



STATE OF WASHINGTON

DEPARTMENT OF ECOLOGY

Northwest Regional Office, 3190 - 160th Ave S.E. • Bellevue, Washington 98008-5452 • (206) 649-7000

Professional Engineer's Statement
Everett Smelter Cleanup - 1999

Sampling and soil remediation were carried out at the following homes within the Everett Smelter Site during 1999:

<u>Address</u>	<u>Owner</u>
206 Medora Way	Maxine Ponds
211 Medora Way	Tim Smith
212 Medora Way	Robert & Eileen Stevenson
215 Medora Way	Robert & Cathy Leedy
2829 Medora Way	Virginia Kingston
2832 Medora Way	Verna Lowe
2905 Whitehorse Trail	Nick Reef
2909 Whitehorse Trail	Margie Legg
302 Bridgeway	Miji Ryan
538/556 E Marine View	Dave & Jean Taylor

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.



EXPIRES 5/14/03

February 12, 2002



Dr. M. J. ...



February 15, 1905

Washington Department of Ecology
COPY 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: Margie Legg

Address:
2909 Whitehorse Trail
Everett, WA 98201

Snohomish County
State of Washington
Tax Parcel No. # 3966-000-220-0000

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

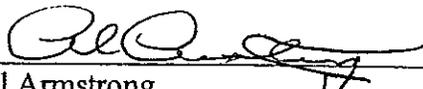
Results of pre-cleanup sampling indicated 18 inches of soil were to be excavated from within this decision unit. Attachment B shows that below 18 inches the results of composite sample analyses are below the remediation levels of 60 and 150 parts per million (ppm). Because the soil below 18 inches contains arsenic levels below the cleanup level of 20 ppm, a geofabric marker was not placed. In order to facilitate excavation, the wood fence between this property and the adjacent 211 Medora Way property was removed and, after backfilling, was rebuilt. Soil from the rose and flowerbeds (see Attachment A) was removed during excavation.

Field measurements by the Ecology on-site coordinator confirmed that soil was removed to a depth of 18 inches. Within the dripline of the row of cedar trees along the eastern edge of the property, only the existing sod was removed; beyond the dripline 18 inches were removed. Backfilling with clean backfill material was carried out, as described in the *Specifications for Everett Residential Soil Remediation*, topsoil placed, and sod planted.

Decision Unit: B

Results of pre-cleanup sampling indicated 30 inches of soil were to be excavated from within this decision unit. Attachment B shows that below 30 inches, composite and discrete sample analysis results are below the remediation levels of 150 and 500 ppm respectively. However, because the soil below 30 inches contains arsenic levels above the cleanup level of 20 ppm, a geofabric marker was placed. Soil from the rose bed along the east side of, and parallel to the driveway was removed during excavation. Because the pre-existing asphalt driveway was found to be in a deteriorated condition, the asphalt was removed, soil excavated to a depth of 6 inches and replaced with crushed rock and a 2-inch thickness of asphalt. The garden and rhododendron at the north corner of the property were removed; clean topsoil was placed in the garden area.

Field measurements by the Ecology on-site coordinator confirmed that soil was removed to a depth of 30 inches. Exceptions were that approximately 24 inches of soil were removed from over utility lines running parallel and adjacent to the sidewalk next to the front of the house. Approximately 18 inches of soil were excavated from over utility lines in the parking strip next to the block wall along Whitehorse Trail. At the owner's request, the flowerbed adjacent to the front porch of the house was not removed, and soil from flowerbeds next to the house between the sidewalk and the front of the house was not removed. After placing a geofabric marker, except over utility lines and beneath the excavated driveway area, backfilling with clean backfill material was carried out, as described in the *Specifications for Everett Residential Soil Remediation*. Topsoil was then placed, and sod planted.


