

Washington Department of Ecology Everett Smelter Site Summer 1999 Cleanup

Details of Cleanup Activities

The Department of Ecology (Ecology) cleaned up the yards of ten homes within the Everett Smelter Site in the summer of 1999. The cleanup was conducted according to the *Everett Smelter Site: Integrated Draft Cleanup Action Plan and Draft Environmental Impact Statement for the Upland Area*. The cleanup plans were made final in November 1999. The final plans contain no substantive differences from the draft plans.

This report describes the cleanup actions that were conducted, what arsenic-contaminated soil was not removed, and where it remains for the following location:

Property Owner: Virginia Kingston

Address:
2829 Medora Way
Everett, WA 98201

Snohomish County
State of Washington
Tax Parcel No. #5203-000-021-0009

This property was divided by Ecology into two Decision Units, A and B, as shown on the attached map, for purposes of pre-cleanup sampling and decision-making regarding the depth to which excavation was required. A portion of the property to the east of the existing home was too steep to carry out excavation. Ground cover was planted in this portion of the property. The following is a summary of the work done in the remediation of the property within each of the decision units.

Decision Unit: A

Results of pre-cleanup sampling indicated 24 inches of soil were to be excavated from within this decision unit. Attachment B shows that below 24 inches, results of composite and discrete sample analyses are below the remediation levels of 150 and 500 parts per million (ppm) respectively. However, because the soil below 24 inches contains arsenic levels above the cleanup level of 20 ppm, a geofabric marker was placed. The owner of the property directed that ground cover, rather than sod, be planted over a large part of the excavated area. In order to reestablish a level portion of this area, which was planted



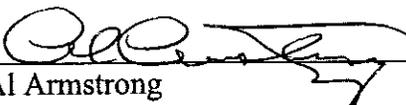
with grass, a block retaining wall was constructed. In order to facilitate excavation, the existing chainlink fence and the maple tree near the southern end of the house were removed, then replaced upon completion of excavation and backfilling.

Field measurements by the Ecology on-site coordinator confirmed that soil was removed to a depth of 24 inches. The only exception was along the southern side of the existing home where the excavation was sloped approximately 1:1 away from the foundation to protect the integrity of the structure. After placing a geofabric marker, backfilling with clean backfill material and topsoil was carried out, as described in the *Specifications for Everett Residential Soil Remediation*.

Decision Unit: B

Results of pre-cleanup sampling indicated 24 inches of soil were to be excavated from within this decision unit. Attachment B shows that below 24 inches, composite sample analysis results are below the remediation level of 150 ppm. However, because the soil below 24 inches contains arsenic levels above the cleanup level of 20 ppm, a geofabric marker was placed. In order to facilitate excavation, the existing chainlink fence was removed, then replaced upon completion of excavation and backfilling.

Field measurements by the Ecology on-site coordinator confirmed that soil was removed to a depth of 24 inches. Within the dripline of the existing tree beside the fence in front of the existing home (west of southwest corner of house) only the existing sod was removed; beyond the dripline, 24 inches were excavated. At the owner's request, the flowerbed along the north end of the home was not disturbed. Also, because the asphalt driveway was believed to be structurally sound, and would therefore provide an adequate cap over contaminated soil possibly underlying the driveway, it was not removed. After placing a geofabric marker, backfilling with clean backfill material and topsoil was carried out, as described in the *Specifications for Everett Residential Soil Remediation*.


Al Armstrong
Washington Department of Ecology

November 30, 1999

ATA:aa

- Attachments:
- A. Site Map
 - B. Graphs of Arsenic concentration vs. depth (1 page)
 - C. Explanation of graphs

Note: If the attachments listed above do not accompany this document, copies may be obtained from Ecology. Please contact Sally Perkins, Central Files of Ecology's



Northwest Regional Office (NWRO), at (425) 649-7190 for information on obtaining copies.

cc: Ecology Central Files, NWRO
Mary Sue Wilson, Assistant Attorney General
Mike Young, Snohomish Health District
City of Everett
Snohomish PUD
Northeast Everett Community Organization
Northwest Everett Neighborhood Association





Chainlink Fence

1136 sq. ft.

Asphalt Driveway

Bush
Remove &
replace

970 sq. ft.

22'

39'

Steep

Plant with Ground Cover

Tree

Water
Meter

Terraced with 6x6 ties

MEDORA WAY

▽A10

Flat

▽A9

▽A8

▽A8

A7▽

2352 sq. ft.

▽A6

Sloped

▽A2

▽A5

▽A3

▽A4

Attachment A

2829
MEDORA WAY

 Decision Unit A

 Decision Unit B

Scale 1" = 20'

