

**Job N0: 194-1969-1
HND0026R.ENV**

REPORT

OF

**PHASE III ENVIRONMENTAL REMEDIATION
YAKIMA GOODWILL INDUSTRIES SITE
222 SOUTH THIRD STREET
YAKIMA, WASHINGTON**

**PART 2 OF 2
MAPS, TABLES, APPENDICES**

**Prepared for:
Mr. Raymond Paoella, City Attorney
CITY OF YAKIMA LEGAL DEPARTMENT
424 East Yakima Avenue, Suite 100
Yakima, Washington 98901
(509) 575-6030**

**Prepared by:
Rachel Tauman, Project Scientist & Manager
HUNTINGDON ENGINEERING AND ENVIRONMENTAL, INC.
Consulting Engineers & Scientists
2214 North 4th Avenue
Pasco, Washington
(509) 547-1671
February, 1995**

*This document was part of the official
Administrative Record for the Yakima
Railroad Area on October 31, 1996.
Washington State
Department of Ecology.*

**PHASE III ENVIRONMENTAL SITE ASSESSMENT
YAKIMA GOODWILL INDUSTRIES SITE
YAKIMA, WASHINGTON**

Table of Contents

FIGURES

Figure 1 -	Location Map
Figure 2 -	Site Map
Figure 3 -	Sampling Program for TPH and PCE
Figure 4 -	Cross-Sections and Interpretation Map
Figure 5 -	Cross-Section A-A' and B-B'
Figure 6 -	Cross-Section C-C' and D-D'

TABLES

Table 1 -	Summary of Laboratory Analysis Results
Table 2 -	Confirmational Sampling Results
Table 3 -	1994 Groundwater PCE Analysis Results

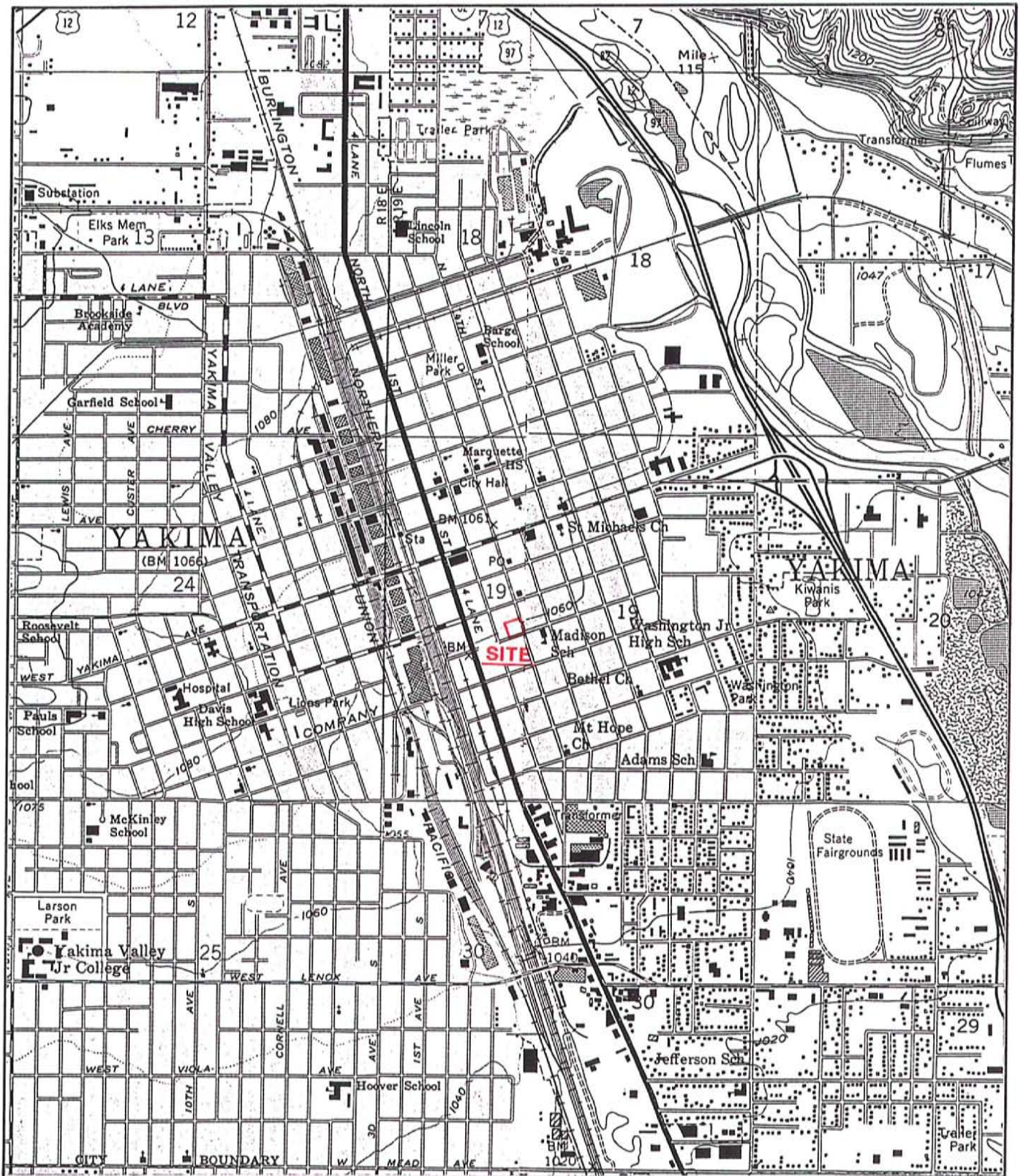
APPENDICES

Appendix 1 -	Photo Exhibits
Appendix 2 -	Soil Laboratory Analysis Results
Appendix 3 -	Water Laboratory Analysis Results
Appendix 4 -	Corehole Analysis Beneath the Sump
Appendix 5 -	UST Removal Report

*This document was part of the official
Administrative Record for the Yakima
Railroad Area on October 31, 1996.
Washington State
Department of Ecology.*

FIGURES

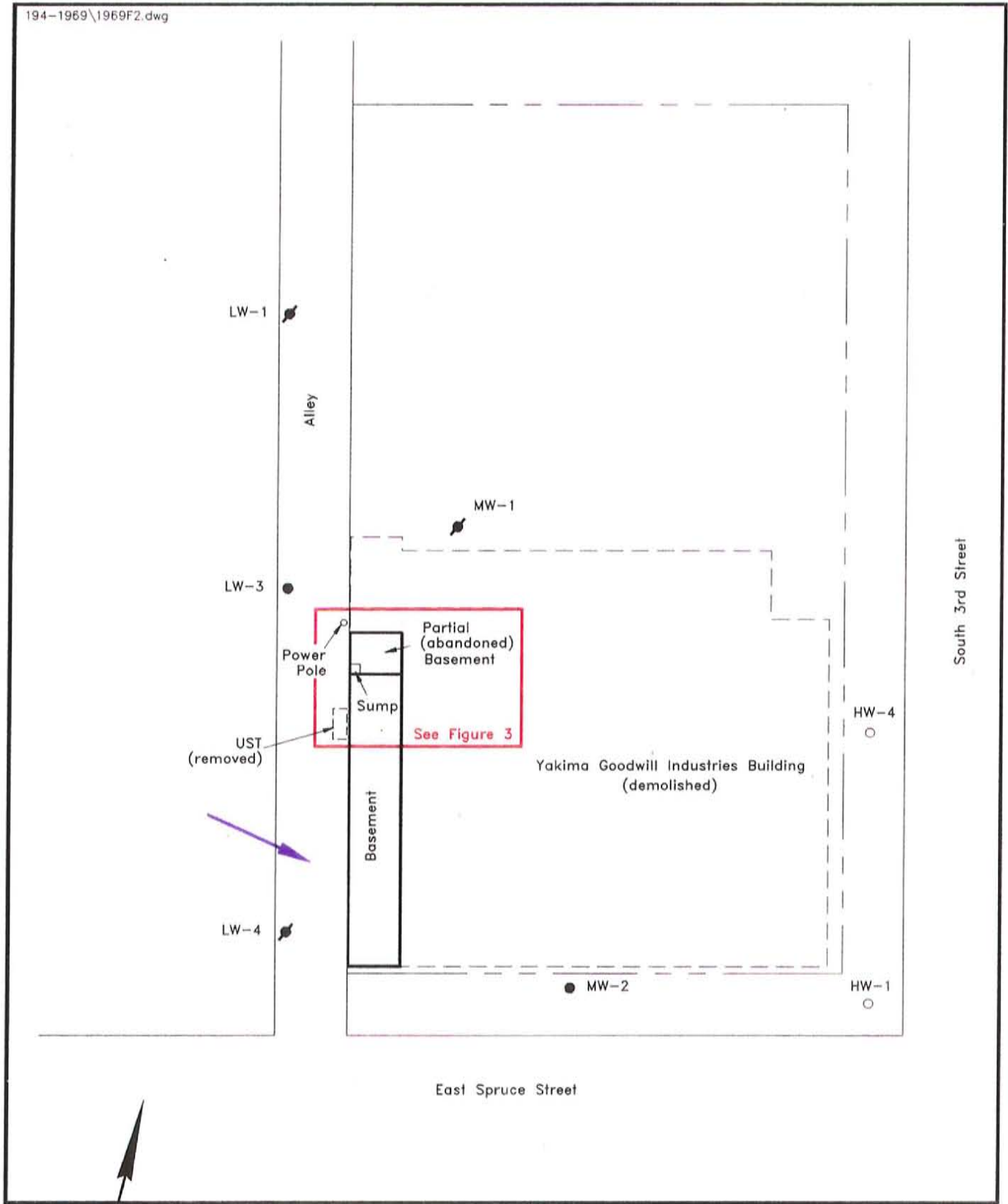
This document was part of the official
Administrative Record for the Yakima
Railroad Area on October 31, 1996.
Washington State
Department of Ecology.



From USGS 7.5' Yakima West Quad
 Yakima County, Washington

Location Map
 Yakima Goodwill Industries
 222 South 3rd Street
 Yakima, Washington
 FIGURE 1

This document was part of the official
 Administrative Record for the Yakima
 Railroad Area on October 31, 1996.
 Washington State
 Department of Ecology.



South 3rd Street

East Spruce Street



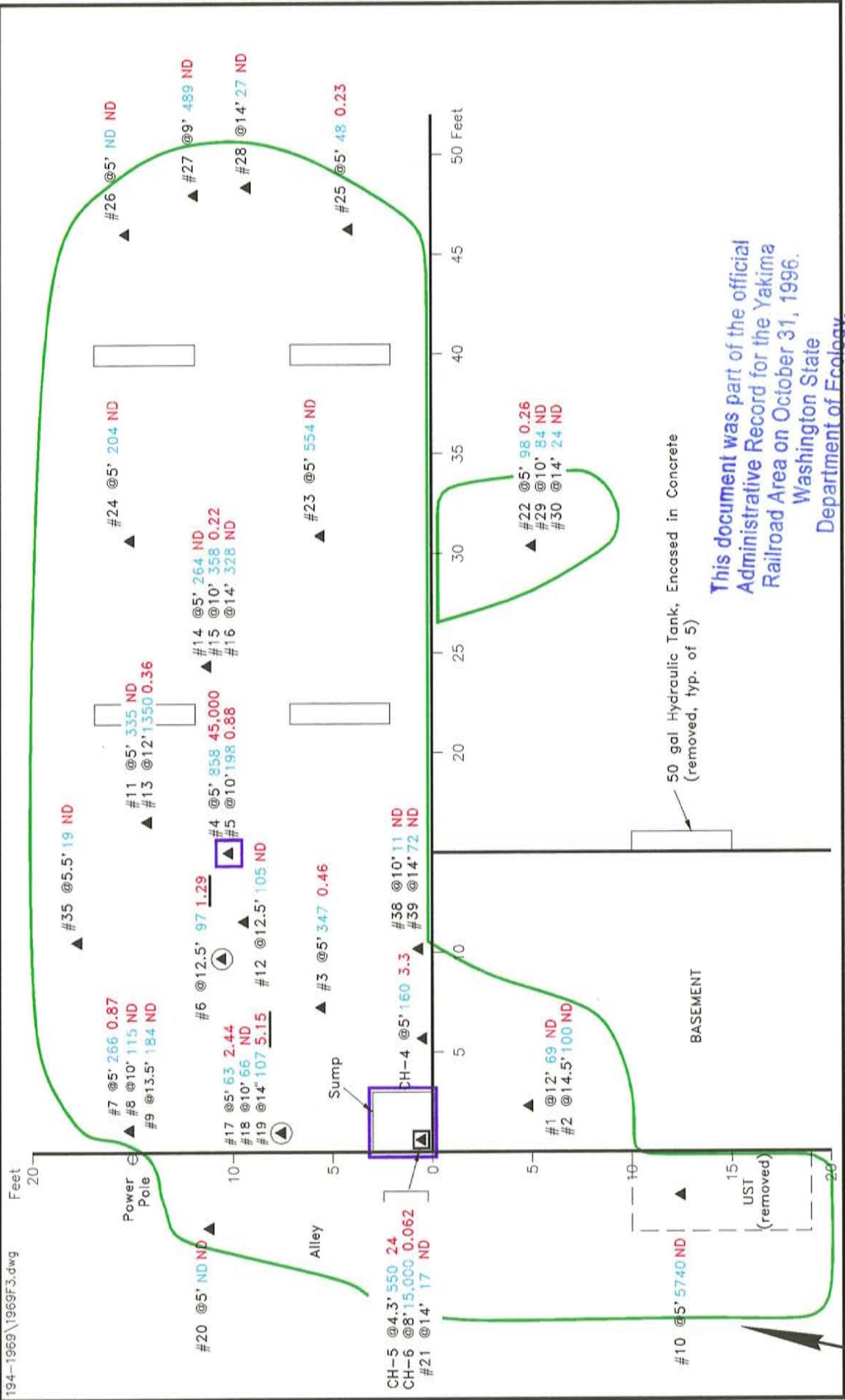
40 Feet

-  Groundwater Gradient
-  Monitoring Well
-  Abandoned Well
-  Proposed Well

Site Map

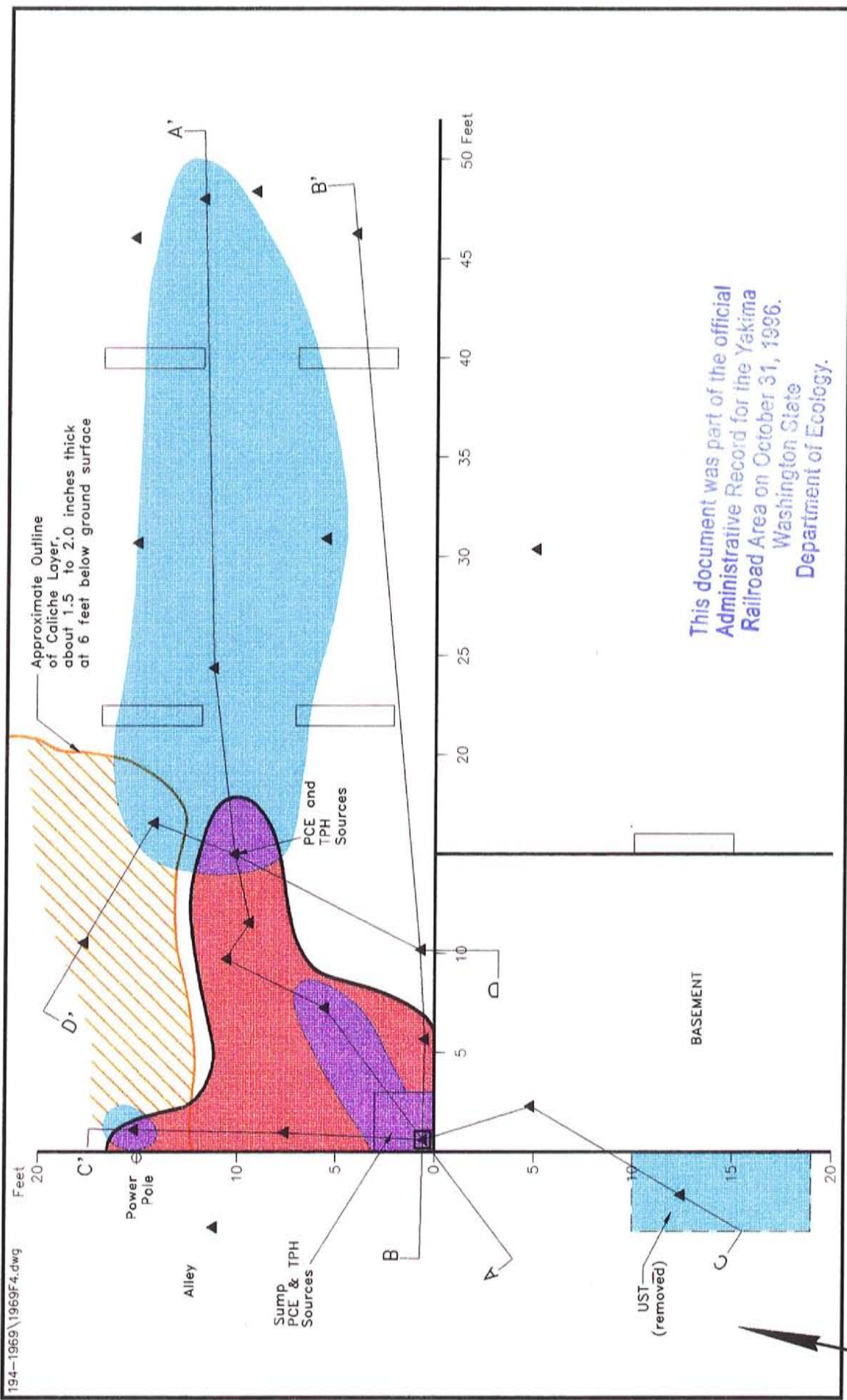
Yakima Goodwill Industries
 222 South 3rd Street
 Yakima, Washington
 This document was part of the official
 Administrative Record for the Yakima
 Railroad Area on October 31, 1996.
 Washington State
 Department of Ecology.

FIGURE 2



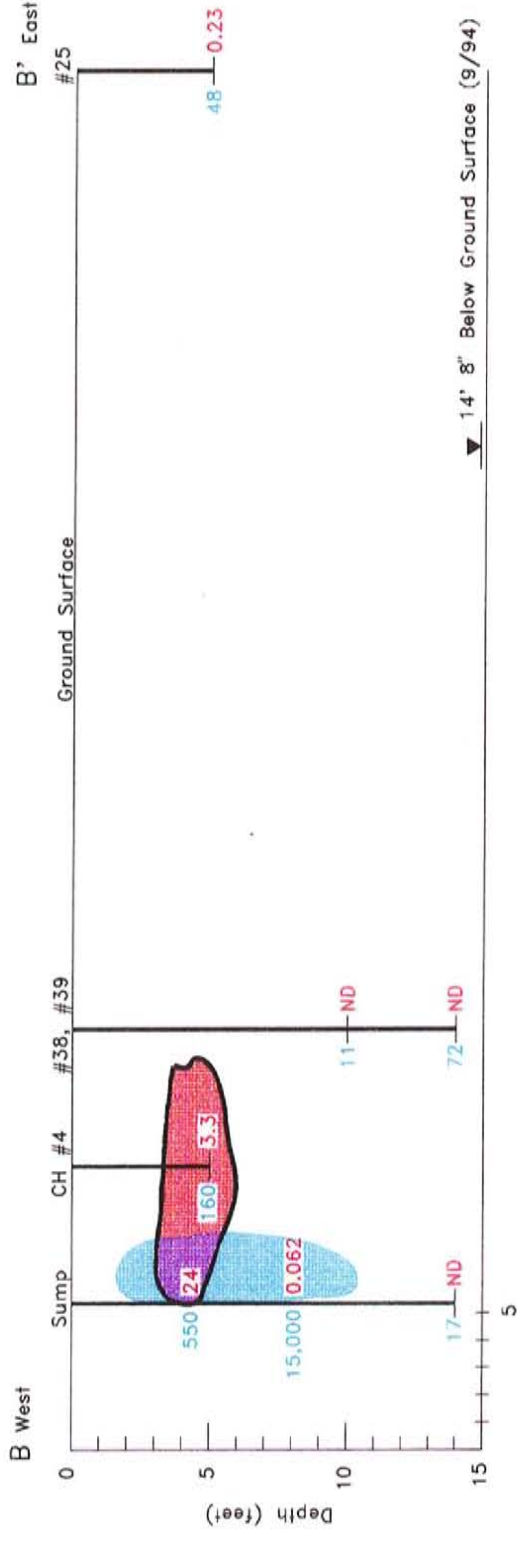
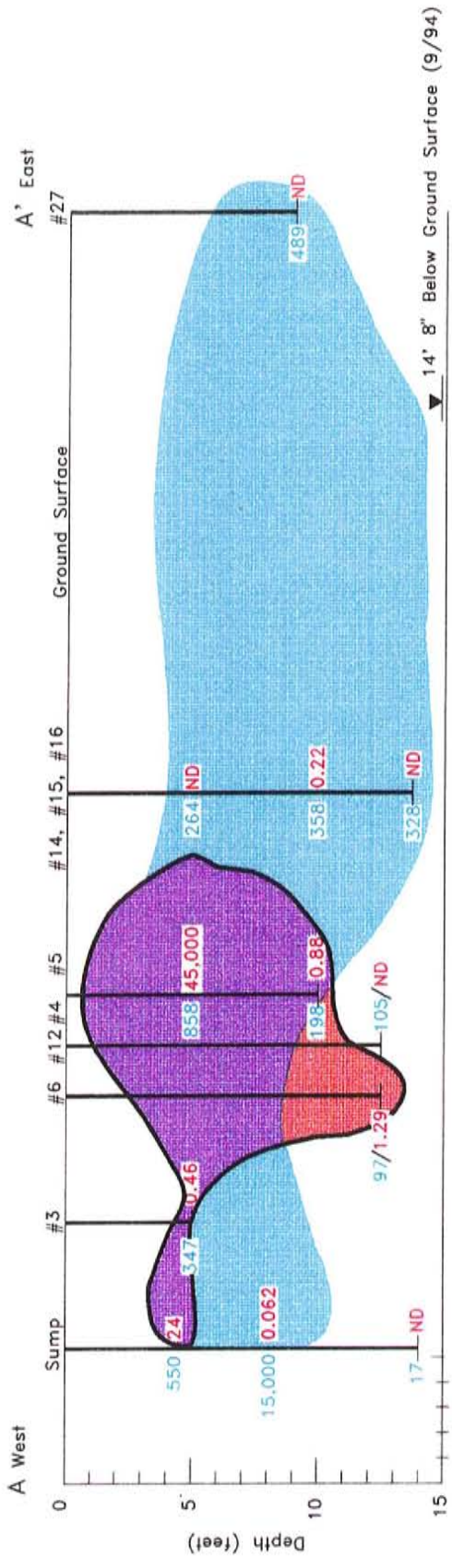
See Baseline For Scale

Sampling Program for TPH and PCE
 Yakima Goodwill Industries
 222 South 3rd Street
 Yakima, Washington



This document was part of the official
 Administrative Record for the Yakima
 Railroad Area on October 31, 1996.
 Washington State
 Department of Ecology.

