

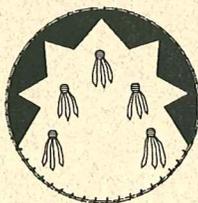
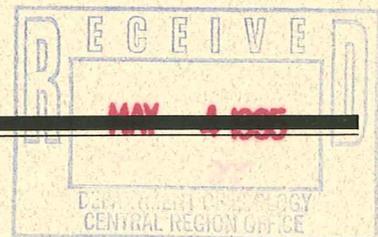
956
2909
RE POWEL DIST.
U. 2652
5570

UST CLOSURE SITE ASSESSMENT AND INTERIM REMEDIAL ACTION REPORT

**DeBock's Main Street Texaco
Grandview, WA**

**Prepared For:
Mr. Gary Christensen
Powell Christensen, Inc.
501 East Main Street
Grandview, WA 98930**

MAY, 1995



WHITE SHIELD

INC.

**P.O. BOX 477, 801 GRANDRIDGE ROAD, GRANDVIEW, WA 98930
TELEPHONE: (509) 882-1144 VOICE (509) 882-4566 FAX**



WHITE SHIELD, INC.

P.O. BOX 477 • GRANDVIEW, WA 98930 • (509) 882-1144
FAX (509) 882-4566



May 2, 1995

Mr. Gary Christensen
Powell-Christensen, Inc.
501 E. Main
Grandview, WA 98930-0098

Re: UST Closure Site Assessment and Interim Remedial Action Report - De Bock's Main Street Texaco - 100 West Main Street, Grandview, WA 98930

Dear Mr. Christensen:

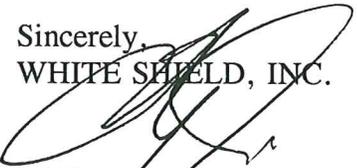
Enclosed, please find three copies of a UST closure site assessment and interim remedial action report for the above referenced site, as required by the Washington State Department of Ecology (WSDOE). Based on the data and findings reported here, further action is required for the remediation of this site.

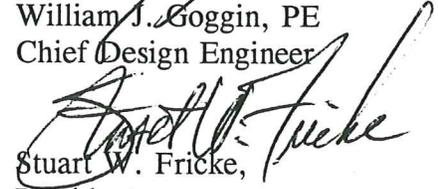
The Washington State Department of Ecology (WSDOE) requires that you retain this report for a minimum of ten years. We recommend that you retain it indefinitely. A copy of the Underground Storage Tank Site Assessment Checklist must be submitted to the WSDOE. This form is included in Appendix D of the report.

White Shield, Inc. provided the UST decommissioning service at this site. A copy of the Underground Storage Tank Permanent Closure/Site Assessment Notice is included with this report for your signature. Please send a copy of the signed form to: WSDOE - P.O. Box 47655 - Olympia, WA 98504-47655.

We appreciate the opportunity to provide you with technical assistance for your UST closure. Please call us at (509) 882-1144 should you have any questions or need any additional information.

Sincerely,
WHITE SHIELD, INC.


William J. Goggin, PE
Chief Design Engineer


Stuart W. Fricke,
President



cc: Department of Ecology, Olympia Headquarters
Department of Ecology, Central Regional Office

TABLE OF CONTENTS

1.0	Introduction	1
1.1	Purpose	1
1.2	Scope of Work	1
2.0	Background Information	1
2.1	Site Location	1
2.2	Site Description and History	3
2.3	Soils Description	3
3.0	Field Activities	6
3.1	General Investigative Methods	6
	3.1.1 Field Screening	6
	3.1.2 Soil Sampling	6
3.2	Tank Removals	7
3.3	Tank Inspection	7
3.4	Initial Sampling/Site Assessment	8
4.0	Soil Analysis Summary	8
5.0	Ground Water & Well Logs	8
6.0	End Use of Soil	10
7.0	Conclusion	10
7.1	Summary	10
7.2	Recommendations	10
8.0	Limitations	10

LIST OF FIGURES

FIGURE 1 - SITE LOCATION MAP 2
FIGURE 2- SITE PLAN 4
FIGURE 3- SAMPLING PLAN 5

LIST OF TABLES

TABLE I: SOIL FIELD SCREENING & LABORATORY ANALYTICAL RESULTS . . . 9

LIST OF APPENDICES

- Appendix A: Field Sampling Log
- Appendix B: Laboratory Reports and Chain of Custody
- Appendix C: Method A Cleanup Levels as established by the Model Toxics Control Act, Chapter 173-340 WAC
- Appendix D: Underground Storage Tank Site Check/Site Assessment Checklist
- Appendix E: Underground Storage Tank Temporary/Permanent Closure and Site Assessment Notice
- Appendix F: Table V. End Use Criteria for Petroleum Contaminated Soils
- Appendix G: Department of Ecology Well Logs
- Appendix H: Site Photographs
- Appendix I: Memo sent to WSI by R.E. Powell Distributing Co. Regarding Status of the 8000 Gallon UST

EXECUTIVE SUMMARY

White Shield, Inc. (WSI) provided UST Closure site assessment services during the removal of one 1000 gallon unleaded gasoline tank, one 5000 gallon leaded gasoline tank and one 8000 gallon unleaded gasoline tank. These three regulated underground storage tanks were located at 100 West Main Street, Grandview, Washington. The 8000 gallon tank and 5000 gallon tank were removed from a single excavation located behind De Bock's Main Street Texaco building. The 1000 gallon tank was located at the northwest corner of the building.

Gasoline was piped from the tanks to three fuel dispensers located in front of the Service Station. The product lines, partially located beneath the concrete floor slab, were purged and capped in place. The USTs and piping were in good condition.

Field screening of samples taken from the tank excavations indicated that there was no organic vapor concentrations exceeding MTCA method A cleanup levels present in the excavations. The laboratory analysis of the samples also indicated there is no petroleum contamination exceeding the MTCA Method A Cleanup Levels remaining in the excavations.

Gasoline contamination was detected within stockpile samples from the 1,000 gallon UST excavation. A small amount of overfill contamination was suspected. This stockpiled soil was transported to Lower Valley Remediation Service for disposal. Field screening of three soil samples collected beneath the fuel dispensers from a depth of 3' revealed gasoline contamination above MTCA cleanup level. A test pit was excavated beneath the fuel dispensers to a depth of 14.5 feet on March 29, 1995. The soil samples at 14.5 feet contained higher concentrations of petroleum than those collected from 3' depth. The test pit was temporarily backfilled until a remediation strategy is chosen. No further remedial activities were undertaken.

1.0 Introduction

1.1 Purpose

This report describes findings and actions taken for work associated with the closure of three regulated Underground Storage Tanks (UST's) including the fuel transfer and dispensing system. The UST system was located at 100 West Main Street, Grandview, Washington.

1.2 Scope of Work

White Shield, Inc. (WSI) provided closure site assessment and decommissioning services for the removal of one 1000 gallon, one 5000 gallon and one 8000 gallon gasoline UST. Alba's Excavating Inc. of Grandview, WA removed the USTs from the site. The 8,000 gallon tank was sold to Larry Lodges for farm use.(Refer to Appendix I). R.E. Powell Distributing Co. intends to use the other two tanks for fuel storage. They have been purged and capped for temporary storage at 501 E. Main St., Grandview, Washington.

The initial site assessment services provided by WSI technicians included 15 Organic Vapor Analyzer field screening tests for volatile components. A total of 18 samples were sent to the laboratory for analysis. Refer to Appendix B, Laboratory Reports and Chain of Custody. OnSite Environmental, Inc. (OnSite), Redmond, Washington, provided the laboratory analytical services.

This report completes the closure site assessment services provided by White Shield, Inc.

2.0 Background Information

2.1 Site Location

The site is located at the southwest quadrant of the Division Street/West Main Street intersection in Grandview, Washington. The site is described as the NW1/4, NE1/4, Section 23, T9N, R23E, W.M. Refer to Figure 1, Site Location Map.

2.2 Site Description and History

De Bocks Main Street Texaco is located at the southwest corner of West Main Street and Division Street. The offices of Kimbrough Realty and Bleyhl Farm Services are located in the northeast quadrant of E. Main Street and Division Street. Express Lube and Detail and Anderson Motors' car lot are located across E. Main Street to the north. The Sports Center Bar and M & J Tavern are to the east and west of the subject site respectively. The Grandview Market, Grandview Herald, and 88 ¢ Store are located to the east across Division Street. VFW Post 6929 is located across an alley and a parking lot to the south of the subject site. Refer to Figure 2, Site Plan.

One 1000 gallon UST was located at the northwest corner of The Service Station Building. One 5000 gallon UST and one 8000 gallon UST were located to the south of the building. Refer to Figure 3, Sampling Plan. The tanks were approximately 22 years old.

The USTs are described as follows:

Tank Code	WSDOE UST Site number	Contents	Volume (gallons)
1	000956	Unleaded Gasoline	1000
1	000956	Leaded Gasoline	5000
1	000956	Unleaded Gasoline	8000

2.3 Soils Description

The soil consists of inorganic silts, very fine sands and inorganic clays of low to medium plasticity (ML-CL). A fine sandy silt layer was encountered from the depth of 9 feet to 14.5 feet.



