

UST CLOSURE SITE ASSESSMENT REPORT



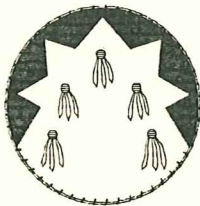
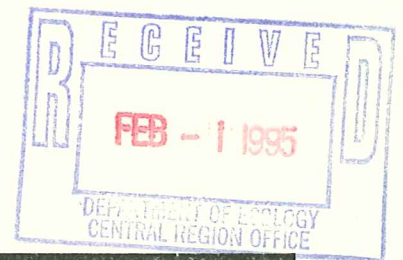
Site Location

1602 1618 Rudkin Road
Yakima, Washington

Wondrack Dist. # 4274

Prepared For:
Mr. Greg Huylar
Russell Crane Service Inc.
505 Locust Avenue
Yakima, WA 98902

JANUARY, 1995



WHITE SHIELD

INC.

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

EXECUTIVE SUMMARY

White Shield, Inc. (WSI) provided site assessment services upon removal of two regulated Underground Storage Tanks (USTs), measuring approximately 8 feet x 8 feet 4.5 feet in height (square) with an estimated capacity of 500 gallons each. The tanks were used for storing used motor oil generated during truck servicing operations. The tanks were located at 1618 Rudkin Road, Yakima, Washington.

The used motor oil was conveyed to the tanks via PVC piping. The inlets and outlets were located adjacent to the south wall of a metal building. The USTs and piping were in good condition at the time of removal. A close inspection of the tanks revealed signs of incipient corrosion and pitting but no holes were observed.

Laboratory analysis of soil samples revealed petroleum contamination exceeding the MTCA Method A Cleanup Levels in the soil taken from the bottom of two separate excavations. The analytical laboratory results indicated contamination below the MTCA cleanup level on the walls of the excavations.

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1.0 Introduction

1.1 Purpose

This report describes findings and actions taken for work associated with the removal of two regulated Underground Storage Tanks (USTs), measuring approximately 8 feet x 8 feet x 4.5 feet, with a capacity of 500 gallons each. The tanks were located at 1618 Rudkin Road, Yakima, Washington. The Washington State Department of Ecology (WSDOE) requires a report for the closure of a regulated Underground Storage Tank (UST) site.

1.2 Scope of Work

White Shield, Inc. (WSI) provided site assessment services for the removal of two 500 gallon used motor oil USTs. Russell Crane Services Inc. provided the decommissioning services and removed the USTs from the site for cleaning and disposal. On Site Environmental, Inc. (OnSite), Redmond, Washington, provided the laboratory analytical services. Refer to Appendix B, Laboratory report and chain of custody and Table I, Soil Field Screening and Laboratory Analytical Results.

The initial site assessment services provided by WSI included 7 Thin Layer Chromatography (TLC) field screening tests for semi-volatile components. A total of 13 soil samples were also sent to the laboratory for analysis.

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

2.0 Background Information

2.1 Site Location

The site is located at 1618 Rudkin Road, Yakima Washington. It is approximately 1.5 miles north of Valley Mall Boulevard/Rudkin Road intersection. The site is described as the tax parcel # 191329-43440 located in the SE 1/4, Section 29, T13N, R19E, W.M. Refer to Figure 1, Site Location Map.

2.2 Site Description and History

The main structure on the subject site is a metal frame building which is utilized for truck servicing. The east half of the metal building is occupied by Better All Auto Sales and Transport and the west half is rented by Yakima Truck Service. The two underground storage tanks, with a capacity of 500 gallons each, were installed eight years ago at the southwest and the southeast ends of the metal building. The tank at the southeast end was used by Better All Auto Sales and Transport and the tank at the southwest end was used by Yakima Transport Service. The subject site is also occupied by an above ground storage tank, a truck wash and two diesel fuel underground storage tanks. Refer to Figure 2, Site Plan and Figure 3, Sampling Plan.

The USTs that were removed on December 14, 1994 are described as follows:

Tank Code	WSDOE UST Site number	Contents	Volume (gallons)
3	004274	used oil/w	500
4	004274	used oil/w	500

An interview with the site owner revealed that there were no underground tanks at the site prior to the installation of the two waste oil tanks. Currently, there are two diesel fuel underground storage tanks located to the north of the truck wash and a diesel fuel aboveground storage tank to the east. Refer to Figure 2, Site Plan.

2.3 Soils Description

The soil appeared to be predominantly inorganic silts, very fine sands, rock flour, silty or clayey fine sands (ML).



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

JOB _____

SHEET NO. _____ OF _____

CALCULATED BY _____ DATE _____

CHECKED BY _____ DATE 12/27/94

SCALE NTS

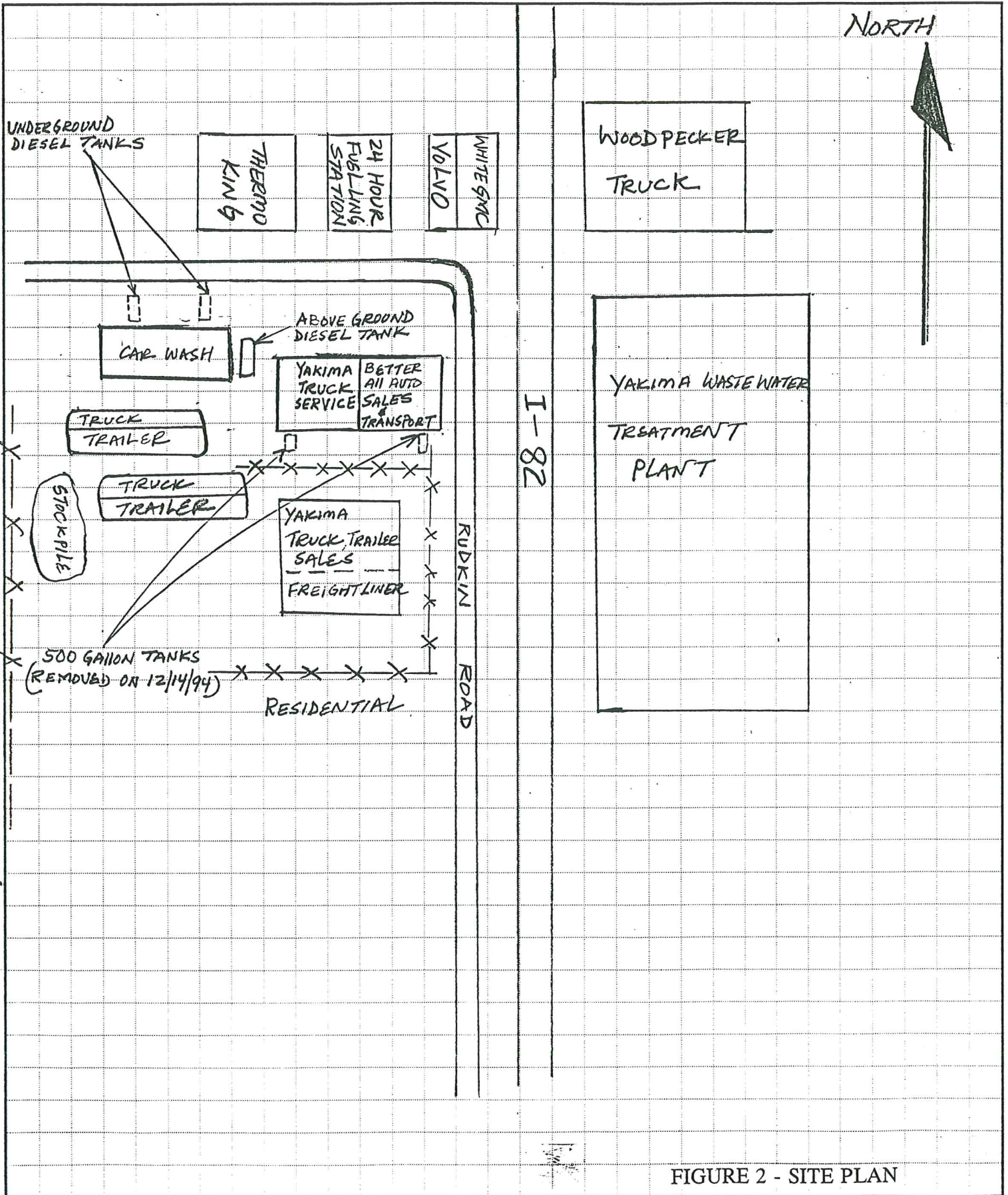


FIGURE 2 - SITE PLAN

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, site assessor registered with the Washington State Department of Ecology Underground Storage Tank Program, performed the Site Assessment on December 14, 1994. The top of USTs had been exposed and the used motor oil transmission pipelines had been disconnected prior to the arrival of WSI personnel. All pipelines associated with the tanks have been removed.

