



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.

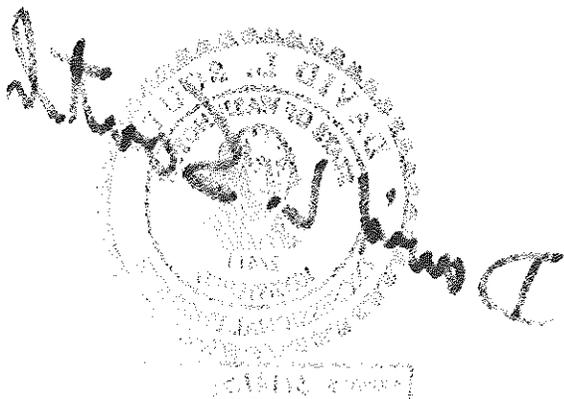
Remediation work remaining to be done at these homes includes evaluation of crawl space data and addressing crawl spaces as necessary and carpet and duct cleaning.



EXPIRES 5/14/03

February 12, 2002





February 15, 2005

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: Nick and Shirley Reef

Address:
2905 Whitehorse Trail
Everett, WA 98201

Snohomish County
State of Washington
Tax Parcel No. # 3966-000-222-0008

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 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. In order to facilitate excavation, the chainlink fence in the back yard, along the northwest property boundary, was removed and later replaced. The garden area at the north corner of the property was excavated and replaced with clean topsoil.

Field measurements by the Ecology on-site coordinator confirmed that soil was removed to a depth of 24 inches. Within the driplines of the tree and bushes near the western corner of the property, only the existing sod was removed; beyond the driplines, 24 inches were excavated. The excavation was sloped 1:1 away from the house foundation in order to protect the integrity of the structure. After placing a geofabric marker, backfilling with clean backfill material was carried out, as described in the *Specifications for Everett Residential Soil Remediation*. Topsoil was placed, including in the garden area at the north corner of the property, and sod was planted.

Decision Unit: B

Results of pre-cleanup sampling indicated 48 inches of soil were to be excavated from within this decision unit. This was the entire depth to which soil samples were collected. Because the soil below 48 inches likely contains arsenic levels above the cleanup level of 20 ppm, a geofabric marker was placed. The pre-existing asphalt driveway was deteriorated or cracked in numerous places and so was removed, and 6 inches of soil were excavated. This was then prepared with four inches of crushed rock and capped with a 2-inch layer of asphalt. A geofabric marker was not placed beneath the driveway excavation.

Field measurements by the Ecology on-site coordinator confirmed that soil was removed to a depth of 48 inches. The only exception was 24 inches were removed over utility lines (sewer, drain, and water) along the northeast side of the existing house. At the owner's request, soil was not removed from planted areas along the northeast side of the house, nor from the area between the front of the house and Whitehorse Trail planted with junipers. After placing a geofabric marker, 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

