

Field Studies Information Sheet – November 2013

Port Metro Vancouver is continuing field studies in November as part of ongoing environmental and technical work for the proposed Roberts Bank Terminal 2 Project.

Roberts Bank Terminal 2 Project

The Roberts Bank Terminal 2 Project is a proposed new three-berth container terminal which would provide 2.4 million TEUs (twenty-foot equivalent unit containers) of additional container capacity. The project is part of the Container Capacity Improvement Program, Port Metro Vancouver's long-term strategy to deliver projects to meet anticipated growth and demand for container capacity until 2030.

No decision has been made to proceed with the proposed Roberts Bank Terminal 2 Project. Port Metro Vancouver is undertaking a comprehensive multi-round, multi-year community, stakeholder and public consultation process regarding the project, which began in June 2011 with Pre-Consultation and continued in October/November 2012 with Project Definition Consultation. Consultation is continuing with Pre-Design Consultation which runs from October 7 to November 12, 2013. Please visit www.portmetrovancover.com/rbt2 for more information, including the consultation discussion guide.

The proposed Roberts Bank Terminal 2 Project will be subject to a thorough and independent environmental assessment.

Field Studies – November 2013

An overview of field studies that will be taking place in November 2013 is below.

Overview
Coastal Geomorphology
Continuous Measurement of Discharge Study
Coastal Seabirds
Dunlin Use of the Fraser River Estuary during the Overwintering Period
Lighting Impact
Lighting Impact Assessment Study
Marine Mammals
Marine Mammal Observation Study
Underwater Noise Study
Sediment and Water Quality
Sediment Characterization Study
Visual Impact
Visual Impact Assessment Study

Some field studies may require access to public and private land. Port Metro Vancouver will obtain permission before accessing private property. As part of the Adaptive Management Strategy developed as part of the Deltaport Third Berth Project, Port Metro Vancouver will continue studies at Roberts Bank in addition to those outlined in this information sheet.

Port Metro Vancouver will produce monthly field studies information sheets summarizing work to occur each month. These updates will be available at www.portmetrovancover.com/RBT2.

Study Name	Summary
<p>Coastal Geomorphology – Continuous Measurement of Discharge Study</p> <p>(continued from October 2013)</p>	<p><u>Purpose:</u> The purpose of the study is to collect data relating to the flow discharge in Canoe Pass.</p> <p><u>Study Area:</u> The study area includes Canoe Pass (the southern-most arm of the Fraser River).</p> <p><u>Methods:</u> Sensors and probes will be installed within the study area. These will be connected to computers to collect and monitor data.</p> <p><u>Timing:</u> This study will continue in November 2013.</p>
<p>Coastal Seabirds – Dunlin Use of the Fraser River Estuary during the Overwintering Period</p>	<p><u>Purpose:</u> The purpose of this study is to assess the abundance and distribution of Dunlin across the Fraser River Estuary during the overwintering period. Data gathered will be used to document spatial use in relation to site characteristics and predation pressures.</p> <p><u>Study Area:</u> The study area is comprised of the intertidal mudflats of Roberts Bank south of Brunswick Point, as well as Boundary Bay.</p> <p><u>Methods:</u> Dunlin distribution and abundance will be recorded with binoculars or night vision scopes and sediment samples will be taken at a range of locations and sent to a laboratory for analysis.</p> <p><u>Timing:</u> This study will be begin in November 2013 and will take place during daylight and nighttime hours.</p>

Study Name	Summary
<p>Lighting Impact – Lighting Impact Assessment Study</p> <p>(continued from October 2013)</p>	<p><u>Purpose:</u> The purpose of this study is to assess existing visual impacts at Roberts Bank, as measured from selected vantage points, as well as identify any potential lighting changes associated with the Roberts Bank Terminal 2 Project.</p> <p><u>Study Area:</u> This study may be conducted from various viewpoints at Roberts Bank and the Lower Mainland, and potentially at Point Roberts in the United States.</p> <p><u>Methods:</u> Digital photographs will be taken to build a baseline visual inventory of the existing lighting conditions at Roberts Bank. The baseline visual inventory will then be used to conduct a lighting impact assessment.</p> <p><u>Timing:</u> This study may continue in November 2013 and would take place during daylight and nighttime hours.</p>
<p>Marine Mammals – Marine Mammal Observation</p> <p>(continued from October 2013)</p>	<p><u>Purpose:</u> The purpose of this study is to document marine mammal presence and behaviour in the waters around Deltaport.</p> <p><u>Study Area:</u> The study area is the waters in the vicinity of Deltaport at Roberts Bank.</p> <p><u>Methods:</u> A ground-based remote video surveillance system may be used to observe the proposed project footprint for marine mammals.</p> <p><u>Timing:</u> This study may continue in November 2013 and would take place during daylight hours.</p>
<p>Marine Mammals – Underwater Noise Study</p> <p>(continued from October 2013)</p>	<p><u>Purpose:</u> The purpose of this study is to capture baseline data on ambient underwater noise levels and southern resident killer whale (SRKW) presence at Roberts Bank.</p> <p><u>Study Area:</u> The study area is the waters in the vicinity of Roberts Bank.</p> <p><u>Methods:</u> At Roberts Bank, both ambient noise levels and marine mammal vocalizations will be recorded continuously for one year using a hydrophone cabled to shore.</p> <p><u>Timing:</u> Acoustic recordings at Roberts Bank will continue in November 2013.</p>

Study Name	Summary
<p>Sediment and Water Quality – Sediment Characterization Study</p> <p>(continued from August 2013)</p>	<p><u>Purpose:</u> The purpose of this study is to characterize the physical and chemical features of the sediments that may be dredged or deposited as part of project construction, as well as to make visual observations of physical and ecological features in proposed dredge areas.</p> <p><u>Study Area:</u> This study will be conducted offshore of the Deltaport terminal at Roberts Bank.</p> <p><u>Methods:</u> Sediment will be collected from surface sampling locations using appropriate equipment from a small boat. A remotely operated submersible vehicle will be used to document physical and ecological features of the sea floor.</p> <p><u>Timing:</u> This study will continue in November 2013 and will take place during daylight hours.</p>
<p>Visual Impact – Visual Inventory Study</p> <p>(continued from October 2013)</p>	<p><u>Purpose:</u> The purpose of this study is to gather baseline data to assess the existing aesthetic conditions at Roberts Bank.</p> <p><u>Study Area:</u> This study may be conducted from shore-based viewpoints in Point Roberts in the United States.</p> <p><u>Methods:</u> Multiple digital photos will be taken of the Deltaport terminal. The data collected will be used to inform desktop studies.</p> <p><u>Timing:</u> This study may continue in November 2013 and would take place during daylight hours.</p>

For Further Information

For further information, please visit our website at www.portmetrovancover.com/RBT2 or contact us:

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