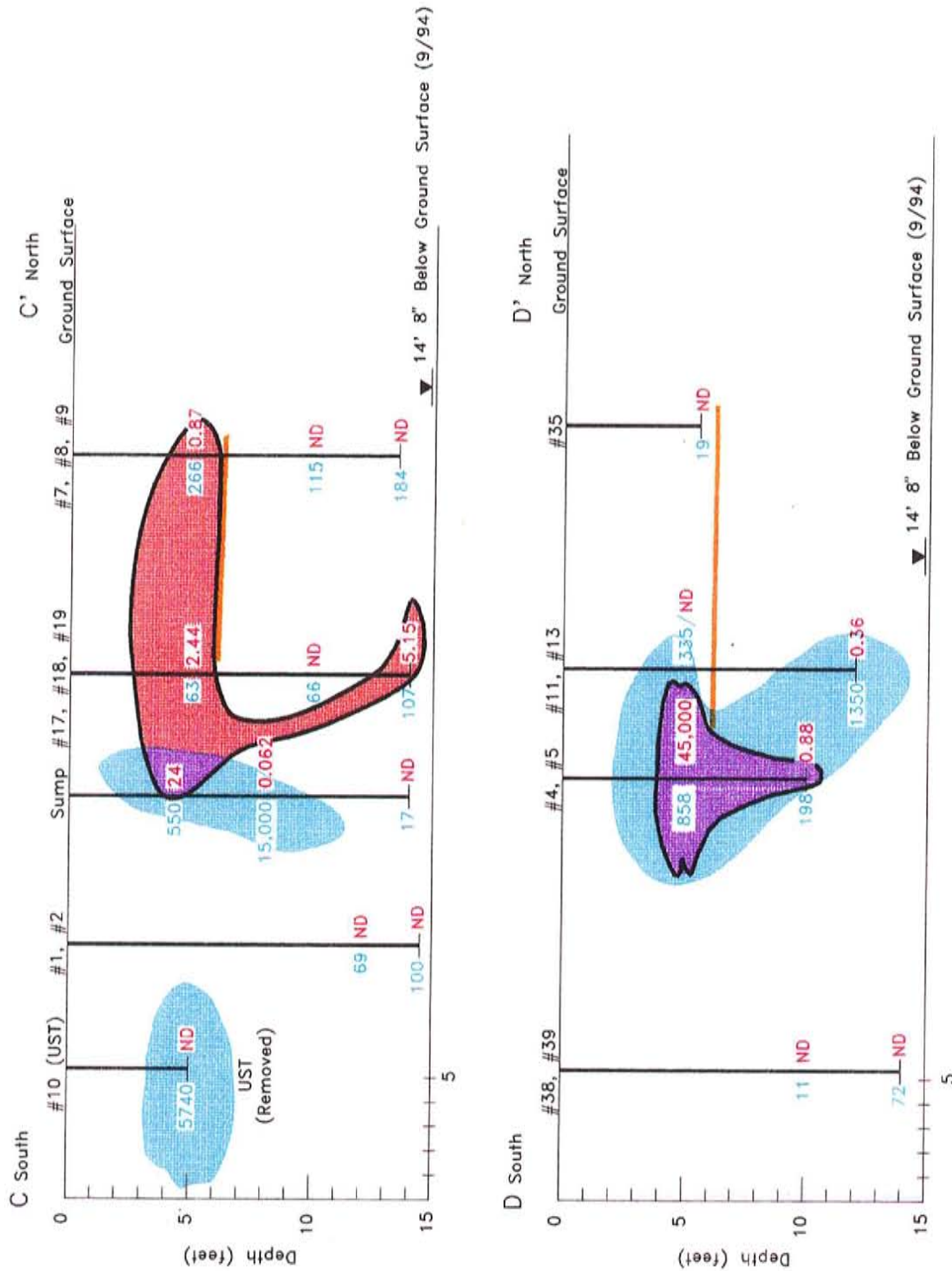
Cross Sections and Interpretation
PCE and TPH Contamination
Sump Area - Yakima Goodwill Industries
 Yakima, Washington
FIGURE 4



This document was part of the official
 Administrative Record for the Yakima
 Railroad Area on October 31, 1996.
 Washington State
 Department of Ecology.

Cross Sections A-A' and B-B'
 Yakima Goodwill Industries
 222 South 3rd Street
 Yakima, Washington
 FIGURE 5





This document was part of the official
Administrative Record for the Yakima
Railroad Area on October 31, 1996.
Washington State
Department of Ecology.

Cross Sections C-C' and D-D'
Yakima Goodwill Industries
222 South 3rd Street
Yakima, Washington
FIGURE 6

TABLES

This document was part of the official
Administrative Record for the Yakima
Railroad Area on October 31, 1996.
Washington State
Department of Ecology.

Table 1

**YAKIMA GOODWILL PHASE III - REMEDIATION
SUMMARY OF SAMPLE ANALYSIS RESULTS**

SAMPLE NUMBER	DEPTH (f)	DISTANCE FROM SUMP	DIRECTION FROM SUMP	TPH mg/kg (418.1)	PCE mg/kg (EPA 8010)	DATE COLLECTED
1	12	5	S	69	ND	10/11/94
2	14.5	5	S	100	ND	10/11/94
3	5	5	NE	347	0.46	10/11/94
4	5	14	E-NE	858	45,000	10/11/94
5	10	14	E-NE	198	0.88	10/11/94
6	12.5	10	NE	97	1.29	10/11/94
7	5	14	N	266	0.87	10/11/94
8	10	14	N	115	ND	10/11/94
9	13.5	14	N	184	ND	10/11/94
10	5	12	S (ALLEY)	5740	ND	10/11/94
11	5	20	NE	335	ND	10/11/94
12	12.5	12	NE	105	ND	10/11/94
13	12	20	NE	1350	0.36	10/11/94
14	5	22	E-NE	264	ND	10/11/94
15	10	22	E-NE	358	0.22	10/11/94
16	14	22	E-NE	328	ND	10/11/94
17	5	5	N	63	2.44	10/11/94
18	10	5	N	66	ND	10/11/94
19	14	5	N	107	5.15	10/11/94
20	5	9	NW (ALLEY)	ND	ND	10/11/94
21	14	0	BELOW SUMP	17	ND	10/12/94
22	5	30	E-SE	98	0.26	10/12/94
23	5	30	E-NE	554	ND	10/12/94
24	5	30	E-NE	204	ND	10/12/94
25	5	45	E-NE	48	0.23	10/12/94
26	5	45	NE	ND	ND	10/12/94
27	9	45	NE	489	ND	10/13/94
28	14	45	NE	27	ND	10/13/94
29	10	30	E-SE	84	ND	10/13/94
30	14	30	E-SE	24	ND	10/13/94
35	5.5 CLAY	18	N-NE	18	ND	10/13/94
38	10	10	E	11	ND	10/13/94
39	14	10	E	72	ND	10/13/94
CORE HOLE (CH) LABORATORY ANALYSIS (EPA 8260)						
CH#1	11'	50	SE	N/R	N/D	04/08/94
CH#2	8'	45'	SE	N/R	0.010	04/08/94
CH#3	11'	85'	S-SE	N/R	N/D	04/08/94
CH#4	5'	5'	E	160	3.3	04/08/94
CH#5	4.3'	0	BELOW SUMP	550	24	09/04/94
CH#6	8'	0	BELOW SUMP	15,000	0.062	04/08/94

TPH Action Levels: 200 mg/kg
PCE MTCA Method A Clean Up Levels: 0.5 mg/kg
ND: Non Detect
UST: Underground Storage Tank

This document was part of the official
Administrative Record for the Yakima
Railroad Area on October 31, 1996.
Washington State
Department of Ecology.

**YAKIMA GOODWILL PHASE III - REMEDIATION
CONFIRMATIONAL SAMPLING IN THE EXCAVATED AREA
ANALYSIS RESULTS**

TABLE 2

SAMPLE NUMBER	LOCATION	DIRECTION FROM SUMP	TPH mg/kg (418.1)	PCE mg/kg (8010)	DATE COLLECTED
31	Near samples 11 & 13	NE	32	ND	10/13/94
32	Near samples 4 & 5	NE	64	0.36	10/13/94
33	Near samples 27,8, & 9	N	57	ND	10/13/94
34	Near samples 17, 18, 19 & alley	N & W	19	ND	10/13/94
36	Near samples 14,15,16 & 23	E-NE	522	NR	10/13/94
37	Near sample 27	E	18	NR	10/13/94

TPH Action Level: 200 mg/kg
PCE MTCA Method A Clean Up Levels: 0.5 mg/kg
ND: Non Detect
NR: Not Run

This document was part of the official
Administrative Record for the Yakima
Railroad Area on October 31, 1996.
Washington State
Department of Ecology.

TABLE 3

**Yakima Goodwill Industries
Ground Water Monitoring Wells
PCE Analysis Results, 1994**

WELL NUMBER	PCE mg/l 04/11/94	PCE mg/l 05/24/94	PCE mg/l 10/25/94	PCE mg/l 12/07/94
MW-1	NA	0.012	0.004	0.0056
MW-2	0.046	0.014	0.010	0.0083
LW-3 (near sump)	NA	ND	ND	ND
LW-1	NA	ND	P & A	P & A
LW-4	NA	ND	P & A	P & A

Explanation:

MTCA Method A *clean* Levels for PCE: 0.005 mg/l (ppm)

ND - Sample analyzed. Results are below detection limits.

NA - not analyzed

P & A - plugged and abandoned

APPENDIX 1 - PHOTO EXHIBITS

This document was part of the official
Administrative Record for the Yakima
Railroad Area on October 31, 1996.
Washington State
Department of Ecology.



PHOTOGRAPHER: Rachel Tauman

DATE: 10-12-94

VIEW: Excavated beneath the basement.



PHOTOGRAPHER: Rachel Tauman

DATE: 10-12-94

VIEW: Excavated basement and corehole in the wall.

*This document was part of the official
Administrative Record for the Yakima
Railroad Area on October 31, 1996.
Washington State
Department of Ecology.*

HUNTINGDON

Job No.: 194-1969-1

PHOTOGRAPHIC RECORDS

Phase III Environmental Site Assessment
Yakima Goodwill Industries
Yakima, Washington

DATE:
10-94

MOUNTED BY:
SB

REVIEWED BY:
RT

EXHIBIT NO.
1



PHOTOGRAPHER: Rachel Tauman
DATE: 10-12-94
VIEW: Excavation beneath the sump
 and old basement.



PHOTOGRAPHER: Rachel Tauman
DATE: 10-12-94
VIEW: UST in the alley south of the
 sump.

HUNTINGDON Job No.: 194-1969-1	PHOTOGRAPHIC RECORDS Phase III Environmental Site Assessment Yakima Goodwill Industries Yakima, Washington		
	DATE: 10-94	MOUNTED BY: SB	REVIEWED BY: RT

This document was part of the Official
 Administrative Record for the Yakima
 Railroad Area on October 31, 1996.
 Washington State
 Department of Ecology.



PHOTOGRAPHER: Rachel Tauman

DATE: 10-12-94

VIEW: Stockpile of excavated TPH contaminated soil (No PCE).



PHOTOGRAPHER: Rachel Tauman

DATE: 10-12-94

VIEW: Stockpile of PCE contaminated soil.

HUNTINGDON

Job No.: 194-1969-1

PHOTOGRAPHIC RECORDS

Phase III Environmental Site Assessment
 Yakima Goodwill Industries
 Yakima, Washington

DATE:
10-95

MOUNTED BY:
SB

REVIEWED BY:
RT

EXHIBIT NO.
3

This document was part of the official
 Administrative Record for the Yakima
 Railroad Area on October 31, 1996.
 Washington State
 Department of Ecology.

APPENDIX 2 - SOIL LABORATORY ANALYSIS RESULTS

This document was part of the official
Administrative Record for the Yakima
Railroad Area on October 31, 1996.
Washington State
Department of Ecology.

TRANSGLOBAL ENVIRONMENTAL GEOSCIENCES NORTHWEST, INC.

**7110 38th Drive SE
Lacey, Washington 98503**

**Mobile Environmental Laboratories
Environmental Sampling Services**

**Telephone: 206-459-4670
Fax: 206-459-3432**

Rachel Tauman
Huntingdon Engineering & Environmental, Inc.
2214 North 4th Ave.
Pasco, WA 98036

October 17, 1994

Dear Ms. Tauman:

Please find enclosed the data report for on-site Mobile Lab services October 11th through 13th, and off site analyses October 14th and 17th for the Goodwill Project, Yakima, Washington, Project, # 87-921. Most samples were analyzed for Chlorinated Hydrocarbons by EPA Method 8010 and for Heavy Petroleum Hydrocarbons by WTPH-418.1. Additional samples were analyzed for PCBs by EPA Method 8080, for Hydrocarbon Identification by WTPH-HCID, and Total Metals (Lead and RCRA 8) by EPA 7000 Series.

The results of the analyses are summarized in the attached table. All soil sample values are reported on a dry weight basis. Applicable detection limits and QA/QC data are included. An invoice for this analytical work is also enclosed.

TEG Northwest appreciates the opportunity to have provided analytical services to Huntingdon for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,



Michael A. Korosec
(President)

This document was part of the official
Administrative Record for the Yakima
Railroad Area on October 31, 1996.
Washington State
Department of Ecology.

QA/QC FOR ANALYTICAL METHODS

GENERAL

The TEG Northwest Mobile Laboratory quality assurance and quality control (QA/QC) procedures are conducted following the guidelines and objectives which meet or exceed certification/accreditation requirements of California DOHS, Washington DOE, and Oregon DEQ. The Quality Control Program is a consistent set of procedures which assures data quality through the use of appropriate blanks, replicate analyses, surrogate spikes, and matrix spikes, and with the use of reference standards that meet or exceed EPA standards.

When analyses are taking place on-site with the mobile lab, the need for Field Blanks or Travel/Trip Blanks is eliminated. If there is going to be a delay before sample preparation for analysis, the sample is stored at 4° C.

ANALYTICAL METHODS

TEG Northwest Mobile Labs use analytical methodologies which are in conformity with U. S. Environmental Protection Agency (EPA), Washington DOE, and Oregon DEQ methodologies. When necessary and appropriate due to the nature or composition of the sample, TEG may use variations of the methods which are consistent with recognized standards or variations used by the industry and government laboratories.

Purgeable Volatile Halocarbons

(Chlorinated Hydrocarbons, EPA 601/8010,8021)

A blank and a calibration standard are run at the beginning of the day. The standard must be within 15% of the continuing calibration curve value. The standard is rerun at the end of the day if more than 10 samples have been run. All samples are prepared with a surrogate spike, and the recovery must be between 65% and 135%. At least 1 method blank is run per day.

*This document was part of the official
Administrative Record for the Yakima
Railroad Area on October 31, 1996.
Washington State
Department of Ecology.*

Purgeable Volatile Aromatics
(BTEX, EPA 602/8020)

A blank and a calibration standard are run at the beginning of the day. The standard must be within 15% of the continuing calibration curve value. The standard is rerun at the end of the day if more than 10 samples have been run. All samples are prepared with a surrogate spike, and the recovery must be between 65% and 135%. At least 1 method blank is run per day.

TPH-Gasoline, TPH-Diesel
(Gasoline and/or Diesel, Modified EPA 8015, WTPH-G/WTPH-D)

A blank and a calibration standard are run at the beginning of the day. The standard must be within 15% of the continuing calibration curve value. The standard is rerun at the end of the day. All samples are prepared with a surrogate spike, and the recovery must be between 65% and 135%. A duplicate sample is run at a rate of 1 per 10 samples (or a matrix spike sample is prepared and analyzed). At least 1 method blank is run per 10 samples analyzed.

TPH-Heavy Fuel Hydrocarbons
(EPA 418.1, WTPH-418.1)

Calibration plot values must produce a best fit line, with known values deviating from the plot by less than 10%. Prior to sample run, a blank, a calibration standard, and a method blank are run. One method blank per 10 samples is prepared. A sample duplicate is prepared for each 10 samples to be run per day.

PCBs, Polychlorinated Biphenyls
(EPA 8080, 8081)

A method blank and a calibration standard are run at the beginning of the day. The standard must be within 15% of the continuing calibration curve value. The check standard may be re-run at the end of the day if numerous samples have been analyzed. All samples are prepared with a surrogate spike, and the recovery must be between 65% and 130%. Samples which measure outside of the linear range of the calibration curve must be carefully diluted to fall into the upper range of the linear calibration. A duplicate sample is run at a rate of 1 per 10 samples (or a matrix spike sample is prepared and analyzed).

This document was part of the official
Administrative Record for the Yakima
Railroad Area on October 31, 1996.
Washington State
Department of Ecology.

GOODWILL PROJECT
 Yakima, Washington
 Huntingdon Engineering & Environmental, Inc.
 Project No.: 87-921

Specific Halogenated Hydrocarbons (EPA 8010) in Soil

Sample Depth (ft)	MDL	M. Blank	Waste Oil 1	Waste Oil 2	1 12
DATE		10/11/94	10/11/94	10/11/94	10/11/94
	(mg/kg)				
Bromodichloromethane	0.05	nd	<1.0	<1.0	nd
Bromoform	0.05	nd	<1.0	<1.0	nd
Bromomethane	0.05	nd	<1.0	<1.0	nd
Chloromethane	0.05	nd	<1.0	<1.0	nd
2-Chloroethyl vinyl ether	0.05	nd	<1.0	<1.0	nd
Chloroethane	0.05	nd	<1.0	<1.0	nd
Dibromochloromethane	0.05	nd	<1.0	<1.0	nd
Dibromomethane	0.05	nd	<1.0	<1.0	nd
1,1 Dichloroeth	0.05	nd	<1.0	<1.0	nd
Vinyl Chloride	0.05	nd	<1.0	<1.0	nd
Methylene Chloride	0.05	nd	<1.0	<1.0	nd
Trans-1,2 Dichloroethene	0.05	nd	<1.0	<1.0	nd
Cis-1,2 Dichloroethene	0.05	nd	<1.0	<1.0	nd
Trichloroethene	0.05	nd	<1.0	<1.0	nd
1,2-Dicloropropane	0.05	nd	<1.0	<1.0	nd
Cis-Dichloropropene	0.05	nd	<1.0	<1.0	nd
Trans-Dichloropropene	0.05	nd	<1.0	<1.0	nd
Tetrachloroethene	0.05	nd	<1.0	<1.0	nd
1,3 Dichlorobenzene	0.05	nd	<1.0	<1.0	nd
1,4 Dichlorobenzene	0.05	nd	<1.0	<1.0	nd
1,2 Dichlorobenzene	0.05	nd	<1.0	<1.0	nd
1,1 Dichloroethane	0.05	nd	<1.0	<1.0	nd
1,2 Dichloroethane	0.05	nd	<1.0	<1.0	nd
Chloroform	0.05	nd	<1.0	<1.0	nd
Carbon Tetrachloride	0.05	nd	<1.0	<1.0	nd
1,1,1 Trichloroethane	0.05	nd	<1.0	<1.0	nd
1,1,2 Trichloroethane	0.05	nd	<1.0	<1.0	nd
Tetrachloroethane	0.05	nd	<1.0	<1.0	nd
Spike Recovery		85	int	int	90

"nd" Indicates Not Detected at the listed MDL.

"int" Indicates that Interference Peaks prevent determination.

This document was part of the official
 Administrative Record for the Yakima
 Railroad Area on October 31, 1996.
 Washington State
 Department of Ecology.

GOODWILL PROJECT
 Yakima, Washington
 Huntingdon Engineering & Environmental, Inc.
 Project No.: 87-921

Specific Halogenated Hydrocarbons (EPA 8010) in Soil

Sample	MDL	2	3	4	5
Depth (ft)		14.5	5	5	10
DATE	(mg/kg)	10/11/94	10/11/94	10/11/94	10/11/94
Bromodichloromethane	0.05	nd	nd	nd	nd
Bromoform	0.05	nd	nd	nd	nd
Bromomethane	0.05	nd	nd	nd	nd
Chloromethane	0.05	nd	nd	nd	nd
2-Chloroethyl vinyl ether	0.05	nd	nd	nd	nd
Chloroethane	0.05	nd	nd	nd	nd
Dibromochloromethane	0.05	nd	nd	nd	nd
Dibromomethane	0.05	nd	nd	nd	nd
1,1 Dichloroeth	0.05	nd	nd	nd	nd
Vinyl Chloride	0.05	nd	nd	nd	nd
Methylene Chloride	0.05	nd	nd	nd	nd
Trans-1,2 Dichloroethene	0.05	nd	nd	nd	nd
Cis-1,2 Dichloroethene	0.05	nd	nd	2.38	nd
Trichloroethene	0.05	nd	nd	6.07	nd
1,2-Dicloropropane	0.05	nd	nd	nd	nd
Cis-Dichloropropene	0.05	nd	nd	nd	nd
Trans-Dichloropropene	0.05	nd	nd	nd	nd
Tetrachloroethene	0.05	nd	0.46	>2000	0.88
1,3 Dichlorobenzene	0.05	nd	nd	nd	nd
1,4 Dichlorobenzene	0.05	nd	nd	nd	nd
1,2 Dichlorobenzene	0.05	nd	nd	nd	nd
1,1 Dichloroethane	0.05	nd	nd	nd	nd
1,2 Dichloroethane	0.05	nd	nd	nd	nd
Chloroform	0.05	nd	nd	nd	nd
Carbon Tetrachloride	0.05	nd	nd	nd	nd
1,1,1 Trichloroethane	0.05	nd	nd	nd	nd
1,1,2 Trichloroethane	0.05	nd	nd	nd	nd
Tetrachloroethane	0.05	nd	nd	nd	nd
Spike Recovery		86	86	int	88

"nd" Indicates Not Detected at the listed MDL.

"int" Indicates that Interference Peaks prevent determination.

This document was part of the official
 Administrative Record for the Yakima
 Railroad Area on October 31, 1996.
 Washington State
 Department of Ecology.

