



# **Maury Island Open Space Remediation Annual Monitoring Report May 2024 - May 2025**

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# Table of Contents

1. Introduction .....	3
2. Cleanup Action and Objectives .....	3
2.1 Capping .....	4
2.2 Vegetation Restoration (includes Interim Action) .....	4
2.3. Institutional Controls .....	4
2.3.1 Physical Measures.....	4
2.3.2 Educational Measures.....	4
3. Compliance Monitoring and Maintenance .....	4
3.1 Inspection Results .....	6
4. References .....	11
Figure 1: Vicinity and Location Map .....	12
Figure 2: Cleanup Action .....	13
Figure 3: Permanent Photo Points .....	15
Appendix A – Monitoring and Inspection Forms .....	17

## 1. Introduction

The Annual Monitoring Report describes the monitoring and maintenance of the Cleanup Action at the Maury Island Open Space, Washington State Department of Ecology (Ecology) Facility Site #2901216. The required monitoring and maintenance is described in the site’s Compliance Monitoring and Institutional Control Plan (King County, 2019).

The Cleanup Unit is 266 acres located on the southeast side of Maury Island in unincorporated King County (County), Washington (Figure 1), and lies within the larger Tacoma Smelter Plume. Sites within the Tacoma Smelter Plume often have surface soils with levels of arsenic, lead, and Polycyclic Aromatic Hydrocarbons (PAHs) that exceed safe levels for human exposure. A Remedial Investigation (RI) completed in 2014 (CDM Smith, 2014a). The Cleanup Action Plan was based on the RI, Feasibility Study (FS) (Parametrix, 2017), and Final Cleanup Action Plan (DCAP) (Ecology, 2019) prepared per the requirements of Agreed Order No. DE 8439 (dated January 31, 2013), between Ecology and King County.

## 2. Cleanup Action and Objectives

The proposed cleanup action involves vegetation restoration in contaminated areas, capping of contamination, and institutional controls including land use restrictions. The objective of the cleanup is to limit human exposure to the soil contaminants in a way that allows for continued use of the property as a park and avoids damage the valuable habitat within the park. The institutional controls and land use restrictions for the site are set in place to prohibit activities that may interfere with the cleanup action, operation and maintenance, or monitoring; or may result in the release of a hazardous substance that was contained as a part of the cleanup action.

Figure 2 shows the Cleanup Unit boundary, and general locations of the capping, vegetation restoration, and fencing. The cleanup is occurring in Phases. Table 1 summarizes the status of the cleanup phases.

**Table 1: Status of the Cleanup Action Phases**

Cleanup Action	Brief Summary	Completion Status	Date Completed (or Estimated Completion)
Vegetation Restoration (Acres 1 -3)	Interim Action including three acres of vegetation restoration.	Completed	December 2016
Trail Capping & Institutional Controls	Cap trails with 6-inches of gravel or with gravel/soil combination. Installed warning signage.	Completed	May 2020
Skeet Range Capping & Institutional Controls	Cap former skeet range with gravel to create a small parking area. Install warning signage and fencing.	Completed	October 2021
Vegetation Restoration (Acres 4-6)	Three acres of vegetation restoration.	Completed	March 2022
Vegetation Restoration (Acres 7-10) & Wetland Remediation	Four acres of vegetation restoration.	Final Design in Process	October 2025
Vegetation Restoration (Acres 11-13)	Three acres of vegetation restoration and limited wetland remediation to remove contaminated duff.	Starting October 2027	March 2028

Vegetation Restoration (Acres 14-16)	Three acres of vegetation restoration.	Starting October 2030	March 2031
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The Cleanup Actions that should be monitored and maintained are described in more detail below.

## 2.1 Capping

Many of the existing trails throughout the Cleanup Unit, that had levels of contaminants above the cleanup, were with three to four inches of compacted gravel, topped by three inches of a mineral soil combined with an additive that is used on baseball infields to bind the soil. Existing maintenance access roads and other trails roads will be capped with compacted gravel only.

In addition, Unit 5 a contaminated area large enough for a small parking area will be cleared and grubbed and capped with a minimum of six inches of compacted gravel.

## 2.2 Vegetation Restoration (includes Interim Action)

Limited soil removal will occur in Units 3c and 3e, along with clearing of invasive plants. The area will then be covered with three inches of a compost cap, and revegetated with native plants. The density of the mature native plantings will provide a physical barrier that will discourage foot traffic, and also provide especially valuable habitat through these units. Until the plantings mature, providing a physical barrier, the compost layer will provide a physical barrier that will reduce the potential for direct contact with underlying soils.

