

Bothell Riverside HVOC Cleanup Site



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Comment Period Information:

Comments Accepted

April 7 (12:00 a.m.) – May 6, 2025
(11:59 p.m.)

Submit comments

Online: <https://go.ecology.wa.gov/CommentBothellHVOC>

By mail, email, or phone:

Sunny Becker
Department of Ecology – TCP
PO Box 330316
Shoreline, WA 98133-9716
(425) 457-3842
sunny.becker@ecy.wa.gov

Document review locations

Online: <https://go.ecology.wa.gov/BothellHVOC>

City of Bothell – City Hall:

18415 101st St Ave NE, Bothell

Bothell Library:

18215 98th Ave NE, Bothell

Ecology – NW Regional Office:

15700 Dayton Ave. N., Shoreline

Site information

Facility Site ID: 93061

Site Cleanup ID: 14970

Cleanup plans available for a contaminated site in downtown Bothell

The Department of Ecology (Ecology) and the City of Bothell (City) are moving forward with the modified cleanup of the Bothell Riverside HVOC site (Site) in the downtown Bothell area. The yellow area on the map above shows the location of the contamination in the soil and groundwater. Several Halogenated Volatile Organic Compounds (HVOCs) and their breakdown products are present at the Site and require cleanup. This Site is one of six sites in the historic downtown area that have received grant funding from Ecology to help with the cost of cleanup. The following Riverside HVOC documents are ready for public review:

Agreed Order Amendment: A legal agreement between Ecology and the City presenting a cleanup alternative change to the original 2023 Agreed Order and Cleanup Action Plan. The cleanup schedule (Exhibit C) and cleanup plan (Exhibit E) are the two parts of this document that changed.

Cleanup Action Plan Addendum: A description of a change to Ecology's selected cleanup. This change is based on data collected during the preparations for the engineering design.

Language information:

Español: Le ofrecemos servicios de traducción e interpretación sin costo. Para solicitar una copia de esta información en **español**, llame a Meredith Waldref al 425-229-3683 o envíe un correo electrónico a meredith.waldref@ecy.wa.gov. Si necesita servicios de interpretación, solicite un intérprete y permanezca en la línea mientras lo comunicamos.

中国人: 我们免费为您提供笔译和口译服务。如需要此信息的中文版本，请拨打 (425) 457-3842 致电 Sunny Becker，或发送电子邮件 sunnybecker@ecy.wa.gov。如果致电需要口译服务，请保持在线，我们为您接通口译员。

Site background

The Bothell Riverside HVOC Site is generally located at NE 180th Street & Woodinville Drive (SR 522) in Bothell, WA. The Site formerly housed a strip mall, restaurants, and historic gas stations along the Sammamish River.

One property, two cleanup sites

In 2008, the City acquired the larger triangle-shaped property (see Figure 1) as part of the Highway 522-Woodinville Drive realignment and downtown revitalization effort. This property was called the Riverside Cleanup Site. The City entered into an Agreed Order (AO) with Ecology to investigate contamination on the site and found that there were two separate areas of contamination.

The property was then divided into two cleanup sites: the Riverside TPH Site and the Riverside HVOC Site.

Riverside TPH (Total Petroleum Hydrocarbons) site

The Riverside TPH site was cleaned up by Ecology and the City in 2019. The TPH contaminated soil was excavated and disposed of offsite at a permitted facility.

Riverside HVOC (Halogenated Volatile Organic Compounds) site

In 2013, Ecology and the City agreed to amend the 2009 AO to allow the City to conduct an interim cleanup action to prevent the contaminants from discharging into the Sammamish River. The City installed six extraction wells to collect HVOC-contaminated groundwater and discharge it into the sanitary sewer system.

Contamination

Operations at a former machine maintenance shop are believed to have released HVOCs into the soil and groundwater within the HVOC area at levels higher than allowed under the Model Toxics Control Act (MTCA).