GOODWILL PROJECT
 Yakima, Washington
 Huntingdon Engineering & Environmental, Inc.
 Project No.: 87-921

Specific Halogenated Hydrocarbons (EPA 8010) in Soil

Sample	MDL	6	7	8	9
Depth (ft)		12.5	5	10	13
DATE		10/11/94			
	(mg/kg)				
Bromodichloromethane	0.05	nd	nd	nd	nd
Bromoform	0.05	nd	nd	nd	nd
Bromomethane	0.05	nd	nd	nd	nd
Chloromethane	0.05	nd	nd	nd	nd
2-Chloroethyl vinyl ether	0.05	nd	nd	nd	nd
Chloroethane	0.05	nd	nd	nd	nd
Dibromochloromethane	0.05	nd	nd	nd	nd
Dibromomethane	0.05	nd	nd	nd	nd
1,1 Dichloroeth	0.05	nd	nd	nd	nd
Vinyl Chloride	0.05	nd	nd	nd	nd
Methylene Chloride	0.05	nd	nd	nd	nd
Trans-1,2 Dichloroethene	0.05	nd	nd	nd	nd
Cis-1,2 Dichloroethene	0.05	nd	nd	nd	nd
Trichloroethene	0.05	nd	nd	nd	nd
1,2-Dicloropropane	0.05	nd	nd	nd	nd
Cis-Dichloropropene	0.05	nd	nd	nd	nd
Trans-Dichloropropene	0.05	nd	nd	nd	nd
Tetrachloroethene	0.05	1.29	0.87	nd	nd
1,3 Dichlorobenzene	0.05	nd	nd	nd	nd
1,4 Dichlorobenzene	0.05	nd	nd	nd	nd
1,2 Dichlorobenzene	0.05	nd	nd	nd	nd
1,1 Dichloroethane	0.05	nd	nd	nd	nd
1,2 Dichloroethane	0.05	nd	nd	nd	nd
Chloroform	0.05	nd	nd	nd	nd
Carbon Tetrachloride	0.05	nd	nd	nd	nd
1,1,1 Trichloroethane	0.05	nd	nd	nd	nd
1,1,2 Trichloroethane	0.05	nd	nd	nd	nd
Tetrachloroethane	0.05	nd	nd	nd	nd
Spike Recovery		98	89	96	87

"nd" Indicates Not Detected at the listed MDL.

"int" Indicates that Interference Peaks prevent determination.

This document was part of the official
 Administrative Record for the Yakima
 Railroad Area on October 31, 1996.
 Washington State
 Department of Ecology.

GOODWILL PROJECT
 Yakima, Washington
 Huntingdon Engineering & Environmental, Inc.
 Project No.: 87-921

Specific Halogenated Hydrocarbons and (EPA 8010) in Soil

Sample Depth (ft)	MDL	10 5	10 Dup 5
DATE	(mg/kg)	10/11/94	10/11/94
Bromodichloromethane	0.05	nd	nd
Bromoform	0.05	nd	nd
Bromomethane	0.05	nd	nd
Chloromethane	0.05	nd	nd
2-Chloroethyl vinyl ether	0.05	nd	nd
Chloroethane	0.05	nd	nd
Dibromochloromethane	0.05	nd	nd
Dibromomethane	0.05	nd	nd
1,1 Dichloroeth	0.05	nd	nd
Vinyl Chloride	0.05	nd	nd
Methylene Chloride	0.05	nd	nd
Trans-1,2 Dichloroethene	0.05	nd	nd
Cis-1,2 Dichloroethene	0.05	nd	nd
Trichloroethene	0.05	nd	nd
1,2-Dicloropropane	0.05	nd	nd
Cis-Dichloropropene	0.05	nd	nd
Trans-Dichloropropene	0.05	nd	nd
Tetrachloroethene	0.05	nd	nd
1,3 Dichlorobenzene	0.05	nd	nd
1,4 Dichlorobenzene	0.05	nd	nd
1,2 Dichlorobenzene	0.05	nd	nd
1,1 Dichloroethane	0.05	nd	nd
1,2 Dichloroethane	0.05	nd	nd
Chloroform	0.05	nd	nd
Carbon Tetrachloride	0.05	nd	nd
1,1,1 Trichloroethane	0.05	nd	nd
1,1,2 Trichloroethane	0.05	nd	nd
Tetrachloroethane	0.05	nd	nd
Spike Recovery		120	119

"nd" Indicates Not Detected at the listed MDL.
 "int" Indicates that Interference Peaks prevent determination.

This document was part of the official
 Administrative Record for the Yakima
 Railroad Area on October 31, 1996
 Washington State
 Department of Ecology.

GOODWILL PROJECT
 Yakima, Washington
 Huntingdon Engineering & Environmental, Inc.
 Project No.: 87-921

Specific Halogenated Hydrocarbons and (EPA 601) in Water

Sample	MDL	M. Blank	W1	Basement Water
DATE	(ug/l)	10/11/94	10/11/94	10/11/94
Bromodichloromethane	1	nd	nd	nd
Bromoform	1	nd	nd	nd
Bromomethane	1	nd	nd	nd
Chloromethane	1	nd	nd	nd
2-Chloroethyl vinyl ether	1	nd	nd	nd
Chloroethane	1	nd	nd	nd
Dibromochloromethane	1	nd	nd	nd
Dibromomethane	1	nd	nd	nd
1,1 Dichloroeth	1	nd	nd	nd
Vinyl Chloride	1	nd	nd	nd
Methylene Chloride	1	nd	nd	nd
Trans-1,2 Dichloroethene	1	nd	nd	nd
Cis-1,2 Dichloroethene	1	nd	nd	nd
Trichloroethene	1	nd	nd	nd
1,2-Dicloropropane	1	nd	nd	nd
Cis-Dichloropropene	1	nd	116	nd
Trans-Dichlorpropene	1	nd	nd	nd
Tetrachloroethene	1	nd	7	28
1,3 Dichlorobenzene	1	nd	nd	nd
1,4 Dichlorobenzene	1	nd	nd	nd
1,2 Dichlorobenzene	1	nd	nd	nd
1,1 Dichloroethane	1	nd	nd	nd
1,2 Dichloroethane	1	nd	nd	nd
Chloroform	1	nd	nd	nd
Carbon Tetrachloride	1	nd	nd	nd
1,1,1 Trichloroethane	1	nd	nd	nd
1,1,2 Trichloroethane	1	nd	nd	nd
Tetrachloroethane	1	nd	nd	nd
Spike Recovery		89	81	89

"nd" Indicates Not Detected at the listed MDL.
 "int" Indicates that Interference Peaks prevent determination.

This document was part of the official
 Administrative Record for the Yakima
 Railroad Area on October 31, 1996.
 Washington State
 Department of Ecology.

GOODWILL PROJECT
 Yakima, Washington
 Huntingdon Engineering & Environmental, Inc.
 Project No.: 87-921

Specific Halogenated Hydrocarbons (EPA 8010) in Soil

Sample	MDL	M. Blank	11	12	13
Depth (ft)			5	12	12
DATE		10/12/94	10/12/94	10/12/94	10/12/94
	(mg/kg)				
Bromodichloromethane	0.05	nd	nd	nd	nd
Bromoform	0.05	nd	nd	nd	nd
Bromomethane	0.05	nd	nd	nd	nd
Chloromethane	0.05	nd	nd	nd	nd
2-Chloroethyl vinyl ether	0.05	nd	nd	nd	nd
Chloroethane	0.05	nd	nd	nd	nd
Dibromochloromethane	0.05	nd	nd	nd	nd
Dibromomethane	0.05	nd	nd	nd	nd
1,1 Dichloroeth	0.05	nd	nd	nd	nd
Vinyl Chloride	0.05	nd	nd	nd	nd
Methylene Chloride	0.05	nd	nd	nd	nd
Trans-1,2 Dichloroethene	0.05	nd	nd	nd	nd
Cis-1,2 Dichloroethene	0.05	nd	nd	nd	nd
Trichloroethene	0.05	nd	nd	nd	nd
1,2-Dicloropropane	0.05	nd	nd	nd	nd
Cis-Dichloropropene	0.05	nd	nd	nd	nd
Trans-Dichloropropene	0.05	nd	nd	nd	nd
Tetrachloroethene	0.05	nd	nd	nd	0.36
1,3 Dichlorobenzene	0.05	nd	nd	nd	nd
1,4 Dichlorobenzene	0.05	nd	nd	nd	nd
1,2 Dichlorobenzene	0.05	nd	nd	nd	nd
1,1 Dichloroethane	0.05	nd	nd	nd	nd
1,2 Dichloroethane	0.05	nd	nd	nd	nd
Chloroform	0.05	nd	nd	nd	nd
Carbon Tetrachloride	0.05	nd	nd	nd	nd
1,1,1 Trichloroethane	0.05	nd	nd	nd	nd
1,1,2 Trichloroethane	0.05	nd	nd	nd	nd
Tetrachloroethane	0.05	nd	nd	nd	nd
Spike Recovery		96	94	88	122

"nd" Indicates Not Detected at the listed MDL.

"int" Indicates that Interference Peaks prevent determination.

This document was part of the official
 Administrative Record for the Yakima
 Railroad Area on October 31, 1996.
 Washington State
 Department of Ecology.

GOODWILL PROJECT
 Yakima, Washington
 Huntingdon Engineering & Environmental, Inc.
 Project No.: 87-921

Specific Halogenated Hydrocarbons (EPA 8010) in Soil

Sample	MDL	14	15	16	17
Depth (ft)		5	10	14	5
DATE		10/12/94	10/12/94	10/12/94	10/12/94
	(mg/kg)				
Bromodichloromethane	0.05	nd	nd	nd	nd
Bromoform	0.05	nd	nd	nd	nd
Bromomethane	0.05	nd	nd	nd	nd
Chloromethane	0.05	nd	nd	nd	nd
2-Chloroethyl vinyl ether	0.05	nd	nd	nd	nd
Chloroethane	0.05	nd	nd	nd	nd
Dibromochloromethane	0.05	nd	nd	nd	nd
Dibromomethane	0.05	nd	nd	nd	nd
1,1 Dichloroeth	0.05	nd	nd	nd	nd
Vinyl Chloride	0.05	nd	nd	nd	nd
Methylene Chloride	0.05	nd	nd	nd	nd
Trans-1,2 Dichloroethene	0.05	nd	nd	nd	nd
Cis-1,2 Dichloroethene	0.05	nd	nd	nd	nd
Trichloroethene	0.05	nd	nd	nd	nd
1,2-Dicloropropane	0.05	nd	nd	nd	nd
Cis-Dichloropropene	0.05	nd	nd	nd	nd
Trans-Dichlorpropene	0.05	nd	nd	nd	nd
Tetrachloroethene	0.05	nd	0.22	nd	2.44
1,3 Dichlorobenzene	0.05	nd	nd	nd	nd
1,4 Dichlorobenzene	0.05	nd	nd	nd	nd
1,2 Dichlorobenzene	0.05	nd	nd	nd	nd
1,1 Dichloroethane	0.05	nd	nd	nd	nd
1,2 Dichloroethane	0.05	nd	nd	nd	nd
Chloroform	0.05	nd	nd	nd	nd
Carbon Tetrachloride	0.05	nd	nd	nd	nd
1,1,1 Trichloroethane	0.05	nd	nd	nd	nd
1,1,2 Trichloroethane	0.05	nd	nd	nd	nd
Tetrachloroethane	0.05	nd	nd	nd	nd
Spike Recovery		112	109	119	89

"nd" Indicates Not Detected at the listed MDL.

"int" Indicates that Interference Peaks prevent determination.

This document was part of the official
 Administrative Record for the Yakima
 Railroad Area on October 31, 1996.
 Washington State
 Department of Ecology.

GOODWILL PROJECT
 Yakima, Washington
 Huntingdon Engineering & Environmental, Inc.
 Project No.: 87-921

Specific Halogenated Hydrocarbons (EPA 8010) in Soil

Sample	MDL	18	19	19 Dup	20
Depth (ft)		10	14	14	5
DATE	(mg/kg)	10/12/94	10/12/94	10/12/94	10/12/94
Bromodichloromethane	0.05	nd	nd	nd	nd
Bromoform	0.05	nd	nd	nd	nd
Bromomethane	0.05	nd	nd	nd	nd
Chloromethane	0.05	nd	nd	nd	nd
2-Chloroethyl vinyl ether	0.05	nd	nd	nd	nd
Chloroethane	0.05	nd	nd	nd	nd
Dibromochloromethane	0.05	nd	nd	nd	nd
Dibromomethane	0.05	nd	nd	nd	nd
1,1 Dichloroeth	0.05	nd	nd	nd	nd
Vinyl Chloride	0.05	nd	nd	nd	nd
Methylene Chloride	0.05	nd	nd	nd	nd
Trans-1,2 Dichloroethene	0.05	nd	nd	nd	nd
Cis-1,2 Dichloroethene	0.05	nd	nd	nd	nd
Trichloroethene	0.05	nd	nd	nd	nd
1,2-Dicloropropane	0.05	nd	nd	nd	nd
Cis-Dichloropropene	0.05	nd	nd	nd	nd
Trans-Dichloropropene	0.05	nd	nd	nd	nd
Tetrachloroethene	0.05	nd	4.91	5.15	nd
1,3 Dichlorobenzene	0.05	nd	nd	nd	nd
1,4 Dichlorobenzene	0.05	nd	nd	nd	nd
1,2 Dichlorobenzene	0.05	nd	nd	nd	nd
1,1 Dichloroethane	0.05	nd	nd	nd	nd
1,2 Dichloroethane	0.05	nd	nd	nd	nd
Chloroform	0.05	nd	nd	nd	nd
Carbon Tetrachloride	0.05	nd	nd	nd	nd
1,1,1 Trichloroethane	0.05	nd	nd	nd	nd
1,1,2 Trichloroethane	0.05	nd	nd	nd	nd
Tetrachloroethane	0.05	nd	nd	nd	nd
Spike Recovery		91	83	85	92

"nd" Indicates Not Detected at the listed MDL.

"int" Indicates that Interference Peaks prevent determination

This document was part of the official
 Administrative Record for the Yakima
 Railroad Area on October 31, 1996.
 Washington State
 Department of Ecology.

GOODWILL PROJECT
 Yakima, Washington
 Huntingdon Engineering & Environmental, Inc.
 Project No.: 87-921

Specific Halogenated Hydrocarbons (EPA 8010) in Soil

Sample	MDL	21	22	23	24
Depth (ft)		14	5	5	5
DATE	(mg/kg)		10/12/94	10/12/94	10/12/94
Bromodichloromethane	0.05	nd	nd	nd	nd
Bromoform	0.05	nd	nd	nd	nd
Bromomethane	0.05	nd	nd	nd	nd
Chloromethane	0.05	nd	nd	nd	nd
2-Chloroethyl vinyl ether	0.05	nd	nd	nd	nd
Chloroethane	0.05	nd	nd	nd	nd
Dibromochloromethane	0.05	nd	nd	nd	nd
Dibromomethane	0.05	nd	nd	nd	nd
1,1 Dichloroeth	0.05	nd	nd	nd	nd
Vinyl Chloride	0.05	nd	nd	nd	nd
Methylene Chloride	0.05	nd	nd	nd	nd
Trans-1,2 Dichloroethene	0.05	nd	nd	nd	nd
Cis-1,2 Dichloroethene	0.05	nd	nd	nd	nd
Trichloroethene	0.05	nd	nd	nd	nd
1,2-Dicloropropane	0.05	nd	nd	nd	nd
Cis-Dichloropropene	0.05	nd	nd	nd	nd
Trans-Dichloropropene	0.05	nd	nd	nd	nd
Tetrachloroethene	0.05	nd	0.26	nd	nd
1,3 Dichlorobenzene	0.05	nd	nd	nd	nd
1,4 Dichlorobenzene	0.05	nd	nd	nd	nd
1,2 Dichlorobenzene	0.05	nd	nd	nd	nd
1,1 Dichloroethane	0.05	nd	nd	nd	nd
1,2 Dichloroethane	0.05	nd	nd	nd	nd
Chloroform	0.05	nd	nd	nd	nd
Carbon Tetrachloride	0.05	nd	nd	nd	nd
1,1,1 Trichloroethane	0.05	nd	nd	nd	nd
1,1,2 Trichloroethane	0.05	nd	nd	nd	nd
Tetrachloroethane	0.05	nd	nd	nd	nd
Spike Recovery		95	117	95	108

"nd" Indicates Not Detected at the listed MDL.

"int" Indicates that Interference Peaks prevent determination.

This document is part of the official
 Administrative Record for the Yakima
 Railroad Area on October 31, 1996.
 Washington State
 Department of Ecology.

GOODWILL PROJECT
 Yakima, Washington
 Huntingdon Engineering & Environmental, Inc.
 Project No.: 87-921

Specific Halogenated Hydrocarbons (EPA 8010) in Soil

Sample Depth (ft)	MDL	25 5	26 5	Sample I	Sample I Dup
DATE	(mg/kg)	10/12/94	10/12/94	10/12/94	10/12/94
Bromodichloromethane	0.05	nd	nd	nd	nd
Bromoform	0.05	nd	nd	nd	nd
Bromomethane	0.05	nd	nd	nd	nd
Chloromethane	0.05	nd	nd	nd	nd
2-Chloroethyl vinyl ether	0.05	nd	nd	nd	nd
Chloroethane	0.05	nd	nd	nd	nd
Dibromochloromethane	0.05	nd	nd	nd	nd
Dibromomethane	0.05	nd	nd	nd	nd
1,1 Dichloroeth	0.05	nd	nd	nd	nd
Vinyl Chloride	0.05	nd	nd	nd	nd
Methylene Chloride	0.05	nd	nd	nd	nd
Trans-1,2 Dichloroethene	0.05	nd	nd	nd	nd
Cis-1,2 Dichloroethene	0.05	nd	nd	nd	nd
Trichloroethene	0.05	nd	nd	nd	nd
1,2-Dichloropropane	0.05	nd	nd	nd	nd
Cis-Dichloropropene	0.05	nd	nd	nd	nd
Trans-Dichloropropene	0.05	nd	nd	nd	nd
Tetrachloroethene	0.05	0.23	nd	0.24	0.25
1,3 Dichlorobenzene	0.05	nd	nd	nd	nd
1,4 Dichlorobenzene	0.05	nd	nd	nd	nd
1,2 Dichlorobenzene	0.05	nd	nd	nd	nd
1,1 Dichloroethane	0.05	nd	nd	nd	nd
1,2 Dichloroethane	0.05	nd	nd	nd	nd
Chloroform	0.05	nd	nd	nd	nd
Carbon Tetrachloride	0.05	nd	nd	nd	nd
1,1,1 Trichloroethane	0.05	nd	nd	nd	nd
1,1,2 Trichloroethane	0.05	nd	nd	nd	nd
Tetrachloroethane	0.05	nd	nd	nd	nd
Spike Recovery		121	107	112	111

"nd" Indicates Not Detected at the listed MDL.
 "int" Indicates that Interference Peaks prevent determination.
 This document was part of the official
 Administrative Record for the Yakima
 Railroad Area on October 31, 1996.
 Washington State
 Department of Ecology.

GOODWILL PROJECT
 Yakima, Washington
 Huntingdon Engineering & Environmental, Inc.
 Project No.: 87-921

Specific Halogenated Hydrocarbons (EPA 8010) in Soil

Sample	MDL	4
Depth (ft)		5
DATE		10/12/94
	(mg/kg)	
Bromodichloromethane	0.05	<25
Bromoform	0.05	<25
Bromomethane	0.05	<25
Chloromethane	0.05	<25
2-Chloroethyl vinyl ether	0.05	<25
Chloroethane	0.05	<25
Dibromochloromethane	0.05	<25
Dibromomethane	0.05	<25
1,1 Dichloroeth	0.05	<25
Vinyl Chloride	0.05	<25
Methylene Chloride	0.05	<25
Trans-1,2 Dichloroethene	0.05	<25
Cis-1,2 Dichloroethene	0.05	<25
Trichloroethene	0.05	<25
1,2-Dicloropropane	0.05	<25
Cis-Dichloropropene	0.05	<25
Trans-Dichloropropene	0.05	<25
Tetrachloroethene	0.05	45000
1,3 Dichlorobenzene	0.05	<25
1,4 Dichlorobenzene	0.05	<25
1,2 Dichlorobenzene	0.05	<25
1,1 Dichloroethane	0.05	<25
1,2 Dichloroethane	0.05	<25
Chloroform	0.05	<25
Carbon Tetrachloride	0.05	<25
1,1,1 Trichloroethane	0.05	<25
1,1,2 Trichloroethane	0.05	<25
Tetrachloroethane	0.05	<25

Spike Recovery

=====
 "nd" Indicates Not Detected at the listed MDL.
 "int" Indicates that Interference Peaks prevent determination.
 =====

This document was part of the official
 Administrative Record for the Yakima
 Railroad Area on October 31, 1996.
 Washington State
 Department of Ecology.

GOODWILL PROJECT
 Yakima, Washington
 Huntingdon Engineering & Environmental, Inc.
 Project No.: 87-921

Specific Halogenated Hydrocarbons (EPA 8010) in Soil

Sample Depth (ft)	MDL	M. Blank	Sample II	27	28
DATE	(mg/kg)	10/13/94	10/13/94	10/13/94	10/13/94
Bromodichloromethane	0.05	nd	nd	nd	nd
Bromoform	0.05	nd	nd	nd	nd
Bromomethane	0.05	nd	nd	nd	nd
Chloromethane	0.05	nd	nd	nd	nd
2-Chloroethyl vinyl ether	0.05	nd	nd	nd	nd
Chloroethane	0.05	nd	nd	nd	nd
Dibromochloromethane	0.05	nd	nd	nd	nd
Dibromomethane	0.05	nd	nd	nd	nd
1,1 Dichloroeth	0.05	nd	nd	nd	nd
Vinyl Chloride	0.05	nd	nd	nd	nd
Methylene Chloride	0.05	nd	nd	nd	nd
Trans-1,2 Dichloroethene	0.05	nd	nd	nd	nd
Cis-1,2 Dichloroethene	0.05	nd	nd	nd	nd
Trichloroethene	0.05	nd	nd	nd	nd
1,2-Dicloropropane	0.05	nd	nd	nd	nd
Cis-Dichloropropene	0.05	nd	nd	nd	nd
Trans-Dichloropropene	0.05	nd	nd	nd	nd
Tetrachloroethene	0.05	nd	nd	nd	nd
1,3 Dichlorobenzene	0.05	nd	nd	nd	nd
1,4 Dichlorobenzene	0.05	nd	nd	nd	nd
1,2 Dichlorobenzene	0.05	nd	nd	nd	nd
1,1 Dichloroethane	0.05	nd	nd	nd	nd
1,2 Dichloroethane	0.05	nd	nd	nd	nd
Chloroform	0.05	nd	nd	nd	nd
Carbon Tetrachloride	0.05	nd	nd	nd	nd
1,1,1 Trichloroethane	0.05	nd	nd	nd	nd
1,1,2 Trichloroethane	0.05	nd	nd	nd	nd
Tetrachloroethane	0.05	nd	nd	nd	nd
Spike Recovery		91	83	76	114

"nd" Indicates Not Detected at the listed MDL.

