

The Environmental Impact Statement (EIS) provides information about the Roberts Bank Terminal 2 Project, identifies potential effects and benefits of the Project, and describes mitigation measures to reduce potential Project effects. The EIS has been prepared according to the “Guidelines for the Preparation of an Environmental Impact Statement for the Roberts Bank Terminal 2 Project”, issued by the Canadian Environmental Assessment Agency in January 2014.

LIGHT

An assessment was conducted of potential changes in light resulting from the Roberts Bank Terminal 2 Project.

The results of the light assessment informed the assessments of marine fish, coastal birds, visual resources, human health, and current use of land and resources for traditional purposes.

SCOPE OF ASSESSMENT

The assessment focused on two aspects of light:

- Light trespass, the amount of light that strays from its intended purpose onto neighbouring areas; and
- Sky glow, the unwanted illumination of the night sky that affects the visibility of stars.

The study area included 12 locations in the area surrounding the existing Roberts Bank terminals, located on the mainland, on three of the Gulf Islands and in Point Roberts, Washington. The locations are between 0.5 and 37 kilometres away from the Project.

EXISTING CONDITIONS

Existing conditions considered a variety of sources of light including the existing Roberts Bank terminals, the BC Ferries terminal, nearby greenhouses, and road lighting. Existing light trespass levels are characteristic of typical rural industrial or residential areas. Existing sky glow levels varied among locations and varied from levels characteristic of residential areas to levels characteristic of urban areas, with high nighttime activity closer to the terminals.

KEY FINDINGS

Overall, the Project is not expected to change the light environment in terms of light trespass, except in areas immediately adjacent to the terminal.

Minimal changes in sky glow are also expected, resulting in a change in the light environment at one location on Galiano Island. These changes are not expected to result in a noticeable change in the visibility of stars.

No measurable incremental cumulative changes related to changes in light are anticipated to result from the Project in combination with other projects and activities.

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