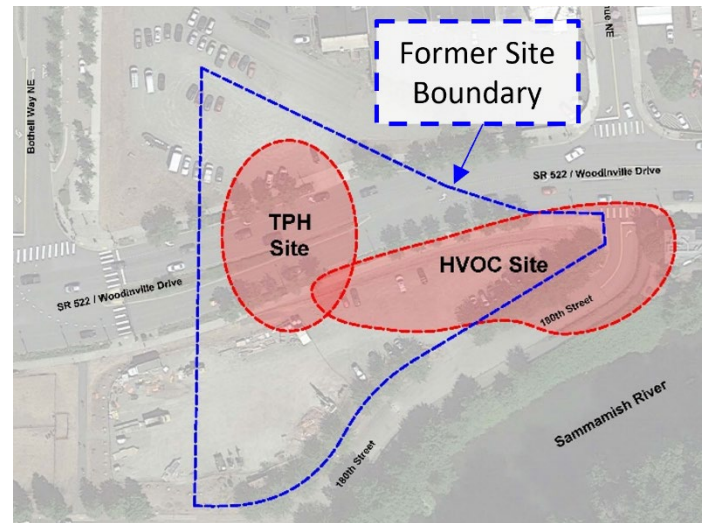


Figure 1: Historic Bothell Riverside site boundary and the new divided sites.

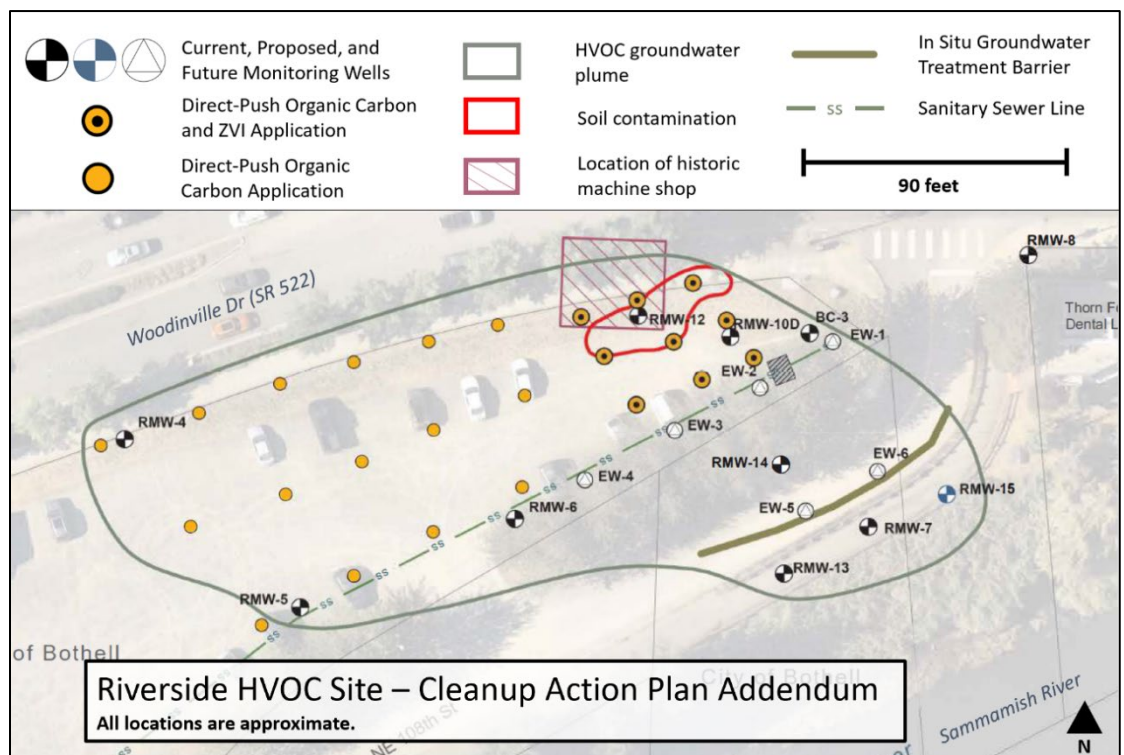


Figure 2: Proposed cleanup activities for the Bothell HVOC Site.

Proposed cleanup

Samples of contamination collected during preparations for the cleanup of the Site showed a decrease in concentrations of HVOCs. The proposed cleanup method is being modified using direct-push injections, instead of continuous injection, extraction, and recirculation treatment to address the remaining contamination in soil and groundwater (see Figure 2).

Direct-Push Injections: Throughout the Site, a mixture of soluble organic carbon and Dehalococcoides (a type of bacteria that breaks down HVOC contamination) will be injected into the ground. This mixture will contain different amounts of zero-valent iron (ZVI) depending on contamination levels throughout the Site. This type of treatment breaks down contamination into a nontoxic form.

