



STATE OF WASHINGTON

DEPARTMENT OF ECOLOGY

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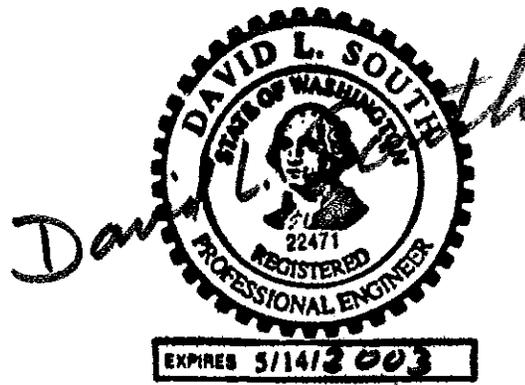
**Professional Engineer's Statement
Everett Smelter Cleanup, 2000-2001**

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 cleanup of the yards of 24 homes, within the Everett Smelter Site, during the 2000-2001 biennium. 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 removed and where it remains, for the following location:

Property Owner: Ron and Bonnie Sylvester

Address:
2830 Medora Way
Everett, WA 98201

Snohomish County
State of Washington
Tax Parcel No. # 5203-000-019-0003

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 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. Exceptions were along the foundation of the house, driveway, and the street curb, where the excavation was sloped 1:1 in order to maintain the

1. The first part of the document is a list of names and titles, including the names of the authors and the titles of their works. This list is organized in a structured manner, likely serving as a table of contents or a reference list.

2. The second part of the document is a list of names and titles, similar to the first part, but with a different arrangement or focus.

3. The third part of the document is a list of names and titles, continuing the structured list of authors and their works. The text is somewhat faint and difficult to read in some places.

4. The fourth part of the document is a list of names and titles, following the same pattern as the previous sections.

5. The fifth part of the document is a list of names and titles, continuing the structured list.

6. The sixth part of the document is a list of names and titles, following the same pattern.

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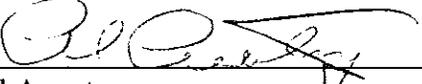
14. The fourteenth part of the document is a list of names and titles, following the same pattern.

structural integrity of those structures. At the owners' request, the tree at the northwest corner of the property was left in place. The sod and a few inches of soil were removed within the dripline of the tree. A block retaining-wall was constructed along the north side of the front yard in order to re-establish the original grade of the yard. Planter area near the front door, at the east side of the house, was excavated. After excavation of the decision unit was completed, a geofabric marker was placed, and backfilling with clean backfill material was carried out, as described in the *Specifications for Everett Residential Soil Remediation*. Topsoil was then placed, and new sod and replacement bushes were planted.

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, results of composite sample analyses are below the remediation level of 150 parts per million (ppm). Because the soil below 24 inches contains arsenic levels below the cleanup level of 20 ppm, a geofabric marker was not placed.

Field measurements by the Ecology on-site coordinator confirmed that soil was removed to a depth of 24 inches except the excavation was sloped 1:1 away from the house foundation, in order to maintain its structural integrity. At the owner's request, a metal shed at the east side of the property remained in place. A rhododendron at the southeast corner of the property remained in place and the excavation was sloped along the top of the root structure. An old septic tank was encountered, which was filled with sand. After completing the excavation, backfilling with clean backfill material was carried out, as described in the *Specifications for Everett Residential Soil Remediation*. Topsoil was then placed, and new sod was planted.



Al Armstrong
Washington Department of Ecology

December 18, 2000

ATA:aa

Attachments: Site Map
Graphs of Arsenic Concentration vs. Depth (1 page)
Graph Explanation