Limited removal of surface duff and some surface soil will also occur in the wetland in Unit 5. Only the minimum material necessary will be removed to bring lead levels below the Cleanup Level while protecting valuable habitat.

## 2.3. Institutional Controls

### 2.3.1 Physical Measures

A barrier fence will be installed around the gravel parking area to discourage access to the uncapped and contaminated portion of Unit 5. The barrier fence will be backed by dense thorny vegetation to further discourage access.

In addition, the vegetation in Units 3c and 3e will be planted especially dense to discourage access to the off-trail areas.

### 2.3.2 Educational Measures

Warning signs are being posted and maintained along trails throughout the Cleanup Unit to educate users to potential contaminants exposure risk if they leave the capped trail.

## 3. Compliance Monitoring and Maintenance

At regular intervals, the site is being evaluated and inspected to ensure the cleanup measures are functioning as intended. Evaluations and inspections are performed by King County staff at the intervals shown in Table 2 as part of the regular maintenance and operations activities in the park. Maintenance and repair activities are triggered based on observations made during these evaluations.

The Compliance Monitoring and Institutional Control Plan (King County, 2019) refers to “significant” repairs. If damage occurs to the cap, fencing, or other protective measure, to the point where park users are exposed to the contamination, the associated repair would be considered significant. For example, if

a large tree branch pierced a capped trail, exposing the contaminated soil underneath, that repair would be considered significant and should be described in the annual report. Routine maintenance such as leaf blowing or even minor repairs when the contaminated soil was never exposed are not considered significant.

As described in the Compliance Monitoring and Institutional Control Plan (King County, 2019) significant repairs should be performed by experienced contractors that are licensed and bonded. King County Parks reached out to Ecology in 2021 to future clarify this requirement, and confirmed that King County crews are also allowed to make significant repairs if the total repair cost is below \$90,000, which is the state threshold for when a government agency must use a contractor for capital construction work. The King County Job Order Contractor is also qualified to make significant repairs. Repairs should be conducted following the same procedures used during the cleanup action construction.

**Table 2: Site Evaluation and Maintenance Schedule**

Maintenance Item	Evaluation Frequency
Cap Inspection	Quarterly
Cap Repair or Maintenance	As-needed
Vegetation Restoration Inspections	Bi-Annually (spring and fall)
Vegetation Restoration Repairs or Maintenance	As-needed
Institutional Controls	
Physical Measures (Fences/Vegetative Barriers) Inspection	Quarterly
Physical Measures (Fences/Vegetative Barriers) Repair or Maintenance	As-needed
Educational Measures (Signs) Inspection	Quarterly
Education Measures (Signs) Repair or Maintenance	As-needed

### 3.1 Inspection Results

Permanent photo points (Figure 3) have been established so the site can be consistently observed over time; however, regular inspections are done for the entire the cleanup unit and are not limited to the permanent photo points only. The following photos show the current status of the site at the established permanent points.

#### Photo Point 1 on 5/14/2025

Trail Cap N of SW 260<sup>th</sup> St Looking North, -122.4336 47.3711



**Photo Point 2 on 5/14/2025**

Interim Action Revegetation Looking North, -122.4338, 47.3698



**Photo Point 3 on 5/14/2025**

Trail Cap S of SW 260<sup>th</sup> St Near Lookout Looking West, -122.4361, 47.3694



**Photo Point 4 on 5/14/2025**

Trail Cap W of Gravel Pit Staging Area Looking West, -122.4459, 47.3661



**Photo Point 5 on 5/14/2025**

Stay Out of Forest Sign on Maintenance Road, -122.4437, 47.3705



**Photo Point 6 on 5/14/2025**

Parking Area Cap

-122.4371, 47.3712



**Photo Point 7 on 5/14/2025**

Parking Area Institutional Controls (Fencing and Signage) -122.4373, 47.3709



**Photo Point 8 on 5/14/2025**

Revegetation Area from Phase 2

Side Road South of SW 260<sup>th</sup> St -122.4342, 47.3708



**Photo Point 9 on 5/14/2025**

Revegetation Area from Phase 2 -122.4345, 47.3703



Inspection forms have been completed and are in Appendix A. In summary, except for the ongoing weed maintenance at the interim action site, no other additional maintenance or repairs has been needed.

## 4. References

CDM Smith. 2014a. Final, Remedial Investigation, Maury Island Open Space Property, Maury Island, Washington. Project No. 19897-99064. June 2.