WHITE SHIELD

INC.

P.O. BOX 477, 801 GRANDRIDGE ROAD, GRANDVIEW, WA 98930
TELEPHONE: (509) 882-1144 VOICE (509) 882-4566 FAX

JOB REP-1295

SHEET NO. _____ OF _____

CALCULATED BY _____ DATE _____

CHECKED BY _____ DATE _____

SCALE NTS

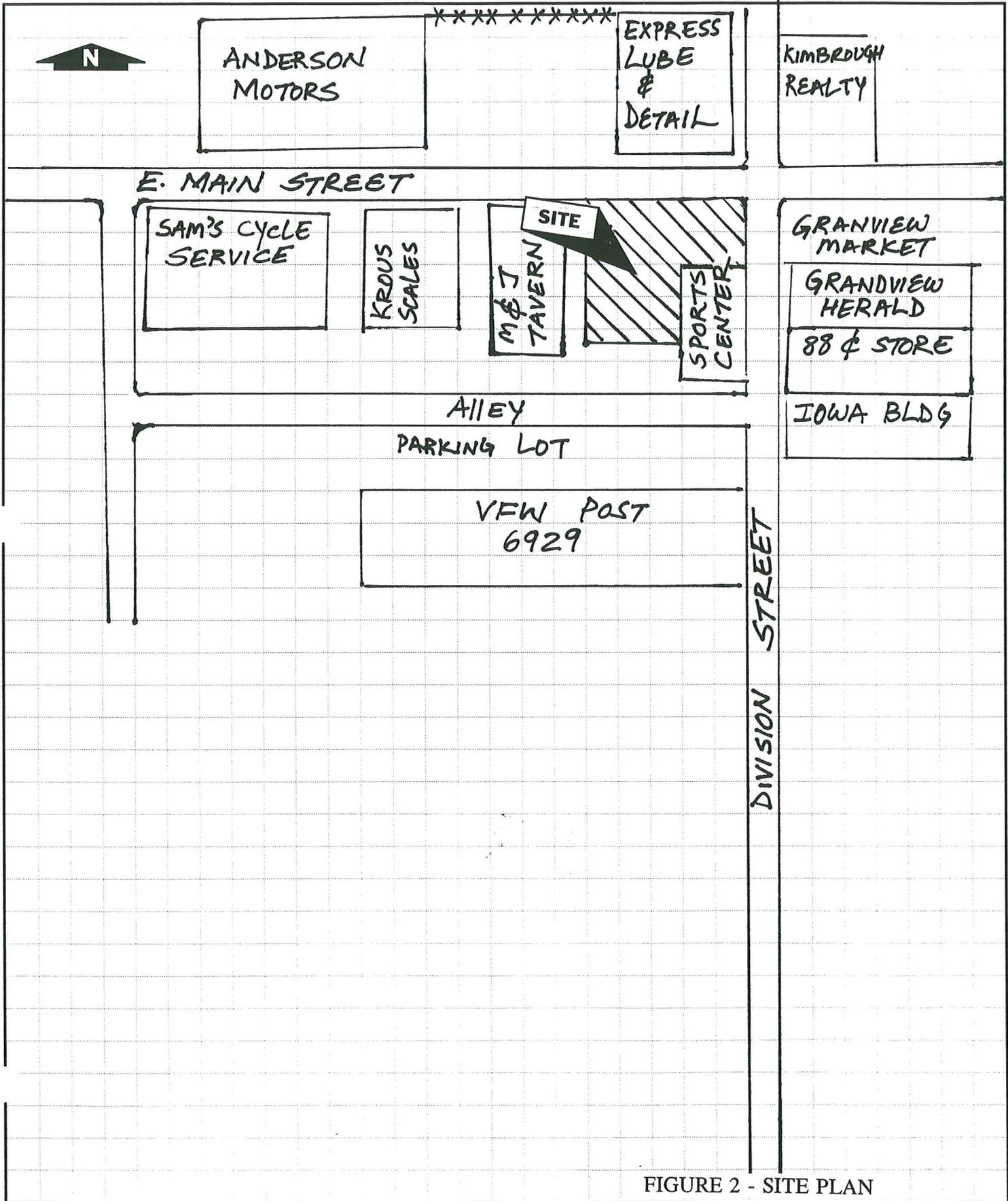


FIGURE 2 - SITE PLAN



WHITE SHIELD INC.

P.O. BOX 477, 801 GRANDRIDGE ROAD, GRANDVIEW, WA 98930
TELEPHONE: (509) 882-1144 VOICE (509) 882-4566 FAX

JOB REP-1295 OF _____

SHEET NO. _____ OF _____

CALCULATED BY _____ DATE _____

CHECKED BY _____ DATE _____

SCALE _____



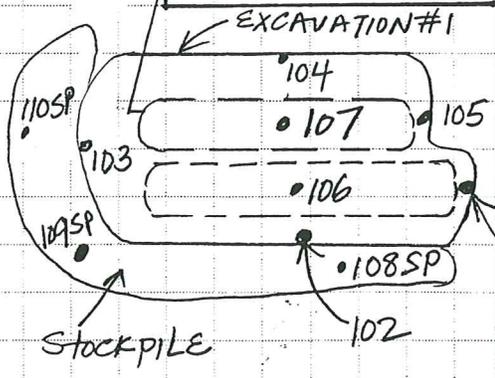
E. MAIN STREET

M & J TAVERN

Subject →

SPORTS CENTER

DIVISION STREET



ALLEY

PARKING LOT

VFW POST 6929

FIGURE 3- SAMPLING PLAN

3.0 Field Activities

3.1 General Investigative Methods

We visually inspected the USTs and the soil surrounding the tanks. We also used field screening, analytical laboratory analyses and interviews for data. The methods and general conclusions are discussed below.

3.1.1 Field Screening

For field analysis of semi-volatile (diesel) and non-volatile compounds (motor oil), WSI uses Thin Layer Chromatography (TLC) for qualitative and quantitative analysis. This analytical technique utilizes the principle of chromatography to separate individual components for comparison to known standards.

TLC is classified as a solid-liquid chromatographic system, meaning there are two phases through which an extract of the sample is passed; a solid phase (silica gel) and a liquid phase (a solvent such as hexane).

The solid phase is stationary and is coated on a glass plate. During the chromatography process, the liquid phase carries the sample through the solid phase. The solvent moves at a fairly constant rate through the solid phase. However, the compound in the sample (analyte) are partitioned by a relative attractiveness of the analyte between the solid phase and the liquid phase. Analytes strongly attracted to the silica will remain on the silica longer and move more slowly than analytes that are not as strongly attracted to the silica. When the chromatography is stopped, the distance the analyte has moved relative to the distance the solvent has moved is used to identify the compound. When the plate is viewed under ultraviolet light, the analytes can be seen and compared to standards of known concentration for quantitative analysis.

3.1.2 Soil Sampling

The Sampling Plan (refer to Figure 3) and the attached Field Sampling Log (Appendix A) show the location, depth and types of samples taken. In general, sample collection and control followed the following protocol:

1. Select a laboratory certified clean sample jar for sample collection.
2. Using clean latex gloves and clean sampling utensils (Alconox Detergent, chlorine solution, tap water rinse and distilled water rinse cycle) tightly pack the soil sample in the sample jar (8 oz.)

- to the top of the jar to prevent any airspace. Collect co-located samples using the same procedure.
3. Label the jar with the soil sample number, the type of laboratory test required, the date, name of site and sampler. The sample is then entered on the chain of custody form.
 4. Cool the sample in wet ice to approximately 4 degrees centigrade.
 5. Repack the samples for shipment to the laboratory in blue ice and a cooler.
 6. Relinquish sample to courier for shipment to the laboratory.

3.2 Tank Removals

Hari Sharma and William Goggin, site assessors registered with the Washington State Department of Ecology Underground Storage Tank Program provided the site assessment and decommissioning services on March 13 and March 14, 1995. The pipelines beneath the building and concrete paving were capped after purging and left in place.

The main UST excavation, hereafter referred to as excavation #1, was located to the south of the building. One 5000 gallon tank and one 8000 gallon tank were removed from excavation #1. The excavation measured approximately 30' x 30' x 11' in depth.

The excavation for the removal of 1000 gallon tank, hereafter referred to as excavation #2, measured approximately 15 feet x 10 feet x 10 feet deep. It was located at the northwest corner of the building. The soil in the excavation appeared clean and had no smell of petroleum. The stockpiled soil that was taken from the top of the tank exhibited signs of limited petroleum contamination.

3.3 Tank Inspection

We removed attached soil and scale to completely expose the tanks and carefully examined their condition. The 1000 gallon tank still had red paint on it and it was in good condition, with little evidence of corrosion and pitting. The tank measured 3'9" in diameter and 12' in length.

The 5000 gallon tank had minor corrosion on the bottom, but the rest still had the original paint. The tank was 7'10" in diameter and 14'4" long. Refer to Photograph 5, Condition of 5000 gallon tank.

