

LIST INC # 3929
SUDDEN VALLEY AREA 2
WHATCOM CO.

JOHN A. PINNER & ASSOCIATES

CIVIL, STRUCTURAL & GEOTECHNICAL ENGINEERING AND ENVIRONMENTAL SERVICES

RECEIVED

JUL 20 1993

DEPT. OF ECOLOGY

July 16, 1993

Mr. Bryan Newman
2145 Lake Whatcom Blvd.
Bellingham, Washington 98226

RE: Final Report
Treatment Bed Area "Z"
Sudden Valley, Washington

DEPARTMENT OF ECOLOGY	
NWRO/TCP TANK UNIT	
INTERIM CLEANUP REPORT	<input type="checkbox"/>
SITE CHARACTERIZATION	<input checked="" type="checkbox"/>
FINAL CLEANUP REPORT	<input checked="" type="checkbox"/>
OTHER <u>Soils Treatment</u>	<input checked="" type="checkbox"/>
AFFECTED MEDIA: SOIL	<input checked="" type="checkbox"/>
OTHER _____ GW	<input type="checkbox"/>
INSPECTOR (INIT.) <u>JZ</u>	DATE <u>8-31-93</u>

This report, taken with file information allows a status of 'completed'. JZ

Dear Mr. Newman:

Enclosed you will find the results of the soil testing performed by our firm, together with a Field Inspection Report, photographs, laboratory test results, Action level guide and Vicinity map.

On October 6 & 7, 1992, our firm collected soil samples from "Area 2" at the Sudden Valley Maintenance Shop. The results of the soil testing showed contamination present in the soils. The contaminated soil was removed and taken to a location called Area "Z" where it was stockpiled and treated. The treatment bed which measures 90' X 25', was covered all winter. Straw bales were placed at the perimeter. The tanks removed from the maintenance shop site last year were gasoline & diesel.

On June 29, 1993 we took additional samples from the Area "Z" treatment bed. A total of four soil samples were collected and sent to C.C.I. Laboratories in Everett, Washington for testing. Samples were retrieved using individual stainless steel hand tools.

Soil Sample #1 Sample taken at the south center of the bed at a depth of 1'.

Sample tested for WTPH-D

Results: WTPH-D 63 mg/kg ACCEPTABLE LEVEL

Soil Sample #2 Sample taken at the south end of the bed at a depth of 1'.

Sample tested for WTPH-G/BETX

Results:	WTPH-G	18 mg/kg	ACCEPTABLE LEVEL
	BENZENE	ND(<0.1) mg/kg	ACCEPTABLE LEVEL
	ETHYLBENZENE	0.1 mg/kg	ACCEPTABLE LEVEL
	TOLUENE	ND(<0.1) mg/kg	ACCEPTABLE LEVEL
	XYLENES	ND(<0.3) mg/kg	ACCEPTABLE LEVEL

Soil Sample #3 Sample taken at the north end of the bed at a depth of 1'.

Sample tested for WTPH-G

Results:	WTPH-G	ND(<5) mg/kg	ACCEPTABLE LEVEL
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Soil Sample #4 Sample taken at the far north end of bed at a depth of 1'.

Sample tested for WTPH-G/BETX

Results:	WTPH-G	38 mg/kg	ACCEPTABLE LEVEL
	BENZENE	ND(<0.1) mg/kg	ACCEPTABLE LEVEL
	ETHYLBENZENE	ND(<0.1) mg/kg	ACCEPTABLE LEVEL
	TOLUENE	ND(<0.1) mg/kg	ACCEPTABLE LEVEL
	XYLENES	ND(<0.3) mg/kg	ACCEPTABLE LEVEL

It is our conclusion from the laboratory test results that the treatment process at this site is complete. Contamination is below action levels. No further testing is proposed.

Sincerely,



John A. Pinner, P.E.

cc: Joe Hickey, D.O.E.

enc: Field Inspection Report
Photographs
Laboratory test results
Vicinity Map
Action Level Guide