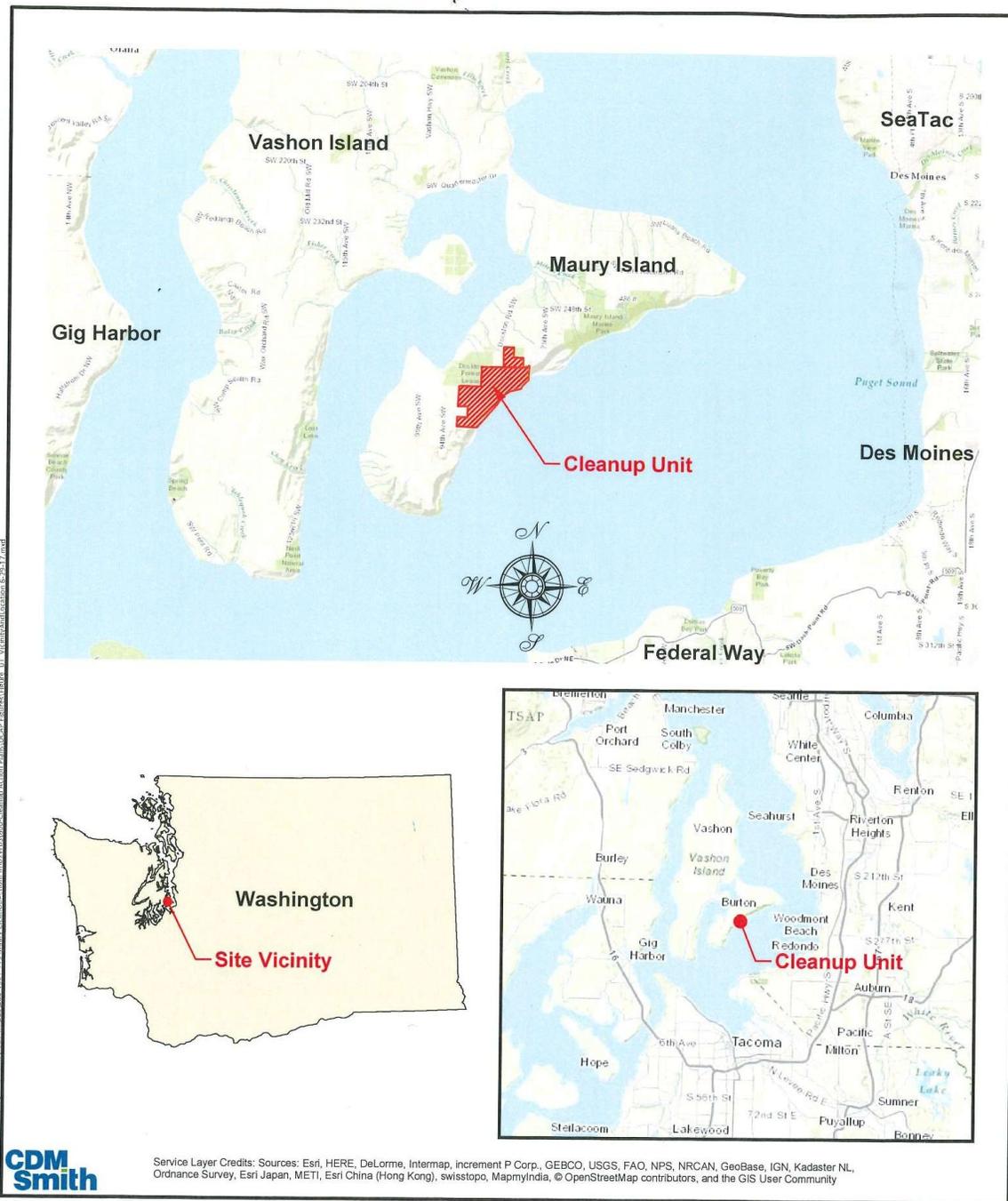
Ecology. 2013. Effective Date of Agreed order No. 8439 for Remedial Investigation/Feasibility Study and Draft Cleanup Action Plan, Maury Island Open Space Site, Maury Island, King County, WA. January 2013.

Parametrix. 2017. Draft Final Feasibility Study, Maury Island Open Space Property, Maury Island, Washington. Project No. 233-1521-175. April 17.