"int" Indicates that Interference Peaks prevent determination.

This document was part of the official
 Administrative Record for the Yakima
 Railroad Area on October 31, 1995.
 Washington State
 Department of Ecology.

GOODWILL PROJECT
 Yakima, Washington
 Huntingdon Engineering & Environmental, Inc.
 Project No.: 87-921

Specific Halogenated Hydrocarbons (EPA 8010) in Soil

Sample Depth (ft)	MDL	29	30	Pile X Composite	31
DATE	(mg/kg)	10/13/94	10/13/94	10/13/94	10/13/94
Bromodichloromethane	0.05	nd	nd	nd	nd
Bromoform	0.05	nd	nd	nd	nd
Bromomethane	0.05	nd	nd	nd	nd
Chloromethane	0.05	nd	nd	nd	nd
2-Chloroethyl vinyl ether	0.05	nd	nd	nd	nd
Chloroethane	0.05	nd	nd	nd	nd
Dibromochloromethane	0.05	nd	nd	nd	nd
Dibromomethane	0.05	nd	nd	nd	nd
1,1 Dichloroeth	0.05	nd	nd	nd	nd
Vinyl Chloride	0.05	nd	nd	nd	nd
Methylene Chloride	0.05	nd	nd	nd	nd
Trans-1,2 Dichloroethene	0.05	nd	nd	nd	nd
Cis-1,2 Dichloroethene	0.05	nd	nd	nd	nd
Trichloroethene	0.05	nd	nd	nd	nd
1,2-Dicloropropane	0.05	nd	nd	nd	nd
Cis-Dichloropropene	0.05	nd	nd	nd	nd
Trans-Dichloropropene	0.05	nd	nd	nd	nd
Tetrachloroethene	0.05	nd	nd	0.54	nd
1,3 Dichlorobenzene	0.05	nd	nd	nd	nd
1,4 Dichlorobenzene	0.05	nd	nd	nd	nd
1,2 Dichlorobenzene	0.05	nd	nd	nd	nd
1,1 Dichloroethane	0.05	nd	nd	nd	nd
1,2 Dichloroethane	0.05	nd	nd	nd	nd
Chloroform	0.05	nd	nd	nd	nd
Carbon Tetrachloride	0.05	nd	nd	nd	nd
1,1,1 Trichloroethane	0.05	nd	nd	nd	nd
1,1,2 Trichloroethane	0.05	nd	nd	nd	nd
Tetrachloroethane	0.05	nd	nd	nd	nd
Spike Recovery		95	89	97	88

"nd" Indicates Not Detected at the listed MDL.

"int" Indicates that Interference Peaks prevent determination.

This document is a part of the official
 Administrative Record for the Yakima
 Railroad Area on October 31, 1996.
 Washington State
 Department of Ecology.

GOODWILL PROJECT
 Yakima, Washington
 Huntingdon Engineering & Environmental, Inc.
 Project No.: 87-921

Specific Halogenated Hydrocarbons (EPA 8010) in Soil

Sample Depth (ft)	MDL	32	33	34	35
DATE	(mg/kg)	10/13/94	10/13/94	10/13/94	10/13/94
Bromodichloromethane	0.05	nd	nd	nd	nd
Bromoform	0.05	nd	nd	nd	nd
Bromomethane	0.05	nd	nd	nd	nd
Chloromethane	0.05	nd	nd	nd	nd
2-Chloroethyl vinyl ether	0.05	nd	nd	nd	nd
Chloroethane	0.05	nd	nd	nd	nd
Dibromochloromethane	0.05	nd	nd	nd	nd
Dibromomethane	0.05	nd	nd	nd	nd
1,1 Dichloroeth	0.05	nd	nd	nd	nd
Vinyl Chloride	0.05	nd	nd	nd	nd
Methylene Chloride	0.05	nd	nd	nd	nd
Trans-1,2 Dichloroethene	0.05	nd	nd	nd	nd
Cis-1,2 Dichloroethene	0.05	nd	nd	nd	nd
Trichloroethene	0.05	nd	nd	nd	nd
1,2-Dicloropropane	0.05	nd	nd	nd	nd
Cis-Dichloropropene	0.05	nd	nd	nd	nd
Trans-Dichloropropene	0.05	nd	nd	nd	nd
Tetrachloroethene	0.05	0.36	nd	nd	nd
1,3 Dichlorobenzene	0.05	nd	nd	nd	nd
1,4 Dichlorobenzene	0.05	nd	nd	nd	nd
1,2 Dichlorobenzene	0.05	nd	nd	nd	nd
1,1 Dichloroethane	0.05	nd	nd	nd	nd
1,2 Dichloroethane	0.05	nd	nd	nd	nd
Chloroform	0.05	nd	nd	nd	nd
Carbon Tetrachloride	0.05	nd	nd	nd	nd
1,1,1 Trichloroethane	0.05	nd	nd	nd	nd
1,1,2 Trichloroethane	0.05	nd	nd	nd	nd
Tetrachloroethane	0.05	nd	nd	nd	nd
Spike Recovery		93	120	106	93

"nd" Indicates Not Detected at the listed MDL.

"int" Indicates that Interference Peaks prevent determination.

This document was part of the official
 Administrative Record for the Yakima
 Railroad Area on October 21, 1996.
 Washington State
 Department of Ecology.

GOODWILL PROJECT
 Yakima, Washington
 Huntingdon Engineering & Environmental, Inc.
 Project No.: 87-921

Specific Halogenated Hydrocarbons (EPA 8010) in Soil

Sample Depth (ft)	MDL	35 Dup	38	39	X2-1
DATE		10/13/94	10/13/94	10/13/94	10/13/94
	(mg/kg)				
Bromodichloromethane	0.05	nd	nd	nd	nd
Bromoform	0.05	nd	nd	nd	nd
Bromomethane	0.05	nd	nd	nd	nd
Chloromethane	0.05	nd	nd	nd	nd
2-Chloroethyl vinyl ether	0.05	nd	nd	nd	nd
Chloroethane	0.05	nd	nd	nd	nd
Dibromochloromethane	0.05	nd	nd	nd	nd
Dibromomethane	0.05	nd	nd	nd	nd
1,1 Dichloroeth	0.05	nd	nd	nd	nd
Vinyl Chloride	0.05	nd	nd	nd	nd
Methylene Chloride	0.05	nd	nd	nd	nd
Trans-1,2 Dichloroethene	0.05	nd	nd	nd	nd
Cis-1,2 Dichloroethene	0.05	nd	nd	nd	nd
Trichloroethene	0.05	nd	nd	nd	nd
1,2-Dicloropropane	0.05	nd	nd	nd	nd
Cis-Dichloropropene	0.05	nd	nd	nd	nd
Trans-Dichloropropene	0.05	nd	nd	nd	nd
Tetrachloroethene	0.05	nd	nd	nd	nd
1,3 Dichlorobenzene	0.05	nd	nd	nd	nd
1,4 Dichlorobenzene	0.05	nd	nd	nd	nd
1,2 Dichlorobenzene	0.05	nd	nd	nd	nd
1,1 Dichloroethane	0.05	nd	nd	nd	nd
1,2 Dichloroethane	0.05	nd	nd	nd	nd
Chloroform	0.05	nd	nd	nd	nd
Carbon Tetrachloride	0.05	nd	nd	nd	nd
1,1,1 Trichloroethane	0.05	nd	nd	nd	nd
1,1,2 Trichloroethane	0.05	nd	nd	nd	nd
Tetrachloroethane	0.05	nd	nd	nd	nd
Spike Recovery		95	104	121	118

"nd" Indicates Not Detected at the listed MDL.
 "int" Indicates that Interference Peaks prevent determination.

This document was part of the official
 Administrative Record for the Yakima
 Railroad Area on October 31, 1996.
 Washington State
 Department of Ecology.

GOODWILL PROJECT
 Yakima, Washington
 Huntingdon Engineering & Environmental, Inc.
 Project No.: 87-921

Specific Halogenated Hydrocarbons (EPA 8010) in Soil

Sample Depth (ft)	MDL	X2-2	X2-3	X2-3 Dup
DATE	(mg/kg)	10/13/94	10/13/94	10/13/94
Bromodichloromethane	0.05	nd	nd	nd
Bromoform	0.05	nd	nd	nd
Bromomethane	0.05	nd	nd	nd
Chloromethane	0.05	nd	nd	nd
2-Chloroethyl vinyl ether	0.05	nd	nd	nd
Chloroethane	0.05	nd	nd	nd
Dibromochloromethane	0.05	nd	nd	nd
Dibromomethane	0.05	nd	nd	nd
1,1 Dichloroeth	0.05	nd	nd	nd
Vinyl Chloride	0.05	nd	nd	nd
Methylene Chloride	0.05	nd	nd	nd
Trans-1,2 Dichloroethene	0.05	nd	nd	nd
Cis-1,2 Dichloroethene	0.05	nd	nd	nd
Trichloroethene	0.05	nd	nd	nd
1,2-Dicloropropane	0.05	nd	nd	nd
Cis-Dichloropropene	0.05	nd	nd	nd
Trans-Dichloropropene	0.05	nd	nd	nd
Tetrachloroethene	0.05	0.43	0.27	0.28
1,3 Dichlorobenzene	0.05	nd	nd	nd
1,4 Dichlorobenzene	0.05	nd	nd	nd
1,2 Dichlorobenzene	0.05	nd	nd	nd
1,1 Dichloroethane	0.05	nd	nd	nd
1,2 Dichloroethane	0.05	nd	nd	nd
Chloroform	0.05	nd	nd	nd
Carbon Tetrachloride	0.05	nd	nd	nd
1,1,1 Trichloroethane	0.05	nd	nd	nd
1,1,2 Trichloroethane	0.05	nd	nd	nd
Tetrachloroethane	0.05	nd	nd	nd
Spike Recovery		118	121	123

"nd" Indicates Not Detected at the listed MDL.

"int" Indicates that Interference Peaks prevent determination.

This document was part of the official
 Administrative Record for the Yakima
 Railroad Area on October 31, 1996.
 Washington State
 Department of Ecology.

GOODWILL PROJECT
 Yakima, Washington
 Huntingdon Engineering & Environmental, Inc.
 Project No.: 87-921

Specific Halogenated Hydrocarbons (EPA 8010) in Soil

Sample Depth (ft)	MDL	M. Blank	UST 3
DATE		10/14/94	10/14/94
	(mg/kg)		
Bromodichloromethane	0.05	nd	nd
Bromoform	0.05	nd	nd
Bromomethane	0.05	nd	nd
Chloromethane	0.05	nd	nd
2-Chloroethyl vinyl ether	0.05	nd	nd
Chloroethane	0.05	nd	nd
Dibromochloromethane	0.05	nd	nd
Dibromomethane	0.05	nd	nd
1,1 Dichloroeth	0.05	nd	nd
Vinyl Chloride	0.05	nd	nd
Methylene Chloride	0.05	nd	nd
Trans-1,2 Dichloroethene	0.05	nd	nd
Cis-1,2 Dichloroethene	0.05	nd	nd
Trichloroethene	0.05	nd	nd
1,2-Dicloropropane	0.05	nd	nd
Cis-Dichloropropene	0.05	nd	nd
Trans-Dichloropropene	0.05	nd	nd
Tetrachloroethene	0.05	nd	nd
1,3 Dichlorobenzene	0.05	nd	nd
1,4 Dichlorobenzene	0.05	nd	nd
1,2 Dichlorobenzene	0.05	nd	nd
1,1 Dichloroethane	0.05	nd	nd
1,2 Dichloroethane	0.05	nd	nd
Chloroform	0.05	nd	nd
Carbon Tetrachloride	0.05	nd	nd
1,1,1 Trichloroethane	0.05	nd	nd
1,1,2 Trichloroethane	0.05	nd	nd
Tetrachloroethane	0.05	nd	nd
Spike Recovery		89	93

"nd" Indicates Not Detected at the listed MDL.
 "int" Indicates that Interference Peaks prevent determination.

This document was part of the official
 Administrative Record for the Yakima
 Railroad Area on October 31, 1996.
 Washington State
 Department of Ecology.

GOODWILL PROJECT
 Yakima, Washington
 Huntingdon Engineering & Environmental, Inc.
 Project No.: 87-921

Specific Halogenated Hydrocarbons (EPA 8010) in Soil

Sample Depth (ft)	MDL	M. Blank	Tank Dup South Side	Tank South Side	Tank North Side
DATE		10/13/94	10/13/94	10/13/94	10/13/94
	(mg/kg)				
Bromodichloromethane	0.05	nd	<.5	<.5	<.5
Bromoform	0.05	nd	<.5	<.5	<.5
Bromomethane	0.05	nd	<.5	<.5	<.5
Chloromethane	0.05	nd	<.5	<.5	<.5
2-Chloroethyl vinyl ether	0.05	nd	<.5	<.5	<.5
Chloroethane	0.05	nd	<.5	<.5	<.5
Dibromochloromethane	0.05	nd	<.5	<.5	<.5
Dibromomethane	0.05	nd	<.5	<.5	<.5
1,1 Dichloroeth	0.05	nd	<.5	<.5	<.5
Vinyl Chloride	0.05	nd	<.5	<.5	<.5
Methylene Chloride	0.05	nd	<.5	<.5	<.5
Trans-1,2 Dichloroethene	0.05	nd	<.5	<.5	<.5
Cis-1,2 Dichloroethene	0.05	nd	<.5	<.5	<.5
Trichloroethene	0.05	nd	<.5	<.5	<.5
1,2-Dicloropropane	0.05	nd	<.5	<.5	<.5
Cis-Dichloropropene	0.05	nd	<.5	<.5	<.5
Trans-Dichloropropene	0.05	nd	<.5	<.5	<.5
Tetrachloroethene	0.05	nd	<.5	<.5	<.5
1,3 Dichlorobenzene	0.05	nd	<.5	<.5	<.5
1,4 Dichlorobenzene	0.05	nd	<.5	<.5	<.5
1,2 Dichlorobenzene	0.05	nd	<.5	<.5	<.5
1,1 Dichloroethane	0.05	nd	<.5	<.5	<.5
1,2 Dichloroethane	0.05	nd	<.5	<.5	<.5
Chloroform	0.05	nd	<.5	<.5	<.5
Carbon Tetrachloride	0.05	nd	<.5	<.5	<.5
1,1,1 Trichloroethane	0.05	nd	<.5	<.5	<.5
1,1,2 Trichloroethane	0.05	nd	<.5	<.5	<.5
Tetrachloroethane	0.05	nd	<.5	<.5	<.5
Spike Recovery		89	88	86	107

"nd" Indicates Not Detected at the listed MDL.

"int" Indicates that Interference Peaks prevent determination.

This document was part of the official
 Administrative Record for the Yakima
 Railroad Area on October 31, 1996.
 Washington State
 Department of Ecology.

GOODWILL PROJECT
 Yakima, Washington
 Huntingdon Engineering & Environmental, Inc.
 Project No.: 87-921

Heavy Petroleum Hydrocarbons in soil by WTPH-418.1

Sample Number	Date	TPH mg/kg
Meth. Blank	10/11/94	nd
Waste Oil 1	10/11/94	185000
1	10/11/94	69
2	10/11/94	100
3	10/11/94	347
4	10/11/94	858
5	10/11/94	198
6	10/11/94	97
7	10/11/94	266
8	10/11/94	115
9	10/11/94	184
10	10/11/94	5740
11	10/11/94	335
12	10/11/94	105
13	10/11/94	1350
14	10/11/94	264
14 Dup	10/11/94	234
15	10/11/94	358
16	10/11/94	328
17	10/11/94	63
18	10/11/94	66
19	10/11/94	107
20	10/11/94	nd
20 Dup	10/11/94	nd
Method Detection Limit		10

"nd" indicates Not Detected at the list

This document was part of the official
 Administrative Record for the Yakima
 Railroad Area on October 31, 1996.
 Washington State
 Department of Ecology.

GOODWILL PROJECT
Yakima, Washington
Huntingdon Engineering & Environmental, Inc.
Project No.: 87-921

Heavy Petroleum Hydrocarbons in soil by WTPH-418.1

Sample Number	Date	TPH mg/kg
Meth. Blank	10/12/94	nd
21	10/12/94	17
22	10/12/94	98
23	10/12/94	554
24	10/12/94	204
25	10/12/94	48
26	10/12/94	115
26 Dup	10/12/94	119
Sample I	10/12/94	89
Sample II	10/12/94	nd
Sample II Dup	10/12/94	nd
Method Detection Limit		10

"nd" indicates Not Detected at the list

This document was part of the official
Administrative Record for the Yakima
Railroad Area on October 31, 1996.
Washington State
Department of Ecology.

GOODWILL PROJECT
 Yakima, Washington
 Huntingdon Engineering & Environmental, Inc.
 Project No.: 87-921

Heavy Petroleum Hydrocarbons in soil by WTPH-418.1

Sample Number	Date	TPH mg/kg
M Blank	10/13/94	nd
27	10/13/94	489
28	10/13/94	27
29	10/13/94	84
30	10/13/94	24
31	10/13/94	32
32	10/13/94	64
33	10/13/94	57
34	10/13/94	19
35	10/13/94	18
35 Dup	10/13/94	20
Beneath H Tank	10/13/94	32
Beneath H Tank Dup	10/13/94	36
Pile X Comp.	10/13/94	97
36	10/13/94	522
37	10/13/94	18
38	10/13/94	11
39	10/13/94	73
39 Dup	10/13/94	72

Method Detection Limit 10

"nd" indicates Not Detected at the list

This document was part of the official
 Administrative Record for the Yakima
 Railroad Area on October 31, 1996.
 Washington State
 Department of Ecology.

GOODWILL PROJECT

Yakima, Washington

Huntingdon Engineering & Environmental, Inc.

Project No.: 87-921

Total Metals in Soil by EPA 7000 Series

Sample Number	Date	Cd mg/kg	Pb mg/kg	Ag mg/kg	As mg/kg	Se mg/kg	Ba mg/kg	Hg mg/kg	Cr mg/kg
Meth. Blank	10/14/94	nd	nd	nd	nd	nd	nd	nd	nd
UST 3	10/14/94	1.2	95	nd	nd	nd	963	nd	8
UST 3 Dup	10/14/94	1	102	nd	nd	nd	836	nd	9
Method Detection Limit		1	5	1	5	5	10	0.1	5

"nd" Indicates not detected at the listed detection limit.

GOODWILL PROJECT
Yakima, Washington
Huntingdon Engineering & Environmental, Inc.
Project No.: 87-921

Heavy Petroleum Hydrocarbons in soil by WTPH-418.1

Sample Number	Date	TPH mg/kg
M Blank	10/13/94	nd
UST1	10/13/94	1320
UST2	10/13/94	34
UST3	10/13/94	2620
UST4 Base	10/13/94	14
N.Side Wall	10/13/94	66
S.Side Wall	10/13/94	116
W.Side Wall	10/13/94	83
W.Side Wall Dup	10/13/94	79
Method Detection Limit		10

"nd" indicates Not Detected at the liste

GOODWILL PROJECT
 Yakima, Washington
 Huntingdon Engineering & Environmental, Inc.
 Project No.: 87-921

Polychlorinated Biphenyls (PCBs) in Soils (EPA Method 8080)

Sample Number	Date Analyzed	Recovery (%)	1221 mg/kg	1232 mg/kg	1242 mg/kg	1248 mg/kg	1254 mg/kg	1260 mg/kg
Meth. Blank	10/14/94	111	nd	nd	nd	nd	nd	nd
UST 3	10/14/94	92	nd	nd	nd	nd	nd	nd
Detection Limit			0.05	0.05	0.05	0.05	0.05	0.05

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference peaks prevent determination.

This document was part of the official
 Administrative Record for the Yakima
 Railroad Area on October 31, 1996.
 Washington State
 Department of Ecology.

GOODWILL PROJECT
 Yakima, Washington
 Huntingdon Engineering & Environmental, Inc.
 Project No.: 87-921

Hydrocarbon Identification by WTPH-HCID for Soils

Sample Number	Date	Recovery %	Gasoline mg/kg	Diesel mg/kg	Heavy Oil mg/kg
Meth. Blank	10/14/94	89	nd	nd	nd
UST 3	10/14/94	81	nd	nd	D
UST 3 Dup	10/14/94	100	nd	nd	D
Method Detection Limits			20	50	100

"nd" Indicates not detected at the listed detection limit.

"D" Indicates detected above the listed detection limit.

GOODWILL PROJECT

Yakima, Washington

Huntingdon Engineering & Environmental, Inc.

Project No.: 87-921

Total Metals in Soil by EPA 7000 Series

Sample Number	Date	Pb mg/kg
Meth. Blank	10/14/94	nd
Armory Comp 1	10/14/94	9700
Armory Comp 2	10/14/94	7930
Meth. Blank	10/17/94	nd
Armory 1	10/17/94	4540
Armory 2	10/17/94	4870
Armory 3	10/17/94	8560
Armory 4	10/17/94	13400
Armory 5	10/17/94	6440
Armory 6	10/17/94	14300
Armory 6 Dup	10/17/94	20000
Method Detection Limit		5

"nd" Indicates not detected at the listed detection limit.

This document was part of the official
Administrative Record for the Yakima
Railroad Area on October 31, 1996.
Washington State
Department of Ecology.

GOODWILL PROJECT
 Yakima, Washington
 Huntingdon Engineering & Environmental, Inc.
 Project No.: 87-921

Polychlorinated Biphenyls (PCBs) in Soils (EPA Method 8080)

Sample Number	Date Analyzed	Recovery (%)	1221 mg/kg	1232 mg/kg	1242 mg/kg	1248 mg/kg	1254 mg/kg	1260 mg/kg
Meth. Blank	10/14/94	111	nd	nd	nd	nd	nd	nd
H. Tank 1	10/14/94	87	nd	nd	nd	nd	nd	nd
H. Tank 2	10/14/94	104	nd	nd	nd	nd	nd	nd
H. Tank 3	10/14/94	88	nd	nd	nd	nd	nd	nd
H. Tank 3 Dup	10/14/94	101	nd	nd	nd	nd	nd	nd
H. Tank 4	10/14/94	105	nd	nd	nd	nd	nd	nd
Detection Limit			0.05	0.05	0.05	0.05	0.05	0.05

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference peaks prevent determination.