**Underground Storage Tanks
Closure Site Assessment Report
Grandview Texaco**

The 8000 gallon tank was in good condition with little evidence of corrosion or pitting. The tank measured 7'10" in diameter and 22' in length. Refer to Photograph 6, for the condition of the 8,000 gallon tank.

3.4 Initial Sampling/Site Assessment

Twelve soil samples were collected on March 14, 1995 from the UST excavations for organic vapor analyzer (OVA) field screening and laboratory analysis. Sample REP-0194-101 through 107 were collected from Excavation #1. Samples REP-0195-201 through 205 were collected from excavation #2. Refer to Figure 3, Sampling Plan and Table I for the sample location, depth and test results. None of the samples from the excavations contained detectable levels of gasoline contamination.

Sample REP-1295-108sp through 110sp were collected from stockpile of material excavated from excavation #1. None of the samples exhibited any significant gasoline contamination as determined by WTPH-G.

Samples REP-1295-206sp through 208sp were collected from the stockpile of material excavated from excavation #2. The analytical result of REP-1295-206sp/207sp revealed 1600 parts per million (ppm) gasoline contamination. Gasoline contamination was not detected in the sample REP-1295-208sp.

4.0 Soil Analysis Summary

The field screening and the laboratory analytical results are summarized in Table I. The Field Sampling Log is included as Appendix A, and the laboratory analytical report, as Appendix B.

5.0 Ground Water & Well Logs

Groundwater was not intersected on this site. Monitoring well information is presented in Appendix G. The well logs indicate static water level from 5.5 feet to 45 feet in Grandview area.

Underground Storage Tanks
Closure Site Assessment Report
Grandview Texaco

TABLE I: SOIL FIELD SCREENING & LABORATORY ANALYTICAL RESULTS

NT= Not Tested

nd = Not Detected

LOCATION	DEPTH	SAMPLE #	DATE	OVA ppm	WTPH-G ppm
South Wall	6.5 feet	REP-1295-201	3/14/95	nd	
West Wall	6.5 feet	REP-1295-202	3/14/95	nd	nd
North Wall	6.5 feet	REP-1295-203	3/14/95	nd	nd
East Wall	6.5 feet	REP-1295-204	3/14/95	nd	nd
Bottom	9 feet	REP-1295-205	3/14/95	nd	nd
East Wall (8000 gal.)	7.5 feet	REP-1295-101	3/14/95	nd	nd
South Wall	7.5 feet	REP-1295-102	3/14/95	nd	nd
West Wall	7.5 feet	REP-1295-103	3/14/95	nd	nd
North wall	7.5 feet	REP-1295-104	3/14/95	nd	nd
East Wall (5000 gal.)	7.5 feet	REP-1295-105	3/14/95	nd	nd
Bottom (8000 gal.)	12.5 feet	REP-1295-106	3/14/95	nd	nd
Bottom (5000 gal.)	12.5	REP-1295-107	3/14/95	nd	nd
Stockpile	2'	REP-1295-206sp/207sp	3/15/95	NT	1600
Stockpile	2'	REP-1295-208sp	3/15/95	NT	nd
Stockpile	2'	REP-1295-108sp/109sp	3/15/95	NT	15
Stockpile	2'	REP-1295-110sp	3/15/95	NT	nd
Dispenser Island	2.5'	REP-1295-301	3/21/95	> 1000 ppm	NT
Dispenser Island	2.5'	REP-1295-302	3/21/95	> 1000 ppm	NT
Dispenser Island	2.5'	REP-1295-303	3/21/95	> 1000 ppm	NT

6.0 End Use of Soil

WSI finds no evidence of petroleum contamination in excess of the Method A Cleanup Levels as established by the Model Toxics Control Act (WAC 173-340-720) in the sidewalls or bottom of both of the tank excavations. The soil from excavation #1 was used to backfill the excavation. The stockpile of soil removed from excavation #2 contained gasoline contamination. The soil was transported to Lower Valley Remediation Service in Mabton, WA for treatment and disposal. Refer to Appendix F, Table V, End Use Criteria For Petroleum Contaminated Soils.

7.0 Conclusion

7.1 Summary

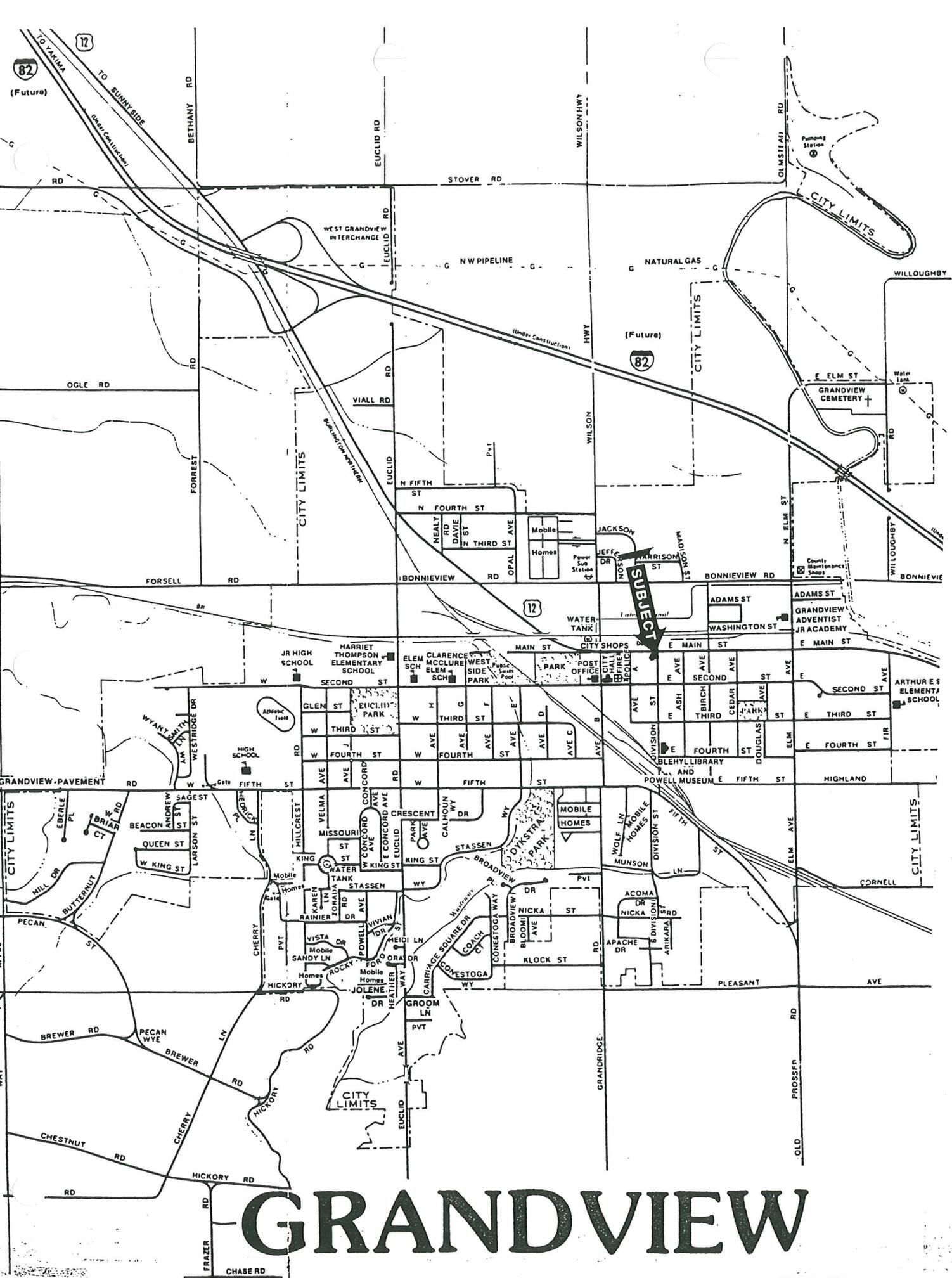
WSI finds no evidence of petroleum contamination in excess of the Cleanup Levels as established by the Model Toxics Control Act (WAC 173-340-720) remaining in the USTs excavations. However, there are high concentrations of petroleum contamination remaining in the soil beneath the former fuel dispensers.

7.2 Recommendations

The remaining petroleum contamination must be characterized to determine the horizontal and vertical extent and degree of contamination. Soil borings with continuous sampling down to and including groundwater are recommended, starting at the known contaminated areas and working outward until no contamination is found. Monitoring wells upstream, downstream and within the contamination plume may be required if groundwater has been impacted. Insitu remediation is recommended for soil and groundwater treatment since many areas of contamination will not be easily or economically accessible by direct excavation. A remediation strategy can be developed as soon as the data from the characterization study is available.

8.0 Limitations

In performing our professional services, WSI uses a degree of care ordinarily exercised under similar circumstances by members of our profession. No warranty, expressed or implied, is made or intended. Our conclusions and recommendations, developed from our field and laboratory investigation reported herein, are based upon this firm's understanding of the project and are in concurrence with generally accepted practice.