Each excavation measured approximately 10 feet x 10 feet x 7 feet deep. The soil in the excavations appeared clean. The TLC field screening conducted on seven soil samples taken from the excavations revealed no apparent contamination.

3.3 Tank Inspection

Soil and scale attached to the tank was removed to completely expose the tanks for inspection. The tanks showed signs of incipient corrosion and pitting but no holes were observed. Refer to Photographs 4 and 5 for the condition of the tanks.

3.4 Initial Sampling/Site Assessment

On December 14, 1994, a total of 13 soil samples were collected from the excavations and the soil stockpile for TLC field screening and laboratory analysis. The TLC field screening of the samples RUC-0294-101, 102, 104, 105 from the excavation #1 and samples RUC-0294-202, 204, and 205 from the excavation #2 revealed no apparent contamination.

Samples RUC-0294-101 through 104 were collected from the east, south, west and north walls of the excavation #1 at a depth of approximately 3.5 feet. Sample RUC-0294-105 was collected from the bottom of the excavation #1 at a depth of 7 feet. The samples RUC-0294-106 through 108 were collected from the soil stockpile. The stockpile consists of approximately 20 yards of soil removed from the two excavations. The samples RUC-0294-201 through 205 were collected from the excavation #2. The samples RUC-0294-201 through 204 were collected at a depth of approximately 3.5 feet from the east, south, west and the north walls respectively. Sample RUC-0294-205 was collected from the bottom of excavation # 2 at a depth of 7 feet. Refer to Figure 3, Site Sampling Plan.

A total of 13 soil samples were sent to OnSite for laboratory analyses. The laboratory results revealed contamination levels below the MTCA cleanup level on the walls of both excavations. However, the bottom sample RUC-0294-105 from excavation #1 and the bottom sample RUC-0294-205 from the excavation #2 had total petroleum hydrocarbon contamination of 440 ppm and 310 ppm respectively. The two bottom samples were taken from directly below the waste oil inlets and the discharge outlets of the tanks which were located adjacent to the south wall of the metal building. Refer to Figure 3, Sampling Plan for bottom sample locations. Any further removal of the material from the bottom of the excavations will jeopardize the structural integrity of the building foundation. WSI recommends insitu bioremediation of the site to meet MTCA cleanup requirements. Refer to Table I and Appendix B for analytical laboratory results.

4.0 Soil Analysis Summary

4.1 Petroleum Analysis

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 in this excavation. Washington State Department of Ecology well logs are presented in Appendix G.



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JOB _____

SHEET NO. _____ OF _____

CALCULATED BY _____ DATE 12/27/94

CHECKED BY _____ DATE _____

SCALE NTS

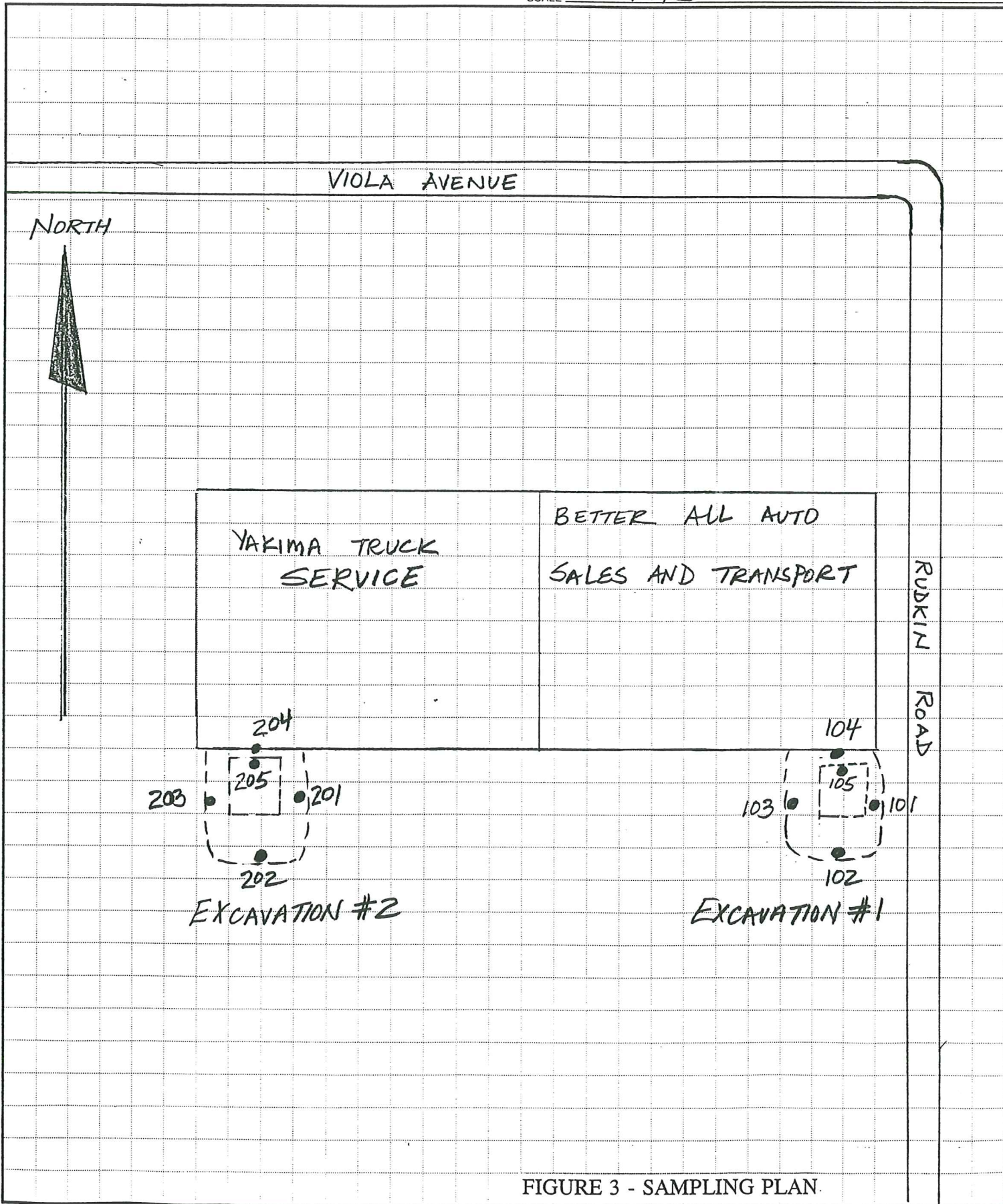


FIGURE 3 - SAMPLING PLAN.

TABLE I: SOIL FIELD SCREENING & LABORATORY ANALYTICAL RESULTS

LOCATION AND DEPTH	SAMPLE #	DATE	TLC ppm	418.1 Modified ppm
East wall/South wall 3.5 feet	RUC-0294-101/102	12/14/94	nd	73
West wall/North wall 3.5 feet	RUC-0294-103/104	12/14/94	nd*	nd
Bottom 7 feet	RUC-0294-105	12/14/94	nd	440
East wall/South wall 3.5 feet	RUC-0294-201/202	12/14/94	nd*	nd
West wall/North wall 3.5 feet	RUC-0294-203/204	12/14/94	nd*	nd
Bottom	RUC-0294-205	12/14/94	nd	310
Stockpile	RUC-0294-106 sp	12/14/94	nt	14,000
Stockpile	RUC-0294-107 sp	12/14/94	nt	360
Stockpile	RUC-0294-108 sp	12/14/94	nt	310

nt = Not Tested
 nd = Not Detected

* Samples RUC-0294-103, RUC-0294-201 and 203 were not field screened.

6.0 End Use of Soil

Analytical laboratory results of the stockpile samples revealed evidence of petroleum contamination in excess of the Method A Cleanup Levels as established by the Model Toxics Control Act (WAC 173-340-720). The stockpile consists of Class 3 and Class 4 Soils and should be either properly disposed in compliance with WSDOE regulations or remediated on site to meet the MTCA cleanup requirements.

7.0 Conclusion

Analytical laboratory results revealed petroleum contamination in excess of the MTCA Cleanup Levels remaining in the bottom of the two excavations. Since further removal of the contaminated soil will jeopardize the structural integrity of the building foundation, WSI recommends insitu bioremediation of the site to meet the Method A Cleanup Levels as established by the Model Toxics Control Act (WAC 173-340-720).

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.

APPENDIX A

DATE: 12/14/94.

