac is committed to building and operating a safe and secure marine jetty. The jetty design and operations will follow Canadian and International Standards for safety and security. Navigational safety, traffic and emergency response will be part of the studies undertaken during the project approval

process. To understand local conditions, WesPac is completing a Marine Transportation Risk Study process for the project, working with First Nations, Fraser River stakeholders and government agencies to identify and minimize potential risks. This assessment will help define appropriate local safety measures to be used in conjunction with international safety requirements for development and operation of the facility.

The LNG marine shipping industry has an exemplary safety record. The International Group of Liquefied Natural Gas Importers reported in 2011 that more than 135,000 LNG carrier voyages have taken place over the past 50 years without major accidents or safety or security problems, either in port or at sea.

ABOUT WESPAC MIDSTREAM LLC

WesPac Midstream LLC develops, constructs, owns, and operates state-of-the-art energy infrastructure facilities throughout North America. WesPac projects provide customers with clean, safe and efficient modes of fuel supply, processing, storage and distribution.

WesPac has successfully developed and operated many fuel infrastructure and marine jetty projects throughout North America and since 2011 has maintained a focus on LNG facilities, storage and transportation.



Why is LNG
marine
transport
important?

LNG is an important step in a global shift to cleaner energy production. It can be a bridge from fuels such as coal and oil to a cleaner energy source, and ultimately a future mix of renewable and alternative energy sources.

Natural gas is not available in many communities and countries, requiring people in these areas to typically rely on higher-impact fuels such as diesel or coal for energy production. Marine transportation of LNG provides access to a cleaner energy alternative, providing cost savings and environmental benefits to these communities.

Additional Information

HOW CAN I PROVIDE INPUT?



WesPac is committed to working with the local communities to understand and document questions, concerns and input. First Nations and public consultations will be commencing in Fall 2014. Members of the public can ask questions or share feedback about the project by:

- ▶ Participating in one of two open houses later this year. The project proponent, WesPac, and technical team members will be available for discussions and to provide more details about the project. Dates for these events will be announced soon.
- ▶ Submitting your questions or comments by email to:
TilburyMarineJetty@WesPac.com

WesPac will work with local First Nations with established or potential Aboriginal interests in the Project area to determine the appropriate format for consultations with each First Nation.

How will
my input be
considered?

Input received through the First Nations and public consultations processes will be used to identify community concerns and to develop mitigation strategies through the design and operational planning for the marine jetty. The input received will be documented and included with the project description and this input will form part of the project records submitted during regulatory reviews.

HOW CAN I LEARN MORE?



- ▶ Provide your written question to:
TilburyMarineJetty@WesPac.com
- ▶ Visit the International Group of Liquefied Natural Gas Importers (GIIGNL) at www.giignl.org/about-lng to read more about LNG