GRANDVIEW

FIGURE 1 - SITE LOCATION MAP

APPENDIX A

3/13/95

REP-1295

- 8:00 Made calls to Cascade Fire equipment, Inland Ice
to 8:30 and to get dry ice.
30 to Mobilized.
8:45
8:45 to Travelled to Kennewick for dry ice.
11:00
12:00 to Filled dry ice in the 8000 and 5,000 gallon
12:40 tanks.
1:00 to excavating around the tanks.
2:00
3:20 Started pulling 8000 Gallon tank out of the ground.
3:45 Pulled out 8000 Gallon tank. Red Paint on
ends. Minor rusting on the sides. It is in
good condition.
5:00 LEFT SITE:

SITE LOCATION: SW QUADRANT OF DIVISION STREET AND
HWY 12 INTERSECTION.

GRANDVIEW HERALD, 88 & STORE, IOWA BUILDING - ACROSS
DIVISION ST.

VFW POST 6929 to the South Across the alley
AND PARKING LOT.

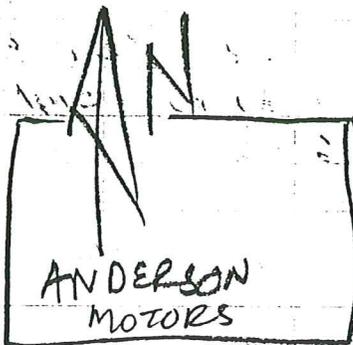
SPORTS CENTER BAR AND M & J BAR: TO THE
EAST AND WEST OF THE SITE RESPECTIVELY.

EXPRESS LUBE AND DETAIL, ANDERSON MOTORS AND A CHURCH
BLOCK TO THE WEST ACROSS AVENUE A - Anderson's Used Cars,
CITY OF GRANDVIEW, FIRE STATION, YAKIMA COUNTY
FIRE DIST #5, 7 ELEVEN: USED CAR LOT
TO THE NORTH OF 7 ELEVEN.

SAM'S CYCLE SERVICE - MOTOR CYCLES, SNOW MOBILES
AND TERRAIN VEHICLES.

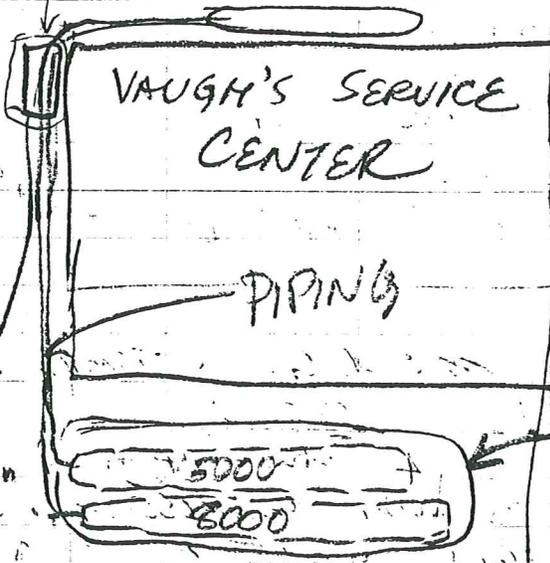
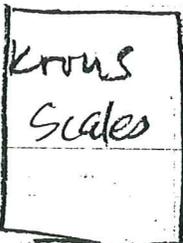
GRANDVIEW MARKET IN THE SE QUADRANT
AND Kimbrough Realtors in the NE Quadrant

RAIL ROAD TRACK



EXCAVATION #2

HWY 12



SPORTS CENTER

DIVISION STREET

-fence

-fence

1000 Gallon
tank

ALLEY

PARKING LOT



old Building
Brick and
concrete building

VFW

10:20

3/14/95

ARRIVED AT 7 - SITE. ALBA EXCAVAT. IS REMOVING CONCRETE SLAB ON 1000 GALLON TANK. Excavated Soil

10:20 to 11:40
11:40 to 12:10

Pulled the tank out.

TANK APPEARS TO BE IN GOOD CONDITION. NO CORROSION OR PITTING. RED PAINT STILL ON IT. DIMENSION OF TANK: 3' 9" in diameter 12' LONG.

CAPPED THE PRODUCT SUPPLY LINE. CUT ELECTRICAL CONDUIT THAT WAS PROBABLY USED FOR SIGN. DIMENSION OF EXCAVATION 16' x 6'.

SAMPLE#	DEPTH	LOCATION	OVA
REP-1295-201	6.5'	South wall	ND
202	6 1/2'	West wall	ND
203	6 1/2'	N. wall	ND
204	6 1/2'	E. wall	ND
205	9'	Bottom	ND
101	7.5'	E. wall (8000 gallon)	ND
102	7.5'	S. wall	ND
103	7.5'	W. wall	ND
104	7.5'	N. wall	ND
105	7.5'	E. wall (5000)	ND

8000 GALLON TANK

5000 GALLON TANK

A total of three tanks were extricated of which two were located in excavation #1 and one 1000 gallon tank in excavation #1.

Pulled out 5000 Gallon tank at 3:45 PM.

Dimension $\phi = 7' 10''$
Length = 14' 4''

TANK HAS MINOR CORROSION ON THE BOTTOM. NO HOLES WERE NOTICED.

NO BACKFILL IN THE EXCAVATION. TANKS WERE PLACED IN NATIVE SOIL.

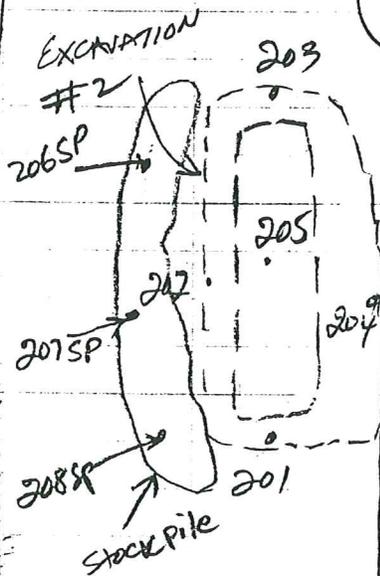
SAMPLE	DEPTH	LOCATION	OVA
REP-1295-106	12.5'	Bottom (8000)	ND
107	12.5'	Bottom (5000)	ND

8000 GALLON TANK
5000 GALLON TANK

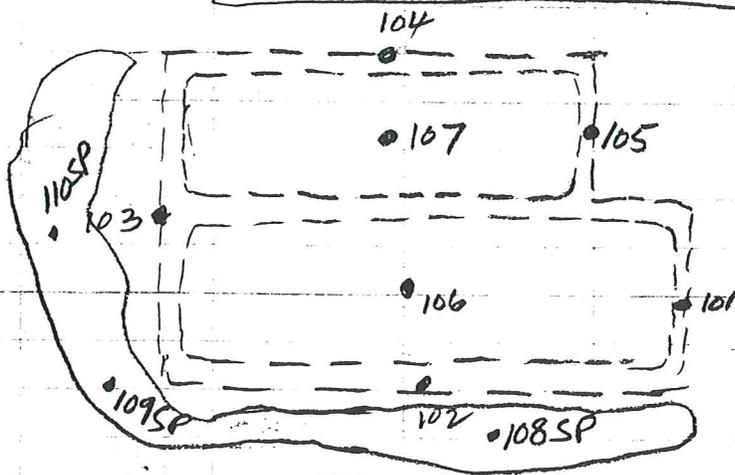
NOT TO SCALE

M AND J TAVERN

LAB RESULT REVEALED
1600 PPM in 206SP/207SP
Composite.



VAUGHN'S SERVICE STATION



Alley

PARKING LOT

3/15/95

10:00 LEFT OFFICE
10:10 INFORMED GARY THAT THE PUMP ISLAND CONCRETE MAKES IT DIFFICULT TO SAMPLE UNDER THE PUMP AND ASKED HIS PERMISSION TO REMOVE IT. JOHN ALBA TOLD ME THAT HE WON'T BE ABLE TO REMOVE THE CONCRETE TILL FRIDAY (3/17/95)
10:20 to 11:10 SAMPLED STOCKPILES - 3 sets of samples from each stockpile.

SAMPLE #	LOCATION	
REP-1295-206SP	Stockpile	} Excavation #2
-207SP	Stockpile	
-208SP	Stockpile	
REP-1295-108SP	Stockpile	} Excavation #1.
-109SP	Stockpile	
-110SP	Stockpile	

I ASKED ALBA TO Blow Compressed air through the product piping prior to capping them.
Hani Sharma.

Total Time Spent on site 1.5 hours.

PACKAGING, CHAIN OF Custody, Call to Pony express = 0.75hr.

3/21/95

11:30-1:45 Mobilize

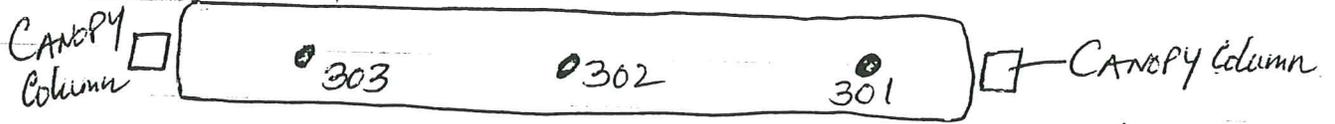
1:45-2:00 Waited to grab samples while excavation was underway.

2:00-2:30 Conducted three OVA Field Screen tests on samples from below beneath the Pump.