PROJECT: Russel CRANE
 PROJECT # RUC-029A
 CLIENT'S REP: DON WURST.
 WEATHER: SNOWING.

LOCATION DATA: 505 LOCUST AVE, YAKIMA WASHINGTON
 TAX PARCEL # 191323-32414
 SW 1/4, SECTION 23, T13N, R19E, Wm.
 OWNER: DON WURST.

- SITE VICINITY MAP
- SITE SKETCH.

HISTORY:

DATE OF INSTALLATION — 8 YEARS.
 DATES OF USE AND CURRENT STATUS — Waste oil
 NUMBER OF TANKS — 2
 LOCATION — 505 LOCUST AVENUE.

CAPACITY — 500 Gallon

Dimension

Age

Material of Construction of existing UST SYSTEM — steel

FILL PIPES, — PVC.

VENT PIPING — steel

PUMPS — none — pumped by dis

VALVES

DISTRIBUTION PIPING

Flex Connectors

• NUMBER AND LOCATION OF ANY PREVIOUSLY REMOVED USTS

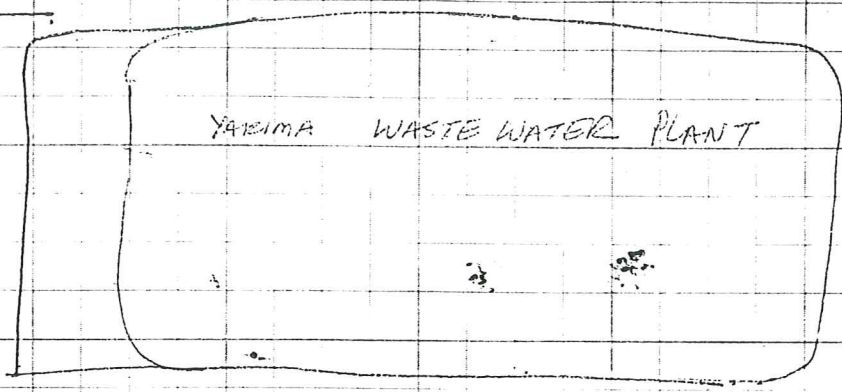
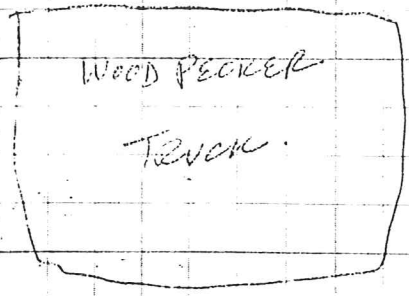
• TYPES OF SUBSTANCES STORED — USED OIL

• DEPTH, WIDTH AND TYPE OF BEDDING / BACKFILL MATERIALS

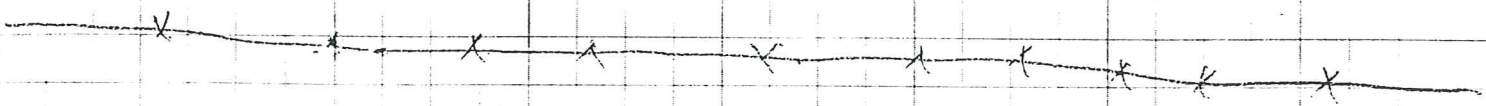
004274 — SITE ID
 OWNER — 001934

Flairsham

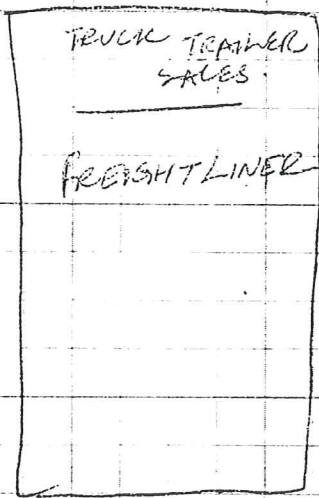
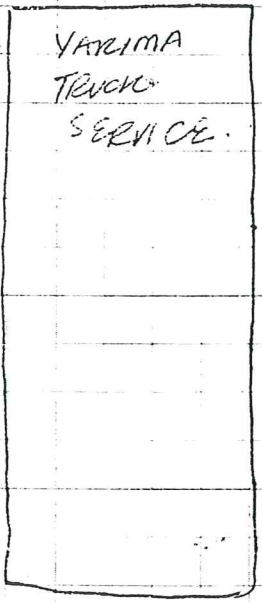
SITE SKETCH



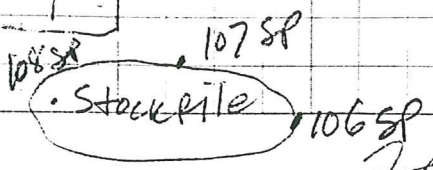
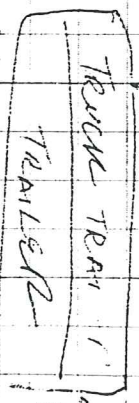
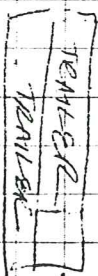
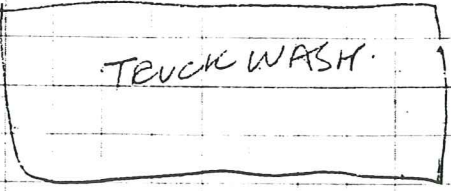
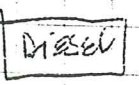
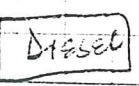
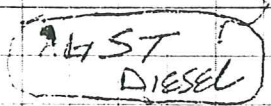
I-82



RUDKIM ROAD



RESIDENTIAL



RESIDENTIAL

Harishanna

12/14/98

9:00 Am. LEFT OFFICE.
 9:45 ARRIVED AT SITE AND ASKED GREG HUYLAR WHETHER
 to 12:45 DOE HAS BEEN GIVEN 30 DAY NOTICE OR NOT.
 DOE HAD NOT BEEN NOTIFIED - TALKED TO DON WURST
 AND LET HIM KNOW ABOUT THAT.
 - CALLED Jim CHULOS AND John weiffeld of WSDOE
 CENTRAL Regional office and waited for
 30 minutes for them to return our calls - No
 response.
 - went to DOE office. Talked with John
 weiffeld. HE Accompanied us to the site
 and waived 30 day notice after I
 gave a letter to him!

12:45 Sketched site, took photographs of
 to 1:45 Vicinity, interviewed owner and other
 operator.
 - excavated minor amount of visibly
 contaminated soil and stockpiled it to
 the South EAST CORNER OF THE PROPERTY
 (REFER TO SKETCH).
 1:45 (PULLED OUT TANKS - APPEARED TO BE
 IN FAIRLY GOOD CONDITION - CORROSION AND
 PITTING HAD STARTED. HOWEVER NO HOLES
 WERE PRESENT. THE MINOR CONTAMINATION
 AROUND THE FILL AND DISCHARGE PIPE.

1:45 to 4:45 CONDUCTED 7 TLC TESTS

TLC	RESULT
104-102	ND
105	ND
101	ND
204	ND
205	ND
202	ND
104	ND

Collected 13 samples for Laboratory analysis

sample	location	DEPTH
101	E. wall	3.5'
102	S. wall	3.5'

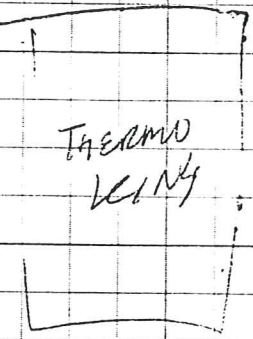
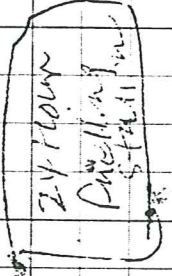
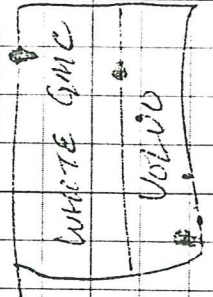
Krishnam