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

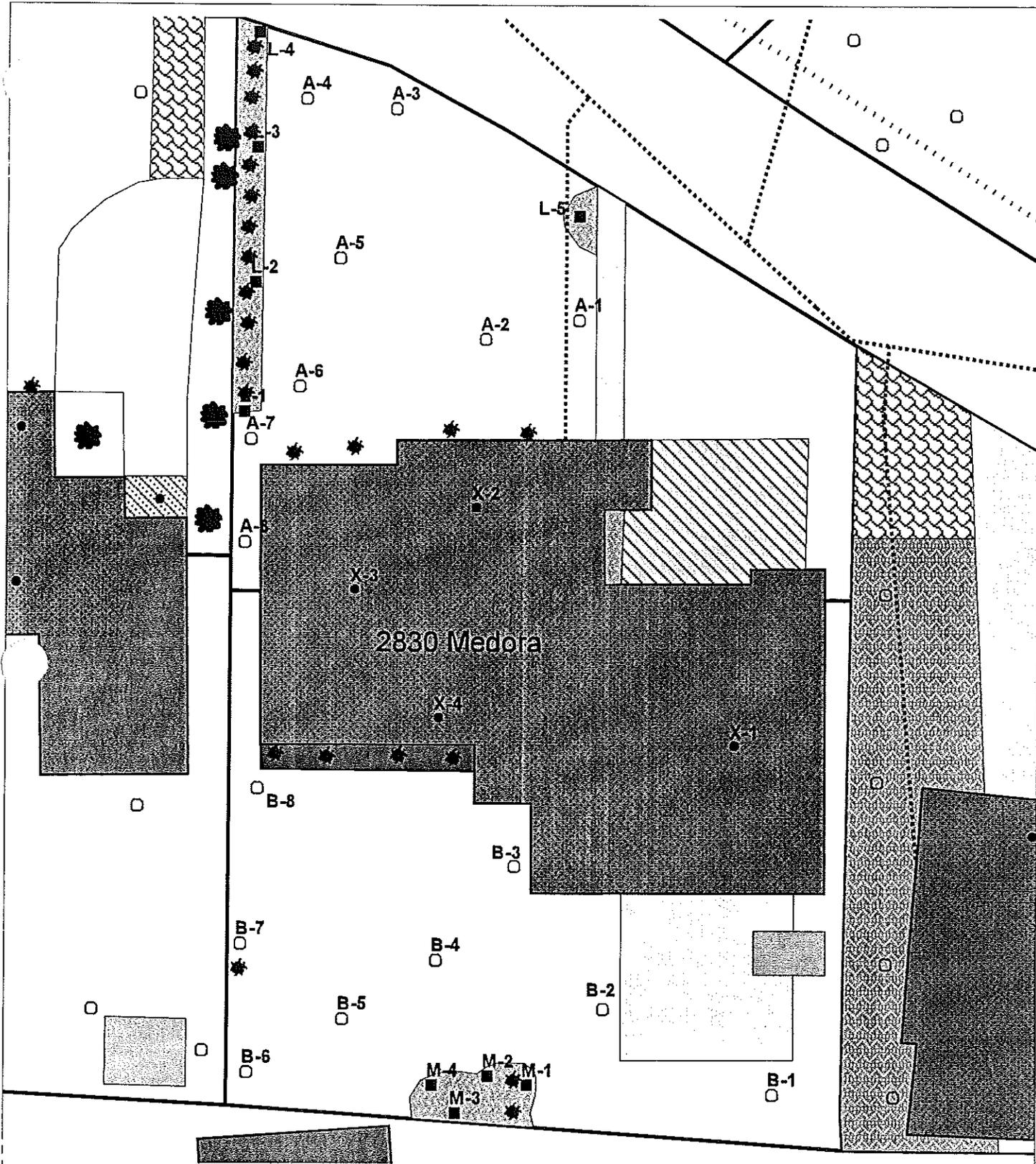
The first part of the report, covering the period from 1950 to 1952, is devoted to a detailed description of the work done during this period. It is divided into three main sections: a general introduction, a description of the work done, and a summary of the results. The general introduction deals with the objectives of the work and the methods used. The description of the work done is divided into three parts: a description of the work done in 1950, a description of the work done in 1951, and a description of the work done in 1952. The summary of the results is divided into two parts: a summary of the results of the work done in 1950 and 1951, and a summary of the results of the work done in 1952.

The second part of the report, covering the period from 1953 to 1954, is devoted to a detailed description of the work done during this period. It is divided into three main sections: a general introduction, a description of the work done, and a summary of the results. The general introduction deals with the objectives of the work and the methods used. The description of the work done is divided into three parts: a description of the work done in 1953, a description of the work done in 1954, and a description of the work done in 1955. The summary of the results is divided into two parts: a summary of the results of the work done in 1953 and 1954, and a summary of the results of the work done in 1955.

The third part of the report, covering the period from 1955 to 1956, is devoted to a detailed description of the work done during this period. It is divided into three main sections: a general introduction, a description of the work done, and a summary of the results. The general introduction deals with the objectives of the work and the methods used. The description of the work done is divided into three parts: a description of the work done in 1955, a description of the work done in 1956, and a description of the work done in 1957. The summary of the results is divided into two parts: a summary of the results of the work done in 1955 and 1956, and a summary of the results of the work done in 1957.

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



2830 Medora

Everett Smelter Homesite Cleanup

Source: Snohomish Health District

- Crawlspace Samples
- Landscape Samples
- DU Samples



Not to scale