CHAIN-OF-CUSTODY RECORD
P.O. #:

CLIENT: Huntingdon DATE: Oct. 11, 1994 PAGE 1 OF

ADDRESS: _____ TEG PROJECT #: NW441011-1

PHONE: _____ LOCATION: 3rd St Yukingawa

CLIENT PROJECT #: _____ PROJECT MANAGER: Rachel Tallman DATE OF COLLECTION: 10-11-94

FAX: _____ COLLECTOR: Rachel Tallman

Sample Number	Depth	Time	Sample Type	Container Type	ANALYSES	VOA 6018010	VOA 6248240	Semi Vol 6258270	TPH 418.1	TPH 8015 (petroleum)	TPH 8015 (total)	PNA 6108100	HEX CHROME	ORGANIC LEAD	TOTAL LEAD	ASBESTOS	FIELD NOTES	Total Number Of Containers	Laboratory Note Number
W1	NAH	0800	Water	402 Jar	✓												Hoist Drum	1	
Wash. Oil 1		0828	Soil	402 Jar	✓												Wash. Drum	1	
1	12'	0910	"	402 Jar	✓												Wash. Drum	1	
2	14.5'	0915	"	"	✓												Wash. Drum	1	
3	5'	0935	"	"	✓												Wash. Drum	1	
4	5'	1005	"	"	✓												Wash. Drum	1	
5	10'	1035	"	"	✓												Wash. Drum	1	
6	12 1/2'	1050	"	"	✓												Wash. Drum	1	
7	5'	1105	"	"	✓												Wash. Drum	1	
8	10'	1120	"	"	✓												Wash. Drum	1	
9	13'	1135	"	"	✓												Wash. Drum	1	
Basement H ₂ O, NA		1245	Water	"	✓												Wash. Drum	1	
Wash. Oil 2	NA	1300	Oil	"	✓												Wash. Drum	1	
10	5'	1350	Soil	"	✓												Wash. Drum	1	
11	5'	1439	Soil	"	✓												Wash. Drum	1	
12	12'	1519	Soil	"	✓												Wash. Drum	1	
13	12'	1530	Soil	"	✓												Wash. Drum	1	
14	5'	1540	Soil	"	✓												Wash. Drum	1	

RELINQUISHED BY: (Signature) _____ DATE/TIME: _____ RECEIVED BY: (Signature) _____ DATE/TIME: _____

RELINQUISHED BY: (Signature) _____ DATE/TIME: _____ RECEIVED BY: (Signature) _____ DATE/TIME: _____

LABORATORY NOTES:

1. This document was part of the official Administrative Record for the Yukon Railroad Area on October 31, 1994. Washington State Department of Ecology.

2. 20' from Sump

3. 25' from Sump

4. 4

5. RECEIVED GOOD COND./COLD

6. SEALS INTACT? Y/N/NA

7. CHAIN OF CUSTODY SEALS Y/N/NA

8. TOTAL NUMBER OF CONTAINERS 18

9. SAMPLE RECEIPT



TRANS GLOBAL
ENVIRONMENTAL
GEOCHEMISTRY.

CHAIN-OF-CUSTODY RECORD

P.O. #:

CLIENT: Huntingdon DATE: Oct 11 1994 PAGE 2 OF 2

ADDRESS: _____ TEG PROJECT #: NW 941011-1

PHONE: _____ LOCATION: 3rd St Goodwill Yak. in GMA

CLIENT PROJECT #: _____ PROJECT MANAGER: Rachel Tammann DATE OF COLLECTION: 10-11-94

COLLECTOR: Rachel Tammann

Sample Number	Depth	Time	Sample Type	Container Type	ANALYSES										FIELD NOTES	Total Number Of Containers	Laboratory Note Number	
					VOA 601/8010	VOA 602/8020	VOA 624/8240	TPH 418.1	TPH 8015 (gasoline)	TPH 8015 (diesel)	PMA 610/8100	PEST/PCBS 8080	HEX CHROME	TOTAL LEAD				ASBESTOS
15	10'	1545	soil	402 glass jar	X												22 feet from dump	
16	14'	1550	soil	"	X												22' from dump	
17	5'	1555	soil	"	X													
18	10'	1555	soil	"	X													
19	14'	1609	soil	"	X													
20	5'	1625	soil	"	X												Alley	

This document was part of the official
Administrative Record for the Yakima
Railroad Area on October 31, 1996.
Washington State
Department of Ecology.

RELINQUISHED BY: (Signature) _____ DATE/TIME _____ RECEIVED BY: (Signature) _____ DATE/TIME _____

RELINQUISHED BY: (Signature) _____ DATE/TIME _____ RECEIVED BY: (Signature) _____ DATE/TIME _____

SAMPLE DISPOSAL INSTRUCTIONS

TEG DISPOSAL @ \$2.00 each Return Pickup

SAMPLE RECEIPT

TOTAL NUMBER OF CONTAINERS 4

CHAIN OF CUSTODY SEALS Y/N NA

SEALS INTACT? Y/N NA

RECEIVED GOOD COND./COLD Y

LABORATORY NOTES:



TRANSGLOBAL
ENVIRONMENTAL
BIOCHEMISTRY

CHAIN-OF-CUSTODY RECORD

P.O. #:

CLIENT: Huntingdon
 ADDRESS: _____
 PHONE: _____
 CLIENT PROJECT #: _____ PROJECT MANAGER: Rachel Tatum
 FAX: _____

DATE: 10-12-94 PAGE 1 OF 1
 TEG PROJECT #: NW941017-1
 LOCATION: Coastwill Park, Va
 COLLECTOR: Rachel Tatum DATE OF COLLECTION: 10/12/94

Sample Number	Depth	Time	Sample Type	Container Type	ANALYSES	TPH 418.1	Semi Vol 625/8270	VOA 602/8020	VOA 601/8010	TPH 8015 (gasoline)	TPH 8015 (diesel)	PMA 610/8100	HEX CHROME	ORGANIC LEAD	TOTAL LEAD	PH	ASBESTOS	FIELD NOTES	Total Number	Of Containers	Laboratory Note Number
21	14"	1255	Soil	4oz glass Jar	X	X												Below Sump	1		
Waste Oil 13	NA	1235	"	"	X													North Campment Tank Compartment	1		
Waste Oil 14	NA	1235	"	"	X													South Campment Tank	1		
22	12-15'	1315	Soil	"	X		X											30' from Sump	1		
23	5'	1320	Soil	"	X		X											40' from Sump	1		
24	5'	1324	"	"	X		X											40' "	1		
25	5'	1335	"	"	X		X											Remble Depression	1		
26	5'	1335	"	"	X		X											Old Sewer Depression	1		
Sample I	11'	1353	"	11	X		X														
Sample II	"	1415	"	"	X		X														

This document was part of the official Administrative Record for the Yakima Railroad Area on October 31, 1996.
 Washington State Department of Ecology.

RELINQUISHED BY: (Signature) _____ DATE/TIME _____ RECEIVED BY: (Signature) _____ DATE/TIME _____
 RELINQUISHED BY: (Signature) Rachel Tatum DATE/TIME 10-12-94 RECEIVED BY: (Signature) Mary Thelma DATE/TIME 10-12-94

LABORATORY NOTES:
 TOTAL NUMBER OF CONTAINERS 10
 CHAIN OF CUSTODY SEALS Y/N/NA _____
 SEALS INTACT? Y/N/NA _____
 RECEIVED GOOD COND./COLD _____
 NOTES: _____

SAMPLE DISPOSAL INSTRUCTIONS
 TEG DISPOSAL @ \$2.00 each Return Pickup



TRANSEGLOBAL
ENVIRONMENTAL
GEOCHEMISTRY

CHAIN-OF-CUSTODY RECORD

P.O. #:

CLIENT: Huntingdon
ADDRESS: _____
PHONE: _____ FAX: _____
CLIENT PROJECT #: _____ PROJECT MANAGER: Rachel Tauman

DATE: 10-13-94 PAGE 1 OF 2
TEG PROJECT #: AW 941011-1
LOCATION: Yaquina (Goodwill)
COLLECTOR: Rachel Tauman DATE OF COLLECTION: 10/13

Sample Number	Depth	Time	Sample Type	Container Type	ANALYSES	VOA 6018010	VOA 6248240	Semi Vol 6258270	TPH 418.1	TPH 8015 (gasoline)	TPH 8015 (diesel)	PNA 6108100	PEST/PCBs 8080	HEX CHROME	ORGANIC LEAD	TOTAL LEAD	ASBESTOS	FIELD NOTES	Total Number	Of Containers	Laboratory Note Number
27	9'	0805	Soil	402 Glass Jar	X		X												1		
28	14'	0805	Soil	"	X		X												1		
29	10'	0825	Soil	"	X		X												1		
30	14'	0825	Soil	"	X		X												1		30' from Survey E-SE
31		0845	Soil	"	X		X												1		" "
32		0849	Soil	"	X		X												1		Slough in hole
33		0844	Soil	"	X		X												1		" "
34		0854	Soil	"	X		X												1		" "
35		0854	Soil	"	X		X												1		5' S' @ Clay Wall
U1STOCKP.1		0915	Soil	"	X		X												1		
U1STOCKP.2		0917	Soil	"	X		X												1		
U1STOCKP.3		0918	Soil	"	X		X												1		
U1STH 4		0920	Soil	"	X		X												1		
N Side Wall	5'	0940	Soil	"	X		X												1		Base
S Side Wall	5'	0950	Soil	"	X		X												1		
Beneath Highway		1000	Soil	"	X		X												1		
Pile Compask		1030	Soil	"	X		X												1		
U Side Wall	6'	1110	Soil	"	X		X												1		

RELINQUISHED BY: (Signature) _____ DATE/TIME: _____ RECEIVED BY: (Signature) _____ DATE/TIME: _____
 RELINQUISHED BY: (Signature) Rachel Tauman DATE/TIME: 10-13-94 RECEIVED BY: (Signature) Sherry J. Whitcomb DATE/TIME: 10-13-94

SAMPLE RECEIPT
 TOTAL NUMBER OF CONTAINERS 18
 CHAIN OF CUSTODY SEALS Y/N/A Y
 SEALS INTACT? Y/N/A Y
 RECEIVED GOOD COND./COLD Y
 NOTES:

LABORATORY NOTES:
 This document was part of the official Administrative Record for the Yakima Railroad Area on October 31, 1998.
 -- Washington State Department of Ecology.

SAMPLE DISPOSAL INSTRUCTIONS
 TEG DISPOSAL @ \$2.00 each Return Pickup



TRANSGLOBAL
ENVIRONMENTAL
GEOCHEMISTRY.

CHAIN-OF-CUSTODY RECORD

P.O. #:

CLIENT: Huntingdon DATE: 10-13-94 PAGE 2 OF 2

ADDRESS: _____

PHONE: _____ FAX: _____

CLIENT PROJECT #: _____ PROJECT MANAGER: Rachel Taurman

TEG PROJECT #: AW 941011-1 DATE OF COLLECTION: 10-13

LOCATION: Goodwill Yakima

COLLECTOR: Rachel Taurman

Sample Number	Depth	Time	Sample Type	Container Type	ANALYSES										FIELD NOTES	Total Number Of Containers	Laboratory Note Number		
					VOA 6018010	VOA 602/8020	VOA 624/8240	TPH 418.1	TPH 8015 (gasoline)	TPH 8015 (diesel)	PNA 610/8100	HEX CHROME	ORGANIC LEAD	TOTAL LEAD				PB	ASBESTOS
36	6'	1254	Soil	40Z Glass Jar	X													1	
37	14'	1300	Soil	"	X													1	
38	10'	1305	Soil	"	X													1	10' from Sump
39	14'	1315	Soil	"	X													1	10' from Sump
X ² #1		1350	Soil	"	X													1	X ² Composite
X ² #2		"	"	"	X													1	"
X ² #3		"	"	"	X													1	"

This document was part of the official Administrative Record for the Yakima Railroad Area on October 31, 1996.
Washington State Department of Ecology.

RELINQUISHED BY: (Signature) _____ DATE/TIME: 10-13-94

RECEIVED BY: (Signature) Shirley Chubb DATE/TIME: 10-13-94

RELINQUISHED BY: (Signature) _____ DATE/TIME: _____

RECEIVED BY: (Signature) _____ DATE/TIME: _____

SAMPLE RECEIPT

TOTAL NUMBER OF CONTAINERS: 7

CHAIN OF CUSTODY SEALS Y/N/(NA): Y

SEALS INTACT? Y/N/(NA): Y

RECEIVED GOOD COND./COLD: Y

NOTES: _____

LABORATORY NOTES: _____

SAMPLE DISPOSAL INSTRUCTIONS

TEG DISPOSAL @ \$2.00 each Return Pickup



TRANSGLOBAL ENVIRONMENTAL GEOCHEMISTRY.

CHAIN-OF-CUSTODY RECORD

P.O. #:

CLIENT: Huntingdon
ADDRESS: _____
PHONE: _____ FAX: _____
CLIENT PROJECT #: _____ PROJECT MANAGER: Rachel Tamara

DATE: 10-13-94 PAGE 1 OF 1
TEG PROJECT #: ML941011-1
LOCATION: Yakima Coaches
COLLECTOR: Rachel Tamara DATE OF COLLECTION: 10-13-94

Sample Number	Depth	Time	Sample Type	Container Type	ANALYSES	FIELD NOTES	Total Number Of Containers	Laboratory Note Number
1		1240	Oil	4 Lit Jar	VOA 6018010 VOA 6248240 Semi Vol 625/8270 TPH 418.1 TPH 8015 (gasoline) TPH 8015 (diesel) PNA 610/8100 HEX CHROME ORGANIC LEAD TOTAL LEAD ASBESTOS	1		
2		1247	"	"			1	
3		1244	"	"			1	
4		1241	"	"			1	
Sludge Sample		1248	Sludge	"			1	
Soil (Composite)		1410	Oil	"			1	
Waste (Composite)		1415	Oil	"			1	
Armory 1		1505	Soil	"			1	
2		1507	"	"			1	
3		1509	"	"			1	
4		1511	"	"			1	
5		1513	"	"			1	
6		1515	"	"			1	

This document was part of the official Administrative Record for the Yakima Railroad Area of October 31, 1996.
Washington State Department of Ecology

RELINQUISHED BY: (Signature) _____ DATE/TIME _____ RECEIVED BY: (Signature) _____ DATE/TIME _____
RELINQUISHED BY: (Signature) _____ DATE/TIME _____ RECEIVED BY: (Signature) _____ DATE/TIME _____

SAMPLE RECEIPT
TOTAL NUMBER OF CONTAINERS 13
CHAIN OF CUSTODY SEALS Y/N/NA Y
SEALS INTACT? Y/N/NA Y
RECEIVED GOOD COND./COLD Y
NOTES:

LABORATORY NOTES:

SAMPLE DISPOSAL INSTRUCTIONS

TEG DISPOSAL @ \$2.00 each Return Pickup

APPENDIX 3 - WATER LABORATORY ANALYSIS RESULTS

This document was part of the official
Administrative Record for the Yakima
Railroad Area on October 31, 1996.
Washington State
Department of Ecology.

Client Name: HUNTINGDON - TRI-CITIES, WA
Project No.: 87-921
Laboratory No.: 150585
Sample Name: 41194240PMW1
Sample Date: 04/11/94
Collected by: JUSTIN BOLLES
Time Sampled: 1440
Sample Type: WATER

Page 5

PARAMETER	MEASURED VALUE		DATE ANALYZED
METALS			
Lead as Pb (Total)	<0.005	mg/l	04/15/94
MISCELLANEOUS			
Data File Number-Volatiles	Fc443		
Data File Number-TPH Gasoline	Rc440		
PETROLEUM HYDROCARBONS (8015)			
Petroleum Hydrocarbons as Gasoline	0.3	mg/l	04/14/94
VOLATILE ORGANIC COMPOUNDS			
Benzene	<1	µg/l	04/14/94
Ethylbenzene	<1	µg/l	04/14/94
Toluene	<1	µg/l	04/14/94
Total Xylenes	<3	µg/l	04/14/94

This document was part of the official
Administrative Record for the Yakima
Railroad Area on October 31, 1996.
Washington State
Department of Ecology.

Client Name: HUNTINGDON - TRI-CITIES WA
 Project No.: 87-921
 Sample Name: LABORATORY BLANK 4-14-94
 Sample Date: NOT APPLICABLE
 Collected by: NOT APPLICABLE
 Time Sampled: NOT APPLICABLE
 Sample Type: WATER

PARAMETER	MEASURED VALUE	DATE ANALYZED
MISCELLANEOUS:		
Data File Number-Volatiles	0414941010	
VOLATILE ORGANIC COMPOUNDS:		
Benzene	<2 $\mu\text{g}/\text{l}$	04/14/94
Bromobenzene	<1 $\mu\text{g}/\text{l}$	04/14/94
Bromochloromethane	<1 $\mu\text{g}/\text{l}$	04/14/94
Bromodichloromethane	<1 $\mu\text{g}/\text{l}$	04/14/94
Bromoform	<1 $\mu\text{g}/\text{l}$	04/14/94
Bromomethane	<2 $\mu\text{g}/\text{l}$	04/14/94
n-Butylbenzene	<1 $\mu\text{g}/\text{l}$	04/14/94
sec-Butylbenzene	<1 $\mu\text{g}/\text{l}$	04/14/94
t-Butylbenzene	<1 $\mu\text{g}/\text{l}$	04/14/94
Carbon Tetrachloride	<2 $\mu\text{g}/\text{l}$	04/14/94
Chlorobenzene	<1 $\mu\text{g}/\text{l}$	04/14/94
Chloroethane	<1 $\mu\text{g}/\text{l}$	04/14/94
Chloroform	<1 $\mu\text{g}/\text{l}$	04/14/94
Chloromethane	<1 $\mu\text{g}/\text{l}$	04/14/94
2-Chlorotoluene	<1 $\mu\text{g}/\text{l}$	04/14/94
4-Chlorotoluene	<1 $\mu\text{g}/\text{l}$	04/14/94
Dibromochloromethane	<1 $\mu\text{g}/\text{l}$	04/14/94
1,2-Dibromo-3-chloropropane	<5 $\mu\text{g}/\text{l}$	04/14/94
1,2-Dibromoethane	<1 $\mu\text{g}/\text{l}$	04/14/94
Dibromomethane	<2 $\mu\text{g}/\text{l}$	04/14/94
1,2-Dichlorobenzene	<1 $\mu\text{g}/\text{l}$	04/14/94
1,3-Dichlorobenzene	<1 $\mu\text{g}/\text{l}$	04/14/94
1,4-Dichlorobenzene	<1 $\mu\text{g}/\text{l}$	04/14/94
Dichlorodifluoromethane	<1 $\mu\text{g}/\text{l}$	04/14/94
1,1-Dichloroethane	<1 $\mu\text{g}/\text{l}$	04/14/94
1,2-Dichloroethane	<2 $\mu\text{g}/\text{l}$	04/14/94
Cis-1,2-Dichloroethene	4 $\mu\text{g}/\text{l}$	04/14/94
1,1-Dichloroethene	<1 $\mu\text{g}/\text{l}$	04/14/94
Trans-1,2-Dichloroethene	<1 $\mu\text{g}/\text{l}$	04/14/94
1,2-Dichloropropane	<1 $\mu\text{g}/\text{l}$	04/14/94
1,3-Dichloropropane	<1 $\mu\text{g}/\text{l}$	04/14/94
2,2-Dichloropropane	<8 $\mu\text{g}/\text{l}$	04/14/94
1,1-Dichloropropene	<1 $\mu\text{g}/\text{l}$	04/14/94

This document was part of the official
 Administrative Record for the Yakima
 Railroad Area on October 31, 1996.
 Washington State
 Department of Ecology.

Client Name: HUNTINGDON - TRI-CITIES WA
 Project No.: 87-921
 Sample Name: LABORATORY BLANK 4-14-94
 Sample Date: NOT APPLICABLE
 Collected by: NOT APPLICABLE
 Time Sampled: NOT APPLICABLE
 Sample Type: WATER

PARAMETER	MEASURED VALUE		DATE ANALYZED
Ethylbenzene	<1	µg/l	04/14/94
Hexachlorobutadiene	<2	µg/l	04/14/94
Isopropylbenzene	<1	µg/l	04/14/94
Isopropyltoluene	<1	µg/l	04/14/94
Methylene chloride	<5	µg/l	04/14/94
Naphthalene	<1	µg/l	04/14/94
n-Propylbenzene	<1	µg/l	04/14/94
Styrene	<1	µg/l	04/14/94
1,1,1,2-Tetrachloroethane	<1	µg/l	04/14/94
1,1,2,2-Tetrachloroethane	<1	µg/l	04/14/94
Tetrachloroethene	<1	µg/l	04/14/94
Toluene	<1	µg/l	04/14/94
1,2,3-Trichlorobenzene	<1	µg/l	04/14/94
1,2,4-Trichlorobenzene	<1	µg/l	04/14/94
1,1,1-Trichloroethane	<1	µg/l	04/14/94
1,1,2-Trichloroethane	<1	µg/l	04/14/94
Trichloroethene	<1	µg/l	04/14/94
Trichlorofluoromethane	<1	µg/l	04/14/94
1,2,3-Trichloropropane	<1	µg/l	04/14/94
1,2,4-Trimethylbenzene	<1	µg/l	04/14/94
1,3,5-Trimethylbenzene	<1	µg/l	04/14/94
Vinyl chloride	<1	µg/l	04/14/94
Total xylenes	<1	µg/l	04/14/94
SURROGATE SPIKE RECOVERY:			
1,2-Dichloroethane-d4	106	%	04/14/94
Toluene-d8	111	%	04/14/94
4-Bromofluorobenzene	98	%	04/14/94

This document was part of the official
 Administrative Record for the Yakima
 Railroad Area on October 31, 1996.
 Washington State
 Department of Ecology.