ENGINE

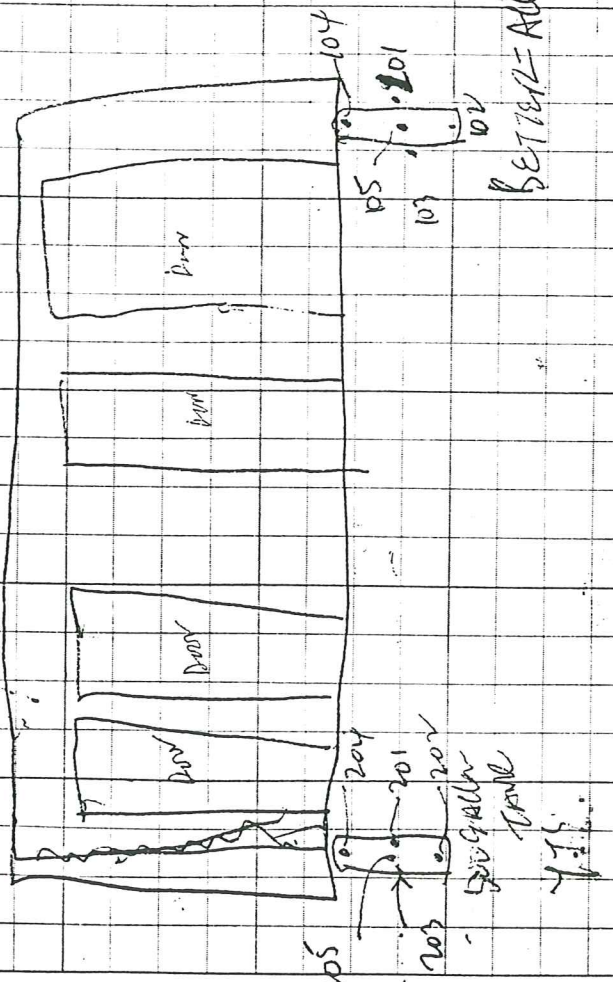
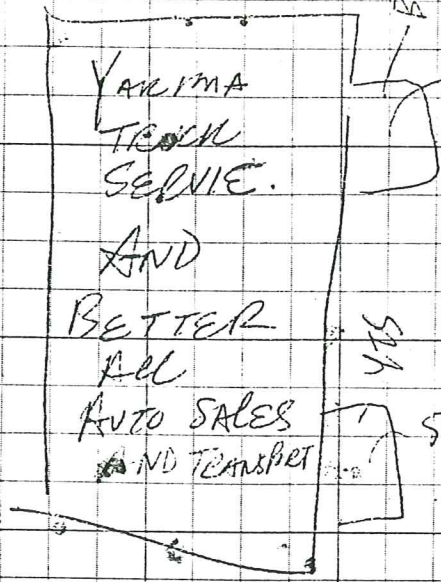
P. 49

Used oil — TRUCK

12/14/98/4



RUDKIN RD.



PVC - FILL PIPE
Steel - Vent

RECTANGULAR TANKS

8' x 8' x 4.5'

Harisharma

12/14/94

SAMPLE	LOCATION	DEPTH
103	W. WALL	3.5'
104	N. WALL	3.5'
105	bottom	7'
106SP	Stockpile	
107SP	Stockpile	
108SP	Stockpile	
201	E. WALL	3.5'
202	S. WALL	3.5'
203	W. WALL	3.5'
204	N. WALL	3.5'
205	Bottom	7'

Harishama

APPENDIX B



**OnSite
Environmental Inc.**

Analytical Testing and Mobile Laboratory Services

December 19, 1994
Lab Traveler #:12-046

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 December 17, 1994 from Project RUC-0294.

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: December 19, 1994
Samples Submitted: December 17, 1994
Lab Traveler: 12-046
Project: RUC-0294

EPA 418.1 Modified

Date Extracted: 12-19-94
Date Analyzed: 12-19-94

Matrix: Soil
Units: mg/Kg (ppm)

Client ID	Dilution Factor	Total Petroleum Hydrocarbons
RUC-0294-101/RUC-0294-102 Composite	2	73
RUC-0294-103/RUC-0294-104 Composite	2	<20
RUC-0294-105	2	440
RUC-0294-106sp	40	14000
RUC-0294-107sp	2	360
RUC-0294-108sp	2	310
RUC-0294-201/RUC-0294-202 Composite	2	<20
RUC-0294-203/RUC-0294-204 Composite	2	<20
RUC-0294-205	2	310

Date of Report: December 19, 1994
Samples Submitted: December 17, 1994
Lab Traveler: 12-046
Project: RUC-0294

**EPA 418.1 Modified
QUALITY ASSURANCE**

Date Extracted: 12-19-94
Date Analyzed: 12-19-94

Matrix: Soil
Units: mg/Kg (ppm)

	Dilution Factor	Total Petroleum Hydrocarbons
Method Blank	2	<20
Sample: 12-046-13	2	305
Duplicate	2	359
RPD		16%

COMPANY WHITE SHIELD, INC.
 PROJECT # RUC-0294
 PROJECT NAME RUSSEL CRANE
 MANAGER ARI SMARMA
 PM Tony Miller KA



14524 NE 31st CIRCLE, REDMOND, WA 98052
 PHONE (206) 883-3881 FAX (206) 885-4603

REQUESTED
 TURNAROUND?
Normal

TRAVELER #
12-046

WTPH-HCID	WTPH-G/BTEX	WTPH-G	WTPH-D	WTPH-418.1	418.1 MODIFIED	DRY WEIGHT
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Dash	Sample Number	Date Sampled	Time Sampled	Type	# Jars	Analysis Required	Comments
1	RUC-0294-101 Z	12/17/94	1 to 4:30 pm	Soil	1	✓	3 => Composite
2	-102 Z	"	"	"	1	"	
3	-103 Z	"	"	"	1	"	
4	-104 Z	"	"	"	1	"	
5	-105	"	"	"	1	"	
6	-106 SP	"	"	"	1	"	
7	-107 SP	"	"	"	1	"	
8	-108 SP	"	"	"	1	"	
9	-201 Z	"	"	"	1	"	
10	-202 Z	"	"	"	1	"	
11	-203 Z	"	"	"	1	"	
12	-204 Z	"	"	"	1	"	
13	-205	"	"	"	1	"	

Submitted Flanish Shamba Date 12/17/94 Received by [Signature] Date 12/17/94
 Firm _____ Time _____ Firm On Site Environmental Time 1:30 pm
 Submitted _____ Date _____ Received by _____ Date _____
 Firm _____ Time _____ Firm _____ Time _____

APPENDIX C

Table 2
Method A Cleanup Levels - Soil^a

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

^a Caution on misusing method A tables. Method A tables have been developed for specific purposes. They are intended to provide conservative cleanup levels for sites undergoing routine cleanup actions or those sites with relatively few hazardous substances. The tables may not be appropriate for defining cleanup levels at other sites. For these reasons, the values in these tables should not automatically be used to define cleanup levels that must be met for financial, real estate, insurance coverage or placement, or similar transactions or purposes. Exceedances of the values in these tables do not necessarily trigger requirements for cleanup action under this chapter.

^b Arsenic. Cleanup level based on background concentrations in the state of Washington.

^c Benzene. Cleanup level based on protection of ground water.

^d Cadmium. Cleanup level based on plant protection.

^e Chromium. Cleanup level based on health risks associated with inhalation of resuspended dust.

^f DDT. Cleanup level based on concentrations derived using the procedures in subsection (3)(a)(iii)(B) of this section.

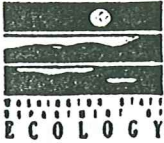
^g Ethylbenzene. Cleanup level based on protection of ground water.

^h Ethylene dibromide. Cleanup level based on protection of ground water.

ⁱ Lead. Cleanup level based on preventing unacceptable blood lead levels.

- j Lindane. Cleanup level based on concentration derived using the procedures in subsection (3)(a)(iii)(B) of this section.
- k Methylene chloride. Cleanup level based on protection of ground water.
- l Mercury. Cleanup level based on protection of ground water.
- m PAHs (carcinogenic). Cleanup level based on concentration derived using the procedures in subsection (3)(a)(iii)(B) of this section.
- n PCB Mixtures. Cleanup level based on concentration derived using the procedures in subsection (3)(a)(iii)(B) of this section.
- o Tetrachloroethylene. Cleanup level based on protection of ground water.
- p Toluene. Cleanup level based on protection of ground water.
- q Total Petroleum Hydrocarbons (gasoline). Cleanup level based on protection of ground water.
- r Total Petroleum Hydrocarbons (diesel). Cleanup level based on protection of ground water.
- s Total Petroleum Hydrocarbons (other). Cleanup level based on protection of ground water.
- t 1,1,1 Trichloroethane. Cleanup level based on protection of ground water.
- u Trichloroethylene. Cleanup level based on protection of ground water.
- v Xylenes. Cleanup level based on protection of ground water.

APPENDIX D



**UNDERGROUND STORAGE TANK
Site Check/Site Assessment Checklist**

For Office Use Only	
Owner #	U0001934
Site #	004274

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): 004274

Site/Business Name: BETTER ALL AUTO SALES AND TRANSPORT & YAKIMA TRANSPORT SERVICE.