In Situ Groundwater Treatment Barrier: An underground treatment barrier will be installed along the southeastern part of the Site. This barrier will contain soluble organic carbon, Dehalococcoides bacteria, zero-valent iron (ZVI), and colloidal activated carbon to treat contaminated groundwater that would otherwise flow into the river. As the contamination passes through the barrier, it will be captured and broken down before leaving the Site.

Monitoring: A series of new and existing monitoring wells at the Site will be used to see how well the injections are reducing contaminant concentrations in the soil and groundwater. Monitoring will be ongoing at the Site.

State Environmental Policy Act (SEPA) Checklist

The City is the lead agency for the Site's SEPA Determination and has completed the SEPA checklist. The [SEPA process](#)¹ identifies and analyzes environmental impacts associated with this cleanup and other government decisions.

Ecology's cleanup process

The Model Toxics Control Act ([MTCA](#)²) is Washington's environmental cleanup law. It provides requirements for contaminated site cleanup and sets standards that protect human health and the environment. Ecology is responsible for administering MTCA, including oversight of cleanups. The [MTCA cleanup process](#)³ is completed in steps (see Figure 3 graphic below) over a variable timeline.

This Site's review documents are each outlined below in red.

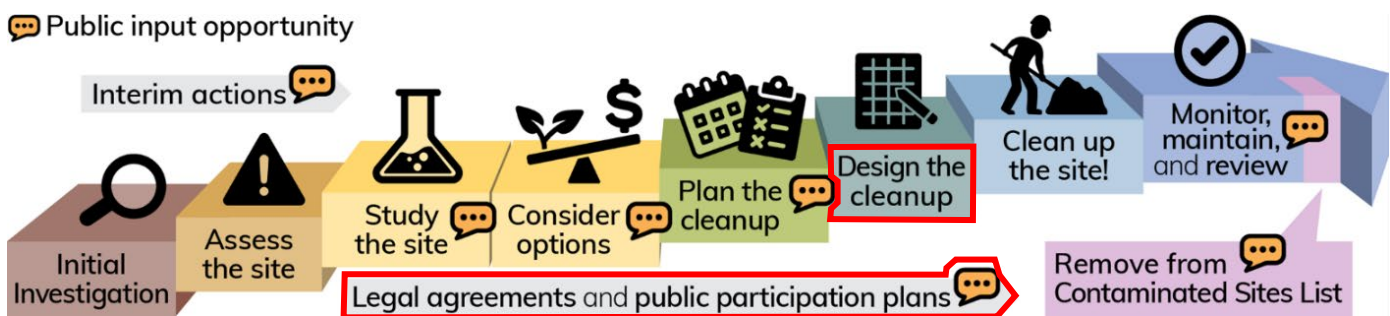


Figure 3: Washington's formal cleanup process.

Next steps: Ecology will consider all comments received and may amend the documents based on your comments. After that, the documents will be finalized, and the final stages of cleanup will begin (see diagram above). If significant changes to the plan are needed, a new draft of the plan and another public comment period may occur.

¹ <https://ecology.wa.gov/regulations-permits/sepa/environmental-review>

² <https://ecology.wa.gov/mtca>

³ <https://ecology.wa.gov/Spills-Cleanup/Contamination-cleanup/Cleanup-process>

⁴ <https://apps.ecology.wa.gov/publications/SummaryPages/1909166.html>

Toxics Cleanup Program
PO Box 330316
Shoreline, WA 98133

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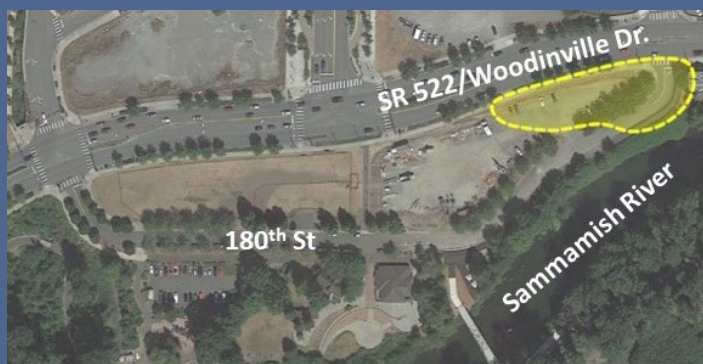
Contact information

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ADA accessibility

To request an ADA accommodation, contact Ecology by phone at 425-229-3683 or email at Meredith.Waldef@ecy.wa.gov, or visit ecology.wa.gov/Accessibility. For Relay Service or TTY call 711 or 877-833-6341.



Bothell Riverside HVOC site location.