



Cleanup Settlement Account Annual Report

Fiscal Year 2022

By

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For the

Toxics Cleanup Program

Washington State Department of Ecology

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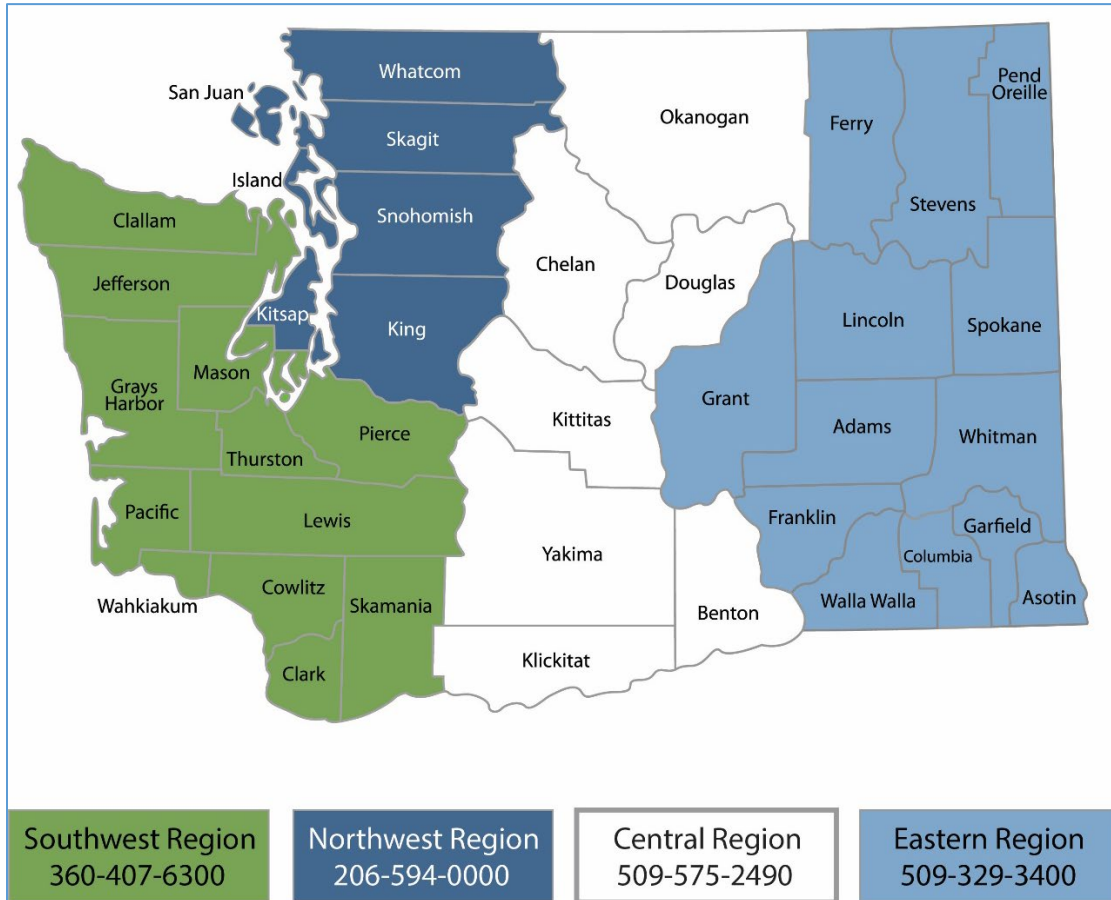
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Region	Counties served	Mailing Address	Phone
Southwest	Clallam, Clark, Cowlitz, Grays Harbor, Jefferson, Mason, Lewis, Pacific, Pierce, Skamania, Thurston, Wahkiakum	PO Box 47775 Olympia, WA 98504	360-407-6300
Northwest	Island, King, Kitsap, San Juan, Skagit, Snohomish, Whatcom	PO Box 330316 Shoreline, WA 98133	206-594-0000
Central	Benton, Chelan, Douglas, Kittitas, Klickitat, Okanogan, Yakima	1250 W Alder St Union Gap, WA 98903	509-575-2490
Eastern	Adams, Asotin, Columbia, Ferry, Franklin, Garfield, Grant, Lincoln, Pend Oreille, Spokane, Stevens, Walla Walla, Whitman	4601 N Monroe Spokane, WA 99205	509-329-3400
Headquarters	Across Washington	PO Box 46700 Olympia, WA 98504	360-407-6000

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DEPARTMENT OF
ECOLOGY
State of Washington

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Executive Summary

Purpose of the report

This document is a report to the Washington State Legislature that shows how the Department of Ecology (Ecology) uses the Cleanup Settlement Account (CSA) to distribute funds to specific cleanup projects. This is the **tenth** annual report for this account. It describes the financial activity in the Cleanup Settlement Account from July 1, 2021, to June 30, 2022. This report is required by RCW 70A.305.130(7), which states:

“The department shall provide the office of financial management and the fiscal committees of the Legislature with a report by **October 31st** of each year regarding the activity within the cleanup settlement account during the previous fiscal year.”

The statute creating the CSA is codified in RCW 70A.305.130 (see Appendix A).

Role of the Cleanup Settlement Account

Under the state’s Cleanup Law, the Model Toxics Control Act (MTCA), Ecology either supervises cleanup work performed by potentially liable persons or directly conducts the cleanups. When possible, Ecology recovers cleanup costs, including staff time. However, this isn’t always possible if a company declares bankruptcy or does not have the financial means to pay the full cleanup cost.

To help resolve this situation, the Legislature created the Cleanup Settlement Account. This account creates a financial reserve by holding funds from legal settlements and court orders meant for environmental cleanup and restoration work. It is an interest-bearing account that allows the state to use the interest on deposited funds for cleanup activities both in the present, and in the future. Because of this, Ecology and the Attorney General’s Office can enter into settlements in which a potentially liable person contributes money for future cleanup work or restoration of a natural resource.

The Cleanup Settlement Account funds projects throughout the state and makes sure that settlement funds are linked to specific contaminated sites.

Cleanup Settlement Account moves cleanup projects forward

The Cleanup Settlement Account moves important cleanup projects forward by cleaning up pollution, supporting sustainable communities, and improving natural resources for current and future generations.

The following cleanup and restoration projects are **currently** funded through the Cleanup Settlement Account:

- B&L Woodwaste (Pierce County)
- Everett Smelter Site (Snohomish County)
- Golden King Mine (Chelan County)
- Harper Estuary (Kitsap County)
- McNeil Island (Pierce County)
- Monte Cristo Mine (Snohomish County)
- Ross Point (Kitsap County)
- Tacoma Smelter Plume (Pierce, King, and Thurston Counties)
- Van Stone Mine (Stevens County)
- Pacific Wood Treating (Clark County)

A fiscal year 2021 settlement allowing for multiple payments resulted in the following deposits into the Cleanup Settlement Account during fiscal year 2022:

- Time Oil (King County)
- The following cleanup projects were funded in **past years** through the CSA:
- BNSF Skykomish Natural Resource Damages (King County)
- City Parcel Site (Spokane County)
- Cholette Mine (Stevens County)
- Lilyblad (Pierce County)
- Maury Island Open Space Acquisition (King County)

The projects and the work currently being supported by the CSA are discussed in more depth in this report. It also summarizes the project (Time Oil) to be supported in the future.

Additional funding will be needed to complete some cleanup projects

At the end of Fiscal Year 2022, the remaining balance in the Cleanup Settlement Account was \$56,558,000.

While the Cleanup Settlement Account is an important repository of funds for many projects, it is often insufficient to fund complete cleanups. In the future, as settlement funds are spent, we will need to rely on alternative sources of funding to move several cleanup projects forward. We anticipate Asarco Settlement funds for some projects will be spent before cleanup is complete.

We expect to spend remaining settlement funds for the Tacoma Smelter Plume site by the 2027-29 biennium. For the Everett Smelter site, the Legislature appropriated moneys from the Model Toxics Control Capital Account in both the 2019-21 and 2021-23 biennium to help fund ongoing work as we spend down the remaining settlement funds.

Figure 1 displays the location of the Cleanup Settlement Account projects. It shows:

- Sites not covered in this report.
- Sites funded in the past year by the above account.
- Asarco sites where Cleanup Settlement Account funds are **not** from Asarco bankruptcy.