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

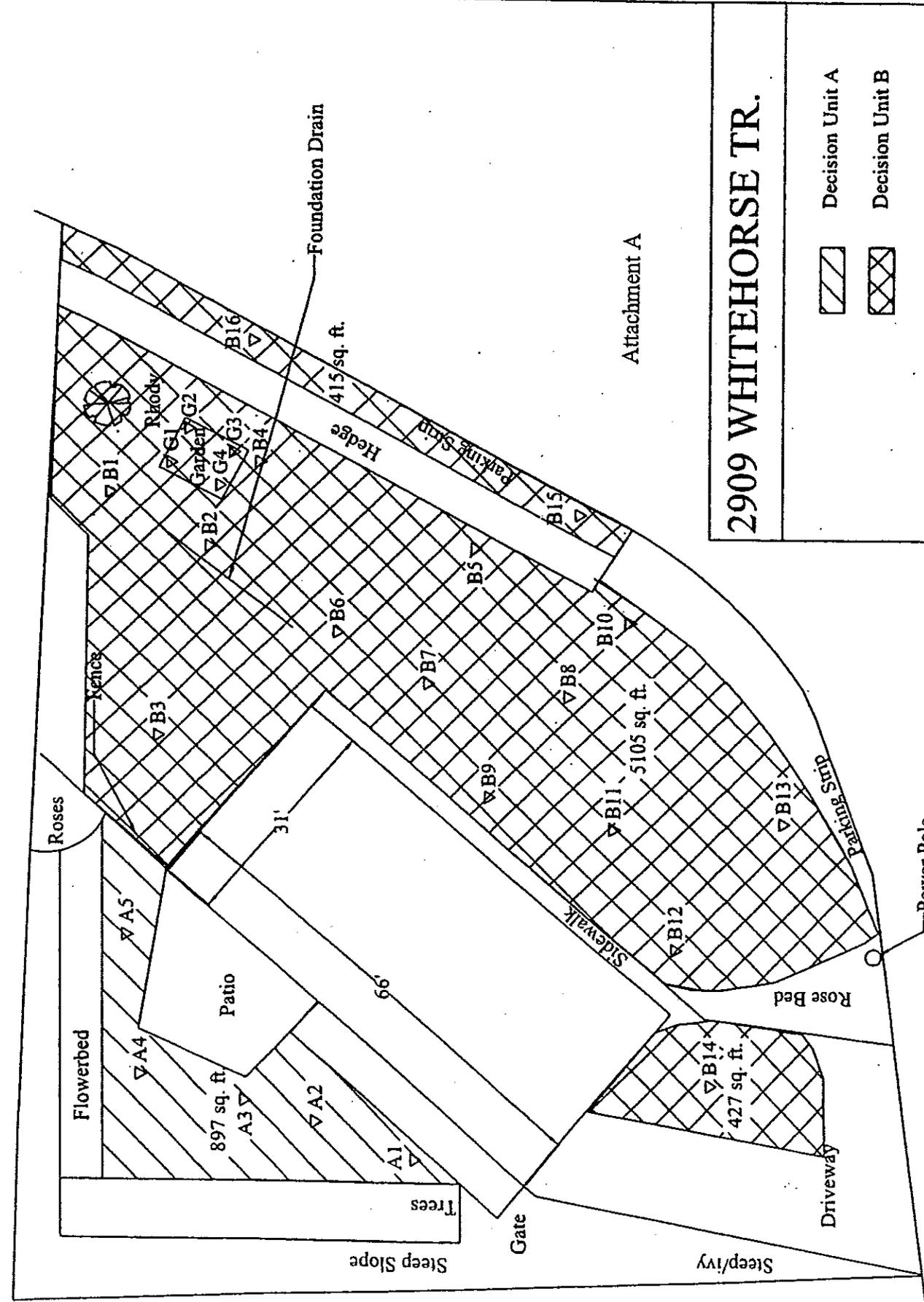
Note: If the attachments listed above do not accompany this document, copies may be obtained from Ecology. Please contact Sally Perkins, Central Files of Ecology's Northwest Regional Office (NWRO), at (425) 649-7190 for information on obtaining copies.

