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Site Cleanup Update

This update provides information on the newest developments in efforts by the Washington Department of Ecology (Ecology) and the Port of Vancouver (port) to clean up of contaminated groundwater beneath the port and the Fruit Valley Neighborhood (FVN) (see page 4).

This update describes the methods that Ecology and the port have used to clean up the contamination. This includes:

- A groundwater pump and treat system.
- Treatment wells in the FVN north of Fourth Plain Blvd.
- Soil vapor vacuum systems in homes north of Fourth Plain Blvd.
- Air sparging/soil vapor extraction system at Cadet.
- The most recent air and groundwater sampling.

Groundwater Pump and Treat, and Air Stripping System

The port began operating a new groundwater pump and treat system in 2009. It removes trichloroethylene (TCE) and other contaminants from groundwater using air stripping. Ecology's website (page 1) has a fact sheet on how the air stripping system works.



Groundwater pump and treat, and air stripping system

For More Information

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Ecology's Cleanup Website

<https://fortress.wa.gov/ecy/gsp/Sitepage.aspx?csid=4834>

Facility Site ID # 85381664

Monitoring shows that the system has:

- Greatly reduced groundwater contaminant concentrations and plume size (see page 3).
- Pumped more than 4.5 billion gallons of water, removing 825 pounds of contaminants. The system continues to operate.

What Has Been Done Recently?

Soil Vapor Vacuum Systems

By 2004, Cadet had installed soil vapor vacuum systems in six homes in the FVN north of Fourth Plain Blvd. By the end of 2012, the port shut down the final system.

Decommissioning Treatment Wells

Cadet Manufacturing (Cadet) was one of the historic sources for the groundwater contamination. By 2005, Cadet had installed eight recirculating groundwater treatment wells in the FVN north of Fourth Plain Blvd.

The port shut down shut down and decommissioned all eight wells as they had accomplished the purpose they were installed for.

Evaluating Air Sparging/Soil Vapor Vacuum System

By 2003, Cadet installed the air sparging/soil vapor extraction (vacuum) system beneath and around the Cadet facility.

In 2013, the port will submit a report on how well the system has worked and if it still needs to be used.

How The Cleanup Methods Work

Soil Vapor Vacuum Systems

The systems prevented TCE and other solvent vapors moving from groundwater into indoor air.

Treatment Wells

These wells reduce TCE and other solvent levels in groundwater.

Air Sparging/Soil Vapor Systems

The system injects air into contaminated groundwater. This turns the contaminants into vapor in soil. Extraction wells pull these vapors from the soil, where they can be treated.

Ongoing Sampling

The port continues to evaluate cleanup progress by sampling groundwater from a number of monitoring wells throughout the Port and the Fruit Valley Neighborhood.

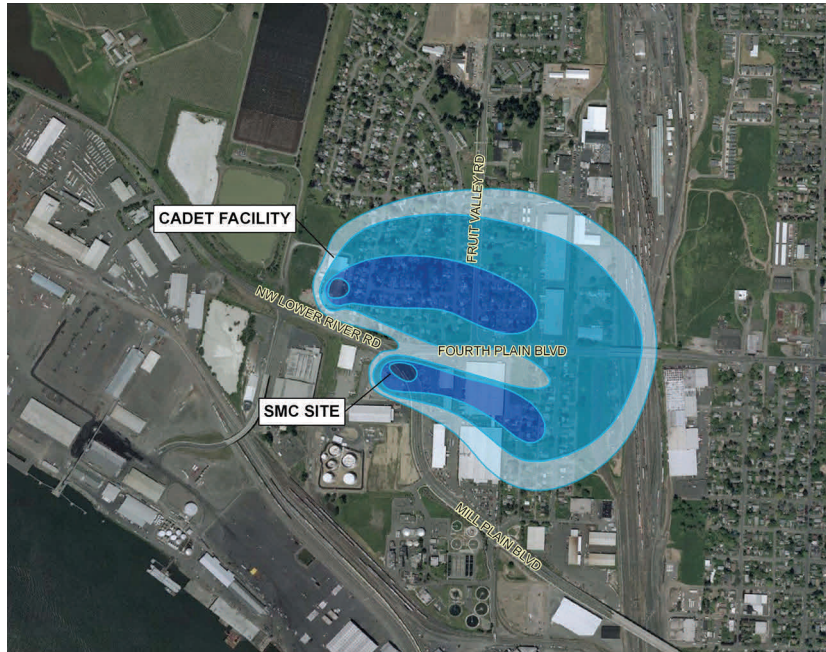
As a result of low and decreasing groundwater contaminant levels, the port, with Ecology approval, reduced the groundwater sampling schedule from four to two times a year.

Name Clarification

Groundwater contamination was first discovered near port building 2220. It was later found to be coming from the former Swan Manufacturing Company (SMC) facility located by building 2220. The port bought the Cadet property in 2006 and is conducting cleanup at both locations. See page 4.

TCE Concentrations in Shallow Groundwater

The maps below show the decrease in plume size of contaminated groundwater beneath the Cadet Manufacturing and Swan Manufacturing Company (SMC) site. The cleanup measures described on pages 1 and 2. are responsible for this reduction. The darker the blue, the more concentrated the contamination in the plumes shown below.



January—March 2002



September 2012



DEPARTMENT OF
ECOLOGY

State of Washington

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Cadet Manufacturing and Port of Vancouver Building 2220 Vancouver, WA

Site Cleanup Update

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