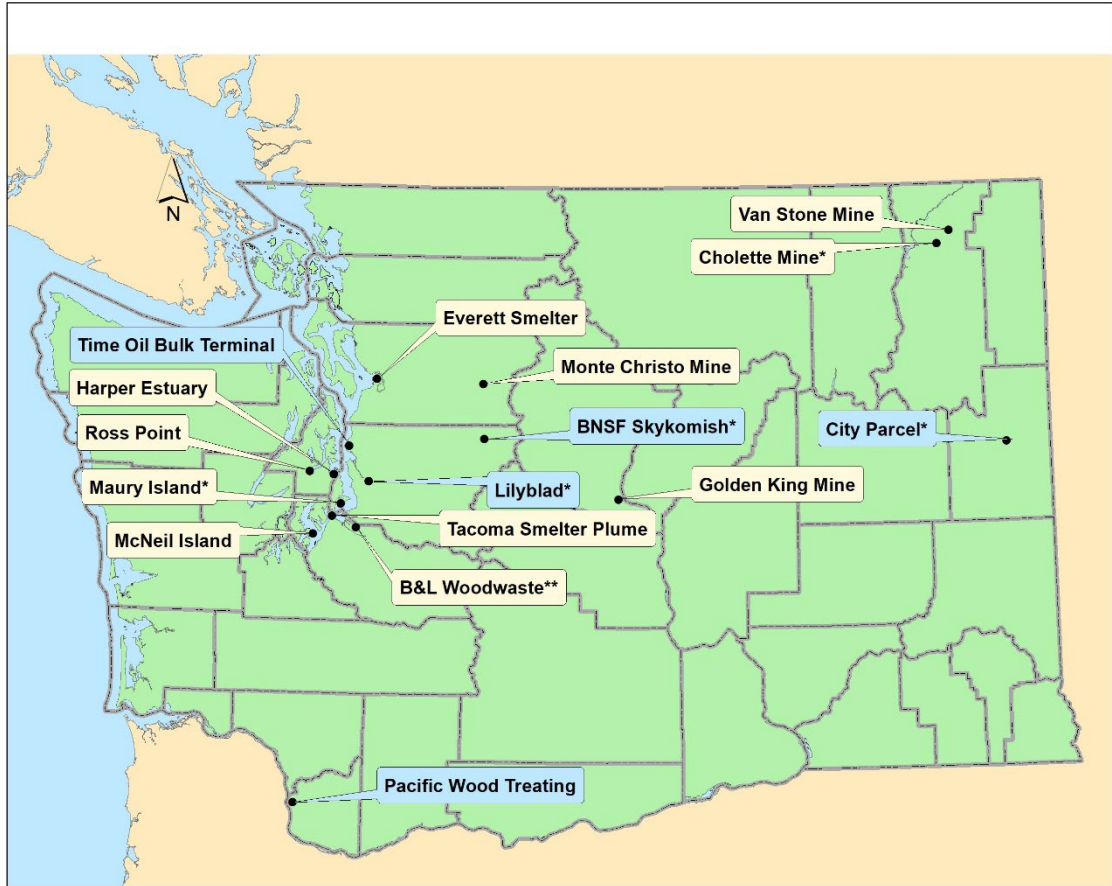


Figure 1: Map showing locations of Cleanup Settlement Account Projects

- * Sites not covered in the report; funded in past years by Cleanup Settlement Account.
- ** Asarco sites but Cleanup Settlement Account funds are not from Asarco bankruptcy settlement.

Asarco-related sites
Other sites

Asarco Related Sites: Tacoma Resource Damages (Harper Estuary, Maury Island Open Space Acquisition, McNeil Island, and Ross Point), B&L Woodwaste, Tacoma Smelter Plume, Golden King Mine, Monte Cristo Mine, Everett Smelter Site, Cholette Mine, Van Stone Mine.

Other Sites: BNSF Skykomish, City Parcel, Lilyblad, Pacific Wood Treating, Time Oil Bulk Terminal.

Cleanup Settlement Account

Background

During the 2008 legislative session, the Legislature passed [Senate Bill 6722](#) that created the Cleanup Settlement Account. Ecology requested this legislation to create an interest-bearing account in the state treasury to manage money from settlements or court orders in cases of bankruptcy, limited ability to pay, or natural resource damages. This account ensures that settlement funds are linked to specific site cleanup activities or damages to natural resources. The statutory provision was codified in RCW 70A.305.130 (see Appendix A).

Ecology requested this new account because we expected to receive several large settlements. Although large settlements and court orders are unusual, they pose problems for the state. By accepting the settlement funding, the state agrees to manage the funds and use them as intended in the settlement agreement or court order. However, funds recovered from a bankrupt party, or a party with a limited ability to pay, typically do not cover the complete cost of cleanup. The Cleanup Settlement Account allows the state to retain earned interest on the funds in this account. This provides the state with additional money over time to complete the work.

Settlement summary

Table 1 provides a summary of settlements, by site, that the state originally deposited into the Cleanup Settlement Account before earning any interest or making any expenditures.

Table 2 shows activity in the Account after the settlements were deposited.

Table 1: Original settlement summary

Settlement	Amount
Burlington Northern Sante Fe - Skykomish Site ^{^*}	\$ 5,050,000
City Parcel Site*	\$ 270,000
Louisiana Pacific - B & L Woodwaste Site	\$ 1,000,000
Lilyblad Petroleum Site*	\$ 800,000
Pacific Wood Treating Site	\$ 2,264,037
Time Oil Bulk Terminal Site	\$ 1,500,000
Asarco - Natural Resource Damages ^{**}	\$ 8,236,782
Asarco - Tacoma Smelter Plume	\$ 94,554,730
Asarco - Everett Smelter Site	\$ 33,888,476
Asarco - Monte Cristo Mine	\$ 6,471,758
Asarco - Van Stone Mine	\$ 3,530,050
Asarco - Cholette Mine*	\$ 353,005
Asarco - Golden King Mine	\$ \$470,673
Asarco Subtotal	\$ 147,505,474
Total Settlement Funding	\$ 158,389,511

[^] Ecology used this settlement to fund a portion of the cleanup. If Ecology determines there are future site costs, we will make a future budget request.

* Sites not covered in the report; funded in past years by Cleanup Settlement Account.

** This includes \$4.1 million for Maury Island Open Space and \$4.1 million for Harper Estuary, McNeil Island, and Ross Point in Sinclair Inlet.

Table 2: Cleanup Settlement Account fund balance

Cleanup Settlement Site	Fund Balance
Louisiana Pacific - B&L Woodwaste site*	\$ 1,157,000
Pacific Wood Treating Site	\$ 2,287,000
Time Oil Bulk Terminal Site+	\$ 468,000
Asarco - Natural Resource Damages	\$ 538,000
Asarco - Tacoma Smelter Plume*	\$ 42,127,000
Asarco - Everett Smelter Site	\$ 3,339,000
Asarco - Monte Cristo Mine*	\$ 3,774,000
Asarco - Van Stone Mine*	\$ 2,294,000
Asarco - Golden King Mine*	\$ 514,000
Remaining fund balance as of June 2022	\$ 56,558,000

* The Cleanup Settlement Account retains interest. Settlements that increased from the last report had scheduled payments or less in expenditures than earned interest.

+ The conditions of the settlement included \$300,000 upon the closure of the bankruptcy trustee sale of the property. The remaining \$1,200,000 will be paid within four years of that date.

Asarco Settlement

Asarco's legacy in Washington

Contamination from smelters and mines

The American Smelting and Refining Company (Asarco) was founded in 1899, with refineries and smelters located across the United States and Mexico. Asarco operated two smelters and four mines in Washington, leaving a legacy of contamination. Cleanup activities around these smelters and mines in Washington are funded through the Cleanup Settlement Account and other fund sources as needed.

The Everett Smelter operated from 1894 to 1912, and later, a neighborhood was built over the site. In 1990, we discovered high levels of arsenic and other heavy metals in soil and groundwater.

The Tacoma Smelter operated far longer, from 1890 to 1986, and the Town of Ruston grew up around it. Air emissions from the smelter contaminated over 1,000 square miles of soil in the Puget Sound region, covering King, Pierce, and Thurston counties (see Figure 2).

The four former mines are in remote areas of Chelan, Stevens, and Snohomish counties. Remaining mine tailings pose a threat to local ecosystems, polluting waterways, and soil.

The B&L Woodwaste Landfill, on the border of Fife and Milton, is contaminated with arsenic. Slag from the Asarco plant leached arsenic into groundwater, threatening a nearby wetland.



Figure 2: Tacoma Smelter smokestack

The 2009 Asarco bankruptcy settlement

Washington – part of the nation’s largest bankruptcy settlement

In 2005, Asarco declared bankruptcy, largely due to environmental liabilities from its nearly 100 cleanup sites across the country. The State of Washington joined the federal government and other states in a lawsuit against Asarco that spanned four years.

In November 2009, Asarco paid out a \$1.79 billion settlement. The settlement covered past and future cleanup costs, as well as interest earned over the four years. Washington’s share, deposited into the Cleanup Settlement Account in December of 2009, was \$188.5 million—nearly 90 cents for every dollar claimed.