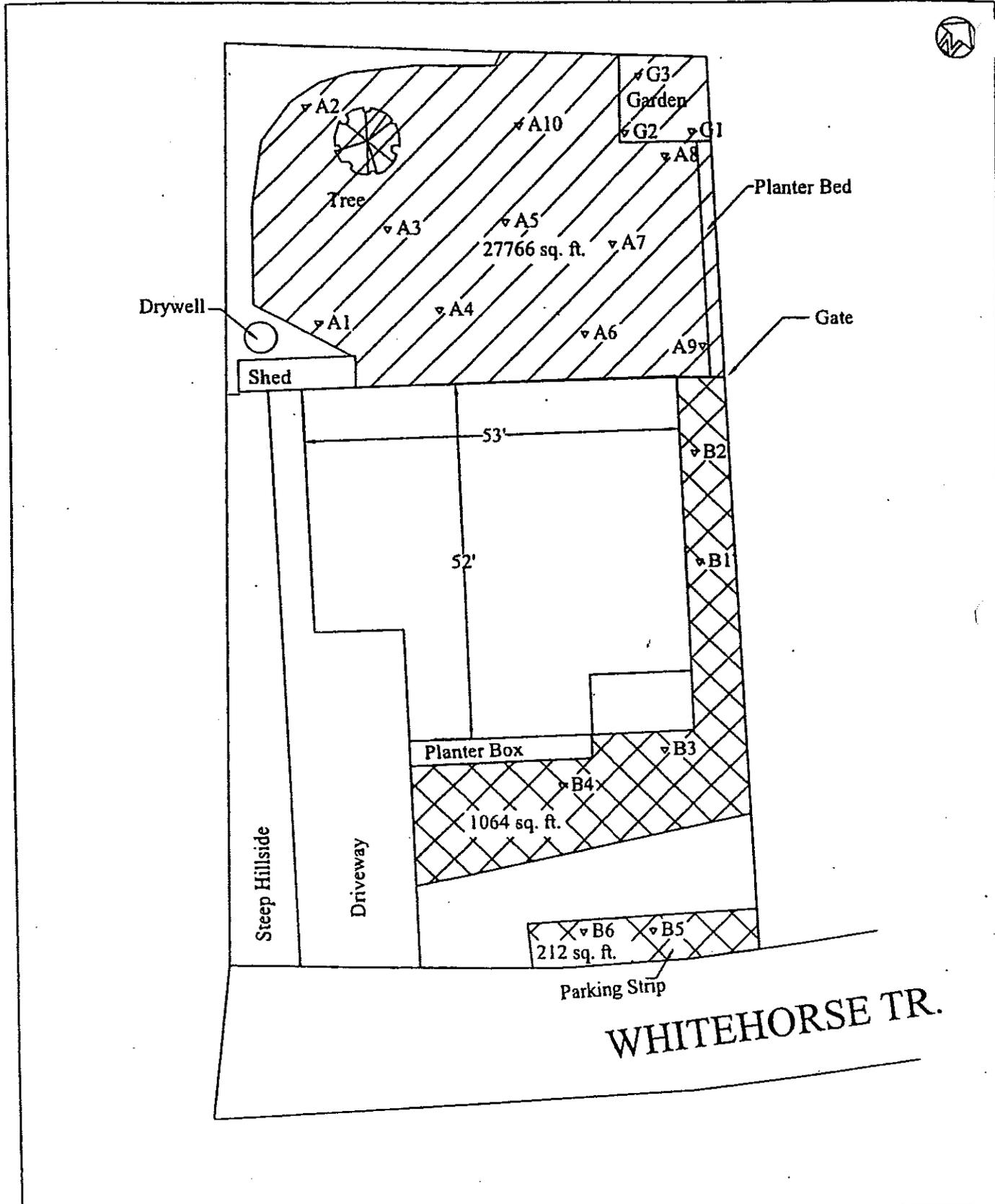
ATA:aa

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



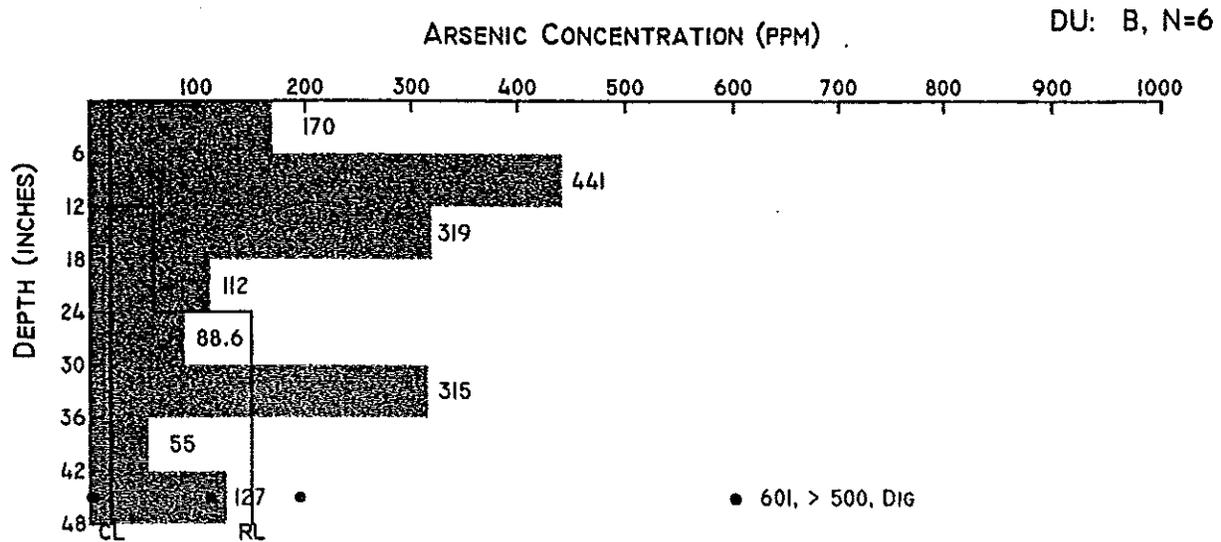
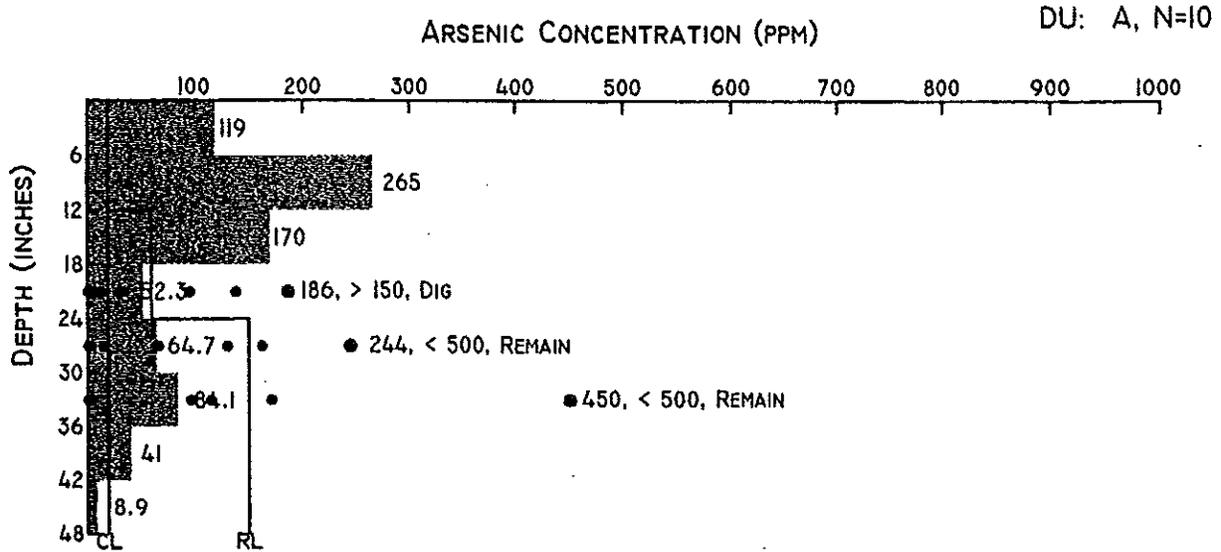
2905 WHITEHORSE TR.

Attachment A

Scale 1" = 20'

-  Decision Unit A
-  Decision Unit B

2905 WHITEHORSE TRAIL



EYEBETT SHELTER SITE 5/8/99 10:05 AM 2905 WHITEHORSE TRAIL.DWG

Attachment B

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





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DEPARTMENT OF ECOLOGY

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April 27, 2000

Nick & Shirley Reeff
2905 Whitehorse Trail
Everett, WA 98201

RE: Damaged Property Claims for Everett Smelter Site Cleanup in 1999

Dear Nick & Shirley,

The Washington State Department of Ecology conducted a cleanup of the arsenic and other metals in your yard in the summer of 1999. The Snohomish County Tax Assessor's Office agreed to reimburse a portion of the taxes you paid while living within the Everett Smelter Site. To receive that reimbursement, you must submit a Damaged Property Claim to Snohomish County.

In November 1999, Ecology sent you a worksheet accounting the costs of your cleanup to assist you in submitting your claim. Unfortunately, we did not have all the costs available at that time. Enclosed please find a revised worksheet with the additional costs included and another Damaged Property Claim form. **Even if you have already submitted a claim with the former costs, please resubmit this worksheet with the additional costs on the claim form just provided to you. Please remember to sign the worksheet as well.**

Jim Jonnet of the Snohomish County Tax Assessor's Office has been notified of this additional cost information. If you have already submitted your claim, he will pull your other claim to replace it with this one. If you have not yet submitted your claim and need assistance in filling out the form, please contact Jim at 425-388-3661. We encourage you to submit the Damaged Property Claims and take advantage of the offer from Snohomish County to reimburse some of the property taxes you paid while living within the Everett Smelter Site.