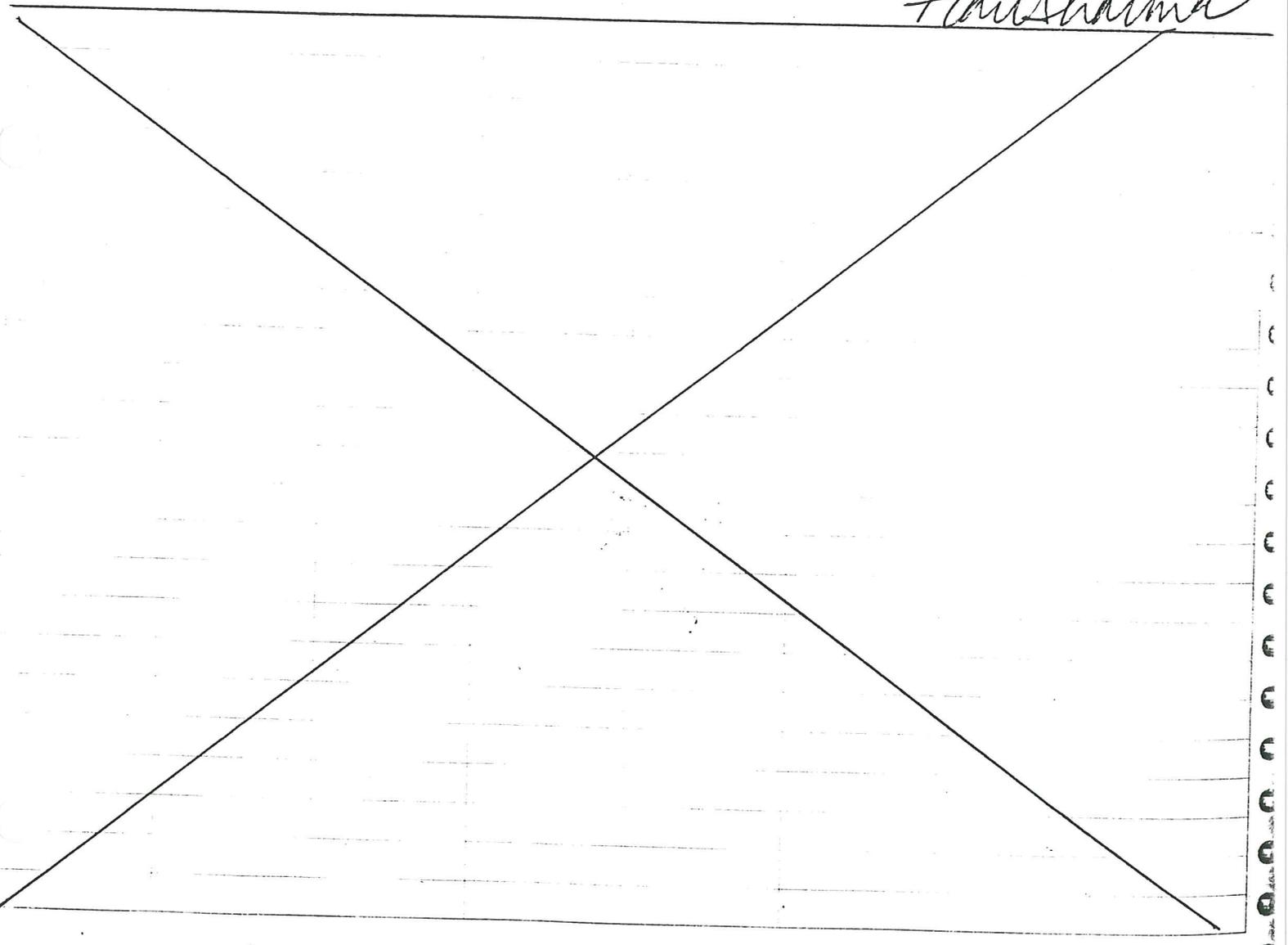
OVA

Sample #	LOCATION	DEPTH	Result
REP-1245-301	EAST END	2.5'	>1000 PPM
-302	Middle	2.5'	>1000 PPM
-303	West Pump	2.5'	>1000 PPM.

Called Bill and informed him that the soil beneath the pumps have has Petroleum Contamination.
excavation ~2.5' in depth.



Fluorishama



3/29/95

- 1:30 left office.
- 2:10 Reached sandy layer at 9' depth. It has high concentration of Petroleum Product.
- 3:30 High Concentration of Petroleum detected at 14.5'. ~~Closed the site~~ Backfilled the excavation and covered the top with Plywood.

APPENDIX B

March 20, 1995
Lab Traveler #:03-038

Terry Miller
White Shield, Inc.
P.O. Box 477
Grandview, WA 98930

Dear Terry:

Enclosed are the results of the analyses of samples submitted on March 16, 1995 from Project REP-1295.

We appreciate this opportunity to be of service to you on this project. If you have any questions regarding this report, please feel free to call me.

Sincerely,

Karl P. Hornyik
Project Chemist

Enclosures

Date of Report: March 20, 1995
 Samples Submitted: March 16, 1995
 Lab Traveler: 03-038
 Project: REP-1295

EPA 8020 & WTPH-G

Date Extracted: 3-16-95
 Date Analyzed: 3-16-95

Matrix: Soil
 Units: mg/Kg (ppm)

Lab ID	03-038-1/2	03-038-3/4	03-038-5	03-038-6/7	
Client ID	REP-1295-201 / 202 COMP	REP-1295-203 / 204 COMP	REP-1295-205	REP-1295-101 / 102 COMP	Method PQL
Dilution Factor	50	50	50	50	
Benzene	ND	ND	ND	ND	.001
Toluene	ND	ND	ND	ND	.001
Ethyl Benzene	ND	ND	ND	ND	.001
m,p-Xylene	ND	ND	ND	ND	.001
o-Xylene	ND	ND	ND	ND	.001
TPH-Gas	ND	ND	ND	ND	.100
4-BFB					
Surrogate Recovery	83%	85%	83%	84%	

Note: Sample PQL(practical quantitation limit)= Method PQL x dilution factor

Date of Report: March 20, 1995
 Samples Submitted: March 16, 1995
 Lab Traveler: 03-038
 Project: REP-1295

EPA 8020 & WTPH-G

Date Extracted: 3-16-95
 Date Analyzed: 3-16-95

Matrix: Soil
 Units: mg/Kg (ppm)

Lab ID	03-038-8/9	03-038-10	03-038-11	03-038-12	
Client ID	REP-1295-103	REP-1295-105	REP-1295-106	REP-1295-107	Method PQL
	/ 104 COMP				
Dilution Factor	50	50	50	50	
Benzene	ND	ND	ND	ND	.001
Toluene	ND	ND	ND	ND	.001
Ethyl Benzene	ND	ND	ND	ND	.001
m,p-Xylene	ND	ND	ND	ND	.001
o-Xylene	ND	ND	ND	ND	.001
TPH-Gas	ND	ND	ND	ND	.100
4-BFB					
Surrogate Recovery	83%	84%	84%	76%	

Note: Sample PQL (practical quantitation limit) = Method PQL x dilution factor

Date of Report: March 20, 1995
 Samples Submitted: March 16, 1995
 Lab/Traveler: 03-038
 Project: REP-1295

EPA 8020 & WTPH-G

Date Extracted: 3-16-95
 Date Analyzed: 3-16-95

Matrix: Soil
 Units: mg/Kg (ppm)

Lab ID	03-038-13/14	03-038-15	03-038-16/17	03-038-18	
Client ID	REP-1295- 206SP / 207SP COMP	REP-1295- 208SP	REP-1295- 108SP / 109SP	REP-1295- 110SP	Method PQL
Dilution Factor	250	50	50	50	
Benzene	ND	ND	ND	ND	.001
Toluene	ND	ND	ND	ND	.001
Ethyl Benzene	1.4	ND	ND	ND	.001
m,p-Xylene	15	ND	ND	ND	.001
o-Xylene	21	ND	ND	ND	.001
TPH-Gas	1600	ND	16	ND	.100
4-BFB Surrogate Recovery	S	85%	79%	85%	

Note: Sample PQL (practical quantitation limit) = Method PQL x dilution factor

S-Surrogate recovery data not available due to the necessary dilution of the sample.