Years of planning and vision for successful cleanups

The key to Washington’s success is creating and implementing management plans for both smelter sites, and a clear vision for how to manage the risk from “area-wide” arsenic and lead contamination.

From 2001-2003, the Area Wide Soil Contamination Task Force developed recommendations that we used as the basis for our management strategies. These include cleaning up soil in the most highly contaminated areas, focusing on protecting children, and providing broad-based education and outreach, all of which are funded by the settlement.

Asarco settlement breakdown

Smelter cleanups— the largest cleanup costs in WA State

Of the \$188.5 million received by the state, \$22 million has gone to a trust to pay for the B&L Woodwaste Landfill cleanup. The rest went to two smelter sites and four mine sites (see Figure 3). An additional \$19 million in settlement funds reimbursed the State Toxics Control Account (abolished and restructured into new accounts in ESSB 5993) for past cleanup costs for the Everett Smelter and Tacoma Smelter Plumes. It also provided \$8.2 million for natural resource damages from the Tacoma Smelter. Most of the Asarco settlement will cover soil cleanup and outreach work for the two smelter sites.

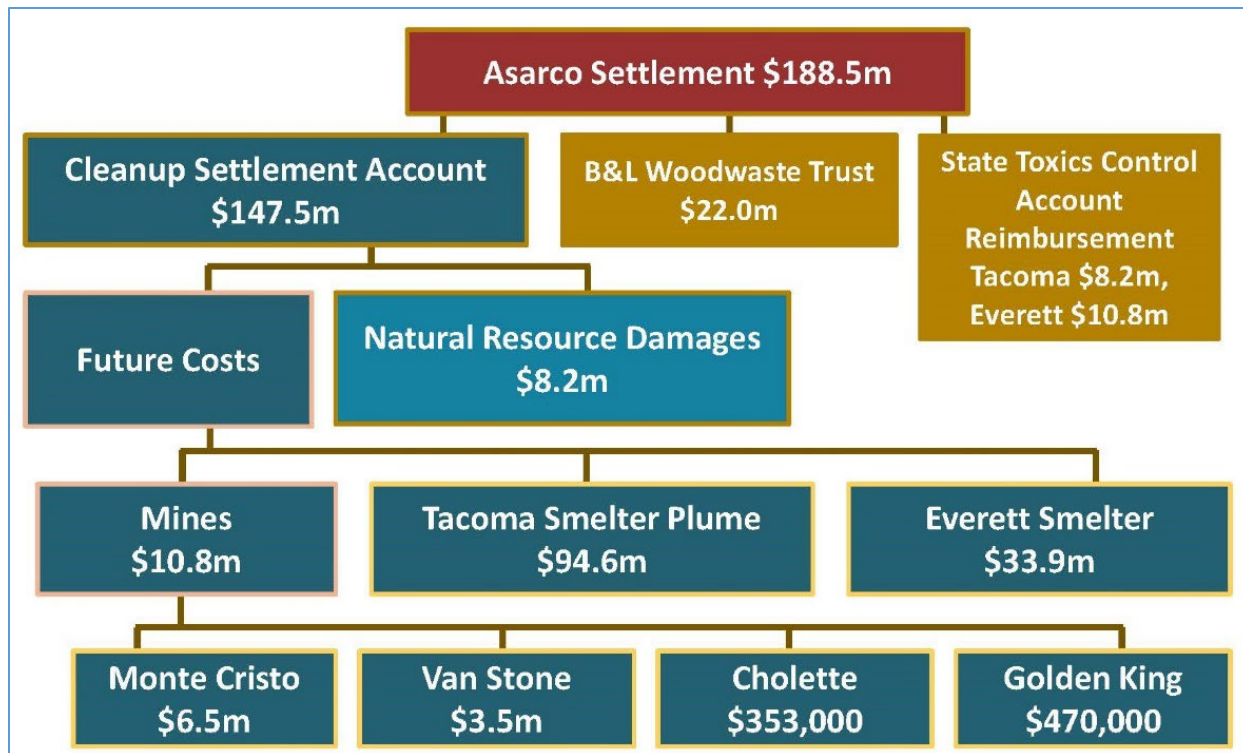


Figure 3: Asarco settlement breakdown of money for different sites

Everett Smelter

At a glance

- **Total settlement:** \$33.9 million
- **County:** Snohomish
- **Total size:** 1.1 square miles
- **Cleanup focus:** Soils and groundwater

The smelter operated from 1894 to 1912 in northeast Everett. Smelter operations created widespread arsenic and lead contamination of soil and groundwater. Particles from smokestacks settled on surface soils over a 1.1 square mile area (see Figure 4).



Figure 4: Everett Smelter Site

Settlement spending plan

In 2000, we developed a cleanup plan for the Everett Smelter using public input. After receiving the Asarco settlement, Ecology created a spending plan for settlement money (see Figure 5), based on the original cleanup plan and further input from the community. The plan addresses two areas impacted by the Everett Smelter operations—the mostly residential uplands area on the west side of the site, and the mostly industrial lowlands area east of East Marine View Drive, bordering the Snohomish River. Our plan includes:

- **Residential soil sampling and cleanup program:** This voluntary program provides free sampling and cleanup of accessible soils down to 2-3 feet.
- **Education and outreach:** This program serves both the general community and homeowners participating in the cleanup program. This program educates the general public on the Everett Smelter cleanup process, health risks associated with the contamination, and how to live safely in the contaminated area. The team accomplishes this through individual and public meetings, a community hotline, attending community events, and maintaining online and printed educational resources.
- **Lowlands investigation and cleanup:** We are investigating groundwater and sediment contamination in the lowlands area. We will contain contamination to prevent it from entering the Snohomish River and do long-term monitoring.



Figure 5: Everett breakdown of smelter money

Cleanup focuses on those most at risk

The Everett Smelter cleanup protects residents who are most at risk. People who live in the cleanup area are most likely to come into contact with contaminated soil while working or playing in their yards. Children are especially vulnerable. We began sampling and cleanup in areas closest to the former smelter site and will move outwards to properties further away as the work continues. We will remove soil with higher levels of contamination first to protect those who are most at risk.

Accomplishments - Fiscal Year 2022

Yard sampling and cleanups continue

To date, we have cleaned up more than half of the properties in the cleanup area. During fiscal year 2022, we completed sampling of 26 residential properties (see Figure 6). We are also working to sample remaining properties and have offered residential soil sampling to the 46 non-responsive property owners.



Figure 6: Bid walk tour

The 2019 and 2020 Cleanup Groups faced delays due to the COVID-19 pandemic. A cleanup Group is a group of residential properties scheduled for cleanup in a particular year. In September 2021, we hired two new staff members to support the team. A public works contract for the 2019 Cleanup Group went out to bid in May 2022, with a contractor was selected in summer 2022. We have finalized cleanup plans for 40 properties in the 2020 Cleanup Group and will be working to hire a contractor in the fall of 2022.

Cleanup in the lowland area

We began work with the City of Everett to improve the existing storm water conveyance system and limit access to contaminated areas in the Lowland area. To protect the Snohomish River and communities that rely on it, Ecology and the City are working on designs for lining inside

the damaged pipes to prevent impacted groundwater from entering the system and having direct access to the river.

Additional funding is needed to continue with cleanup and sampling

In 1999, we estimated the Everett Smelter site cleanup to cost around \$64 million. Of the 2009 settlement funds \$33.9 million is dedicated to the Everett Smelter cleanup. The current estimate to cleanup the entire site is \$78 million. The estimated cost has gradually increased over the past 20 years due to inflation.

During the 2019 legislative session, the City of Everett worked with its legislative representatives to fund an accelerated plan to clean up Everett neighborhoods. Since then, the Legislature has made continuing and accelerating the Everett Smelter Plume site cleanup a priority by appropriating approximately \$15 million from the Model Toxics Control Capital (MTCA Capital) Account.

That funding and any remaining settlement funds will be used to:

- Clean up residential properties in the Northwest and Delta Neighborhoods.
- Sample the remaining residential properties in the Delta and Northwest Neighborhoods.
- Support outreach and cleanup work for residential properties.
- Conduct post-cleanup monitoring to ensure effectiveness of the cleanup at the Marine Drive intersection.
- Complete storm drain lining and complete a cleanup design study to reduce risk of contamination to the Snohomish River from contamination within the lowland cleanup area.
- Begin cleanup engineering design for areas in the lowlands.

To complete this work, we estimate it will require additional appropriations of \$28 million through the 2031-33 biennium. Funding estimates include our cleanup project staff dedicated to the Everett Smelter site work and estimated cleanup costs.