Site Address: 1618 RUDKIN ROAD Telephone: (509) 575-1830

Street
YAKIMA
City

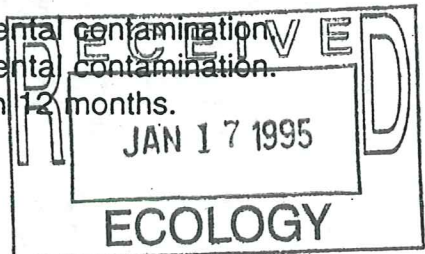
State
WA
ZIP-Code
98901

TANK INFORMATION

Tank ID No.	Tank Capacity	Substance Stored
<u>3</u>	<u>500</u>	<u>USED MOTOR OIL</u>
<u>4</u>	<u>500</u>	<u>USED MOTOR OIL</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)	NA	
- 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	

SITE ASSESSOR INFORMATION

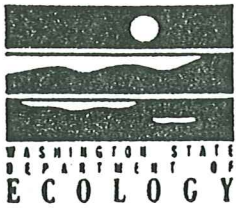
HARI SHARMA WHITE SHIELD, INC.
 PERSON REGISTERED WITH ECOLOGY FIRM AFFILIATED WITH
 BUSINESS ADDRESS: 801 GRANDRIDGE ROAD TELEPHONE: 509, 882-1144
GRANDVIEW WA 98930
 CITY STATE ZIP+CODE

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.

12/29/94
Date

Hari Sharma
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

For Office Use Only
Owner # U0001934
Site # 004274

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): 004274
Site/Business Name: YAKIMA TRANSPORT SERVICE & BETTER ALL AUTO SALES AND TRANSPORT
Site Address: 1618 RUDKIN ROAD Telephone: (509) 575-1830
YAKIMA WA 98901
City State ZIP-Code

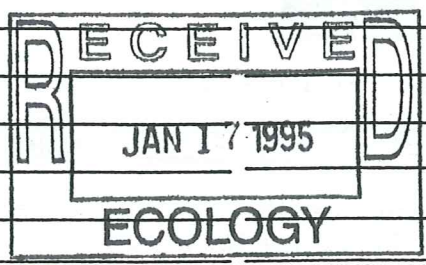
TANK INFORMATION:

Tank ID	Closure Date	Tank Capacity	Substance Stored
<u>3</u>	<u>12/14/94</u>	<u>500 Gallon</u>	<u>MOTOR OIL</u>
<u>4</u>	<u>12/14/94</u>	<u>500 Gallon</u>	<u>Motor Oil</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: Donald A. Werst
Owners Signature: Donald A. Werst Telephone: (509) 965-2694
Address: 1618 RUDKIN ROAD P.O. Box 98901
YAKIMA WA 98901
City State ZIP-Code

TANK CLOSURE/CHANGE-IN-SERVICE PERFORMED BY:
Service Provider: RUSSELL CRANE SERVICE, INC. License Number: _____
Licensed Supervisor: _____ Decommissioning License Number: _____
Supervisors Signature: _____
Address: 505 LOCUST AVENUE P.O. Box 98901
YAKIMA WA 98901
City State ZIP-Code
Telephone: (____) _____

SITE CHECK/SITE ASSESSMENT CONDUCTED BY:
Name of Registered Site Assessor: HARI SHARMA
Telephone: (509) 882-1144
Address: 801 GRANDRIDGE ROAD P.O. Box 98930
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 Tommy A. McCabe Address 215 S. 30th Ave., Yakima, WA 98902

LOCATION OF WELL: County YAKIMA NE 1/4 SE 1/4 Sec 29 T. 13 N. R. 19E W.M.

Bearing and distance from section or subdivision corner Lot 21, Gibler Garden Tracts

(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 6 inches.
Drilled 58 ft. Depth of completed well 53 ft.

(6) CONSTRUCTION DETAILS:
Casing installed: 6" Diam. from +1 ft. to 54 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 Model No.
Type 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? surface Depth of strata 13
Method of sealing strata off casing

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

(8) WATER LEVELS: Land-surface elevation ft.
above mean sea level.
Static level 11 ft. below top of well Date 2/11/86
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?

Water Level	Time	Water Level	Time	Water Level

..... in. with ft. drawdown after hrs.
..... g.p.m. Date
Was a chemical analysis made? Yes No

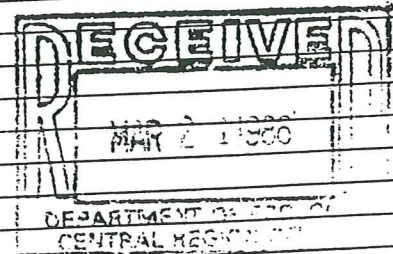
(10) WELL LOG:

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
Grass & clay	0	2
Sand, Gravel, Boulders	2	13
Sand, Gravel, Cobble w/water	13	58

NO PVC Liner Installed

6" Drive shoe installed



Work started 2/10, 1986. Completed 2/11, 1986.

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 PONDEROSA DRILLING & DEVELOPMENT INC.
(Person, firm, or corporation) (Type or print)

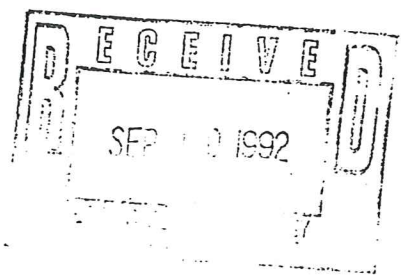
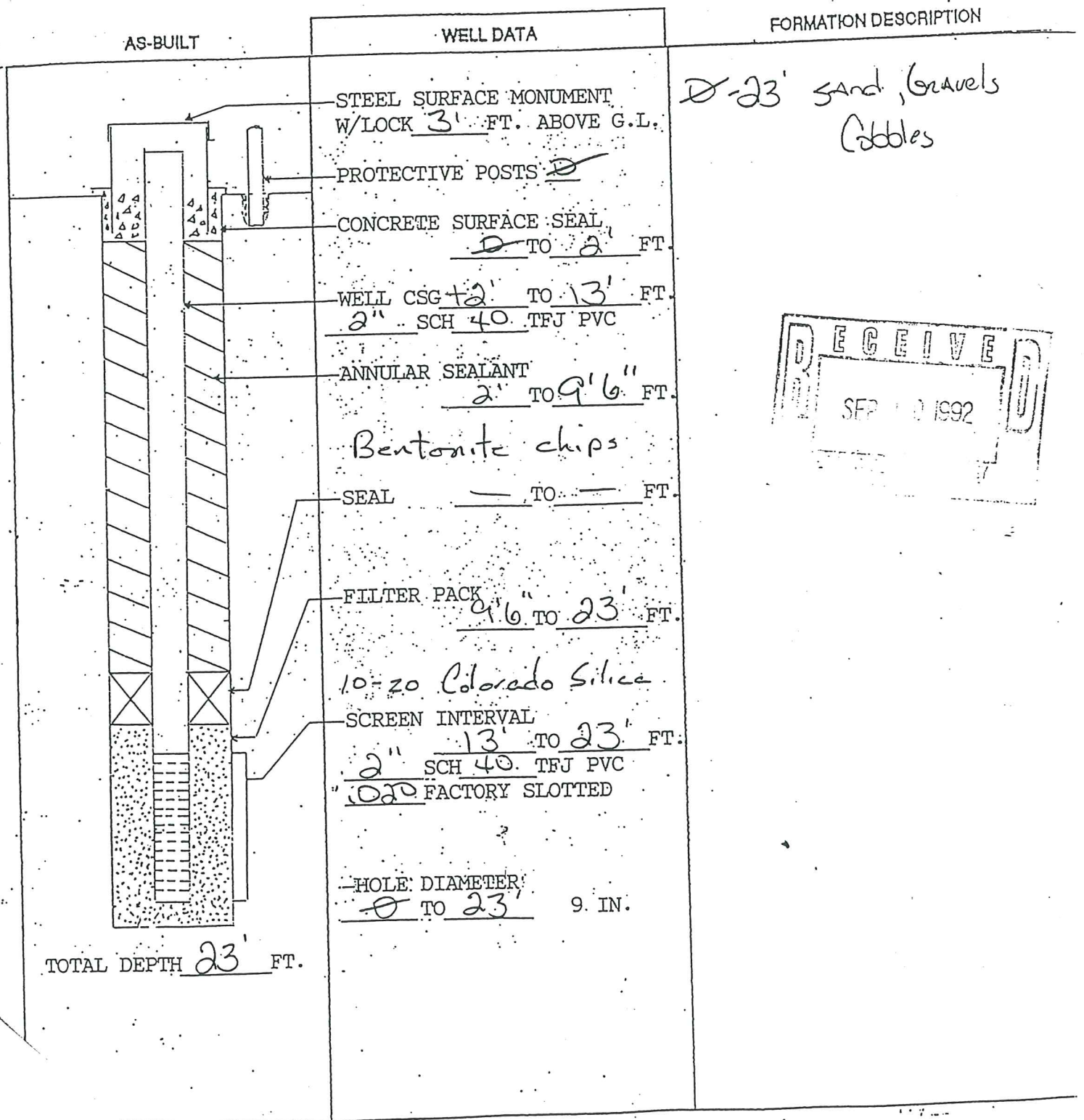
Address E. 6010 Broadway, Spokane, WA 99212

