

NON-TRADITIONAL MARINE USE

Study geographic boundaries: Kitimat marine terminal project development area (PDA) and the CCAA.

Study time boundaries: Construction, operations and decommissioning phases.

Project works and activities considered in the study*:

Kitimat terminal: construction, operations and decommissioning.

CCAA vessel traffic: construction, operations and decommissioning.

Study methods: It is not possible to distinguish the non-traditional marine activities and resource use effects of constructing the tank terminal (part of the Pipeline Summary) from the construction of the marine terminal – therefore those effects are considered in the Pipeline Summary, with the exception of visual and aesthetic resources, which is covered here.

Visual effects were assessed by identifying areas from which the Kitimat terminal site may be observed, and determining if various “viewpoints” from the identified areas would be affected. This analysis was augmented by a review of literature and baseline data on existing land use and interviews relating to marine recreational fishing and leisure activities and related traffic on the Douglas Channel.

A visibility assessment was conducted using three-dimensional “viewshed modeling” for daylight hours and clear weather. A number of scenarios were modeled to reflect what various users might see, including residents and visitors travelling along Kitimaat Village Road, users of the Kitimaat Village Marina, and persons traveling in vessels along Douglas Channel (such as fishers, ecotourism guides and recreational users).

VEC	Key Issues	KIR	Baseline Results	Measurable Parameter	Potential Project Effects**	Proposed Mitigation	Residual Effects	Cumulative Effects	
Visual and Aesthetic Resources	Changes to visual and aesthetic resources. Light pollution from Kitimat terminal and other above-ground facilities and infrastructure. Noise disruption from Kitimat terminal and other waterline facilities and infrastructure.	n/a	Kitimaat Village is located approximately 14 kilometres south west of the City of Kitimat at the head of the Douglas Channel. The village itself is the main settlement for the Haisla First Nation and is directly across the Douglas Channel from the proposed terminal area. The Kitimaat Village Marina provides key access to these areas. The marina has a clear view of the opposite side of the Douglas Channel. Vessel movements through the CCAA will be visible to communities such as Kitimaat Village, Hartley Bay, and Kitkatla. Vessel movements will also be visible to users of commercial recreational fishing lodges and charter vessels.	Changes to visual and aesthetic resources.	The Kitimat terminal site will be partially visible and will have a visual effect on the viewpoints on the Douglas Channel and the viewpoints across the channel in Kitimaat Village. Infrastructure development for the Kitimat terminal area, associated power lines and access road upgrades will alter the visual landscape. Construction vessels, tankers and associated tug escorts will be visible along the proposed shipping routes in the CCAA.	Currently being assessed.	Currently being assessed.	Currently being assessed.	
				Light pollution from terminal infrastructure.	Light and glare from the project may also cause a visual disturbance at night. Kitimat terminal facilities and infrastructure may be a source of light pollution at night. Lighted vessels will be visible at night.	Currently being assessed.	Currently being assessed.	Currently being assessed.	
				Noise disturbance from terminal infrastructure.	Kitimat terminal facilities and infrastructure may be a source of noise. Construction vessels, tankers and associated tug escorts will be a source of noise to several coastal communities.	Currently being assessed.	Currently being assessed.	Currently being assessed.	
Marine Recreational Fishing	Disruption to recreational fishing activities. Visual and aesthetic changes to recreational fishing areas.	n/a	The Douglas Channel and the Kitimat Arm area are home to world renowned ocean fishing, as well as some of BC’s most popular boating experiences. Seven ocean charters and pleasure boats operating from four different marinas (including the Kitimaat Village Marina) constitute some of the marine traffic on Douglas channel. The Kitimaat Village Marina provides key access to the Douglas Channel. Kingfisher Lodge is located close to the southern shipping route through Camaano Sound.	Changes aesthetically and visually to recreational fishing areas.	Currently being assessed.	Currently being assessed.	Currently being assessed.	Currently being assessed.	Currently being assessed.

*Refer to Figure 3.3 in section 3, Project description, for the full list of physical works and activities. **The effects of spills and malfunctions will be included in the update for the supplemental filing.