Tacoma Smelter Plume

At a glance

- Total settlement: \$94.6 million
- **Counties:** Pierce, King, Thurston
- **Total size:** Over 1,000 square miles
- **Cleanup focus:** Surface soils

The Tacoma smelter operated from 1890 to 1986, on the border of north Tacoma and the town of Ruston. Its smokestack emissions dispersed arsenic, lead, and other heavy metals across a 1,000 square mile area now called the Tacoma Smelter Plume.

Settlement spending plan

Using lessons from early cleanup work, Ecology developed a plan for the Asarco settlement. The plan has four main strategies:

- **Yard cleanups:** Soil replacement for existing residential yards in areas of highest contamination (see Figure 7).
- **Soil Safety Program:** Soil sampling and cleanup at school, childcare, park, and camp play areas.
- **Outreach and Education:** Provide Dirt Alert outreach programs through health departments in King and Pierce counties.
- **Technical Assistance:** Work with local governments and developers to encourage voluntary cleanup during development or redevelopment.

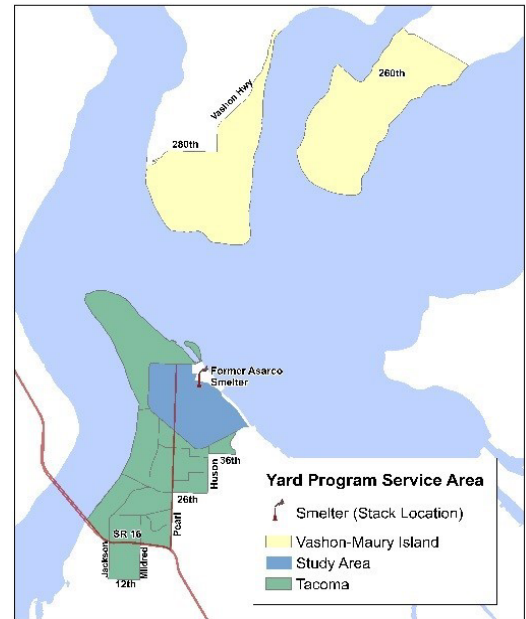


Figure 7: Tacoma Smelter Plume yard program service area.

Additional funding for the future

The state made a bankruptcy claim for future environmental remediation costs for \$112.7 million and received \$94.6 million. We have managed this money resourcefully over the last 12 years.

The Cleanup Settlement Account funds available for Tacoma Smelter Plume work, including interest earned on the settlement, was \$102,498,000. As of Fiscal Year 2022, we have spent \$60,371,000. The actual fund balance is \$42,127,000, which is not enough to cover the entire cost of estimated future cleanup activities.

The remaining funds for the Tacoma Smelter Plume are expected to be depleted by the 2027-29 biennium (see Figure 8). By then, we estimate that 200 of the nearly 1,200 yards qualifying for soil replacement will still need cleanup.

With an additional \$15 million in other funds, we will be able to complete the remaining yard cleanups and continue outreach in the impacted communities. This estimate will go up due to inflation. As we expect future appropriations from another fund to be in smaller amounts, we plan to reduce staffing and the number of yards completed each fiscal year. The work will be spread out over the next four biennia (Fiscal Years 2030 through 2037). Ongoing education and outreach will be necessary for the foreseeable future.

We are working to address the highest levels of contamination that affect human health in yards, parks, schools, and childcares, to protect the most vulnerable population for the foreseeable future. However, the contamination caused by the smelter will always remain in the Tacoma Smelter Plume. It is spread over a vast area of 1,000 square miles and it can't be entirely cleaned up with the state's limited resources.

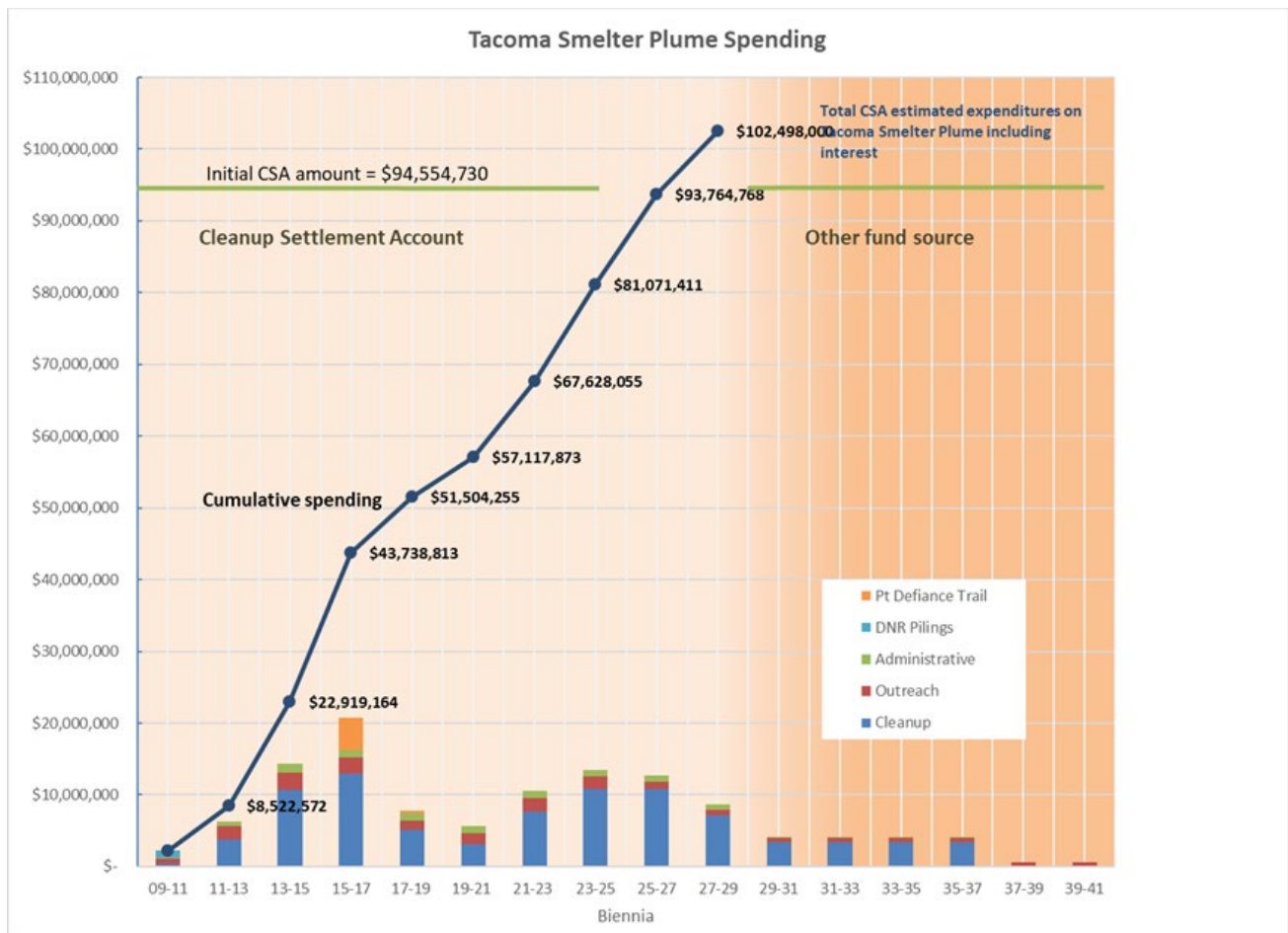


Figure 8: Tacoma Smelter Plume spending graph-2009-2041

Accomplishments through Fiscal Year 2022

Planning and cleanup of residential yards and childcare play areas

This year we have continued our planning and soil replacement efforts while working to rebuild our staffing to pre-Covid levels. (See Figure 9 and 10).

- In FY 2022, we completed soil replacement work for 24 properties in two groups. One group included 19 residential properties and a childcare. The other group included four residential properties. All of them together account for 24 properties. The U.S. Environmental Protection Agency (EPA) provided most of the funding for this group.
- For FY 2023, we plan to contract two more construction groups for a total of 48 residential properties and two childcare play areas. Planning is underway for an additional group of 25 residential properties.

As of 2022, we have found **1,198** residential yards that qualify for soil replacement. The increase in number from the past year (1,196) is due to more qualifying properties being identified via ongoing sampling. The Yard Program guidelines recommend soil replacement for yards with arsenic levels above 100 parts per million (ppm) or lead levels above 500 ppm and providing education to properties with lower levels of contamination. To date, we have replaced soil in **349** of those qualifying yards.

The Soil Safety Program continues to sample new childcare play areas and replace soil or complete other actions in play areas with average arsenic or lead levels above the state cleanup level. The state cleanup level is 20 ppm for arsenic and 250 ppm for lead. The lower action levels for the Soil Safety Program enable Ecology to be more protective in areas where large numbers of children play.