[Signed] W. Joseph Close Jr. (Well Driller)

License No. 1040 Date 2/11, 1986

PROJECT NAME: Spray field Yakima Wash
 WELL IDENTIFICATION NO. MW-4
 DRILLING METHOD: Recession Hammer - Reverse Air
 DRILLER: Richard Siment
 FIRM: Layne Environmental Services, Inc.
 SIGNATURE: [Signature]
 CONSULTING FIRM: [Signature]
 REPRESENTATIVE: Jim O'Connor

COUNTY: YAKIMA
 LOCATION: NE 1/4 SE 1/4 Sec 29 Twn 13N R 19E
 STREET ADDRESS OF WELL: 2220 E. Viola
YAKIMA, WA
 WATER LEVEL ELEVATION: 12.0
 GROUND SURFACE ELEVATION: _____
 INSTALLED: 8-13-92
 DEVELOPED: 8-14-92



WATER WELL REPORT
STATE OF WASHINGTON

Application No. /

Permit No.

(1) OWNER: Name Lawrence Moser Address

LOCATION OF WELL: County Yakima - NW 1/4 SE 1/4 Sec 29 T. 13. N. R. 19. W.M.
Bearing and distance from section or subdivision corner

(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 6 1/2 inches.
Drilled 95 ft. Depth of completed well 95 ft.

(6) CONSTRUCTION DETAILS:
Casing installed: 8" Diam. from 71 ft. to 68 ft.
Threaded 6" Diam. from 71 ft. to 92 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..... Model No.....
Type.....
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? 74+ 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: HP.....

(8) WATER LEVELS: Land-surface elevation above mean sea level.....ft.
Static level 12 ft. below top of well Date.....
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

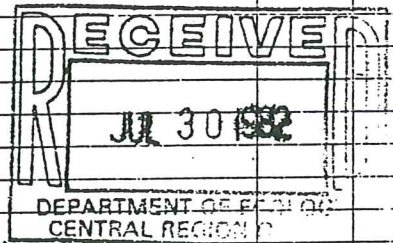
Date of test

Bailer test..... gal./min. with ft. drawdown after..... hrs.
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
TOP SOIL	0	1
Gravel, RIT	1	6
Boulders, cobbles gravel	6	40
Gravel, sand, silt Narrow cong Silt lenses 56-58'	40	62
cobbles, gravel	62	74
Gonglomerate, gray w/ narrow brown clay & silt lenses hard	74	92
gravel, w/ brown sand, water	92	95



No GAS ~~order~~
order

Work started 5-17, 1982 Completed 5-20, 1982

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 Cassel Well Drilling
(Person, firm, or corporation) (Type or print)

Address 1308 Kaulker Yakima

[Signed] Lawrence Moser
(Well Driller)

License No. 0073 Date 5-21, 1982

EP 8.3.82

WATER WELL REPORT

STATE OF WASHINGTON

Application No. _____
 Permit No.

(1) OWNER: Name Wilson Octavus Trust Address 1809 E Viola Yakima
MIU SE 1/4 Sec 29 T. 13 N. R. 19 W.M.

LOCATION OF WELL: County YAKIMA
 Location and distance from section or subdivision corner SE 1/4 City of Yakima Lot 37 Goodwin's Five Acres Tract

(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 6 inches.
 Drilled 77 ft. Depth of completed well 75 ft.

(6) CONSTRUCTION DETAILS:
 Casing installed: 6 " Diam. from 0 ft. to 66 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 _____ Model No. _____
 Type _____
 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 _____ HP _____
 Type: _____

(8) WATER LEVELS: Land-surface elevation above mean sea level _____ ft.
 Static level 16 ft. below top of well Date _____
 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 _____
 Barrier test 75 gal./min. with _____ ft. drawdown after 1 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
Top Soil	0	5
GRAVEL, Sand & Boulders	5	75
SURFACE WATER	25-35	
WATER	50-70	

Work started 5-14, 1979 Completed 5-15, 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 EASTWOOD Drilling Co (Type or print)
 (Person, firm, or corporation)
 Address 2202 River Rd Yakima, WA
 [Signed] Jerry Taylor (Well Driller)
 License No. 0495 Date 5-15, 1979

WATER WELL REPORT

Application No.

STATE OF WASHINGTON

Permit No.

OWNER: Name Tommy A. McCabe Address 215 S. 30th Ave., Yakima, WA 98902

LOCATION OF WELL: County YAKIMA NE $\frac{1}{4}$ SE $\frac{1}{4}$ Sec 29 T. 13N. R. 19E W.M.

Bearing and distance from section or subdivision corner Lot 21, Gibler Garden Tracts

(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 6 inches.
 Drilled 25 ft. Depth of completed well 79 ft.

(6) **CONSTRUCTION DETAILS:**
 Casing installed: 6 " Diam. from 54 ft. to 79 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.

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? ft.
 Material used in seal installed previously
 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: HP.....

(8) **WATER LEVELS:** Land-surface elevation
 above mean sea level ft.
 Static level 10 ft. below top of well Date 3/04/86
 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: 100+ gal./min. with ft. drawdown after hrs.
 " ESTIMATED AIRLIFT "
 " " "

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

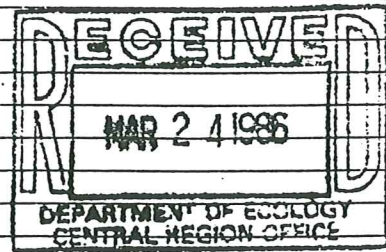
Date of test

Bailer test.....gal./min. with.....ft. drawdown after.....hrs.
 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
Clay, yellow w/gravel	58	61
Cemented gravel w/boulders w/water	61	76
Clay seam, yellow	76	77
Gravel, coarse w/water	77	83
NO PVC Liner installed		
6" Drive shoe installed		



Work started 3/03, 19 86 Completed 3/04, 19 86

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 PONDEROSA DRILLING & DEVELOPMENT INC.
 (Person, firm, or corporation) (Type or print)

Address E. 6010 Broadway, Spokane, WA 99212

[Signed] W. Joseph Close Jr.
 (Well Driller)

License No. 1040 Date 3/04, 19 86

WATER WELL REPORT

Start Card No. 033726

STATE OF WASHINGTON

Water Right Permit No. _____

(1) OWNER: Name Maid O Clover Address 1802 E. Nob Hill Yakima, Wa.

(2) LOCATION OF WELL: County Yakima Parcel # 191329-42433 NW 1/4 SE 1/4 Sec. 29 T. 13 N. R. 19 W.M.

(2a) STREET ADDRESS OF WELL (or nearest address) 1802 E. Nob Hill

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

(10) WELL LOG or ABANDONMENT PROCEDURE DESCRIPTION

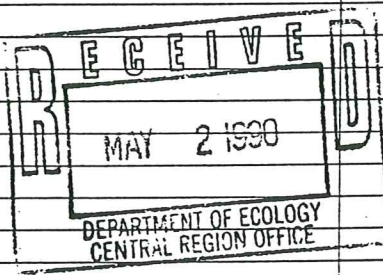
Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of information.

MATERIAL	FROM	TO
Asphalt	0	4"
Clay Loam	4"	5
Conglomerate gravel & sand	5	28
" " w/brn.		
sandy clay	28	36
Conglomerate gravel & sand	36	52
" " w/brn.		
clay	52	56
Conglomerate gravel & sand	56	60

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

(5) DIMENSIONS: Diameter of well 6 inches.
 Drilled 60 feet. Depth of completed well 60 ft.

(6) CONSTRUCTION DETAILS:
 Casing installed: 6 " Diam. from 0 ft. to 60 ft.
 Welded " Diam. from _____ ft. to _____ ft.
 Liner installed " Diam. from _____ ft. to _____ ft.
 Threaded " 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? 20 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 _____ ft.
 Static level 20 ft. below top of well Date 4-2-90
 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? Bach
 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 _____ gal./min. with stem set at _____ ft. for _____ hrs.
 Artesian flow _____ g.p.m. Date _____
 Temperature of water 58 Was a chemical analysis made? Yes No

Work started 4-2, 1990. Completed 4-6, 1990

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.