Client Name: HUNTINGDON - TRI-CITIES WA
 Project No.: 87-921
 Sample Name: LABORATORY BLANK 4-15-94
 Sample Date: NOT APPLICABLE
 Collected by: NOT APPLICABLE
 Time Sampled: NOT APPLICABLE
 Sample Type: WATER

PARAMETER	MEASURED VALUE	DATE ANALYZED
MISCELLANEOUS:		
Data File Number-Volatiles	0415941009	
VOLATILE ORGANIC COMPOUNDS:		
Benzene	<2 $\mu\text{g}/\text{l}$	04/15/94
Bromobenzene	<1 $\mu\text{g}/\text{l}$	04/15/94
Bromochloromethane	<1 $\mu\text{g}/\text{l}$	04/15/94
Bromodichloromethane	<1 $\mu\text{g}/\text{l}$	04/15/94
Bromoform	<1 $\mu\text{g}/\text{l}$	04/15/94
Bromomethane	<2 $\mu\text{g}/\text{l}$	04/15/94
n-Butylbenzene	<1 $\mu\text{g}/\text{l}$	04/15/94
sec-Butylbenzene	<1 $\mu\text{g}/\text{l}$	04/15/94
t-Butylbenzene	<1 $\mu\text{g}/\text{l}$	04/15/94
Carbon Tetrachloride	<2 $\mu\text{g}/\text{l}$	04/15/94
Chlorobenzene	<1 $\mu\text{g}/\text{l}$	04/15/94
Chloroethane	<1 $\mu\text{g}/\text{l}$	04/15/94
Chloroform	<1 $\mu\text{g}/\text{l}$	04/15/94
Chloromethane	<1 $\mu\text{g}/\text{l}$	04/15/94
2-Chlorotoluene	<1 $\mu\text{g}/\text{l}$	04/15/94
4-Chlorotoluene	<1 $\mu\text{g}/\text{l}$	04/15/94
Dibromochloromethane	<1 $\mu\text{g}/\text{l}$	04/15/94
1,2-Dibromo-3-chloropropane	<5 $\mu\text{g}/\text{l}$	04/15/94
1,2-Dibromoethane	<1 $\mu\text{g}/\text{l}$	04/15/94
Dibromomethane	<2 $\mu\text{g}/\text{l}$	04/15/94
1,2-Dichlorobenzene	<1 $\mu\text{g}/\text{l}$	04/15/94
1,3-Dichlorobenzene	<1 $\mu\text{g}/\text{l}$	04/15/94
1,4-Dichlorobenzene	<1 $\mu\text{g}/\text{l}$	04/15/94
Dichlorodifluoromethane	<1 $\mu\text{g}/\text{l}$	04/15/94
1,1-Dichloroethane	<1 $\mu\text{g}/\text{l}$	04/15/94
1,2-Dichloroethane	<2 $\mu\text{g}/\text{l}$	04/15/94
Cis-1,2-Dichloroethene	<1 $\mu\text{g}/\text{l}$	04/15/94
1,1-Dichloroethene	<1 $\mu\text{g}/\text{l}$	04/15/94
Trans-1,2-Dichloroethene	<1 $\mu\text{g}/\text{l}$	04/15/94
1,2-Dichloropropane	<1 $\mu\text{g}/\text{l}$	04/15/94
1,3-Dichloropropane	<1 $\mu\text{g}/\text{l}$	04/15/94
2,2-Dichloropropane	<8 $\mu\text{g}/\text{l}$	04/15/94
1,1-Dichloropropene	<1 $\mu\text{g}/\text{l}$	04/15/94

Client Name: HUNTINGDON - TRI-CITIES WA
 Project No.: 87-921
 Sample Name: LABORATORY BLANK 4-15-94
 Sample Date: NOT APPLICABLE
 Collected by: NOT APPLICABLE
 Time Sampled: NOT APPLICABLE
 Sample Type: WATER

Page 13

PARAMETER	MEASURED VALUE		DATE ANALYZED
Ethylbenzene	<1	µg/l	04/15/94
Hexachlorobutadiene	<2	µg/l	04/15/94
Isopropylbenzene	<1	µg/l	04/15/94
Isopropyltoluene	<1	µg/l	04/15/94
Methylene chloride	7	µg/l	04/15/94
Naphthalene	<1	µg/l	04/15/94
n-Propylbenzene	<1	µg/l	04/15/94
Styrene	<1	µg/l	04/15/94
1,1,1,2-Tetrachloroethane	<1	µg/l	04/15/94
1,1,2,2-Tetrachloroethane	<1	µg/l	04/15/94
Tetrachloroethene	<1	µg/l	04/15/94
Toluene	<1	µg/l	04/15/94
1,2,3-Trichlorobenzene	<1	µg/l	04/15/94
1,2,4-Trichlorobenzene	<1	µg/l	04/15/94
1,1,1-Trichloroethane	<1	µg/l	04/15/94
1,1,2-Trichloroethane	<1	µg/l	04/15/94
Trichloroethene	<1	µg/l	04/15/94
Trichlorofluoromethane	<1	µg/l	04/15/94
1,2,3-Trichloropropane	<1	µg/l	04/15/94
1,2,4-Trimethylbenzene	<1	µg/l	04/15/94
1,3,5-Trimethylbenzene	<1	µg/l	04/15/94
Vinyl chloride	<1	µg/l	04/15/94
Total xylenes	<1	µg/l	04/15/94
SURROGATE SPIKE RECOVERY:			
1,2-Dichloroethane-d4	118	%	04/15/94
Toluene-d8	117	%	04/15/94
4-Bromofluorobenzene	97	%	04/15/94

This document was part of the official
 Administrative Record for the Yakima
 Railroad Area on October 31, 1996.
 Washington State
 Department of Ecology.

Client Name: HUNTINGDON - TRI-CITIES, WA
 Project No.: 87-921
 Laboratory No.: 150586
 Sample Name: 41194320PMW2
 Sample Date: 04/11/94
 Collected by: JUSTIN BOLLES
 Time Sampled: 1520
 Sample Type: WATER

PARAMETER	MEASURED VALUE	DATE ANALYZED
8260		
Benzene	<2 $\mu\text{g}/\text{l}$	04/14/94
Bromobenzene	<1 $\mu\text{g}/\text{l}$	04/14/94
Bromochloromethane	<1 $\mu\text{g}/\text{l}$	04/14/94
Bromodichloromethane	<1 $\mu\text{g}/\text{l}$	04/14/94
Bromoform	<1 $\mu\text{g}/\text{l}$	04/14/94
Bromomethane	<2 $\mu\text{g}/\text{l}$	04/14/94
n-Butylbenzene	<1 $\mu\text{g}/\text{l}$	04/14/94
sec-Butylbenzene	<1 $\mu\text{g}/\text{l}$	04/14/94
t-Butylbenzene	<1 $\mu\text{g}/\text{l}$	04/14/94
Carbon Tetrachloride	<2 $\mu\text{g}/\text{l}$	04/14/94
Chlorobenzene	<1 $\mu\text{g}/\text{l}$	04/14/94
Chloroethane	<1 $\mu\text{g}/\text{l}$	04/14/94
Chloroform	19 $\mu\text{g}/\text{l}$	04/14/94
Chloromethane	<1 $\mu\text{g}/\text{l}$	04/14/94
2-Chlorotoluene	<1 $\mu\text{g}/\text{l}$	04/14/94
4-Chlorotoluene	<1 $\mu\text{g}/\text{l}$	04/14/94
Dibromochloromethane	<1 $\mu\text{g}/\text{l}$	04/14/94
1,2-Dibromo-3-chloropropane	<5 $\mu\text{g}/\text{l}$	04/14/94
1,2-Dibromoethane	<1 $\mu\text{g}/\text{l}$	04/14/94
Dibromomethane	<2 $\mu\text{g}/\text{l}$	04/14/94
1,2-Dichlorobenzene	<1 $\mu\text{g}/\text{l}$	04/14/94
1,3-Dichlorobenzene	<1 $\mu\text{g}/\text{l}$	04/14/94
1,4-Dichlorobenzene	<1 $\mu\text{g}/\text{l}$	04/14/94
Dichlorodifluoromethane	<1 $\mu\text{g}/\text{l}$	04/14/94
1,1-Dichloroethane	<1 $\mu\text{g}/\text{l}$	04/14/94
1,2-Dichloroethane	<2 $\mu\text{g}/\text{l}$	04/14/94
1,1-Dichloroethene	<1 $\mu\text{g}/\text{l}$	04/14/94
c-1,2-Dichloroethene	<1 $\mu\text{g}/\text{l}$	04/14/94
t-1,2-Dichloroethene	<1 $\mu\text{g}/\text{l}$	04/14/94
1,2-Dichloropropane	<1 $\mu\text{g}/\text{l}$	04/14/94
1,3-Dichloropropane	<1 $\mu\text{g}/\text{l}$	04/14/94
2,2-Dichloropropane	<8 $\mu\text{g}/\text{l}$	04/14/94
1,1-Dichloropropene	<1 $\mu\text{g}/\text{l}$	04/14/94
Ethylbenzene	<1 $\mu\text{g}/\text{l}$	04/14/94
Hexachlorobutadiene	<2 $\mu\text{g}/\text{l}$	04/14/94
Isopropylbenzene	<1 $\mu\text{g}/\text{l}$	04/14/94
Isopropyltoluene	<1 $\mu\text{g}/\text{l}$	04/14/94

Client Name: HUNTINGDON - TRI-CITIES, WA
 Project No.: 87-921
 Laboratory No.: 150586
 Sample Name: 41194320PMW2
 Sample Date: 04/11/94
 Collected by: JUSTIN BOLLES
 Time Sampled: 1520
 Sample Type: WATER

PARAMETER	MEASURED VALUE		DATE ANALYZED
Methylene chloride	<5	µg/l	04/14/94
Naphthalene	<1	µg/l	04/14/94
n-Propylbenzene	<1	µg/l	04/14/94
Styrene	<1	µg/l	04/14/94
1,1,1,2-Tetrachloroethane	<1	µg/l	04/14/94
1,1,2,2-Tetrachloroethane	<1	µg/l	04/14/94
Tetrachloroethene	46	µg/l	04/14/94
Toluene	<1	µg/l	04/14/94
1,2,3-Trichlorobenzene	<1	µg/l	04/14/94
1,2,4-Trichlorobenzene	<1	µg/l	04/14/94
1,1,1-Trichloroethane	<1	µg/l	04/14/94
1,1,2-Trichloroethane	<1	µg/l	04/14/94
Trichloroethene	<1	µg/l	04/14/94
Trichlorofluoromethane	<1	µg/l	04/14/94
1,2,3-Trichloropropane	<1	µg/l	04/14/94
1,2,4-Trimethylbenzene	<1	µg/l	04/14/94
1,3,5-Trimethylbenzene	<1	µg/l	04/14/94
Vinyl chloride	<1	µg/l	04/14/94
Total xylenes	<1	µg/l	04/14/94
8270			
Acenaphthene (SV)	<20	µg/l	04/14/94
Acenaphthylene (SV)	<20	µg/l	04/14/94
Anthracene (SV)	<20	µg/l	04/14/94
Benzo[a]anthracene (SV)	<20	µg/l	04/14/94
Benzo[b]fluoranthene (SV)	<20	µg/l	04/14/94
Benzo[k]fluoranthene (SV)	<20	µg/l	04/14/94
Benzoic acid (SV)	<100	µg/l	04/14/94
Benzo[g,h,i]perylene (SV)	<20	µg/l	04/14/94
Benzo[a]pyrene (SV)	<20	µg/l	04/14/94
Benzyl alcohol (SV)	<40	µg/l	04/14/94
Bis(2-chloroethoxy)methane (SV)	<20	µg/l	04/14/94
Bis(2-chloroethyl)ether (SV)	<20	µg/l	04/14/94
Bis(2-chloroisopropyl)ether (SV)	<20	µg/l	04/14/94
Bis(2-ethylhexyl)phthalate (SV)	<20	µg/l	04/14/94
4-bromophenyl phenyl ether (SV)	<20	µg/l	04/14/94
Butylbenzylphthalate (SV)	<20	µg/l	04/14/94
Carbazole (SV)	<20	µg/l	04/14/94
4-Chloroaniline (SV)	<40	µg/l	04/14/94
4-Chloro-3-methylphenol (SV)	<40	µg/l	04/14/94

Client Name: HUNTINGDON - TRI-CITIES, WA
 Project No.: 87-921
 Laboratory No.: 150586
 Sample Name: 41194320PMW2
 Sample Date: 04/11/94
 Collected by: JUSTIN BOLLES
 Time Sampled: 1520
 Sample Type: WATER

PARAMETER	MEASURED VALUE	DATE ANALYZED
2-Chloronaphthalene (SV)	<20 µg/l	04/14/94
2-Chlorophenol (SV)	<20 µg/l	04/14/94
4-Chlorophenyl phenyl ether (SV)	<20 µg/l	04/14/94
Chrysene (SV)	<20 µg/l	04/14/94
Dibenzo[a,h]anthracene (SV)	<20 µg/l	04/14/94
Dibenzofuran (SV)	<20 µg/l	04/14/94
Diethylphthalate (SV)	<20 µg/l	04/14/94
1,2-Dichlorobenzene (SV)	<20 µg/l	04/14/94
1,3-Dichlorobenzene (SV)	<20 µg/l	04/14/94
1,4-Dichlorobenzene (SV)	<20 µg/l	04/14/94
3,3'-Dichlorobenzidine (SV)	<40 µg/l	04/14/94
2,4-Dichlorophenol (SV)	<20 µg/l	04/14/94
2,4-Dinitrotoluene (SV)	<20 µg/l	04/14/94
2,4-Dimethylphenol (SV)	<20 µg/l	04/14/94
Dimethylphthalate (SV)	<20 µg/l	04/14/94
4,6-Dinitro-2-methylphenol (SV)	<100 µg/l	04/14/94
2,4-Dinitrophenol (SV)	<100 µg/l	04/14/94
Di-n-Butylphthalate (SV)	<20 µg/l	04/14/94
2,6-Dinitrotoluene (SV)	<20 µg/l	04/14/94
Di-n-octylphthalate (SV)	<20 µg/l	04/14/94
Fluoranthene (SV)	<20 µg/l	04/14/94
Fluorene (SV)	<20 µg/l	04/14/94
Hexachlorobenzene (SV)	<20 µg/l	04/14/94
Hexachlorobutadiene (SV)	<20 µg/l	04/14/94
Hexachlorocyclopentadiene (SV)	<20 µg/l	04/14/94
Hexachloroethane (SV)	<20 µg/l	04/14/94
Indeno(1,2,3-c,d)pyrene (SV)	<20 µg/l	04/14/94
Isophorone (SV)	<20 µg/l	04/14/94
2-Methylnaphthalene (SV)	<20 µg/l	04/14/94
2-Methylphenol o-cresol (SV)	<20 µg/l	04/14/94
4-Methylphenol p-cresol (SV)	<20 µg/l	04/14/94
Naphthalene (SV)	<20 µg/l	04/14/94
2-Nitroaniline (SV)	<100 µg/l	04/14/94
3-Nitroaniline (SV)	<100 µg/l	04/14/94
4-Nitroaniline (SV)	<40 µg/l	04/14/94
Nitrobenzene (SV)	<20 µg/l	04/14/94
2-Nitrophenol (SV)	<20 µg/l	04/14/94
4-Nitrophenol (SV)	<100 µg/l	04/14/94
N-Nitrosodimethylamine (SV)	<40 µg/l	04/14/94
N-Nitrosodiphenylamine (SV)	<20 µg/l	04/14/94

Client Name: HUNTINGDON - TRI-CITIES, WA
 Project No.: 87-921
 Laboratory No.: 150586
 Sample Name: 41194320PMW2
 Sample Date: 04/11/94
 Collected by: JUSTIN BOLLES
 Time Sampled: 1520
 Sample Type: WATER

PARAMETER	MEASURED VALUE		DATE ANALYZED
N-Nitrosodi-n-propyl amine (SV)	<20	µg/l	04/14/94
Pentachlorophenol (SV)	<100	µg/l	04/14/94
Phenanthrene (SV)	<20	µg/l	04/14/94
Phenol (SV)	<20	µg/l	04/14/94
Pyrene (SV)	<20	µg/l	04/14/94
Pyridine (SV)	<20	µg/l	04/14/94
1,2,4-Trichlorobenzene (SV)	<20	µg/l	04/14/94
2,4,5-Trichlorophenol (SV)	<20	µg/l	04/14/94
2,4,6-Trichlorophenol (SV)	<20	µg/l	04/14/94
MISCELLANEOUS			
Data File Number-Semivolatiles	0414941004		
Data File Number-Volatiles	0414941004		
SEMIVOLATILE SURROGATE SPIKE RECOVERY			
2-Fluorophenol	58	%	04/14/94
Phenol-d6	41	%	04/14/94
Nitrobenzene-d5	63	%	04/14/94
2-Fluorobiphenyl	62	%	04/14/94
2,4,6-Tribromophenol	54	%	04/14/94
Terphenyl-d14	74	%	04/14/94
VOLATILE SURROGATE SPIKE RECOVERY			
1,2-Dichloroethane-d4	99	%	04/14/94
Toluene-d8	105	%	04/14/94
4-Bromofluorobenzene	96	%	04/14/94

This document was part of the official
 Administrative Record for the Yakima
 Railroad Area on October 31, 1996.
 Washington State
 Department of Ecology.

Client Name: HUNTINGDON - TRI-CITIES, WA
Project No.: 87-921
Laboratory No.: 151814
Sample Name: #52494250PMW1
Sample Date: 05/24/94
Collected by: JUSTIN BOLLES
Time Sampled: 1450
Sample Type: WATER

Page 2

PARAMETER	MEASURED VALUE	DATE ANALYZED
MISCELLANEOUS		
Data File Number-Volatiles	0527941006	
VOLATILE ORGANIC COMPOUNDS		
Chloroform	12 $\mu\text{g/l}$	05/27/94
Tetrachloroethene	12 $\mu\text{g/l}$	05/27/94
VOLATILE SURROGATE SPIKE RECOVERY		
1,2-Dichloroethane-d4 (Surrogate)	114 %	05/27/94
Toluene-d8 (Surrogate)	102 %	05/27/94
4-Bromofluorobenzene (Surrogate)	101 %	05/27/94

This document was part of the official
Administrative Record for the Yakima
Railroad Area on October 31, 1996.
Washington State
Department of Ecology.

Client Name: HUNTINGDON - TRI-CITIES, WA
 Project No.: 87-921
 Laboratory No.: 151816
 Sample Name: 52494330PJB1
 Sample Date: 05/24/94
 Collected by: JUSTIN BOLLES
 Time Sampled: 1530
 Sample Type: WATER

PARAMETER	MEASURED VALUE	DATE ANALYZED
MISCELLANEOUS		
Data File Number-Volatiles	0527941010	
VOLATILE ORGANIC COMPOUNDS		
Chloroform	12	05/27/94
Tetrachloroethene	16	05/27/94
VOLATILE SURROGATE SPIKE RECOVERY		
1,2-Dichloroethane-d4 (Surrogate)	120 %	05/27/94
Toluene-d8 (Surrogate)	116 %	05/27/94
4-Bromofluorobenzene (Surrogate)	110 %	05/27/94

This document was part of the official
 Administrative Record for the Yakima
 Railroad Area on October 31, 1996.
 Washington State
 Department of Ecology.

Client Name: HUNTINGDON - TRI-CITIES, WA
Project No.: 87-921
Laboratory No.: 151817
Sample Name: 52494350PLW4
Sample Date: 05/24/94
Collected by: JUSTIN BOLLES
Time Sampled: 1550
Sample Type: WATER

Page 5

PARAMETER	MEASURED VALUE	DATE ANALYZED
MISCELLANEOUS		
Data File Number-Volatiles	0527941011	
VOLATILE ORGANIC COMPOUNDS		
Chloroform	13 $\mu\text{g}/\text{l}$	05/27/94
Tetrachloroethene	<0.5 $\mu\text{g}/\text{l}$	05/27/94
VOLATILE SURROGATE SPIKE RECOVERY		
1,2-Dichloroethane-d4 (Surrogate)	118 %	05/27/94
Toluene-d8 (Surrogate)	108 %	05/27/94
4-Bromofluorobenzene (Surrogate)	102 %	05/27/94

This document was part of the official
Administrative Record for the Yakima
Railroad Area on October 31, 1996.
Washington State
Department of Ecology.

Client Name: HUNTINGDON - TRI-CITIES, WA
 Project No.: 87-921
 Laboratory No.: 151818
 Sample Name: 52494415PLW3
 Sample Date: 05/24/94
 Collected by: JUSTIN BOLLES
 Time Sampled: 1615
 Sample Type: WATER

PARAMETER	MEASURED VALUE	DATE ANALYZED
MISCELLANEOUS		
Data File Number-Volatiles	0527941004	
VOLATILE ORGANIC COMPOUNDS		
Chloroform	15 $\mu\text{g/l}$	05/27/94
Tetrachloroethene	<0.5 $\mu\text{g/l}$	05/27/94
VOLATILE SURROGATE SPIKE RECOVERY		
1,2-Dichloroethane-d4 (Surrogate)	113 %	05/27/94
Toluene-d8 (Surrogate)	99 %	05/27/94
4-Bromofluorobenzene (Surrogate)	100 %	05/27/94

Client Name: HUNTINGDON - TRI-CITIES, WA
Project No.: 87-921
Laboratory No.: 151819
Sample Name: 52494430PLW1
Sample Date: 05/24/94
Collected by: JUSTIN BOLLES
Time Sampled: 1630
Sample Type: WATER

Page 7

PARAMETER	MEASURED VALUE	DATE ANALYZED
MISCELLANEOUS		
Data File Number-Volatiles	0527941012	
VOLATILE ORGANIC COMPOUNDS		
Chloroform	14 $\mu\text{g/l}$	05/27/94
Tetrachloroethene	<0.5 $\mu\text{g/l}$	05/27/94
VOLATILE SURROGATE SPIKE RECOVERY		
1,2-Dichloroethane-d4 (Surrogate)	112 %	05/27/94
Toluene-d8 (Surrogate)	107 %	05/27/94
4-Bromofluorobenzene (Surrogate)	100 %	05/27/94

This document was part of the official
Administrative Record for the Yakima
Railroad Area on October 31, 1996.
Washington State
Department of Ecology.

Client Name: HUNTINGDON - TRI-CITIES, WA
 Project No.: 87-921
 Laboratory No.: 151820
 Sample Name: TRIP BLANK
 Sample Date: 05/24/94
 Collected by: JUSTIN BOLLES
 Time Sampled: NONE GIVEN
 Sample Type: WATER

PARAMETER	MEASURED VALUE	DATE ANALYZED
MISCELLANEOUS		
Data File Number-Volatiles	0527941013	
VOLATILE ORGANIC COMPOUNDS		
Chloroform	<1 $\mu\text{g}/\text{l}$	05/27/94
Tetrachloroethene	<0.5 $\mu\text{g}/\text{l}$	05/27/94
VOLATILE SURROGATE SPIKE RECOVERY		
1,2-Dichloroethane-d4 (Surrogate)	105 %	05/27/94
Toluene-d8 (Surrogate)	103 %	05/27/94
4-Bromofluorobenzene (Surrogate)	101 %	05/27/94

This document was part of the official
 Administrative Record for the Yakima
 Railroad Area on October 31, 1996.
 Washington State
 Department of Ecology.

