



SPILL PREVENTION & EMERGENCY RESPONSE

SPRING 2022

Protecting the environment around our operations, including preventing spills is the priority for all of Seaspan's operations and employees, including those who work at Vancouver Drydock. As part of this commitment and responsibility, Seaspan has rigorous plans and procedures in place to respond effectively in the event of a site emergency or environmental incident.

ISO Certified Environmental Management System

Seaspan operates under an Environmental Management System (EMS) certified to ISO 14001:2015, which is certified annually by Lloyd's Register. A requirement of the EMS is a commitment to pollution prevention, including verification of the effectiveness of controls to protect the environment, which encompasses engineering controls, operations, procedures and training.

Spill Prevention

Vancouver Drydock's **Spill Contingency Plan** details steps for risk assessment, spill prevention and response for potential on-land or on-water spills, and meets all requirements within the **BC Environmental Management Act**.

At Vancouver Drydock, two spill booms are strategically located for rapid deployment with spill kits located throughout the site, including on the service pier and both floating drydocks. Vancouver Drydock personnel also undergo regular training to be able to respond to spills in accordance with the plan.



Safe Marine Operations

All vessels operating in the harbour are responsible for understanding and operating within **Transport Canada regulations** and local requirements. Prior to a vessel arriving at Vancouver Drydock, owner representative(s) are advised of safety policies and procedures, environment and waste management regulations and docking requirements.

Green Marine Certification

Seaspan's three shipyard sites, including Vancouver Drydock, are certified under **Green Marine**, a rigorous and transparent voluntary environmental certification program for the North American marine industry. Green Marine measures companies' performance above and beyond regulatory compliance, with performance assessed and verified every two years by certified independent third-parties. Key performance categories assessed include spill prevention, stormwater protection, air emissions and waste management.

Water Management

Water used during operations at Vancouver Drydock does not drain into the ocean. When vessels are in the drydocks, vessel wash water and stormwater are collected into holding tanks that are part of the onsite wastewater treatment system. From the holding tanks, water is treated to remove potential contaminants through a two-step process where particulates are first filtered out using sand then metals are filtered using activated charcoal. The water is then discharged to the sanitary sewer, as permitted by Metro Vancouver.

The proposed new drydocks would be connected to the existing wastewater treatment system. The water would be treated according to existing practices under Seaspan's EMS.

Fire and Emergency Response Plan

Seaspan has a robust **Fire and Emergency Response Plan** that was developed to align with the **BC Emergency Response Management System**, which ensures a coordinated, organized response to any emergency in the province.

Fire prevention at Vancouver Drydock is the responsibility of all employees, management, contractors and visitors. This includes securing permits from Seaspan's safety department prior to starting any activity that could potentially cause a fire (such as welding, plasma cutting, or grinding), observing appropriate fire watch and cool down periods, and maintaining all electrical equipment in good repair.

All workers and visitors to Vancouver Drydock are given a health and safety, environment and emergency program orientation before starting work, with training updated regularly. Additionally, fire and evacuation drills are conducted a minimum of once per year. Fire and emergency drills are followed by in-depth debriefs to review the drill and suggestions to continuously improve the fire and emergency plan.

Recognizing the unique challenges faced by first responders for shipboard and drydock incidents, Seaspan has been working with all three North Shore fire departments for several years to enhance training to improve land-based marine firefighting and emergency response. As part of these efforts, in 2022, Seaspan will be funding specialized marine firefighting training for Seaspan, City and District representatives.