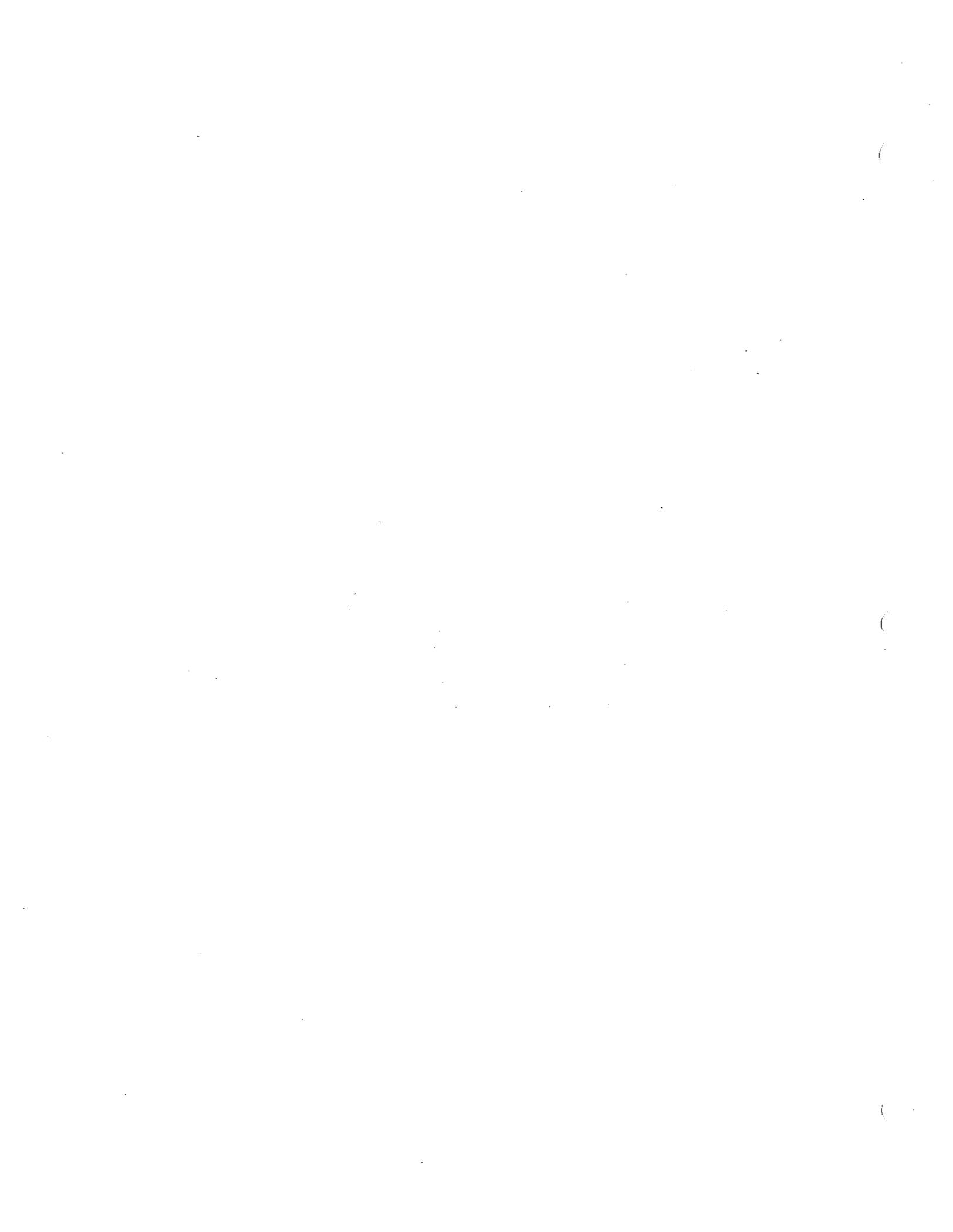
Thank you for all your cooperation during the Cleanup of 1999. We appreciate your good spirits and patience.

Sincerely,

David L. South,
Site Manager

ENCLOSURES





Everett Smelter Site Cleanup Action Worksheet

Taxpayer
Mailing Address

Nick & Shirley Reef
2905 Whitehorse Trail
Everett, WA 98201

Property Address

Same as above

Parcel ID or Legal Description

#3966-000-222-0008

Previous cost \$28,904
plus additional cost
of \$31,362

Total
Cost of Cleanup \$60,266

Signature

Date

Department of Ecology

CSH/D 4/17/00

Taxpayer