Client Name: HUNTINGDON - TRI-CITIES, WA
Project No.: 87-921
Laboratory No.: 151821
Sample Name: DUPLICATE 151814 #52494250PMW1
Sample Date: 05/24/94
Collected by: JUSTIN BOLLES
Time Sampled: 1450
Sample Type: WATER

Page 9

PARAMETER	MEASURED VALUE		DATE ANALYZED
MISCELLANEOUS			
Data File Number-Volatiles	0527941008		
VOLATILE ORGANIC COMPOUNDS			
Chloroform	13	$\mu\text{g/l}$	05/27/94
Tetrachloroethene	15	$\mu\text{g/l}$	05/27/94
VOLATILE SURROGATE SPIKE RECOVERY			
1,2-Dichloroethane-d4 (Surrogate)	112	%	05/27/94
Toluene-d8 (Surrogate)	101	%	05/27/94
4-Bromofluorobenzene (Surrogate)	102	%	05/27/94

This document was part of the official
Administrative Record for the Yakima
Railroad Area on October 31, 1996.
Washington State
Department of Ecology.

Client Name: HUNTINGDON - TRI-CITIES, WA
Project No.: 87-921
Laboratory No.: 151822
Sample Name: SPIKE 151818 52494415PLW1
Sample Date: 05/24/94
Collected by: JUSTIN BOLLES
Time Sampled: 1615
Sample Type: WATER

Page 10

PARAMETER	MEASURED VALUE	METHOD CODE	DATE ANALYZED
MISCELLANEOUS			
Data File Number-Volatiles	0527941007		
VOLATILE ORGANIC COMPOUNDS			
Chloroform	94	%	05/27/94
Tetrachloroethene	104	%	05/27/94
VOLATILE SURROGATE SPIKE RECOVERY			
1,2-Dichloroethane-d4 (Surrogate)	115	%	05/27/94
Toluene-d8 (Surrogate)	106	%	05/27/94
4-Bromofluorobenzene (Surrogate)	106	%	05/27/94

Client Name: HUNTINGDON BOISE, ID
Project No.: 87-921
Sample Name: LABORATORY BLANK 5-27-94
Sample Date: NOT APPLICABLE
Collected by: NOT APPLICABLE
Time Sampled: NOT APPLICABLE
Sample Type: WATER

Page 11

PARAMETER	MEASURED VALUE	DATE ANALYZED
MISCELLANEOUS:		
Data File Number-Volatiles	0527941005	
VOLATILE ORGANIC COMPOUNDS:		
Chloroform	<1 $\mu\text{g}/\text{l}$	05/27/94
Tetrachloroethene	<0.5 $\mu\text{g}/\text{l}$	05/27/94
SURROGATE SPIKE RECOVERY:		
1,2-Dichloroethane-d4	109 %	05/27/94
Toluene-d8	96 %	05/27/94
4-Bromofluorobenzene	96 %	05/27/94

TRANSGLOBAL ENVIRONMENTAL GEOSCIENCES NORTHWEST INC.

GOODWILL SITE PROJECT
 Yakima, Washington
 Huntingdon Engineering & Environmental, Inc.
 Project #: 1-94-1969-1

Specific Halogenated Hydrocarbons (EPA Method 8010) in Water

Sample-Number	MDL	Method Blank	MW-1	MW-2	MW-2 Dup	LW-3
Date Analyzed	(ug/l)	12/07/94 ug/l	12/07/94 ug/l	12/07/94 ug/l	12/07/94 ug/l	12/07/94 ug/l
Bromodichloromethane	1	nd	nd	nd	nd	nd
Bromoform	1	nd	nd	nd	nd	nd
Bromomethane	1	nd	nd	nd	nd	nd
Chloromethane	1	nd	nd	nd	nd	nd
2-Chloroethyl vinyl ether	1	nd	nd	nd	nd	nd
Chloroethane	1	nd	nd	nd	nd	nd
Dibromochloromethane	1	nd	nd	nd	nd	nd
Dibromomethane	1	nd	nd	nd	nd	nd
1,1 Dichloroethane	1	nd	nd	nd	nd	nd
Vinyl chloride	1	nd	nd	nd	nd	nd
Methylene Chloride	1	nd	nd	nd	nd	nd
Trans 1,2 Dichloroethene	1	nd	nd	nd	nd	nd
Cis 1,2 Dichloroethene	1	nd	nd	nd	nd	nd
Trichloroethene	1	nd	nd	nd	nd	nd
1,2 Dichloropropane	1	nd	nd	nd	nd	nd
Cis Dichloropropene	1	nd	nd	nd	nd	nd
Trans Dichloropropene	1	nd	nd	nd	nd	nd
Tetrachlorethene	1	nd	5.6	8.3	9.9	nd
1,3 Dichlorobenzene	1	nd	nd	nd	nd	nd
1,4 Dichlorobenzene	1	nd	nd	nd	nd	nd
1,2 Dichlorobenzene	1	nd	nd	nd	nd	nd
1,1 Dichloroethane	1	nd	nd	nd	nd	nd
1,2 Dichloroethane	1	nd	nd	nd	nd	nd
Chloroform	1	nd	nd	nd	nd	nd
Tetrachloromethane	1	nd	nd	nd	nd	nd
1,1,1 Trichloroethane	1	nd	nd	nd	nd	nd
1,1,2 Trichloroethane	1	nd	nd	nd	nd	nd
Tetrachloroethane	1	nd	nd	nd	nd	nd

"nd" Indicates Not Detected at the listed detection limit.
 "int" Indicates that interference peaks prevent determination.

This document was part of the official
 Administrative Record for the Yakima
 Railroad Area on October 31, 1996.
 Washington State
 Department of Ecology.

GOODWILL PROJECT
 Yakima, Washington
 Huntingdon Engineering & Environmental, Inc.
 Project No.: 194-1969-1

Specific Halogenated Hydrocarbons (EPA 601) in Waters

Sample Depth (ft)	MDL	Method Blank	LW-3	MW-1	MW-1	MW-2
DATE	(ug/l)	10/25/94	10/25/94	10/25/94	10/25/94	10/25/94
Bromodichloromethane	1	nd	nd	nd	nd	nd
Bromoform	1	nd	nd	nd	nd	nd
Bromomethane	1	nd	nd	nd	nd	nd
Chloromethane	1	nd	nd	nd	nd	nd
2-Chloroethyl vinyl ether	1	nd	nd	nd	nd	nd
Chloroethane	1	nd	nd	nd	nd	nd
Dibromochloromethane	1	nd	nd	nd	nd	nd
Dibromomethane	1	nd	nd	nd	nd	nd
1,1 Dichloroeth	1	nd	nd	nd	nd	nd
Vinyl Chloride	1	nd	nd	nd	nd	nd
Methylene Chloride	1	nd	nd	nd	nd	nd
Trans-1,2 Dichloroethene	1	nd	nd	nd	nd	nd
Cis-1,2 Dichloroethene	1	nd	nd	nd	nd	nd
Trichloroethene	1	nd	nd	nd	nd	nd
1,2-Dicloropropane	1	nd	nd	nd	nd	nd
Cis-Dichloropropene	1	nd	nd	nd	nd	nd
Trans-Dichloropropene	1	nd	nd	nd	nd	nd
Tetrachloroethene	1	nd	nd	4	4	10
1,3 Dichlorobenzene	1	nd	nd	nd	nd	nd
1,4 Dichlorobenzene	1	nd	nd	nd	nd	nd
1,2 Dichlorobenzene	1	nd	nd	nd	nd	nd
1,1 Dichloroethane	1	nd	nd	nd	nd	nd
1,2 Dichloroethane	1	nd	nd	nd	nd	nd
Chloroform	1	nd	nd	nd	nd	nd
Carbon Tetrachloride	1	nd	nd	nd	nd	nd
1,1,1 Trichloroethane	1	nd	nd	nd	nd	nd
1,1,2 Trichloroethane	1	nd	nd	nd	nd	nd
Tetrachloroethane	1	nd	nd	nd	nd	nd
Spike Recovery		116	116	107	109	108

*

"nd" Indicates Not Detected at the listed MDL.
 "int" Indicates that Interference Peaks prevent determination.

This document was part of the official
 Administrative Record for the Yakima
 Railroad Area on October 31, 1996.
 Washington State
 Department of Ecology.

TRANSGLOBAL ENVIRONMENTAL GEOSCIENCES NORTHWEST INC.

GOODWILL PROJECT

Yakima, Washington

Huntingdon Engineering & Environmental, Inc.

Project No.: 87-921

Heavy Petroleum Hydrocarbons in waters by WTPH-418.1

Sample Number	Date	TPH ug/l
Meth. Blank	10/24/94	nd
LW-3	10/24/94	nd
MW-1	10/24/94	nd
MW-1 Dup.	10/24/94	nd
Method Detection Limit		250

"nd" indicates Not Detected at the listed detection limit.

This document was part of the official
Administrative Record for the Yakima
Railroad Area on October 31, 1996.
Washington State
Department of Ecology.

APPENDIX 4 - COREHOLE ANALYSIS BENEATH THE SUMP

This document was part of the official
Administrative Record for the Yakima
Railroad Area on October 31, 1996.
Washington State
Department of Ecology.

Client Name: HUNTINGDON - TRI-CITIES, WA
 Project No.: 87-921
 Laboratory No.: 154793
 Sample Name: SUMP
 Sample Date: 09/09/94
 Collected by: PAUL DANIELSON
 Time Sampled: 1400
 Sample Type: SOLID WASTE

Page 2

(1)

PARAMETER	MEASURED VALUE	METHOD NUMBER	DATE ANALYZED
EPA METHOD 8260			
Data File Number-Volatiles	0914941014	8260	
Benzene	<5	8260	09/14/94
Bromobenzene	<5	8260	09/14/94
Bromochloromethane	<5	8260	09/14/94
Bromodichloromethane	<5	8260	09/14/94
Bromoform	<5	8260	09/14/94
Bromomethane	<10	8260	09/14/94
n-Butylbenzene	<5	8260	09/14/94
sec-Butylbenzene	<5	8260	09/14/94
t-Butylbenzene	<5	8260	09/14/94
Carbon Tetrachloride	<10	8260	09/14/94
Chlorobenzene	<5	8260	09/14/94
Chloroethane	<5	8260	09/14/94
Chloroform	<5	8260	09/14/94
Chloromethane	<5	8260	09/14/94
2-Chlorotoluene	<5	8260	09/14/94
4-Chlorotoluene	<5	8260	09/14/94
Dibromochloromethane	<5	8260	09/14/94
1,2-Dibromo-3-chloropropane	<75	8260	09/14/94
1,2-Dibromoethane	<5	8260	09/14/94
Dibromomethane	<5	8260	09/14/94
1,2-Dichlorobenzene	<5	8260	09/14/94
1,3-Dichlorobenzene	<5	8260	09/14/94
1,4-Dichlorobenzene	<5	8260	09/14/94
Dichlorodifluoromethane	<5	8260	09/14/94
1,1-Dichloroethane	<5	8260	09/14/94
1,2-Dichloroethane	<5	8260	09/14/94
1,1-Dichloroethene	<5	8260	09/14/94
c-1,2-Dichloroethene	65	8260	09/14/94
t-1,2-Dichloroethene	<5	8260	09/14/94
1,2-Dichloropropane	<5	8260	09/14/94
1,3-Dichloropropane	<5	8260	09/14/94
2,2-Dichloropropane	<40	8260	09/14/94
1,1-Dichloropropene	<5	8260	09/14/94
Ethylbenzene	<5	8260	09/14/94
Hexachlorobutadiene	<10	8260	09/14/94
Isopropylbenzene	<5	8260	09/14/94
Isopropyltoluene	<5	8260	09/14/94
Methylene chloride	<25	8260	09/14/94
Naphthalene	<5	8260	09/14/94
n-Propylbenzene	<5	8260	09/14/94
Styrene	<5	8260	09/14/94

ug/kg

This document was part of the Official
 Administrative Record for the Yakima
 Railroad Area on October 31, 1996.
 Washington State
 Department of Ecology.

Client Name: HUNTINGDON - TRI-CITIES, WA
 Project No.: 87-921
 Laboratory No.: 154793
 Sample Name: SUMP
 Sample Date: 09/09/94
 Collected by: PAUL DANIELSON
 Time Sampled: 1400
 Sample Type: SOLID WASTE

Page 3

2

PARAMETER	MEASURED VALUE		METHOD NUMBER	DATE ANALYZED
1,1,1,2-Tetrachloroethane	<5	µg/Kg	8260	09/14/94
1,1,2,2-Tetrachloroethane	<5	µg/g	8260	09/14/94
Tetrachloroethene	24000	µg/g	8260	09/14/94
Toluene	<5	µg/g	8260	09/14/94
1,2,3-Trichlorobenzene	<5	µg/g	8260	09/14/94
1,2,4-Trichlorobenzene	<5	µg/g	8260	09/14/94
1,1,1-Trichloroethane	<5	µg/g	8260	09/14/94
1,1,2-Trichloroethane	<5	µg/g	8260	09/14/94
Trichloroethene	33	µg/g	8260	09/14/94
Trichlorofluoromethane	<5	µg/g	8260	09/14/94
1,2,3-Trichloropropane	64	µg/g	8260	09/14/94
1,2,4-Trimethylbenzene	<5	µg/g	8260	09/14/94
1,3,5-Trimethylbenzene	<5	µg/g	8260	09/14/94
Vinyl chloride	<5	µg/g	8260	09/14/94
Total xylenes	<5	µg/g	8260	09/14/94
1,2-Dichloroethane-d4 (Surrogate)	107	%	8260	09/14/94
Toluene-d8 (Surrogate)	81	%	8260	09/14/94
4-Bromofluorobenzene (Surrogate)	47	%	8260	09/14/94

EPA METHOD 8270

Data File Number-Semivolatiles	0913941007		8270	
Acenaphthene (SV)	<330	µg/Kg	8270	09/13/94
Acenaphthylene (SV)	<330	µg/g	8270	09/13/94
Anthracene (SV)	<330	µg/g	8270	09/13/94
Benzo[a]anthracene (SV)	<330	µg/g	8270	09/13/94
Benzo[b]fluoranthene (SV)	<330	µg/g	8270	09/13/94
Benzo[k]fluoranthene (SV)	<330	µg/g	8270	09/13/94
Benzoic acid (SV)	<1650	µg/g	8270	09/13/94
Benzo[g,h,i]perylene (SV)	<330	µg/g	8270	09/13/94
Benzo[a]pyrene (SV)	<330	µg/g	8270	09/13/94
Benzyl alcohol (SV)	<660	µg/g	8270	09/13/94
Bis(2-chloroethoxy)methane (SV)	<330	µg/g	8270	09/13/94
Bis(2-chloroethyl)ether (SV)	<330	µg/g	8270	09/13/94
Bis(2-chloroisopropyl)ether (SV)	<330	µg/g	8270	09/13/94
Bis(2-ethylhexyl)phthalate (SV)	<330 1300	µg/g	8270	09/13/94
4-bromophenyl phenyl ether (SV)	<330	µg/g	8270	09/13/94
Butylbenzylphthalate (SV)	<330	µg/g	8270	09/13/94
Carbazole (SV)	<330	µg/g	8270	09/13/94
4-Chloroaniline (SV)	<660	µg/g	8270	09/13/94
4-Chloro-3-methylphenol (SV)	<660	µg/g	8270	09/13/94
2-Chloronaphthalene (SV)	<330	µg/g	8270	09/13/94
2-Chlorophenol (SV)	<330	µg/g	8270	09/13/94
4-Chlorophenyl phenyl ether (SV)	<330	µg/g	8270	09/13/94
Chrysene (SV)	<330	µg/g	8270	09/13/94

This document was part of the official
 Administrative Record for the Yakima
 Railroad Area on October 31, 1996.
 Washington State
 Department of Ecology.

Client Name: HUNTINGDON - TRI-CITIES, WA
 Project No.: 87-921
 Laboratory No.: 154793
 Sample Name: SUMP
 Sample Date: 09/09/94
 Collected by: PAUL DANIELSON
 Time Sampled: 1400
 Sample Type: SOLID WASTE

Page 4

(3)

PARAMETER	MEASURED VALUE		METHOD NUMBER	DATE ANALYZED
Dibenzo[a,h]anthracene (SV)	<330	μg/kg	8270	09/13/94
Dibenzofuran (SV)	<330	μg/kg	8270	09/13/94
Diethylphthalate (SV) 496	<330	μg/kg	8270	09/13/94
1,2-Dichlorobenzene (SV)	<330	μg/kg	8270	09/13/94
1,3-Dichlorobenzene (SV)	<330	μg/kg	8270	09/13/94
1,4-Dichlorobenzene (SV)	<330	μg/kg	8270	09/13/94
3,3'-Dichlorobenzidine (SV)	<660	μg/kg	8270	09/13/94
2,4-Dichlorophenol (SV)	<330	μg/kg	8270	09/13/94
2,4-Dinitrotoluene (SV)	<330	μg/kg	8270	09/13/94
2,4-Dimethylphenol (SV)	<330	μg/kg	8270	09/13/94
Dimethylphthalate (SV)	<330	μg/kg	8270	09/13/94
4,6-Dinitro-2-methylphenol (SV)	<1650	μg/kg	8270	09/13/94
2,4-Dinitrophenol (SV)	<1650	μg/kg	8270	09/13/94
Di-n-Butylphthalate (SV)	<330	μg/kg	8270	09/13/94
2,6-Dinitrotoluene (SV)	<330	μg/kg	8270	09/13/94
Di-n-octylphthalate (SV)	<330	μg/kg	8270	09/13/94
Fluoranthene (SV)	<330	μg/kg	8270	09/13/94
Fluorene (SV)	<330	μg/kg	8270	09/13/94
Hexachlorobenzene (SV)	<330	μg/kg	8270	09/13/94
Hexachlorobutadiene (SV)	<330	μg/kg	8270	09/13/94
Hexachlorocyclopentadiene (SV)	<330	μg/kg	8270	09/13/94
Hexachloroethane (SV)	<330	μg/kg	8270	09/13/94
Indeno(1,2,3-c,d)pyrene (SV)	<330	μg/kg	8270	09/13/94
Isophorone (SV)	<330	μg/kg	8270	09/13/94
2-Methylnaphthalene (SV)	<330	μg/kg	8270	09/13/94
2-Methylphenol o-cresol (SV)	<330	μg/kg	8270	09/13/94
4-Methylphenol p-cresol (SV)	<330	μg/kg	8270	09/13/94
Naphthalene (SV)	<330	μg/kg	8270	09/13/94
2-Nitroaniline (SV)	<1650	μg/kg	8270	09/13/94
3-Nitroaniline (SV)	<1650	μg/kg	8270	09/13/94
4-Nitroaniline (SV)	<660	μg/kg	8270	09/13/94
Nitrobenzene (SV)	<330	μg/kg	8270	09/13/94
2-Nitrophenol (SV)	<330	μg/kg	8270	09/13/94
4-Nitrophenol (SV)	<1650	μg/kg	8270	09/13/94
N-Nitrosodimethylamine (SV)	<660	μg/kg	8270	09/13/94
N-Nitrosodiphenylamine (SV)	<330	μg/kg	8270	09/13/94
N-Nitrosodi-n-propyl amine (SV)	<330	μg/kg	8270	09/13/94
Pentachlorophenol (SV)	<1650	μg/kg	8270	09/13/94
Phenanthrene (SV)	<330	μg/kg	8270	09/13/94
Phenol (SV)	<330	μg/kg	8270	09/13/94
Pyrene (SV)	<330	μg/kg	8270	09/13/94
Pyridine (SV)	<330	μg/kg	8270	09/13/94
1,2,4-Trichlorobenzene (SV)	<330	μg/kg	8270	09/13/94
2,4,5-Trichlorophenol (SV)	<330	μg/kg	8270	09/13/94
2,4,6-Trichlorophenol (SV)	<330	μg/kg	8270	09/13/94

This document was part of the official
 Administrative Record for the Yakima
 Railroad Area on October 31, 1998
 Washington State
 Department of Ecology.

Client Name: HUNTINGDON - TRI-CITIES, WA
 Project No.: 87-921
 Laboratory No.: 154793
 Sample Name: SUMP
 Sample Date: 09/09/94
 Collected by: PAUL DANIELSON
 Time Sampled: 1400
 Sample Type: SOLID WASTE

4

PARAMETER	MEASURED VALUE		METHOD NUMBER	DATE ANALYZED
2-Fluorophenol (Surrogate)	30	%	8270	09/13/94
Phenol-d6 (Surrogate)	37	%	8270	09/13/94
Nitrobenzene-d5 (Surrogate)	43	%	8270	09/13/94
2-Fluorobiphenyl (Surrogate)	45	%	8270	09/13/94
2,4,6-Tribromophenol (Surrogate)	23	%	8270	09/13/94
Terphenyl-d14 (Surrogate)	42	%	8270	09/13/94
INORGANICS				
Moisture	18.7	%	2540G	09/21/94
MISCELLANEOUS				
Data File Number-TPH Gasoline	0			
Data File Number-TPH Diesel	092094028			
PETROLEUM HYDROCARBONS				
Petroleum Hydrocarbons as Diesel	390	mg/kg	DRO	09/20/94
Petroleum Hydrocarbons as Diesel	480	mg/kg	DRO	09/20/94
Recoverable Petroleum Hydrocarbon	490	mg/kg	418.1	09/16/94
Recoverable Petroleum Hydrocarbon	600	mg/kg	418.1	09/16/94
PETROLEUM HYDROCARBONS (8015)				
Petroleum Hydrocarbons as Gasoline	2.3	mg/kg	8015	09/20/94
Petroleum Hydrocarbons as Gasoline	2.8	mg/kg	8015	
TCLP METALS				
Arsenic as As	0.015	mg/l	7061	09/21/94
Barium as Ba	0.4	mg/l	6010	09/22/94
Cadmium as Cd	0.007	mg/l	6010	09/22/94
Chromium as Cr	<0.02	mg/l	6010	09/22/94
Lead as Pb	<0.05	mg/l	6010	09/22/94
Mercury as Hg	<0.0010	mg/l	7470	09/22/94
Selenium as Se	<0.02	mg/l	7741	09/23/94
Silver as Ag	<0.02	mg/l	6010	09/22/94

This document was part of the official Administrative Record for the Yakima Railroad Area on October 31, 1996. Washington State Department of Ecology.