King County. 2019. Maury Island Open Space Remediation Compliance Monitoring and Institutional Control Plan. June 2019. Available to download at:  
<https://apps.ecology.wa.gov/gsp/CleanupSiteDocuments.aspx?csid=1532>

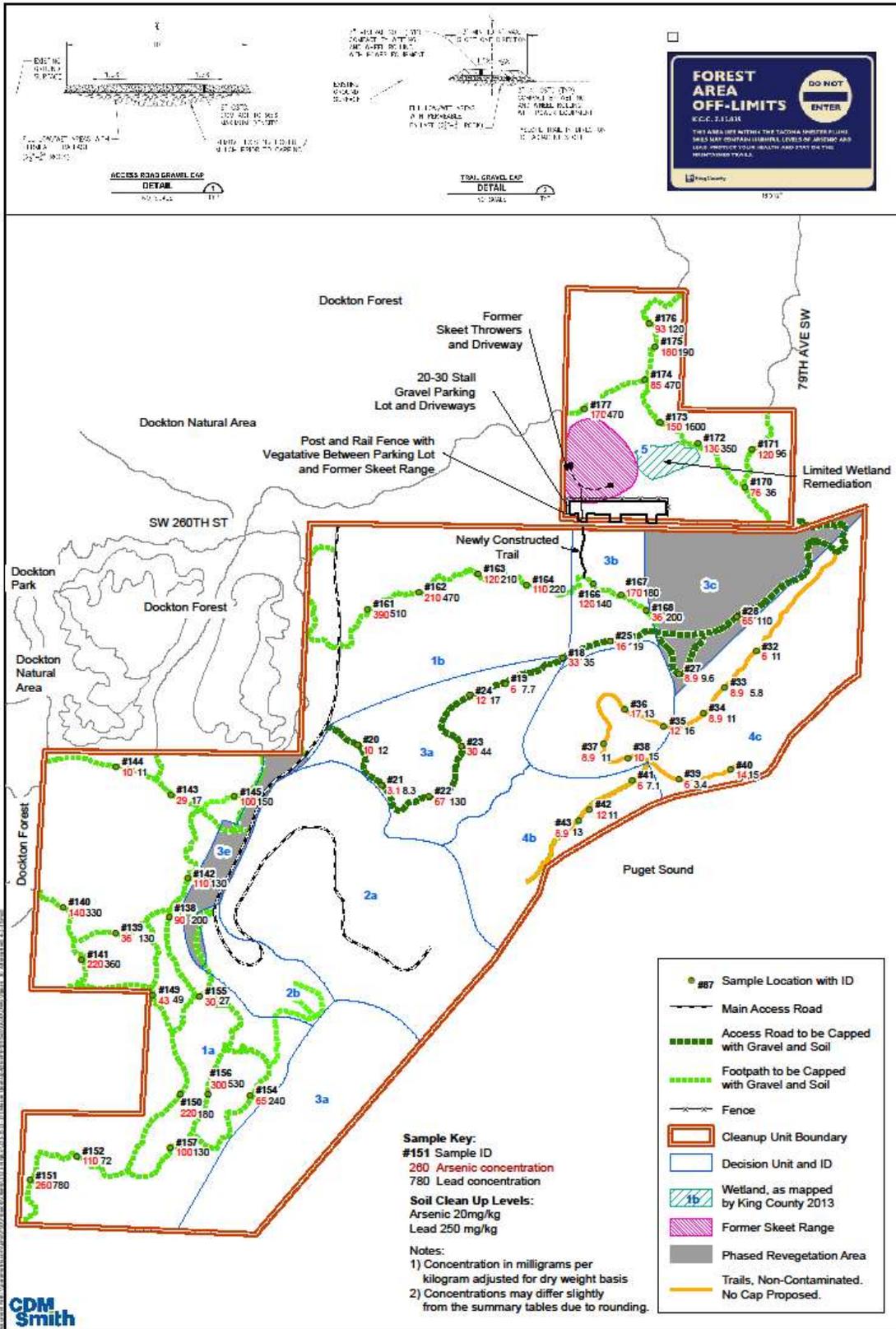
Ecology. 2019. Final Cleanup Action Plan for Maury Island Open Space Property. November 28, 2019. Available to download at: <https://apps.ecology.wa.gov/gsp/CleanupSiteDocuments.aspx?csid=1532>

Figure 1: Vicinity and Location Map

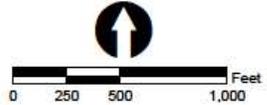


**FIGURE 1**  
**VICINITY AND LOCATION MAP**  
 Maury Island Open Space Property  
 Compliance Monitoring Plan

## Figure 2: Cleanup Action



CDM Smith  
Parametrix



**FIGURE 2**  
**CLEANUP ACTION**  
 Maury Island Open Space Property  
 Compliance Monitoring Plan

Figure 3: Permanent Photo Points





## Appendix A – Monitoring and Inspection Forms