Figure 9: Soil replacement in progress



Figure 10: Steps towards soil replacement

Dirt Alert—Encouraging Behavior Change

Since 2000, we partnered with the Tacoma-Pierce County Health Department (TPCHD), and Public Health – Seattle & King County (PHSKC), to provide outreach and education to residents living in the Tacoma Smelter Plume. The health departments encourage everyone to change their behaviors by taking healthy actions to reduce exposure to lead and arsenic contaminated soil. Healthy actions are simple practices that include (but are not limited to), gardening with gloves, washing and peeling fruits and vegetables, removing shoes at the door, and covering bare patches of soil in the yard.

In FY 2022, the COVID pandemic continued to impact our outreach and education work. The health departments continued to work to find different ways to connect with community members such as virtual meetings, online advertisement, and signage in the community.

Highlights of TPCHD outreach

Get Covered Project

TPCHD continued their work with the Get Covered Project, encouraging property owners to cover bare patches of soil (see Figure 11). Covering bare patches protects children and pets from arsenic and lead contaminated soil. TPCHD continued their partnership with Tacoma Boys, a local business with a location near the Yard Program area, to offer a coupon for two free bags of play chips to cover bare patches. TPCHD offered Get Covered toolkits to over 3,000 residents in the Yard Program Service Area. The toolkits included brochures, a nail brush, dust cloth, and the coupons for play chips. Over 45 Get Covered toolkits were requested and sent out. Residents can redeem their coupons at the Tacoma Boys store. Most of the residents covered or planned to cover bare patches in their yards where children play.



Figure 11: Postcard for Get Covered Project

Community Garden Sign Project

The community gardens themselves have clean soils, but gardeners are curious about whether it is safe to grow vegetables within the Tacoma Smelter Plume. The Community Garden Sign project offers signs to community gardens within the Tacoma Smelter Plume. These signs direct the public to the Tacoma-Pierce County website where they can access information on safe gardening—such as using raised garden beds with soil brought in from a soil vendor. The website also provides safety tips known as “Healthy Actions” to protect children and pets from coming into contact with arsenic and lead in their yards at home. There are now nine community garden signs posted in the service area (see Figure 12 and 13).



Figure 12: Location of signs



Figure 13: Community garden sign

Annual Mailer

TPCHD and Ecology sent our annual mailer to over 12,000 residents of the plume in Pierce County. The mailer introduced new residents and reminded current residents of the risks of exposure to soil contaminated with arsenic and lead. It discusses the Soil Safety Program, Yard Program, Dirt Alert Program, and Get Covered Program. It encourages healthy actions and provides soil sampling guidance. The mailer was translated into Korean, Chinese, Spanish and Vietnamese with the online translations linked in the print version that went out to residents.

Highlights of PHSKC outreach

- PHSKC branched out this year to partner with new community organizations, including the Somali Health Board, Horn of Africa Services, Nahaelli Fund, Toxic Free Future, and PHSKC programs including Hazardous Waste. These partnerships include sharing Dirt Alert educational materials and handouts with the partners and their constituents.
- They worked to integrate Dirt Alert messaging into presentations given to community organizations and to distribute educational materials through tabling at events.
- They connected with new community partners including Youth Speaks, Mother Nation, Lakota Leaders, African American Reach, and Teach for Health (AARTH) and will continue to develop these relationships to distribute Dirt Alert materials and messaging.

- They are working on a video series that will incorporate Dirt Alert messaging (like the healthy actions) and target new communities the program has yet to reach.
- They continued to successfully partner with Tilth Alliance, a nonprofit organic gardening and urban ecology organization. Tilth Alliance works with gardeners in the community to build a sustainable, healthy, and equitable food future. When working with community gardeners, Tilth Alliance includes Dirt Alert information on safe gardening, such as gardening in raised beds. Tilth Alliance developed demonstration garden sites in South King County.

Technical Assistance

Through our Voluntary Cleanup Program (VCP), we provide free technical advice to property owners and developers who clean up arsenic and lead contamination on their properties. We collaborate with local permitting offices in King, Pierce, and Thurston counties to encourage developers to remediate contaminated soil during property development.

In FY 2022, 33 developers and property owners sampled their properties for arsenic and lead. Fifteen properties had arsenic and lead levels below the cleanup level and did not enroll into the VCP. Eighteen properties had arsenic and lead above the cleanup level and joined the VCP. Ecology reviewed cleanup plans and reports. Three developers have already cleaned 47 acres of contaminated soil within the plume in the last fiscal year. Ecology determined no further action (NFA) was required on these three properties. Fifteen remaining properties that joined the VCP in 2021 and 2022 are in the process of cleanup.

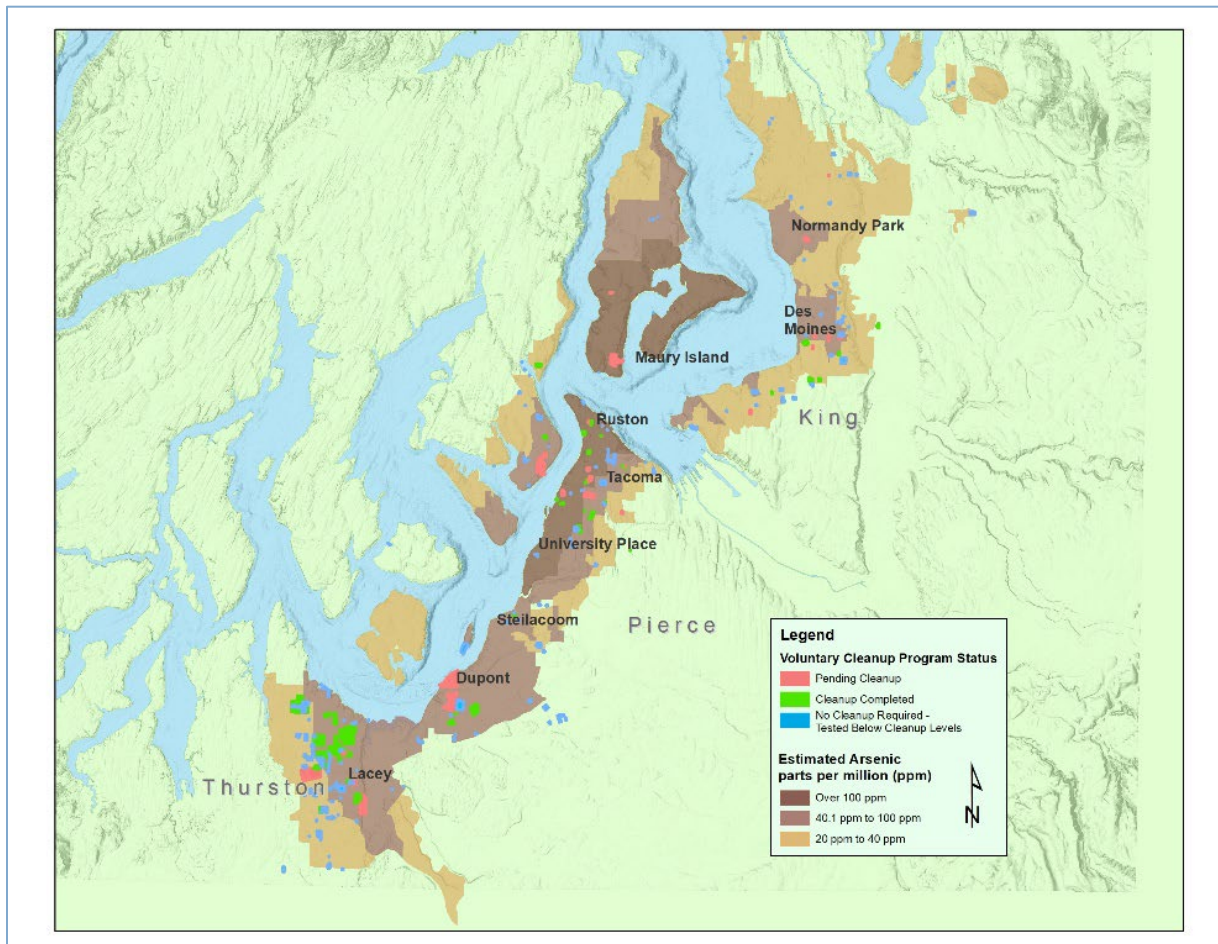


Figure 14: VCP Progress Map



Figure 15 A completed Industrial Development at Lacey Construction on cleaned land

Harper Estuary, McNeil Island, and Ross Point

At a glance

Funding source: Ecology received \$8.2M from Asarco for Natural Resource Damages. The settlement funds are meant to fund restoration of certain habitats and recreational opportunities. Funds include \$4.1 million for Maury Island Open Space and \$4.1 million for Harper Estuary, McNeil Island, and Ross Point in Sinclair Inlet.