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

2909 WHITEHORSE TR.

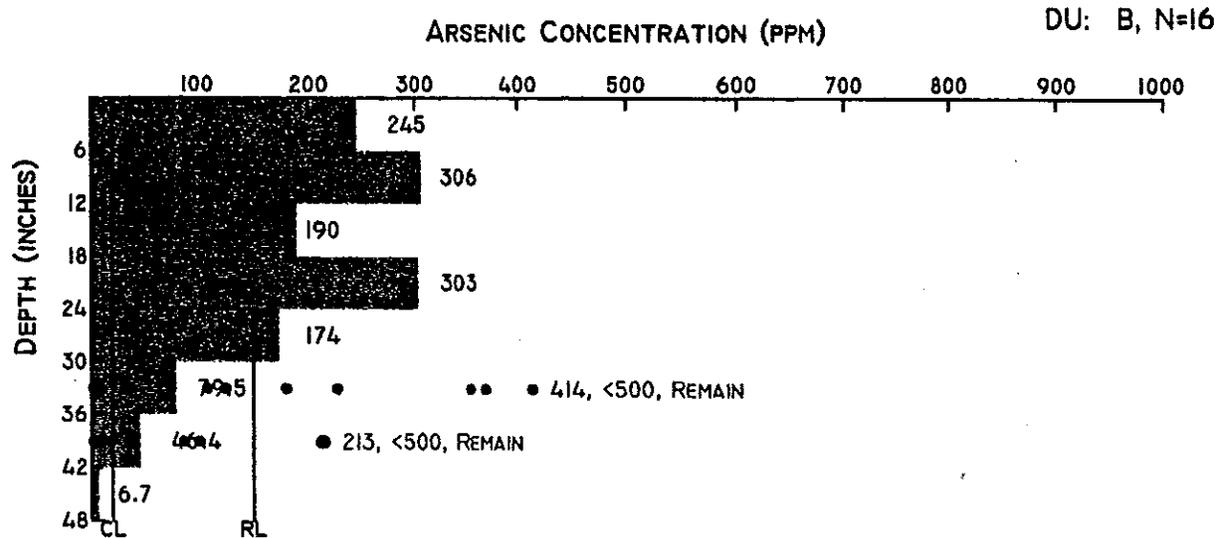
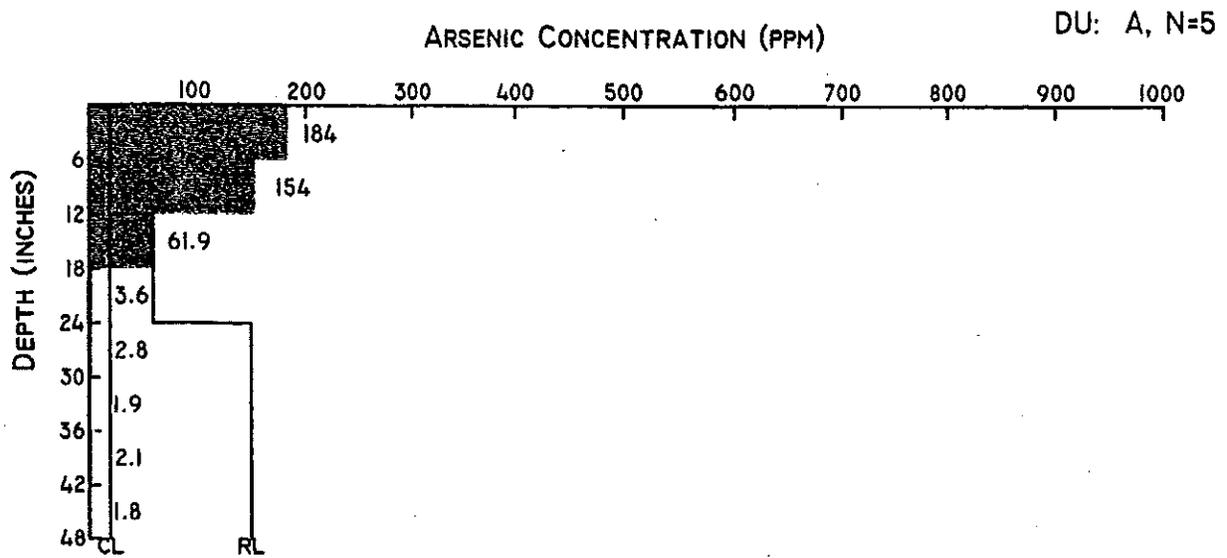
-  Decision Unit A
-  Decision Unit B

Scale 1" = 20'



Attachment A

2909 WHITEHORSE TRAIL



EVERETT SMELTER SITE 5/8/99 10:14 AM 2909 WHITEHORSE TRAIL.DWG

Attachment B

DU = DECISION UNIT, N = NUMBER OF SAMPLE LOCATIONS, CL = CLEANUP LEVEL, RL = REMEDIATION LEVEL