Date of Report: March 20, 1995
 Samples Submitted: March 16, 1995
 Lab Traveler: 03-038
 Project: REP-1295

**EPA 8020 & WTPH-G
 QUALITY CONTROL**

Date Extracted: 3-16-95
 Date Analyzed: 3-16-95

Matrix: Soil
 Units: mg/Kg (ppm)

Lab ID	MB0316S-1	03-038-5	03-038-5	
	Blank	Original	Duplicate	RPD
Dilution Factor	50	50	50	
Benzene	ND	ND	ND	NA
Toluene	ND	ND	ND	NA
Ethyl Benzene	ND	ND	ND	NA
m,p-Xylene	ND	ND	ND	NA
o-Xylene	ND	ND	ND	NA
TPH-Gas	ND	ND	ND	NA
4-BFB				
Surrogate Recovery	93%	83%	84%	

Date of Report: March 20, 1995
 Samples Submitted: March 16, 1995
 Lab Traveler: 03-038
 Project: REP-1295

**EPA 8020 & WTPH-G
 QUALITY CONTROL**

Date Extracted: 3-16-95
 Date Analyzed: 3-16-95

Matrix: Soil
 Units: mg/Kg (ppm)

Lab ID	03-038-5		03-038-5		
spiked @ 1 ppm	MS	Percent	MSD	Percent	
Dilution Factor	50	Recovery	50	Recovery	RPD
Benzene	0.890	89%	0.915	92%	2.8
Toluene	0.970	97%	0.990	99%	2.0
Ethyl Benzene	0.890	89%	0.915	92%	2.8
m,p-Xylene	0.900	90%	0.930	93%	3.3
o-Xylene	0.890	89%	0.915	92%	2.8
4-BFB					
Surrogate Recovery	84%		84%		

Date of Report: March 20, 1995
Samples Submitted: March 16, 1995
Lab Traveler: 03-038
Project: REP-1295

Date Analyzed: 3-16-95

% MOISTURE

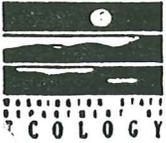
Client ID	% Moisture
REP-1295-201/REP-1295-202	15
REP-1295-203/REP-1295-204	14
REP-1295-205	15
REP-1295-101/REP-1295-102	15
REP-1295-103/REP-12-5-104	15
REP-1295-105	15
REP-1295-106	15
REP-1295-107	19
REP-1295-206SP/REP-1295-207SP	12
REP-1295-208SP	12
REP-1295-108SP/REP-1295-109SP	15
REP-1295-110SP	14

APPENDIX C

Method A Cleanup Levels - Soil ^a

Hazardous Substance	CAS Number	Cleanup Level
Arsenic	7440-38-2	20.0 mg/kg ^b
Benzene	71-43-2	0.5 mg/kg ^c
Cadmium	7440-43-9	2.0 mg/kg ^d
Chromium	7440-47-3	100.0 mg/kg ^e
DDT	50-29-3	1.0 mg/kg ^f
Ethylbenzene	100-41-4	20.0 mg/kg ^g
Ethylene dibromide	106-93-4	0.001 mg/kg ^h
Lead	7439-92-1	250.0 mg/kg ⁱ
Lindane	58-89-9	1.0 mg/kg ^j
Methylene chloride	75-09-2	0.5 mg/kg ^k
Mercury (inorganic)	7439-97-6	1.0 mg/kg ^l
PAHs (carcinogenic)		1.0 mg/kg ^m
PCB Mixtures		1.0 mg/kg ⁿ
Tetrachloroethylene	127-18-4	0.5 mg/kg ^o
Toluene	108-88-3	40.0 mg/kg ^p
TPH (gasoline)		100.0 mg/kg ^q
TPH (diesel)		200.0 mg/kg ^r
TPH (other)		200.0 mg/kg ^s
1,1,1 Trichloroethane	71-55-6	20.0 mg/kg ^t
Trichloroethylene	79-01-5	0.5 mg/kg ^u
Xylenes	1330-20-7	20.0 mg/kg ^v

APPENDIX D



UNDERGROUND STORAGE TANK Site Check/Site Assessment Checklist

Office Use Only
Owner # _____
Site # _____

INSTRUCTIONS:

When a release has **not** been confirmed and reported, this Site Check/Site Assessment Checklist must be completed and signed by a person registered with the Department of Ecology. **The results of the site check or site assessment must be included with this checklist.** This form must be submitted to Ecology at the address shown below within 30 days after completion of the site check/site assessment.

SITE INFORMATION: Include the Ecology site ID number if the tanks are registered with Ecology. This number may be found on the tank owner's invoice or tank permit.

TANK INFORMATION: Please list all the tanks for which the site check and site assessment is being conducted. Use the tank ID number if available, and indicate tank capacity and substance stored.

REASON FOR CONDUCTING SITE CHECK/SITE ASSESSMENT: Please check the appropriate item.

CHECKLIST: Please initial each item in the appropriate box.

SITE ASSESSOR INFORMATION: This form must be signed by the registered site assessor who is responsible for conducting the site check/site assessment.

Underground Storage Tank Section
Department of Ecology
P. O. Box 47655
Olympia, WA 98504-7655

SITE INFORMATION

Site ID Number (on invoice or available from Ecology if the tanks are registered): 000956

Site/Business Name: VAUGHN'S SERVICE STATION TEXACO.

Site Address: 100 WEST MAIN STREET Telephone: (509) 882-2115

GRANDVIEW Street WA 98930

City State ZIP-Code

TANK INFORMATION

Tank ID No.	Tank Capacity	Substance Stored
<u>1</u>	<u>8,000</u>	<u>Unleaded Gasoline</u>
<u>1</u>	<u>5,000</u>	<u>Leaded Gasoline</u>
<u>1</u>	<u>1,000</u>	<u>Unleaded Gasoline</u>

REASON FOR CONDUCTING SITE CHECK/SITE ASSESSMENT

Check one:

- Investigate suspected release due to on-site environmental contamination.
- Investigate suspected release due to off-site environmental contamination.
- Extend temporary closure of UST system for more than 12 months.
- UST system undergoing change-in-service.
- UST system permanently closed-in-place.
- UST system permanently closed with tank removed.
- Abandoned tank containing product.
- Required by Ecology or delegated agency for UST system closed before 12/22/88.
- Other (describe): _____

CHECKLIST

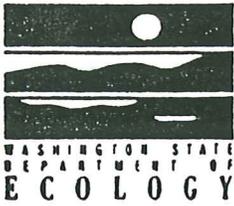
Each item of the following checklist shall be initialed by the person registered with the Department of Ecology whose signature appears below.

	YES	NO
1. The location of the UST site is shown on the vicinity map.	HS	
2. A brief summary of information obtained during the site inspection is provided. (see Section 3.2 in the Site Assessment Guidance)	HS	
3. A summary of UST system data is provided. (see Section 3.1)	HS	
4. The soils characteristics at the UST site are described. (see Section 5.2)	HS	
5. Is there apparent groundwater in the tank excavation?		HS
6. A brief description of the surrounding land is provided. (see Section 3.1)	HS	
7. Information has been provided indicating the number and types of samples collected, methods used to collect and analyze the samples, and the name and address of the laboratory used to perform the analyses.	HS	
8. A sketch or sketches showing the following items is provided:		
- location and ID number for all field samples collected	HS	
- groundwater samples distinguished from soil samples (if applicable)	N/A	
- samples collected from stockpiled excavated soil	HS	
- tank and piping locations and limits of excavation pit	HS	
- adjacent structures and streets	HS	
- approximate locations of any on-site and nearby utilities	HS	
9. If sampling procedures different from those specified in the guidance were used, has justification for using these alternative sampling procedures been provided? (see Section 3.4)	N/A	
10. A table is provided showing laboratory results for each sample collected including: sample ID number, constituents analyzed for and corresponding concentration, analytical method and detection limit for that method.	HS	
11. Any factors that may have compromised the quality of the data or validity of the results are described.		HS
12. The results of this site check/site assessment indicate that a confirmed release of regulated substance has occurred.	HS	HS

SITE ASSESSOR INFORMATION

<u>Hari Sharma</u> PERSON REGISTERED WITH ECOLOGY		<u>White Shield, Inc</u> FIRM AFFILIATED WITH
BUSINESS ADDRESS: <u>801 GRANDRIDGE ROAD</u>		TELEPHONE: <u>509 882-1144</u>
<u>GRANDVIEW</u> CITY	<u>WA</u> STATE	<u>98930</u> ZIP+CODE
I hereby certify that I have been in responsible charge of performing the site check/site assessment described above. Persons submitting false information are subject to penalties under Chapter 173-360 WAC.		
<u>4/4/95</u> Date	<u>Hari Sharma</u> Signature of Person Registered with Ecology	

APPENDIX E



**UNDERGROUND STORAGE TANK
TEMPORARY/PERMANENT CLOSURE
and SITE ASSESSMENT NOTICE**

See back of form for instructions
Please the appropriate box(es)
Please type or print information

Office Use Only
Owner # _____
Site # _____

Temporary Tank Closure Permanent Tank Closure Change-In-Service Site Assessment/Site Check

SITE INFORMATION:

Site ID Number (on invoice or available from Ecology if the tanks are registered): 000956
Site/Business Name: VAUGHN'S SERVICE STATION TEXACO
Site Address: 100 W. MAIN STREET Telephone: (____) _____
City: _____ State: _____ ZIP-Code: _____

TANK INFORMATION:

Tank ID	Closure Date	Tank Capacity	Substance Stored
<u>1</u>	<u>3/13/95</u>	<u>8000</u>	<u>Unleaded Gasoline</u>
<u>1</u>	<u>3/14/95</u>	<u>5,000</u>	<u>Leaded Gasoline</u>
<u>1</u>	<u>3/14/95</u>	<u>1,000</u>	<u>Unleaded Gasoline</u>

CONTAMINATION PRESENT AT THE TIME OF CLOSURE

Yes No

Unknown

Check unknown if no obvious contamination was observed and sample results have not yet been received from analytical lab.