NAME Bach Well Drilling Co. (PERSON, FIRM, OR CORPORATION) (TYPE OR PRINT)

Address 2111 Birchfield Rd. Yakima, Wa. 989

(Signed) Scot Dell License No. 1436
 Contractor's (WELL DRILLER)
 Registration No. BACHWDC137NU Date 4-6, 1990

(USE ADDITIONAL SHEETS IF NECESSARY)

WATER WELL REPORT

STATE OF WASHINGTON

Start Card No. 033726

K

Water Right Permit No. _____

(1) OWNER: Name Maid O Clover Address 202 E. 5th Ave. Yakima, Wa.

(2) LOCATION OF WELL: County Yakima Parcel # 191329-42433 SE 1/4 Sec. 29 T. 13 N., R. 19 W.M.

(2a) STREET ADDRESS OF WELL (or nearest address) 1802 E. Nob Hill NW

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

(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
PRESSURE GROUTED WELL AND FILLED WELL WITH BENTONITE.		

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

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

(6) CONSTRUCTION DETAILS:

Casing installed: _____" Diam. from _____ ft. to _____ ft.
 Welded _____" Diam. from _____ ft. to _____ ft.
 Liner installed _____" Diam. from _____ ft. to _____ ft.
 Threaded

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? _____ ft.
 Material used in seal _____
 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 _____ ft. below top of well Date _____
 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.
 Airstest _____ gal./min. with stem set at _____ ft. for _____ hrs.
 Artesian flow _____ g.p.m. Date _____
 Temperature of water _____ Was a chemical analysis made? Yes No

RECEIVED

MAY 2 1990

DEPARTMENT OF ECOLOGY
CENTRAL REGION OFFICE

ENTERED

Work started 4-6, 19. Completed 4-6, 1990

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.

NAME Bach Well Drilling Co.
(PERSON, FIRM, OR CORPORATION) (TYPE OR PRINT)
 Address 2111 Birchfield Rd. Yakima, Wa. 98901
 (Signed) [Signature] License No. 1436
(WELL DRILLER)
 Contractor's Registration No. BACHWDG137NU Date 4-6, 1990

(USE ADDITIONAL SHEETS IF NECESSARY)

(1) OWNER: Name Gene Day Address 1906 Boggess Yakima, Wa.
(2) LOCATION OF WELL: County Yakima NW 1/4 SE 1/4 Sec. 29 T. 13 N., R. 19 W.M.
ing and distance from section or subdivision corner See attached paper

(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 _____ inches.
Drilled _____ ft. Depth of completed well _____ ft.

(6) CONSTRUCTION DETAILS:
Casing installed: 6" Diam. from 0 ft. to 28 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 beninite 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 ...
Static level 16 ft. below top of well Date 3-22-77
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

ate of test _____
Bailer 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
Topsoil	0	1
Gravel small loose	1	28

RECEIVED

MAR 30 1977

DEPARTMENT OF ECOLOGY
CENTRAL REGIONAL OFFICE

Work started _____, 19 _____ Completed _____, 19 _____

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 Robert V. Hull
(Person, firm, or corporation) (Type or print)

Address RT. 2 Box 2265 Selah, Wash 98942

[Signed] Robert V. Hull
(Well Driller)

License No. 0208 Date 3-29-, 19 77

(1) OWNER: Name Smith Enterprises Address 1921 Popple Hill, Yakima, WA
 (2) LOCATION OF WELL: County Yakima NW 1/4 SE 1/4 Sec 29 T 13 N. R. 19 W.M.
LOT 27 Block 4 Bogue Home Sta Yakima

(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 6 inches.
 Drilled 41 ft. Depth of completed well 41 ft.

(6) CONSTRUCTION DETAILS:
 Casing installed: 6" Diam. from 0 ft. to 41 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? ft.
 Material used in seal.....
 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 20 ft. below top of well Date 1-22-72
 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 1-22-72
 Bailer test 7 gal./min. with 16 ft. drawdown after 15 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	2
sand & gravel pebbles	2	30
coarse gravel	30	35
W.B. sand & gravel	35	41

Work started 1-17-72 1972 Completed 1-22-72 1972

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 Taylor Well Drilling Co.
 (Person, firm, or corporation) (Type or print)
 Address P.O. Box 33 Selah, WA
 [Signed] M.E. Taylor
 (Well Driller)
 License No. 223.D.R. 2578 Date 1-22-72 1972

2/21/74 [Signature]

WATER WELL REPORT

STATE OF WASHINGTON

Application No. _____
 Permit No. _____

(1) OWNER: Name Mrs. Ruby Brooks Address 1705 Dalton Lane
 LOCATION OF WELL: County Yakima NW $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 29 T. 13 N. R. 19 W.M.
 Bearing and distance from section or subdivision corner Behind fairgrounds K

(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 60 ft. Depth of completed well 60 ft.

(6) CONSTRUCTION DETAILS:
 Casing installed: 6" Diam. from 72 ft. to 60 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 _____ Model No. _____
 Type _____
 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? 20+ 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... _____ ft.
 Static level 14' ft. below top of well Date _____
 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: 50 gal./min. with _____ ft. drawdown after _____ hrs.
 " by "Airlift" " " " " " " " "

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

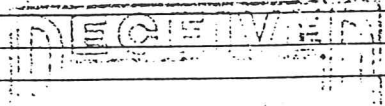
Time	Water Level	Time	Water Level	Time	Water Level

Date of test _____
 Bailer test _____ gal./min. with _____ ft. drawdown after _____ hrs.
 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
Gravel and boulders	0	20
Gravel and boulders	20	60

Static Water level 14 ft.
 Approx 50 gpm at 60 ft.



Work started 6/18/85, 19____ Completed 6/19/85, 19____

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 RIEBE WELL DRILLING
 (Person, firm, or corporation) (Type or print)
 Address 1503 E. Nob Hill Blvd.
 [Signed] John H. Riebe
 (Well Driller)
 License No. 0422 Date 6/25/85, 19____

WATER WELL REPORT

Application No.

STATE OF WASHINGTON

Permit No.

(1) OWNER: Name Blossom Bee Farm Address 1809

Address Ediola Ave Yak

(2) LOCATION OF WELL: County Yakima

NW 1/4 SE 1/4 Sec 29 T. 13. N. R. 19. W.M.
1809 Ediola Ave Yakima Wa K

(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 6 inches.
Drilled 70 ft. Depth of completed well 63 ft.

(6) CONSTRUCTION DETAILS:
Casing installed: 6" Diam. from 0 ft. to 5.7 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..... Model No.....
Type.....
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..... HP.....
Type:.....

(8) WATER LEVELS: Land-surface elevation above mean sea level..... ft.
Static level 10 ft. below top of well Date 7-29-85
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: 100 gal./min. with _____ ft. drawdown after _____ hrs.
" 75 " from 63 " _____ " _____ "
" 75 " from 57 " _____ " _____ "

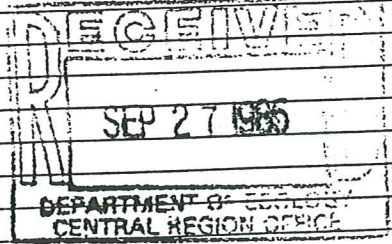
Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test.....
Bailer test..... gal./min. with _____ ft. drawdown after..... hrs.
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
Gravel	0	16
Conglomerate	16	28
Gravel	28	40
Boulders, cemented	40	52
Gravel & Boulders, large	52	70



Work started 7-20, 1985 Completed 7-31, 1985

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 Eastwood Drilling, Inc. (Person, firm, or corporation) (Type or print)
Address 2202 River Rd
[Signed] Clyde Eastwood (Well Driller)
License No. 0113 Date 8-14, 1985

WATER WELL REPORT

STATE OF WASHINGTON

(1) OWNER: Name Charles R Hall Address 1610 So 19th St Yakima Wa 98901
 LOCATION OF WELL: County Yakima
 Section and distance from section or subdivision corner SW SE 29-13-19

(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 6 inches.
 Drilled 8.8 ft. Depth of completed well 8.8 ft.