Counties: Kitsap and Pierce

Projects: The settlement has been used to help fund the following three restoration projects by the Washington Department of Fish and Wildlife (WDFW), including one joint project with Kitsap County:

- **Harper Estuary:** The Harper Brick and Tile Company operated at Harper Estuary until the 1930s, when it was demolished. WDFW and Kitsap County are leading habitat restoration efforts in the Estuary. Kitsap County is also improving public access and recreation infrastructure in Harper County Park.
- **McNeil Island Shoreline and Estuary:** WDFW is restoring four locations on the Island, including habitat at the Barge Landing site, and estuarine habit at Milewa Creek, Floyd's Cove, and Bodley Creek (see Figure 16 and Figure 17).
- **Ross Point in Sinclair Inlet:** WDFW is restoring shoreline at Ross Point in Sinclair Inlet. The restoration includes the removal of existing bulkheads and re-establishing native vegetation.

Restoration project highlights

- **Harper Estuary:** During 2016-2017, we worked with WDFW and Kitsap County to complete the first phase of restoration. Since completion of the first phase, Ecology continues to work to advance restoration, monitoring, and stewardship activities at Harper Estuary. In June 2019, we issued a one-time grant to Kitsap County (about \$500,000) to:
 - Complete public outreach to guide the Harper Park Improvement Plan.
 - Complete park improvements that would improve public access.
 - Conduct post-construction monitoring of the restoration.

The resulting plan prioritizes some improvements to Harper Park. Although COVID-19 restrictions caused some delays, many of the improvements were completed in 2020 and 2021. These included installation of a new pedestrian footbridge, upgrading a picnic shelter, and continued removal of invasive species and debris from former industrial operations. The County is also monitoring the estuary in partnership with Western Washington University and

Washington Sea Grant. The researchers and County staff shared the monitoring results with the community during a public presentation in June 2021. Ecology closed the grant with Kitsap County as the County successfully completed grant objectives including construction of prioritized projects and activities identified in the park improvement plan (e.g., invasive species removal and trail footbridge construction).



Figure 1: Photograph of Milewah Estuary prior to restoration

(Photo credit, Washington Department of Fish and Wildlife (WDFW)).



Figure 2: Removal of culverts to restore habitat at Milewah Creek

(Photo credit, Washington Department of Fish and Wildlife (WDFW)).

- **McNeil Island shoreline and estuary:** We closed out an Interagency Agreement with WDFW of \$400,000 after WDFW completed restoration of intertidal habitat at the Barge Landing site, fully restored connection of the formerly impounded Milewah Creek to marine waters and completed an alternatives analysis of additional restoration projects on the Island. We currently have an Interagency Agreement with WDFW for about \$24,000 to help fund design and do permitting for estuarine habitat improvement projects at Floyd’s Cove and Bodley Creek. In June 2020, WDFW completed a post-construction report for the shoreline restoration project at the Barge Landing site. In December 2021, WDFW completed a post-construction report for the Milewah Creek road and culvert removal project.
- **Ross Point in Sinclair Inlet:** WDFW successfully completed the removal of the bulkhead in August 2019. In January and February 2020, WDFW replanted areas impacted by construction with native vegetation. WDFW and the Washington Conservation Corps (WCC) are performing ongoing invasive species control to ensure that native vegetation establishes, and restoration remains successful. In spring 2021, WDFW installed interpretive signage on site to educate the public about the restoration project goals and design.

Gathering public input

Kitsap County completed community outreach efforts to obtain public input to guide improvements for Harper Estuary. They held community meetings in late 2019 through spring of 2020 to support this effort. Ecology and WDFW provided comments on a draft improvement plan in October 2019. The Harper Park Improvement Plan was finalized in February 2020. Kitsap County continues to update the public on upcoming and completed work on its website. For projects on McNeil Island and at Ross Point, we incorporated feedback from community members and from the Suquamish, Squaxin Island, Nisqually, and Puyallup tribes to develop restoration plans and designs.

Next steps

- Ecology will help fund design and permitting for a Kitsap County project that will further restore habitat and tidal connection at Harper Estuary.
- We currently have an Interagency Agreement with WDFW to design and permit two additional habitat restoration projects on the Island.

B&L Woodwaste (Louisiana Pacific)

At a glance

- Total settlement: \$1.0 million
- **County:** Pierce
- **Total size:** 11 acres + wetlands
- Cleanup focus: Groundwater

In the 1970s and 1980s, the B&L Woodwaste landfill received woodwaste, soil, and slag from log sort yards in Commencement Bay. The slag—a byproduct of Asarco’s Tacoma smelter—leached arsenic into soils and groundwater. This contamination poses a threat to nearby Hylebos Creek (see Figure 18).



Figure 3: Landfill at the B&L Woodwaste site.

Cleanup liability and funding

Asarco, Murray Pacific, and Louisiana Pacific Corp. were among the parties found liable for cleanup. When Asarco went into bankruptcy in 2005, the other two companies pursued settlements jointly with the state. Most of Murray Pacific’s \$22 million settlement is held in a trust that is funding the majority of current cleanup work. The Cleanup Settlement Account holds an additional \$1 million for future work.

Cleanup accomplishments and remaining work

The B&L Woodwaste cleanup has three phases.

- **Phase 1, completed in 1992:** Asarco consolidated the original 18-acre site to an 11-acre landfill. It then installed a cap to minimize rainfall flushing metals and contaminated groundwater out of the landfill.
- **Phase 2, 2008 to early 2013:** We installed a slurry wall around the edge of the landfill. This underground barrier minimizes the flow of contaminated groundwater. Then we built a facility to extract and treat groundwater from inside the slurry wall and from the nearby wetlands. Finally, we excavated contaminated sediments from the drainage ditches on three sides of the site.
- **Phase 3, 2015 to the present:** In 2017, as a part of an adaptive management plan to contain and reduce the arsenic plume, we treated the groundwater with chemicals outside the landfill on nearby Washington State Department of Transportation (WSDOT) property. In September 2017, we shut the groundwater treatment system down and currently groundwater is being monitored quarterly.

We stopped groundwater treatment for several reasons:

- First, the system had already removed a large amount of contaminated groundwater outside of the landfill footprint.
- Second, we determined that the system was no longer necessary to control groundwater from flowing from inside the landfill outward through a geologic window beneath a sheet pile wall that surrounds the landfill. We have been monitoring groundwater for four years and the contaminant plume continues to reduce. The plume continues to decrease in the northern part of the site and is stable to decreasing in the eastern, western, and southern parts of the site.
- Third, the annual operating cost of the system was very high, and the trust funds were running out. The operating budget for monitoring is considerably lower than when the system was in operation, and Ecology can keep the site in compliance while still maintaining a healthy balance in the Trust account. With the current costs and return on Trust account investments equal, it is likely the funds from the trust can operate this site well into the future.

Groundwater monitoring for arsenic contamination continued in 2021. Based on the groundwater monitoring data, Ecology will take necessary actions to control and contain the arsenic plume. In August 2020, we conducted additional soil sampling to investigate a possible ongoing source of elevated arsenic in groundwater in the WSDOT property. In 2021 and 2022, a dye study is being performed to determine the origin of elevated concentrations of arsenic in groundwater located west of the landfill. In 2022, the Trust will receive the portion of the WSDOT property where the current contaminant plume resides. At that time, the plume will be located within Trust-controlled property.

Golden King Mine

At a glance

- Total settlement: \$0.5 million
- **County:** Chelan
- Total size: 13 acres
- **Cleanup focus:** Removing or capping mine tailing to improve water quality in the adjacent creek

The Golden King/Lovitt Mine is located near Wenatchee, on the west side of the Squillchuck Creek Drainage. There are an estimated 450,000 cubic yards of tailings deposited in a tailing's impoundment in the bottom of Squillchuck Creek.



Figure 4: Golden King/Lovitt Mine.

Settlement cleanup activities

We have been denied access from the current property owner. No investigation or cleanup can happen without property access. We have the location of the tailings pile, but no sampling information for the tailings or the well. Without an imminent health or environmental threat, it will be hard to establish a compelling reason to use legal means to get access to the property. We don't anticipate progress on this site in the near term unless property ownership changes. As of Fiscal Year 2022, the access issues at Golden King Mine remain unchanged.

Monte Cristo Mine

At a glance

- Total settlement: \$6.5 million
- **County:** Snohomish
- **Total size:** 54 mines and one mill
- **Cleanup focus:** Soil, surface water, and sediment

In the summer of 1889, settlers discovered the area and quickly established a mining town. In 1893, the railroad was completed to transport ore to the Everett smelter.

Mineral production flourished for a few years until massive floods destroyed rail access in 1897.

Mining became intermittent, operated by a few smaller companies until 1920. The site is located on a mix of private and federal property. The Monte Cristo Mining Area is a popular historic mining town site and hiking area.