UST SYSTEM OWNER/OPERATOR:

UST Owner/Operator: POWELL - CHRISTENSEN, INC.
Owners Signature: _____ Telephone: (509) 882-2115
Address: 501 E. MAIN 98
GRANDVIEW WA 98930
City State ZIP-Code

TANK CLOSURE/CHANGE-IN-SERVICE PERFORMED BY:

Service Provider: ALBA EXCAVATING INC. License Number: 201027
Licensed Supervisor: William J. Roggin, P.E. Decommissioning License Number: W001863
Supervisors Signature: _____
Address: 801 GRANDRIDGE ROAD 477
GRANDVIEW WA 98930
City State ZIP-Code
Telephone: (509) 882-1144

SITE CHECK/SITE ASSESSMENT CONDUCTED BY:

Name of Registered Site Assessor: HARI SHARMA
Telephone: (509) 882-1144
Address: 801 GRANDRIDGE ROAD 477
GRANDVIEW WA 98930
City State ZIP-Code

PLEASE READ CAREFULLY

INSTRUCTIONS

This form is to be completed by the Tank Owner and submitted to Ecology within 30 days of tank closure.

Mark the appropriate box(es) for temporary tank closure, permanent tank closure, change-in-service, or site assessment.

Permanent Closure and Change-in-Service require a site assessment be performed.

SITE INFORMATION:

Fill in the site information. Be sure to include the Ecology site ID number. This number may be found on the invoice or permit. Include a contact telephone number so any problems may be resolved quickly.

TANK INFORMATION:

List the tanks that were closed. Please use tank ID numbers and indicate the date of permanent closure. Be sure to attach your Underground Storage Tank Permits for any tanks that are now closed.

UST SYSTEM OWNER/OPERATOR:

Please fill in the owner's/operator's name, address, and telephone number. Be sure to sign this form.

TANK CLOSURE/CHANGE-IN-SERVICE PERFORMED BY:

List the closure company. Companies that provide UST services **MUST** be licensed by Ecology. Ask to see their supervisor's license. Make sure the licensed supervisor signs this form.

SITE CHECK/SITE ASSESSMENT CONDUCTED BY:

Fill in the site assessor information for permanent closure or change-in-service. Mark the appropriate box showing whether contamination from the underground tank(s) was or is present at the site. A site check/site assessment **MUST** be conducted by a site assessor who is registered with Ecology.

If contamination at the site is found or suspected, the appropriate Ecology Regional Office must be notified within 24 hours. If the contamination is confirmed, a site characterization report must be submitted to the regional office within 90 days. If contamination is not confirmed, a site assessment report must be submitted to the above address within 30 days.

Tanks exempt from notification requirements are:

Farm or residential tanks, 1100 gallons or less, used to store motor fuel for personal or farm use only. The fuel must not be for resale or used for business purposes.

Tanks used for storing heating oil that is used on the premises where the tank is located.

Tanks with a capacity of 110 gallons or less.

Equipment or machinery tanks such as hydraulic lifts or electrical equipment tanks.

Emergency overflow tanks, catch basins, or sumps.

For more information call toll free in the state of Washington
1-800-826-7716 or (206) 438-7137

Return this completed form to:

**Underground Storage
Tank Section**

Department of Ecology
P. O. Box 47655
Olympia, WA 98504-7655

APPENDIX F

TABLE V. END USE CRITERIA FOR PETROLEUM-CONTAMINATED SOILS

Analyte	Analytical Method	Soil Class (ppm)			
		1	2	3	4
Heavy fuel hydrocarbons (C24-C30)	WTPH-418.1 mod.	<60	60-200	200-2000	>2000
Diesel (C12-C24)	WTPH-D	<25	25-200	200-500	>500
Gasoline (C6-C12)	WTPH-G	<5	5-100	100-250	>250
Benzene	8020	<0.005	0.005-0.5	≤0.5	>0.5
Ethylbenzene	8020	<0.005	0.005-20	≤20	>20
Toluene	8020	<0.005	0.005-40	≤40	>40
Xylenes (total)	8020	<0.005	0.005-20	≤20	>20

Treatment is recommended for all Class 3 and 4 soils.

NOTES:

Class 1 Soil Uses:

Any use which will not cause threat to human health or the environment.

Class 2 Soil Uses:

Backfill at the cleanup site

Fill in commercial or industrial areas

Cover or fill in permitted landfills

Road subgrade or other road construction fill

Fill in or near: wetlands, surface water, ground water, drinking water wells or utility trenches is NOT recommended. Use as residential topsoil is also NOT recommended.

Class 3 Soil Uses:

Treatment

Disposal at the original site (no solid waste disposal permit needed)

Road construction (no solid waste disposal permit needed)

Use or disposal in permitted, municipal landfills

Permitted as a new PCS landfill

(An evaluation should be made to ensure that disposal will not cause a threat to human health or the environment, e.g. use near water bodies)

Class 4 Soil Uses:

Treatment

Disposal in a permitted, municipal landfill

Permitted as a new PCS landfill

APPENDIX G

WATER WELL REPORT

STATE OF WASHINGTON

Application No. _____
Permit No. _____

(1) OWNER: Name EUGENE MARTIN Address RT 1 BOX 107 U MASTON, W.N.
 LOCATION OF WELL: County YAKIMA - SW 1/4 SW 1/4 Sec 14 T 9 N., R 23 W.M.
 g and distance from section or subdivision corner LOT 5 - GREEN VALLEY ESTATES

(3) PROPOSED USE: Domestic Industrial Municipal
 Irrigation Test Well Other

(4) TYPE OF WORK: Owner's number of well (if more than one) _____
 New well Method: Dug Bored
 Deepened Cable Driven
 Reconditioned Rotary Jetted

(5) DIMENSIONS: Diameter of well 5 inches.
 Drilled _____ ft. Depth of completed well 76' ft.

(6) CONSTRUCTION DETAILS:
 Casing installed: 5" Diam. from 0 ft. to 76' ft.
 Threaded _____" Diam. from _____ ft. to _____ ft.
 Welded _____" Diam. from _____ ft. to _____ ft.

Perforations: Yes No
 Type of perforator used _____
 SIZE of perforations _____ in. by _____ in.
 _____ perforations from _____ ft. to _____ ft.
 _____ perforations from _____ ft. to _____ ft.
 _____ perforations from _____ ft. to _____ ft.

Screens: Yes No
 Manufacturer's Name _____
 Type _____ Model No. _____
 Diam. _____ Slot size _____ from _____ ft. to _____ ft.
 Diam. _____ Slot size _____ from _____ ft. to _____ ft.

Gravel packed: Yes No Size of gravel: _____
 Gravel placed from _____ ft. to _____ ft.

Surface seal: Yes No To what depth? 18 ft.
 Material used in seal BENTONITE
 Did any strata contain unusable water? Yes No
 Type of water? _____ Depth of strata _____
 Method of sealing strata off _____

(7) PUMP: Manufacturer's Name _____
 Type: _____ H.P. _____

(8) WATER LEVELS: Land-surface elevation above mean sea level APP. ft.
 Static level 5'6" ft. below top of well Date 1-24-78
 Artesian pressure _____ lbs. per square inch Date _____
 Artesian water is controlled by _____ (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
 Was a pump test made? Yes No If yes, by whom? _____
 Yield: 30 gal./min. with _____ ft. drawdown after _____ hrs.
 " WITH AIR " = " " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

 Date of test _____
 Baller test _____ gal./min. with _____ ft. drawdown after _____ hrs.
 Artesian flow _____ g.p.m. Date _____
 Temperature of water 58° Was a chemical analysis made? Yes No

(10) WELL LOG:
 Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

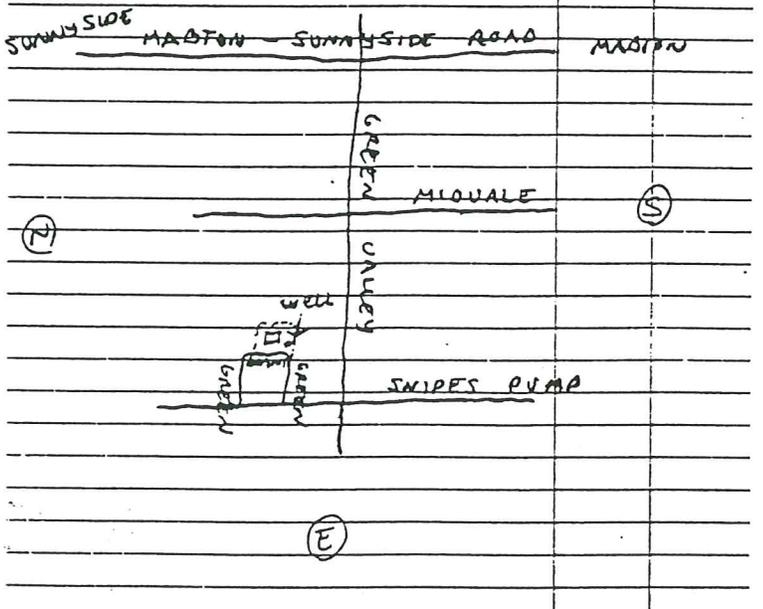
MATERIAL	DEPTH	FROM	TO
TOP SOIL (MED B.)	EASY	0	6
SAND (LOOSE)	"	6	36
" (GRAY BROWN)	"	36	71
CONGLOMERATE (LIGHT B.)	HARD	71	76

RECEIVED

JAN 27 1978

DEPARTMENT OF ECOLOGY
CENTRAL REGIONAL OFFICE

(W)



Work started 1-23 1978 Completed 1-24 1978

WELL DRILLER'S STATEMENT:
 This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
 NAME JENSEN'S WELL DRILLING & DRIVING
 (Person, firm, or corporation) (Type or print)
 Address 1603 SO. 10TH AVE -
 [Signed] Chris B. Jensen
 (Well Driller)
 License No. 0217 Date 12-27 1978

WATER WELL REPORT

Application No. _____

STATE OF WASHINGTON

Permit No.