(6) CONSTRUCTION DETAILS:
 Casing installed: 6" Diam. from 0 ft. to 84 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? 20 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 ft.
 Static level 16 ft. below top of well Date
 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.
35" GPM at 8.6 ft blown with air
15" GPM at 31 ft " " " "
 Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

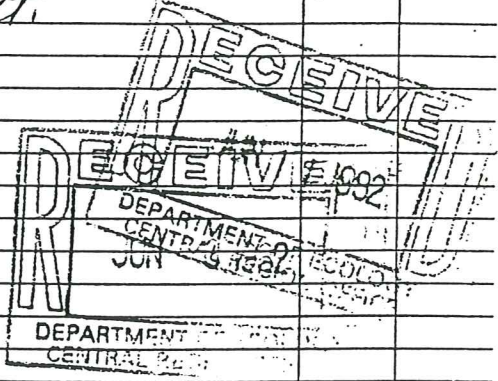
Time	Water Level	Time	Water Level	Time	Water Level

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

(10) WELL LOG: Q
 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
GRAVEL AND BOLDERS	0	52
CEMENTED GRAVEL + CLAY	52	63
GRAVEL AND BOLDERS	63	74
CEMENTED GRAVEL + CLAY	74	84
GRAVEL + Water	84	88

Possibly should set pump near 40 ft.



Work started 4/15, 1982. Completed 4/20, 1982

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 EASTWOOD DRILLING INC.
 (Person, firm, or corporation) (Type or print)
 Address 2202 RIVER RD
 [Signed] Charles Eastwood
 (Well Driller)
 License No. 0312 Date 4/22, 1982

RJJ 6-11-82

WATER WELL REPORT
STATE OF WASHINGTON

(1) OWNER: Name Albert Alessio Address 1417 S. 18th St. YAKIMA

(2) LOCATION OF WELL: County YAKIMA SW 1/4 SE 1/4 Sec 29 T 13N. R 19W.M.
Bearing and distance from section or subdivision corner

(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 6 inches.
Drilled 50 ft. Depth of completed well 50 ft.

(6) CONSTRUCTION DETAILS:
Casing installed: 10" Diam. from 0 ft. to 18 ft.
Threaded 6" Diam. from 0 ft. to 50 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 benzite
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 20 ft. below top of well Date 4-2-77
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 40 gal./min. with 11 ft. drawdown after 3 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
top soil	0	2
boulders	2	17
heavy sand	17	27
hardpan	27	28
blue sand	28	38
coarse sand	38	41
hardpan	41	42
sand	42	46
gravel	46	50

RECEIVED

JUN 13 1977

DEPARTMENT OF ECOLOGY
CENTRAL REGIONAL OFFICE

Work started 3-29, 19.77. Completed 4-2, 19.77

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 'A' Bach Well Dele
(Person, firm, or corporation) (Type or print)

Address P.O. Box 48 Yakima, WA 989

[Signed] Bale Cannon
(Well Driller)

License No. 0702 Date 4-3, 19.77

File 1633-5

WATER WELL REPORT

STATE OF WASHINGTON

Application No.

Permit No.

(1) OWNER: Name TED PRILL Address 1422 SO. 18th ST. YAKIMA, WA. 98901
 (2) LOCATION OF WELL: County YAKIMA LOT 8 BLK 3 BOGGESSHOME SE ¼ SE ¼ Sec. 29 T. 13 N. R. 19E W.M. SITES
 ing and distance from section or subdivision corner 314455/0

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

(4) TYPE OF WORK: Owner's number of well (if more than one) 2
 New well Method: Dug Bored
 Deepened Cable Driven
 Reconditioned Rotary Jetted

(5) DIMENSIONS: Diameter of well 8x6 inches.
 Drilled 132 ft. Depth of completed well 122 ft.

(6) CONSTRUCTION DETAILS:
 Casing installed: 8" Diam. from 0 ft. to 20 ft.
 Threaded 6" Diam. from +1 ft. to 102 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 Model No
 Type
 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? 100 ft.
 Material used in seal CEMENT GROUTED
 Did any strata contain unusable water? Yes No
 Type of water? GAS & OIL Depth of strata 80'
 Method of sealing strata off GROUTED

(7) PUMP: Manufacturer's Name GRUNDFOS
 Type: SUBMERSIBLE HP 1/2

(8) WATER LEVELS: Land-surface elevation 1020
 above mean sea level. Date 12/12/81
 Static level 18 ft. below top of well
 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.
TESTED WITH AIR LIFT APROX, 50 G.P.M. " " " " " "

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

 Baller 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: R
 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
TOP SOIL (GASY)	0	4
LGE BOULDERS, SAND, GRAVEL & GAS	4	36
SAND.W.B. & GAS	36	38
" " " VERY STRONG WITH GAS	38	40
CEMENT GRAVEL, LGE BLDRS, SAND & GRAVEL	40	55
FROM 50-55° GASOLINE IN MUD		
CEMENT GRAVEL, BLDRS & SAND	55	76
SAND & GRAVEL W.B. GAS ODOR	76	78
CEMENT GRAVEL & BLDRS	78	82
GRAVEL & BOULDERSCEMENTED	82	117
BR. CLAY & BOULDERS	117	123
SAND, GRAVEL & BOULDERS W.B.	123	132

WELL WAS DRILLED 10" TO 20' - 8" TO 82', PIPE WAS SET (6") & CEMENT PRESSURE GROUTED FROM THE BOTTOM TO THE TOP, HOLE WAS DRILLED & DRIVEN KEEPING HOLE FULL OF MUD TO 102', MUD DRILLED TO 132' & WASHED BACK TO 123' - WELL PROD. APROX. 50 G.P.M. @ 120' ENTIRE WELL DRILLED WITH BENTONITE. GOOD CLEAN WATER.

Work started 12/3/81, 19..... Completed 12/14/81, 19.....

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 RIEBE WELL DRILLING
 (Person, firm, or corporation) (Type or print)
 Address 1503 E. NOB HILL BLVD. YAKIMA, WASH.
(D.B. BRITTON & TATE)
 [Signed] John C. Riebe (Well Driller)
 License No. 421 Date 12/14/81, 19.....

RJF 1/14/82

APPENDIX H



Photograph 1. 1618 Rudkin Road Site. Looking south towards Yakima Transport Service and Better All Auto Sales and Transport Facilities.



Photograph 2: Looking West- Industrial metal buildings.



Photograph 3: Looking South- A office building.



Photograph 4: Condition of tank from excavation #1.



Photograph 5: Condition of tank from excavation #2.



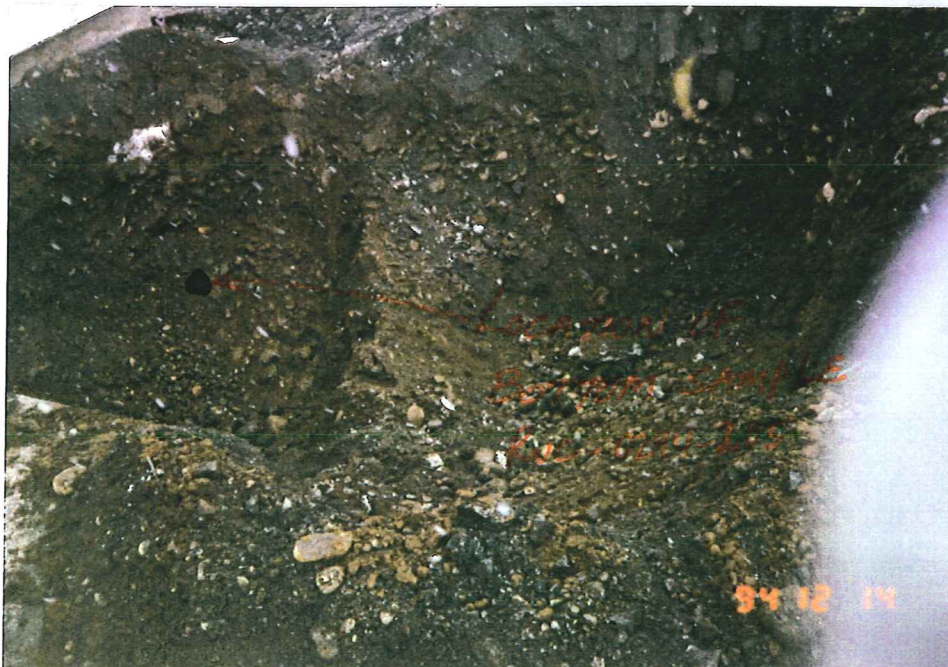
Photograph 6: Looking North- Location of



Photograph 7: Looking north- location of excavation #2.



Photograph 8: Looking North- Shows proximity of the bottom sample RUC-0294-105 to the building foundation.



Photograph 9: Looking North- Shows proximity of the bottom sample RUC-0294-205 to the building foundation