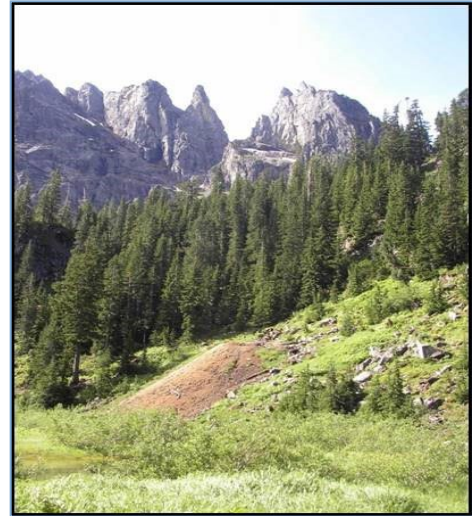


Figure 20: Monte Cristo Mine

Settlement cleanup activities

- **2011-2017:** Completed a Remedial Investigation and Feasibility Study. Soil, sediments, groundwater, and surface water are contaminated with metals from past mining practices.
- **2017-2013:** Conducted an environmental review which included public outreach, a study of bat habitat, and a topographic survey. Monte Cristo is located on United States Forest Service (USFS) land and is designated as a road-less area. Additional studies were necessary to allow for the construction of access roads.
- **2013-2015:** Access roads were built so trucks with equipment could be brought to the site. The onsite repository, where most contaminated mining waste will be placed, was completed. This onsite repository was the main component of the remedy.
- **2015-2016:** We removed contaminated waste and waste rock and placed it into the repository. We diverted and treated minor spill discharge and conducted water quality monitoring and revegetation.
- **2016-2022:** We are performing ongoing operations and maintenance of the repository, and water quality monitoring. We plan to install public health signs for visitors.

Accomplishments through Fiscal Year 2022

Accomplishments include interactions with the USFS on continued maintenance of the repository, performing water quality monitoring, and installing public health signs for visitors, as well as identifying work to utilize remaining funds.

The USFS will continue with the road closure to the Mining Area to reduce access to the site but allow as needed governmental access to the repository for assessment and maintenance. Remaining funds will be used for signs warning users of the risks to human health from the remaining contaminated soil, surface waters, and mine entrance; and other opportunities to address adverse impact to the environment resulting from mining activities. One possible option being explored is removal of a creosote pile bridge that was part of the original mining development.

Van Stone Mine

At a glance

- Total settlement: \$3.5 million
- **County:** Stevens
- **Total size:** ~150 acres
- **Cleanup focus:** Soil, sediment, surface water

The Van Stone Mine was the State's largest open pit mine (see Figure 21). The mine is located about 28 miles northeast of Colville. The mine operated from 1951 to 1994 under several owners, including Asarco. Approximately 270,000 tons of ore were extracted from 1.3 million tons of rock. The Upper Tailings Pile has broken twice, with the most recent event occurring in 2012.



Figure 21: Van Stone Mine

Settlement cleanup activities

- **2012-2017:** Conducted a Remedial Investigation and Feasibility Study for soils, sediments, wastes, groundwater, and surface water. In addition, an Emergency Action was conducted to address a failure at the Upper Tailings Pile.
- **2017-2022:** Conducted dam safety inspections of the Pit Lake Dam and issued notice of corrections. Develop a Cleanup Action Plan and begin engineering designs for the removal of the Pit Lake Dam over the next several years.
- **Future plans:** Complete an Engineering Design for cleanup of areas identified during the investigation and Dam Safety inspections.
-

Accomplishments through Fiscal Year 2022

We are developing the draft Cleanup Action Plan for the Van Stone Mine site and plan to complete it by fall 2022. We also began working on contracts to address identified Dam Safety concerns.

Additional funding is needed to continue work

Settlement funds in the Cleanup Settlement Account earmarked for the Van Stone Mine site will not cover the cost of cleanup. Over the next several years, the settlement funds will be used to create an engineering design for cleanup, and to remove a small unpermitted dam at the site. Additional funds outside of the Cleanup Settlement Account will be needed to continue planned cleanup activities. The preferred remedy identified in the Feasibility Study Report estimates the cleanup will cost approximately \$14 million.

Time Oil Bulk Terminal

At a glance

- Total settlement: \$1.5 million
- County: King
- **Total size:** 10.4 acres
- **Cleanup focus:** Soils, groundwater, and sediments

The Time Oil Bulk Terminal began bulk fuel operations in the early 1940s, primarily to support World War II efforts. The former Time Oil Bulk Terminal supported large quantities of fuel being stored and distributed during and after the war. In later years, portions of it were leased to other parties for industrial purposes. The historical operations and uses resulted in releases of petroleum hydrocarbons, chlorinated solvents, wood preservative, and metals into the soil, groundwater, and sediments in Salmon Bay.

Settlement spending plan

In October 2020, Ecology signed a Prospective Purchaser Consent Decree (PPCD) to clean up four parcels that make up a large portion of the Time Oil Bulk Terminal site. We received an initial payment of \$300,000, with an additional \$1.2 million due within four years of the date of closing of the property sale. These settlement funds will be held in the Cleanup Settlement Account for future remedial actions in Salmon Bay or at other areas associated with the Time Oil Bulk Terminal site.

Cleanup activities completed under the PPCD

- In 2021, several cleanup activities (see Figure 21) were completed on the four parcels by the new property owner in accordance with the PPCD. Those activities included:
- Excavation and off-site disposal of over 15,380 tons of contaminated soil containing petroleum hydrocarbons and heavy metals.
- In-situ solidification and stabilization (encapsulation) of approximately 27,900 cubic yards of contaminated soil and groundwater containing chlorinated solvents and petroleum hydrocarbons.
- Injection of treatment substances to stimulate in-situ groundwater remediation.
- Installation of an interceptor trench and permeable reactive barrier to capture and treat contaminated groundwater migrating onto the property from an adjacent parcel.

To complete the activities prescribed in the Cleanup Action Plan, a protective surface cap and institutional controls will be implemented in conjunction with planned redevelopment of the

property over the next two to three years. A compliance monitoring program is also being developed to satisfy cleanup requirements for the Time Oil Bulk Terminal site.



Figure 5: Site cleanup activities underway in 2021

Pacific Wood Treating

At a glance

- **Total settlement:** Approximately \$2.3 million
- **County:** Clark
- **Total size:** Residential yard and street right of way.

Cleanup focus: Soil removal and restoration.

The Pacific Wood Treating Site is located in Ridgefield, Washington. The site encompasses the Lake River Industrial area, Carty Lake to the north, the Port of Ridgefield (Port) Railroad Avenue properties and off-Port of Ridgeway property residential area to the east, the Railroad Overpass property to the south, and the adjoining portion of Lake River to the west.



Figure 23: Soil replacement on a property

Pacific Wood Treating (PWT) operated at the Site from 1964 to 1993 as a lessee of property owned by the Port, the City of Ridgefield, and Union Pacific Railroad. They treated wood products using oil-based treatment solutions containing various hazardous substances such as creosote, pentachlorophenol, and CCA (a copper, chromium, and arsenic mixture). PWT ceased wood treating operations in 1993, when the company declared bankruptcy.

Activities prior to settlement

Cleanup activities have been ongoing since 1996. Overall, Ecology has granted or loaned approximately \$83 million to the Port of Ridgefield for site cleanup, one of the most expensive state-funded cleanups in Washington. The last grant/loan package from Ecology to the Port was \$15 million, which covered reimbursement requests from July 2014 to November 2020. The grant was used for cleanup activities.

Cleanup of much of the off-Port of Ridgeway property area has been completed. Some of the cleanup actions include the following:

- Cleanup of dioxin-impacted soils in residential yards and street rights-of-way at off-Port of Ridgeway property locations. Cleanup involves soil removal and replacement. 29 properties have been cleaned up (see Figure 23 and 24). Fifteen residences still require soil cleanup. Excavated soil is disposed at a landfill.
- Excavation of dioxin-impacted sediment in portions of Lake River and Carty Lake and placement of an enhanced natural recovery layer (sand cap cover) over the excavated areas. Excavated sediment was disposed at a landfill. This has been completed.

- Cleanup of wood treating compounds (including dioxins) in the industrial area, railroad properties, and overpass soil. We completed excavating soil locations with high contaminant levels and disposed them at a landfill. A soil cap was installed over these excavated areas and institutional controls will be put into use. Institutional controls are required by the Agreed Order but have not been put into place yet.
- Removal of wood-treating product pooled on the groundwater and impacted groundwater from the Lake River Industrial area subsurface using steam injection, groundwater and product pumping and soil vapor extraction. We separated the product from recovered water and disposed it by incineration.
- Continued ongoing monitoring of groundwater in the former Lake River Industrial area.