(1) OWNER: Name Kranz, Dan Address Rt. 2 Box 2573-B Grandview Wb

(2) LOCATION OF WELL: County Yakima • SW 1/4 NE 1/4 Sec 24 T 9 N. R. 23 W.M. 9
 and distance from section or subdivision corner 200' South + 100' East of the North West Boundary

(3) PROPOSED USE: Domestic Industrial Municipal
 Irrigation Test Well Other

(4) TYPE OF WORK: Owner's number of well (if more than one) 1
 New well Method: Dug Bored
 Deepened Cable Driven
 Reconditioned Rotary Jetted

(5) DIMENSIONS: Diameter of well 6 inches.
 Drilled 140 ft. Depth of completed well 140 ft.

(6) CONSTRUCTION DETAILS:
 Casing installed: 6" Diam. from 718 ft. to 37 ft.
 Threaded " Diam. from _____ ft. to _____ ft.
 Welded " Diam. from _____ ft. to _____ ft.

Perforations: Yes No
 Type of perforator used _____
 SIZE of perforations _____ in. by _____ in.
 _____ perforations from _____ ft. to _____ ft.
 _____ perforations from _____ ft. to _____ ft.
 _____ perforations from _____ ft. to _____ ft.

Screens: Yes No
 Manufacturer's Name _____
 Type _____ Model No _____
 Diam. _____ Slot size _____ from _____ ft. to _____ ft.
 Diam. _____ Slot size _____ from _____ ft. to _____ ft.

Gravel packed: Yes No Size of gravel: _____
 Gravel placed from _____ ft. to _____ ft.

Surface seal: Yes No To what depth? 37 ft.
 Material used in seal Bentonite
 Did any strata contain unusable water? Yes No
 Type of water? _____ Depth of strata _____
 Method of sealing strata off _____

(7) PUMP: Manufacturer's Name _____
 Type: _____ H.P. _____

(8) WATER LEVELS: Land-surface elevation _____ ft.
 above mean sea level.
 Static level 20 ft. below top of well Date 4-12-79
 Artesian pressure _____ lbs. per square inch Date _____
 Artesian water is controlled by _____ (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
 Was a pump test made? Yes No If yes, by whom? _____
 Yield: gal./min. with _____ ft. drawdown after _____ hrs.
 " " " " " "
 " " " " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

 Date of test _____
 _____ gal. test _____ gal./min. with _____ ft. drawdown after _____ hrs.
 Artesian flow _____ g.p.m. Date _____
 Temperature of water _____ Was a chemical analysis made? Yes No

(10) WELL LOG:

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
soil	0	18
caliche + sand rock	18	21
broken basalt	21	37
hard grey basalt	37	80
brown basalt (little water)	80	83
1 to 2 g.p.m.)		
hard grey basalt	83	134
brown sand rock (water)	134	140

Blowed approx 40 g.p.m. with air

RECEIVED

JUN 11 1979

DEPARTMENT OF ECOLOGY
 CENTER FOR WATER RESOURCES

Work started 4-10, 1979. Completed 4-11, 1979

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Henry Back Well Drilling
 (Person, firm, or corporation) (Type or print)

Address Rt. 1 Box 360H Napato, Wn 98951

[Signed] Henry Back
 (Well Driller)

License No. 0053 Date 4-30, 1979

WATER WELL REPORT

STATE OF WASHINGTON

Start Card No. 03927

RIQUE WELL I.D. # AAF028

Water Right Permit No. _____

1) OWNER: Name Apol-Richards Realty Address P.O. Box 367, Sunnyside WA

2) LOCATION OF WELL: County Yakima NW SE 24 T 9 N. R 23 W.M.

2a) STREET ADDRESS OF WELL (or nearest address) 1270 Highland Rd., Grandview WA

3) PROPOSED USE: Domestic Irrigation DeWater Industrial Test Well Municipal Other

4) TYPE OF WORK: Owner's number of well (if more than one) _____
 Abandoned New well Deepened Reconditioned Method: Dug Cable Rotary Bored Driven Jetted

5) DIMENSIONS: Diameter of well 6 inches.
 Drilled 150 feet. Depth of completed well 150 ft.

6) CONSTRUCTION DETAILS:
 Casing installed: 6 " Diam. from +1 ft. to 25 ft.
 Welded 4 1/2 PVC " Diam. from 10 ft. to 150 ft.
 Linear installed Threaded

Perforations: Yes No
 Type of perforator used Saw Cut
 SIZE of perforations 3/16 in. by 5 in.
80 perforations from 120 ft. to 150 ft.

Screens: Yes No
 Manufacturer's Name _____ Model No. _____
 Slot size _____ from _____ ft. to _____ ft.
 Diam. _____ Slot size _____ from _____ ft. to _____ ft.

Gravel packed: Yes No Size of gravel _____
 Gravel placed from _____ ft. to _____ ft.

Surface seal: Yes No To what depth? 23 ft.
 Material used in seal Bentonite Clay
 Did any strata contain unusable water? Yes No
 Type of water? _____ Depth of strata _____
 Method of sealing strata off _____

7) PUMP: Manufacturer's Name _____
 Type: _____ H.P.

8) WATER LEVELS: Land-surface elevation above mean sea level _____ ft.
 Static level 11 ft. below top of well Date 8/23/93
 Artesian pressure _____ lbs. per square inch Date _____
 Artesian water is controlled by _____ (Cap, valve, etc.)

9) WELL TESTS: Drawdown is amount water level is lowered below static level
 Was a pump test made? Yes No If yes, by whom? _____
 Yield: _____ gal./min. with _____ ft. drawdown after _____ hrs.

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

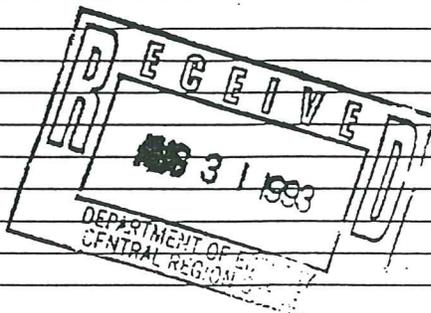
Date of test _____

Bailer test _____ gal./min. with _____ ft. drawdown after _____ hrs.
 Airtest 33 gal./min. with stem set at 150 ft. for 1 hrs.
 Artesian flow _____ g.p.m. Date 8/23/93
 Temperature of water 62° Was a chemical analysis made? Yes No

(10) WELL LOG or ABANDONMENT PROCEDURE DESCRIPTION

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of information.

MATERIAL	FROM	TO
Soil, Brown Clay & Sand	0	16
Brown Basalt	16	24
Medium Gray Basalt	24	45
Brown Basalt	45	55
Brown & Gray Basalt & Water	55	63
Medium Gray Basalt	63	73
Brown Basalt	73	83
Medium Gray Basalt	83	98
Medium Gray Basalt w/Brown Basalt Strips	98	115
Brown Sandstone & Water	115	130
Gray Sandstone & Water	130	142
Light Gray Clay	142	145
Gray Clay	145	150



Work started 8/20/93, 19. Completed 8/23/93, 19.

WELL CONSTRUCTOR CERTIFICATION:

I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

OASIS DRILLING

NAME 340 Lamb Lane (PERSON, FIRM, OR CORPORATION) (TYPE OR PRINT)
Moxee, WA 98938

Address _____

(Signed) [Signature] License No. 1435

Contractor's Registration No. OASISD*072J9 Date 8/30/93, 19

(USE ADDITIONAL SHEETS IF NECESSARY)



APPENDIX H



Photograph 1: Looking north from the site.



Photograph 2: Looking east from the site



Photograph 3: Looking west from the site



Photograph 4: Looking south from the site



Photograph 5: 5,000 gallon tank



Photograph 6: 8,000 gallon tank.

APPENDIX I

R. E. POWELL DISTRIBUTING CO.

Phone 882-2115

P. O. Box 98

GRANDVIEW, WASHINGTON 98930

For Value Received

R.E. Powell Distributing hereby sells one used 8,000 gallon underground tank to Larry Loges.

It is understood that this underground tank has been used to store gasoline petroleum product and is not to be used for watering livestock. Also it is understood that an underground tank is designed only for underground use.



Agreed and Accepted

3-22-95²