



STATE OF WASHINGTON  
DEPARTMENT OF ECOLOGY

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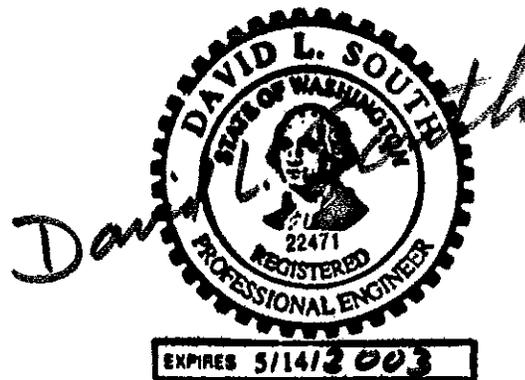
**Professional Engineer's Statement  
Everett Smelter Cleanup, 2000-2001**

Sampling and soil remediation were carried out at the following homes within the Everett Smelter Site during the years 2000 and 2001:

<u>Address</u>	<u>Owner</u>
Muriel Jones	110 Bridgeway
Andrew Michels	235 Bridgeway
Jeanette Mempa	236 Bridgeway
Thomas, Christine & Ronnie	240 Bridgeway
Martha Watkins	244 Bridgeway
Joanne Felmer	2803 Medora Way
Terry Tavares & Linda Guy-Tavares	2811 Medora Way
Duane & Edna Rapelje	2817 Medora Way
Dave & Rene Goodrich	2818 Medora Way
Ron & Bonnie Sylvester	2830 Medora Way
Anh Black	528 Hawthorne
Steve & Sherrie Wamba	415 Legion Drive
Gary & Darlene Bunger & Sandra Kane	112 Skyline Drive
Michael Paeth	116 Skyline Drive
Randy Hall	212 Skyline Drive
Willy Pompey	215 Skyline Drive
Dorothy Larson	218 Skyline Drive
Bob & Peggy Redline	221 Skyline Drive
Michael & Sheila Crehan	222 Skyline Drive
Kurt Bertilson	230 Skyline Drive
Louise Hiller	302 Skyline Drive
Margie Hogle	303 Skyline Drive
Fred Brown	307 Skyline Drive
Jackie Robinett	308 Skyline Drive
Al Vandebosch	316 Skyline Drive
Al Sorenson	320 Skyline Drive
Jo Newland	323 Skyline Drive
John & Christina Bull	328 Skyline Drive

Based on the results of testing and inspections, it is my opinion that the soil remediation carried out at these homes was performed in substantial compliance with the plans, specifications, and related documents governing the work.

Remediation work remaining to be done at these homes includes evaluation of crawl space data and addressing crawl spaces as necessary and carpet and duct cleaning. Some plant replacement also remains to be done and will be done this Spring.



# Washington Department of Ecology Everett Smelter Site 2000-2001 Cleanup

## Details of Cleanup Activities

The Department of Ecology (Ecology) targeted the yards of 28 homes within the Everett Smelter Site for cleanup in 2000 and 2001. Cleanup activities were conducted between August 2000 and March 2001, and again between July and November, 2001. The cleanup was conducted according to the *Everett Smelter Site: Integrated Final Cleanup Action Plan and Final Environmental Impact Statement for the Upland Area*.

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: Muriel Jones

Address: 110 Bridgeway  
Everett, WA 98201

Snohomish County  
State of Washington  
Tax Parcel No. # 003966-000-229-00

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. 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 sample analyses are below the remediation level of 150 parts per million (ppm). However, because the soil below 24 inches contains arsenic levels above the cleanup level of 20 ppm, a geofabric marker was placed.

Field measurements by the Ecology on-site coordinator confirmed that soil was removed to a depth of 24 inches. Along the sides of the existing home, walkway and driveway, the

THE UNIVERSITY OF CHICAGO  
DEPARTMENT OF CHEMISTRY  
5780 SOUTH CAMPUS DRIVE  
CHICAGO, ILLINOIS 60637

TO: [Name]  
[Address]  
[City, State, Zip]

FROM: [Name]  
[Address]

RE: [Subject]

[Text]

[Text]

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excavation was sloped approximately 1:1 away from the foundation to protect the integrity of the structures. At the owner's request, and with the exception of the junipers near the garage door, no other trees or shrubs were removed. Within the dripline of the trees and shrubs, the topsoil and sod was scraped from the top of the root ball; beyond the dripline, soils were excavated to 24 inches. The driveway and the sidewalk running from Bridgeway to the front steps of the house were not removed during excavation. The planting beds along the north side of the driveway were excavated and Keystone block was used to reconstruct the planting beds. During excavation, the drain line from the kitchen sink to the side sewer was found to be cracked. The line was repaired with PVC sewer pipe prior to backfilling. After placing a geofabric marker, the decision unit was filled with clean backfill material and topsoil, as described in the *Specifications for Everett Residential Soil Remediation*, and then covered with sod.

Decision Unit: B

Results of pre-cleanup sampling indicated 12 inches of soil were to be excavated from within this decision unit. Attachment B shows that below 12 inches, results of composite sample analyses are below the remediation levels of 60 and 150 ppm. Because the soil below 12 inches contains arsenic levels below the cleanup level of 20 ppm, no geofabric marker was necessary.

Field measurements by the Ecology on-site coordinator confirmed that soil was removed to a depth of 12 inches. Along the sides of the existing home, the excavation was sloped approximately 1:1 away from the foundation to protect the integrity of the structure. At the owners' request, two fruit trees were not removed. Within the dripline of the trees, the topsoil and sod was scraped from the top of the root ball; beyond the dripline, soils were excavated to 12 inches. A French drain was installed along the west side of the house. This is connected to plastic drain pipes along the north and south sides of the house which discharge to the street. Metal window wells were installed at the openings in the foundation to prevent sand, topsoil and surface runoff from entering the crawl space. The decision unit was filled with clean backfill material and topsoil, as described in the *Specifications for Everett Residential Soil Remediation*, and then covered with sod.



January 9, 2002

Dan Cargill  
Washington Department of Ecology

DRC:dc

- Attachments: A. Site Map  
B. Graphs of Arsenic Concentration vs. Depth  
C. Explanation of graphs



Note: If the attachments listed above do not accompany this document, copies may be obtained from Ecology. Please contact Central Records at Ecology's Northwest Regional Office (NWRO), at (425) 649-7190 for information on obtaining copies.

cc: Ecology Central Files, NWRO  
Office of the Attorney General  
Snohomish Health District  
City of Everett Public Works  
Everett Public Library  
Snohomish PUD  
Northeast Everett Community Organization  
Northwest Everett Neighborhood Association  
Asarco Information Center, Everett





# 110 Bridgeway

Everett Smelter Homesite Cleanup

Source: Snohomish Health District

- Crawlspace Samples
- DU Samples



Not to scale