Figure 6: Soil restored on a property

Activities to be funded by the settlement

The settlement will allow Ecology to complete the final off-Port of Ridgefield property cleanup. Yard soil removal is required on 15 residential properties and 36 rights-of-ways. Ecology plans to hire contractors to remove dioxin-impacted soil from these areas in Ridgefield. Settlement funds will be used to pay for soil excavation and transport and landfill disposal costs. It will also be used to purchase and transport replacement soil, contractor costs for yard, rights-of-way restoration layout, materials, and labor.

Conclusion

Cleanup Settlement Account helps cleanup projects move forward

Significant work has been done on cleanup sites using funds from the Cleanup Settlement Account. At the Everett site, we completed sampling 26 residential properties, and we are working to offer residential soil sampling to the 46 non-responsive property owners. A public works contract went out to bid in May 2022 and will be executed in summer of 2022. We expect to hire a contractor for 40 additional properties in the fall of 2022. We have begun working with the City of Everett to improve existing storm water conveyance systems, and limit access to contaminated areas in lowland area.

At the Tacoma Smelter Plume site, we replaced contaminated soil at 24 properties, including childcare facilities, and provided technical assistance to developers and owners who are cleaning up 18 different properties through our Voluntary Cleanup Program. Three of those developers have already completed cleanups of 47 acres. TPCHD and PHSKC health departments continued to connect with community members on how to protect children and pets from arsenic and lead contaminated soil.

Work also continues to move forward on habitat restoration activities. One significant example is the Harper Park in Kitsap County. Some improvements in 2022 included their removal of the Ross Point Bulkhead in Sinclair outlet and reconnection of Milewah Creek to marine waters on McNeil Island.

The balances in the Cleanup Settlement Account for sites like B&L Woodwaste and Monte Cristo Mine, will provide resources for future cleanup, ongoing operations and maintenance, and water quality monitoring.

Additional funding needed to complete some cleanup projects

At the end of Fiscal Year 2022, the remaining balance in the Cleanup Settlement Account was \$56,558,000. While significant, these settlement funds will not be enough to complete all phases of the cleanup projects.

In the future, sites like the Everett Smelter and Tacoma Smelter Plume, will need to rely on other fund sources to pay for cleanup. In the past, we requested, and the Legislature funded cleanup projects from the Model Toxics Control Act accounts for cleanup activities. Ecology requested additional funds for the Everett Smelter Plume from MTCA Capital for the 2023-25 biennium. The Tacoma Smelter Plume is still spending currently available Cleanup Settlement Account Funds and does not have a budget request for 2023-25 (currently appropriated funds are expected to be sufficient through next biennium).

Every year, we identify more contaminated sites than can be cleaned up. As of June 30, 2022, more than 13,911 sites have been reported and more than 7,565 sites have been cleaned up. The number of contaminated sites continues to grow as we work on existing sites. To continue moving many of these cleanups forward, additional funding will be needed from the Model Toxics Control Act accounts or other funding sources identified by the Legislature.

The Cleanup Settlement Account is important to our work. The settlement funds held in the Account enable us to clean up contamination, support sustainable communities, and create a better environment for present and future generations. With effective management plans in place, and additional funding by the Legislature, Ecology will continue the cleanup work made possible by the Cleanup Settlement Account for many years into the future.

Appendices

Appendix A. Statutory Authority – RCW 70A.305D.130

The statutory provision creating the Cleanup Settlement Account is currently codified in RCW 70A.305.130. The provision was amended by Engrossed Substitute Senate Bill 5993 in 2019. The provision, as amended, states:

- (1) The cleanup settlement account is created in the state treasury. The account is not intended to replace the model toxics control capital account established under RCW 70A.305.190. All receipts from the sources identified in subsection (2) of this section must be deposited into the account. Moneys in the account may be spent only after appropriation. Expenditures from the account may be used only as identified in subsection (4) of this section.
- (2) The following receipts must be deposited into the cleanup settlement account:
 - (a) Receipts from settlements or court orders that direct payment to the account and resolve a person's liability or potential liability under this chapter for either or both of the following:
 - (i) Conducting future remedial action at a specific facility, if it is not feasible to require the person to conduct the remedial action based on the person's financial insolvency, limited ability to pay, or insignificant contribution under RCW 70A.305.040(4)(a);
 - (ii) Assessing or addressing the injury to natural resources caused by the release of a hazardous substance from a specific facility; and
 - (b) Receipts from investment of the moneys in the account.
- (3) If a settlement or court order does not direct payment of receipts described in subsection (2)(a) of this section into the cleanup settlement account, then the receipts from any payment to the state must be deposited into the model toxics control capital account.
- (4) Expenditures from the cleanup settlement account may only be used to conduct remedial actions at the specific facility or to assess or address the injury to natural resources caused by the release of hazardous substances from that facility for which the moneys were deposited in the account. Conducting remedial actions or assessing or addressing injury to natural resources includes direct expenditures and indirect expenditures such as department oversight costs. During the 2009-2011 fiscal biennium, the legislature may transfer excess fund balances in the account into the state efficiency and restructuring account. Transfers of excess fund balances made under this section may be made only to the extent amounts transferred with required repayments do not impair the ten-year spending plan administered by the department of ecology for environmental remedial actions dedicated for any designated clean-up site associated with the Everett smelter and Tacoma smelter, including plumes, or former Asarco mine sites. The cleanup settlement account must be repaid with interest under provisions of the state efficiency and restructuring account.
- (5) The department must track moneys received, interest earned, and moneys expended separately for each facility.

(6) After the department determines that all remedial actions at a specific facility, and all actions assessing or addressing injury to natural resources caused by the release of hazardous substances from that facility, are completed, including payment of all related costs, any moneys remaining for the specific facility must be transferred to the model toxics control capital account established under RCW 70A.305.190

(7) The department must provide the office of financial management and the fiscal committees of the legislature with a report by October 31st of each year regarding the activity within the cleanup settlement account during the previous fiscal year.

Appendix B. Contaminated Site Information

You can find more information about the cleanup and restoration projects currently and formerly funded through the Cleanup Settlement Account by visiting the web pages for those projects, which are listed below.

B&L Woodwaste cleanup: <https://apps.ecology.wa.gov/gsp/Sitepage.aspx?csid=2297>.

BNSF Skykomish natural resource damages:
<https://apps.ecology.wa.gov/gsp/Sitepage.aspx?csid=34>.

City Parcel cleanup: <https://apps.ecology.wa.gov/gsp/Sitepage.aspx?csid=1023>.

Everett Smelter cleanup: <https://ecology.wa.gov/Spills-Cleanup/Contamination-cleanup/Cleanup-sites/Toxic-cleanup-sites/Everett-Smelter>.

Golden King Mine cleanup: <https://apps.ecology.wa.gov/gsp/Sitepage.aspx?csid=2746>.

Harper Estuary restoration: <http://westsoundwatersheds.org/default.aspx?ID=22>.

Lilyblad Petroleum cleanup: <https://apps.ecology.wa.gov/gsp/Sitepage.aspx?csid=4329>.

McNeil Island restoration: <https://www.dnr.wa.gov/mcneil-island-shoreline-restoration>.

Maury Island Open Space cleanup: <https://apps.ecology.wa.gov/gsp/Sitepage.aspx?csid=1532>.

Monte Cristo Mine cleanup: <https://apps.ecology.wa.gov/gsp/Sitepage.aspx?csid=4550>.

Pacific Wood Treating: <https://apps.ecology.wa.gov/gsp/Sitepage.aspx?csid=3020>

Ross Point restoration: There is no webpage available.

Tacoma Smelter Plume cleanup: <http://ecology.wa.gov/Tacoma-smelter>.

Time Oil: : <https://apps.ecology.wa.gov/gsp/Sitepage.aspx?csid=14604>

Van Stone Mine cleanup: <https://apps.ecology.wa.gov/gsp/Sitepage.aspx?csid=461>.

Time Oil: : <https://apps.ecology.wa.gov/gsp/Sitepage.aspx?csid=14604>

Pacific Wood Treating: <https://apps.ecology.wa.gov/gsp/Sitepage.aspx?csid=3020>

Appendix C. Information about sites funded in past years

Information about sites funded in past years through the CSA can be found through the links in Appendix B and in CSA reports of the past years referenced below.

<https://ecology.wa.gov/About-us/Who-we-are/Our-Programs/Toxics-Cleanup/TCP-Legislative-reports>

CSA Report 2021

<https://apps.ecology.wa.gov/publications/summarypages/2109081.html>

CSA Report 2020:

<https://apps.ecology.wa.gov/publications/summarypages/2009081.html>

CSA Report 2019:

<https://apps.ecology.wa.gov/publications/summarypages/1809102.html>

For more information about the Toxics Cleanup Program, visit our website:

<https://ecology.wa.gov/About-us/Get-to-know-us/Our-Programs/Toxics-Cleanup>.