APPENDIX 5 - UST REMOVAL REPORT

This document was part of the official
Administrative Record for the Yakima
Railroad Area on October 31, 1996.
Washington State
Department of Ecology.

**UNDERGROUND STORAGE TANK SITE ASSESSMENT
GOODWILL INDUSTRIES SITE
YAKIMA, WASHINGTON**

Prepared for

City of Yakima
c/o Mr. Raymond Paoella
Legal Department
Naches Building
424 E. Yakima Avenue, Suite 100
Yakima, Washington 98901

Prepared by

Huntingdon Engineering & Environmental, Inc.
2214 N. 4th Avenue
Pasco, Washington 99301
Telephone: (509) 547-1671
Telefax: (509) 547-1673

January 18, 1995

Reviewed By:

Prepared By:

Rachel Tauman
Project Manager

Gerald G. Harper
Division Manager

This document was part of the official
Administrative Record for the Yakima
Railroad Area on October 31, 1996.
Washington State
Department of Ecology.

TABLE OF CONTENTS

1.0 PROJECT DESCRIPTION	1
1.1 Introduction	1
1.2 Purpose and Scope	1
1.3 Project Background	2
2.0 SITE CHARACTERISTICS	3
2.1 Site Description	3
2.2 Geology	3
2.3 Hydrology	4
3.0 ASSESSMENT PROCEDURES	5
4.0 ASSESSMENT FINDINGS	7
4.1 Field Observations	7
4.2 Analytical Results	7
4.3 Material Disposal and Backfill	9
5.0 DISCUSSION/CONCLUSIONS	10
7.0 REPORTING REQUIREMENTS	10
8.0 LIMITATIONS	10

TABLES

Table 1 - Summary of Tank Physical Data	7
Table 2 - Summary of Analytical Results: Tank Excavation	8
Table 3 - Summary of Analytical Results: Stockpile	8

APPENDICES

- Appendix 1 - Figures
- Appendix 2 - Laboratory Results
- Appendix 3 - WDOE UST Closure/Release Documentation

1.0 PROJECT DESCRIPTION

1.1 Introduction

At the request of Mr. Pleas Green, the City of Yakima Chief of Police, Huntingdon Engineering & Environmental (Huntingdon) performed an underground storage tank site assessment of the former Goodwill Industries site. The underground storage tank was discovered during building demolition and site remediation. This report presents our findings on the decommissioning and removal of one 600 gallon underground storage tank (UST). Tank removal activities were completed on October 13, 1994.

1.2 Purpose and Scope

The purpose of this project was to assist responsible parties in complying with current Washington State Department of Ecology (WDOE) regulations and guidelines for the safe removal and decommissioning of USTs (Ecology, October 1991). Site specific objectives included: 1) safely excavating and removing the existing UST from the ground for proper disposal, 2) assessing the presence of petroleum hydrocarbons in soils by using field observation and confirmational laboratory sampling, and 3) evaluating the magnitude and extent of any discovered petroleum hydrocarbon contamination based on the assessment findings.

The following scope of services was performed for this assessment:

- ◆ An environmental professional was mobilized to the site with the appropriate equipment to perform the required site assessment. The environmental professional was registered with the WDOE to perform UST site assessments and had current health and safety training.
- ◆ The UST was removed from the ground by a state licensed excavation and UST firm using proper safety and excavation techniques. The tank and residual product were transported from the site for proper disposal.
- ◆ The removed UST was inspected for areas of severe rusting, perforations, and seam failures. Dimensions, appearance, and corrosion protection methods were noted and documented.
- ◆ The tank excavation was evaluated by our environmental professional for signs of contamination including visible free product, soil discoloration, and odor. Selected soil samples were screened with a photoionization detector (PID) to determine the presence or absence of volatile organic vapors.
- ◆ Soil samples were collected from the excavation boundaries and shipped to a Washington State approved laboratory for selective analysis of total petroleum hydrocarbons modified for diesel fuel (WTPH-D, Washington State modified EPA Method 8015). Sampling locations were chosen based on evidence of petroleum hydrocarbon contamination and

2.0 SITE CHARACTERISTICS

2.1 Site Description

The site is identified as the Yakima Goodwill Industries site and is located in the Yakima central business district in Yakima County, Washington. The present property owner is the City of Yakima. The project contacts are Mr. Pleas Green, the City of Yakima Police Chief, and Mr. Raymon Paolella, the Yakima City Attorney.

The approximate location is depicted in the Site Location Map (Appendix 1, Figure 1). An approximate legal description for the site is Lots 7 through 16, Block 53, North Yakima, southeast quarter of the northwest quarter of section 19, township 13 north, range 19 east of the Willamette Meridian, Yakima County, Washington. Based on the United States Geological Survey (USGS) 7.5 minute series topographic map of the area (Yakima West Quadrangle), the latitude is 46 degrees 35 minutes 57 seconds and the longitude is 120 degrees 30 minutes 5 seconds. The site is surrounded by small businesses and residential property. Prior to demolition activities, a single story brick building with a partial basement was the primary site structure. No remnants of the building remained after the demolition. The tank was located adjacent to the northwest corner of the building in the alley. Specific aspects of the site are shown in the General Site Plan and all measurements are tied to a monitoring well that still exists (Appendix 1, Figure 2).

2.2 Geology

The City of Yakima is situated on the western margin of the Columbia River Plateau physiographic province and near the eastern foothills of the Cascade Range. The Cascade Range and adjacent highlands are primarily composed of basalts and andesites. The Columbia Plateau is comprised of a series of flood basalts which cover most of central and eastern Washington. The basalt flows of the Columbia Basalt Group are Miocene in age, forming an extensive volcanic plateau (Camp et. al., 1982). The Columbia River flood basalts are overlain by alluvial deposits within the study area.

The predominant surficial soil type at the site has been classified as a Naches Loam by the United States Department of Agriculture. This soil formed in old alluvium on stream terraces and in valleys (USDA, 1985).

The subsurface profile over most of the site consists of a layer of silty gravel (fill material) extending to depths ranging from about 0.15 to 10.0 feet. The silty gravels are underlain by dense basalt gravel of alluvial origin. Individual subsurface layers are described in more detail on the Boring Logs in Appendix 2.

3.0 ASSESSMENT PROCEDURES

The UST was carefully uncovered and remaining product was removed. Approximately 250 gallons of liquid and sludge was removed from the tank. After inerting the tank with dry ice, the tank is cut opened and cleaned in-place. Once removed from the excavation, the tank is inspected for signs of leakage. The tank was examined for visible cracks, seam failures, severe rusting, and staining. Staining was observed on the tank and appeared to be present around the fill spout.

Product piping was not observed in the tank excavation.

After the tank was safely removed from the ground, the excavation is surveyed for stained and/or odorous soil and the presence of volatile organic vapors. Dark grey discoloration was observed in the excavation and is suggestive of soil contaminated by petroleum products. Volatile organic vapor screening procedures consisted of scanning excavated soil samples with a photoionization detector (PID), to determine if volatile organic compounds were present. Headspace samples were prepared by placing representative soil samples in a clean glass container, covering the container with aluminum foil, sealing the container, and allowing the sample to warm to approximately 75 degrees F. The headspace (air trapped in the uppermost portion of the container) of each sample was then measured with the PID to detect volatile compounds.

The headspace results are considered representative of in-situ conditions but is dependent on field conditions, including the chemical nature of the contaminant, soil moisture content and weather conditions. Screening results are used to assist field personnel in evaluating soil conditions and are not to be interpreted as actual contaminant concentrations.

Soil samples were retained for laboratory analysis based on field observations or at pre-specified locations. Soil samples were collected from suspect areas in each excavation exhibiting notable volatile organic vapor concentrations or discoloration. Soil samples were also collected from areas in the excavation associated with signs of leakage noted on the tank. Soil samples were collected from pre-specified locations including the base of the excavation and the three sidewalls (note: fourth sidewall was the concrete basement wall to the east).

Stockpiled soil removed from the excavation was also sampled. Sample locations are randomly selected with an emphasis on obtaining samples from areas of highest observable contamination. Again, if a petroleum hydrocarbon release is not suspected, the stockpile samples may be composited.

The soil samples are analyzed in accordance with WDOE guidelines at a analytical laboratory. An on-site laboratory was retained to complete the tetrachlorethene remediation activities. The mobile laboratory had capabilities of performing total petroleum hydrocarbon (TPH) 418.1 analysis. Samples were analyzed using this methodology to guide the removal of impacted soil. Since the contents of the tank was unknown, a sample also was analyzed for total petroleum hydrocarbon identification (WTPH-HCID, Washington State modified method) to qualify and partially quantify any petroleum hydrocarbon contamination which may be present. Laboratory results indicated heavy hydrocarbons were present and the TPH 418.1 method was appropriate for evaluating the tank basin.

Details of field procedures and sampling protocols used by Huntingdon personnel are outlined in our "Standard Operating Procedures for UST Site Assessments, Washington State" (Huntingdon, 1994) manual kept on file at our office. All deviations from the described site assessment procedures are described in the following sections.

4.0 ASSESSMENT FINDINGS

4.1 Field Observations

An environmental professional from Huntingdon arrived at the site to observe UST removal activities and to perform a UST site assessment on October 13, 1994. The tank had been uncovered and had been cleaned in-place. After being removed from the ground, the tank was inspected for signs of leakage. The tank appeared to be in good condition with no signs of rusting and/or pitting. Physical information pertaining to the tank is presented in Table 1.

Table 1
Summary of Tank Physical Data

Tank No.	Construction Materials	Additional Protection	Diameter (ft)	Length (ft)	Capacity (gallons)	Age (years)	Former Contents
1	Steel	Cathodic	3.4	8.5	600	Unknown	Diesel Fuel

Soil from the tank excavation was visually examined for evidence of petroleum hydrocarbon contamination. Stained and odorous soil was observed. Sampling and headspace testing of soil from the tank excavation indicated minor amounts of volatile organic vapors were present. PID readings ranged between 23 parts per million (ppm) and 27 ppm. As stated in Section 3.0, screening results are used to assist field personnel in evaluating soil conditions and are not to be interpreted as actual contaminant concentrations. The samples had been heated for a considerable amount of time and the soil moisture content may have affected these readings.

Overexcavation activities were initiated, due to the presence of stained and odorous soil. The excavation was extended to the north, south and west and to a depth of 8 feet below ground surface. Evidence of staining or odorous soil was not apparent after the overexcavation activities were complete. The final dimensions of the excavation are depicted in the Detailed Site Plan (Appendix 1, Figure 2).

4.2 Analytical Results

Representative soil samples were obtained from the boundaries of the tank excavation after overexcavation was completed and from stockpiled soil. The sample exhibiting the worst staining and odor was analyzed for total petroleum hydrocarbon identification and found to be in the range of heavy oils. All samples were analyzed by Transglobal Environmental Geosciences Northwest, Inc. Analytical results are summarized in Table 2 while the laboratory reports are contained in Appendix 2. Sample locations are shown on Figure 2 (Appendix 1).

Table 2
Summary of Analytical Results
Tank Excavation

Location ¹	Matrix	Analysis	Concentration ²
			TPH ³
Center Base 8'	Soil	TPH 418.1	14 mg/kg
N Wall 5'	Soil	TPH 418.1	66 mg/kg
S Wall 5'	Soil	TPH 418.1	116 mg/kg
W Wall 5'	Soil	TPH 418.1	83 mg/kg
W Wall Dup 5'	Soil	TPH 418.1	79 mg/kg

¹ Sample locations are characterized by area and depth from which the sample was obtained.

² Soil sample results are reported as a dry weight basis in milligrams per kilogram (mg/kg).

³ TPH = Total Petroleum Hydrocarbons corresponding to product type identified.

A < sign indicates concentrations, if present, were below practical detection limits calculated for the analytical method.

A NA indicates "not analyzed".

Laboratory results (Table 2) show that petroleum hydrocarbons were detected in each of the soil samples collected from the tank excavation but at concentration below the Model Toxic Control Act Method A action level.

Three representative soil samples were obtained from approximately 35 yds³ of stockpiled excavated material. Analytical results are summarized in Table 3 while the laboratory reports are contained in Appendix 2.

Table 3
Summary of Analytical Results
Stockpile

Sample No.	Location ¹	Matrix	Analysis	Concentration ²
				TPH ³
UST 1	Stockpile	Soil	TPH 418.1	1320
UST 2	Stockpile	Soil	TPH 418.1	24
UST 3	Stockpile	Soil	TPH 418.1	2620

¹ Sample locations are characterized by area and depth from which the sample was obtained.

² Soil sample results are reported as a dry weight basis in milligrams per kilogram (mg/kg).

³ TPH = Total Petroleum Hydrocarbons corresponding to product type identified.

A < sign indicates concentrations, if present, were below practical detection limits calculated for the analytical method.

A NA indicates "not analyzed".

This document was part of the official
Administrative Record for the Yakima
Railroad Area on October 31, 1996.
Washington State
Department of Ecology

Laboratory results (Table 3) show that total petroleum hydrocarbons were detected in the stockpile samples at elevated concentrations. Since the tank use was unknown and heavy oils were identified in the samples, additional characterization of sample 3 was completed for the eight RCRA metals and polychlorinated biphenols (PCBs). Barium was the only compound detected above action levels in the sample 3.

4.3 Material Disposal and Backfill

The removed tank and approximately 1700 gallons of residual product was transported from the site by Tri-Valley Construction for off-site disposal (Appendix 6). The stockpiled excavated material was approved by Yakima County Health District for transport and treatment at the Anderson Landfill in Yakima, Washington.

This document was part of the official
Administrative Record for the Yakima
Railroad Area on October 31, 1996.
Washington State
Department of Ecology.

5.0 DISCUSSION/CONCLUSIONS

Petroleum hydrocarbon contamination exceeding WDOE action levels in the soil surrounding the underground storage tank and confirmed a release had occurred. Overexcavation activities were successful in reducing the concentration of total petroleum hydrocarbons to acceptable levels. Stockpiled soil was approved for transport and treatment at the Anderson Landfill in Yakima, Washington.

Based on our field observations and the analytical results, the tank site appears suitable for permanent closure. Groundwater does not appear to have been impacted by the underground storage tank release based upon the analytical results for samples collected from on-site monitoring wells.

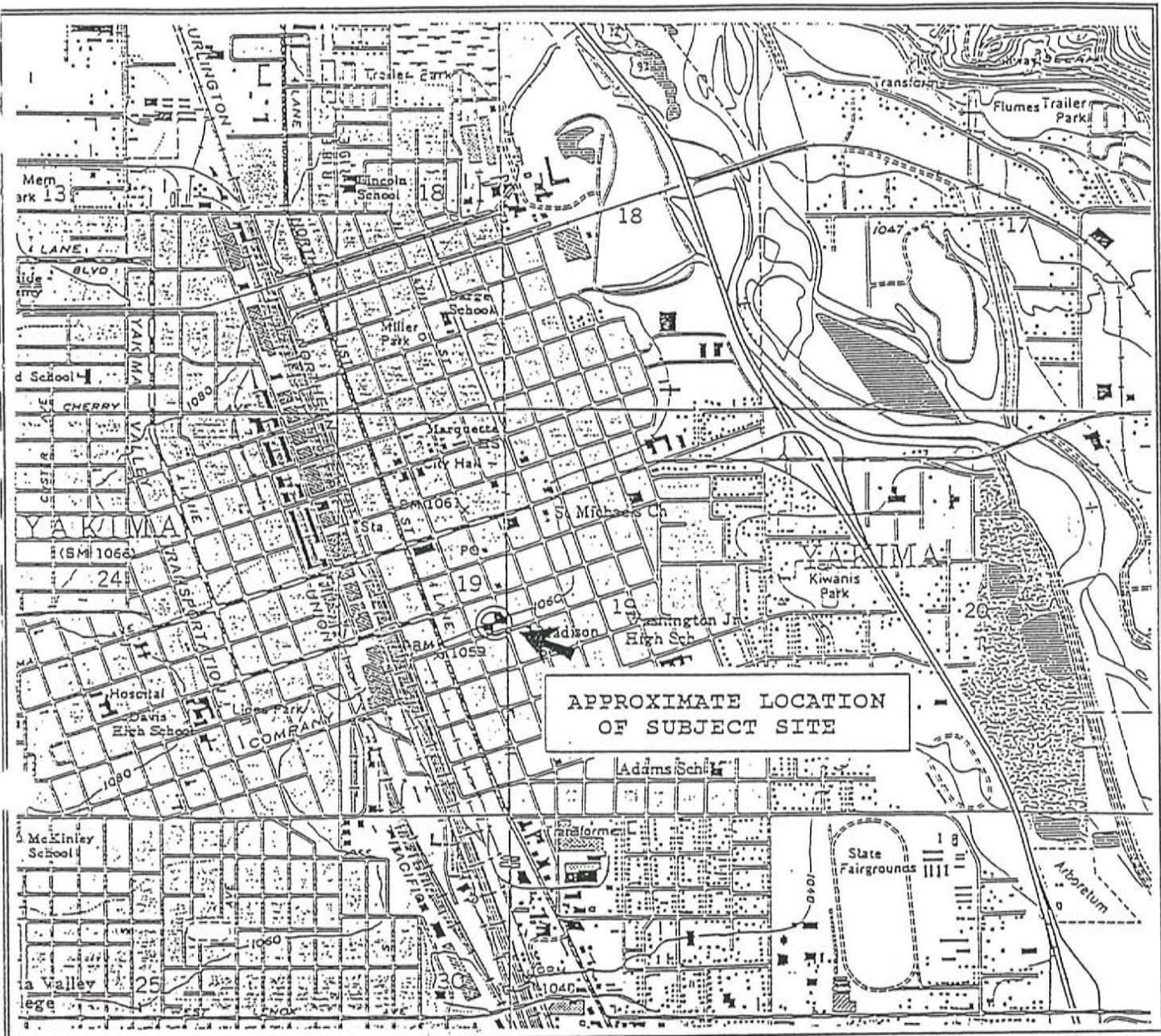
6.0 REPORTING REQUIREMENTS

In accordance with Washington Administrative Codes (WAC) Chapter 173-340-450 for Underground Storage Tanks, this report and supporting documentation (i.e. UST Permanent Closure and Site Assessment Notice, UST Site Check/Site Assessment Checklist, etc.) is required to be submitted to the UST Section at the WDOE main office in Olympia, Washington. Copies of supporting UST closure and assessment documentation are included in Appendix 8.

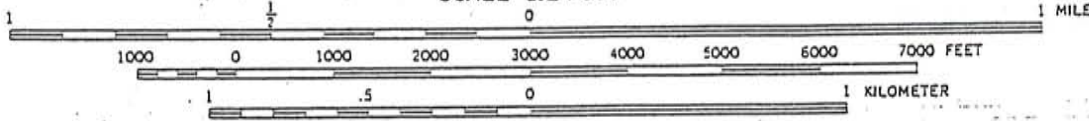
7.0 LIMITATIONS

This work was performed in accordance with the generally accepted practices of other consultants undertaking similar studies at the same time and in the same geographical area. Huntingdon observed a degree of care and skill generally exercised by other consultants under similar circumstances and conditions. Huntingdon's findings and conclusions must be considered not as scientific certainties, but as opinions based on our professional judgement concerning the significance of the data gathered during the course of monitoring. Other than this, no warranty is implied or intended.

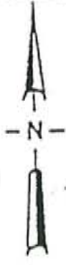
This document was part of the official
Administrative Record for the Yakima
Railroad Area on October 31, 1996.
Washington State
Department of Ecology.



SCALE 1:24 000



CONTOUR INTERVAL 20 FEET



HUNTINGDON

Job No.: 194-1969

Site Location Map
 USGS 7.5 Minute Series (Yakima East and West Quadrangles)
 Phase II Environmental Site Assessment
 Yakima Goodwill Industries Site
 Yakima, Washington

DATE: 1985	Mounted By: JB	Reviewed By: GH	SCALE: As Shown	FIGURE NO. 1
---------------	-------------------	--------------------	--------------------	-----------------

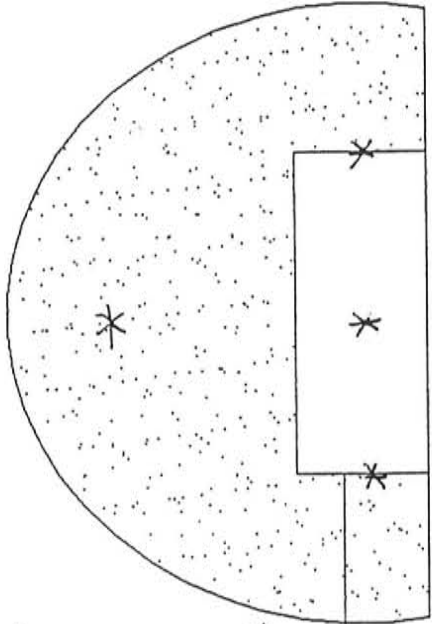
This document was part of the official
 Administrative Record for the Yakima
 Railroad Area on October 31, 1996.
 Washington State
 Department of Ecology.

APPENDIX 1

Figures

This document was part of the official
Administrative Record for the Yakima
Railroad Area on October 31, 1996.
Washington State
Department of Ecology.

N



EXCAVATION
BOUNDARY ↗

BASEMENT

3RD STREET

OLD ALLEY

69'

This document was part of the official
Administrative Record for the Yakima
Railroad Area on October 31, 1996.
Washington State
Department of Ecology.

67'



MW 2

SPRUCE STREET
SCALE



* SAMPLE LOCATION

HUNTINGDON, INC

Project No: 194-1969-1

GENERAL SITE MAP
GOODWILL INDUSTRIES SITE
222 SOUTH 3RD STREET
YAKIMA, WASHINGTON

DATE:
10-13-94

DRAWN BY:
J.P.

REVIEWED BY:
GH

SCALE:
1.1

FIGURE NO.
2

APPENDIX 2

Analytical Results

This document was part of the official
Administrative Record for the Yakima
Railroad Area on October 31, 1996.
Washington State
Department of Ecology.

GOODWILL PROJECT
 Yakima, Washington
 Huntingdon Engineering & Environmental, Inc.
 Project No.: 87-921

Heavy Petroleum Hydrocarbons in soil by WTPH-418.1

Sample Number	Date	TPH mg/kg
M Blank	10/13/94	nd
UST1	10/13/94	1320
UST2	10/13/94	34
UST3	10/13/94	2620
UST4 Base	10/13/94	14
N.Side Wall	10/13/94	66
S.Side Wall	10/13/94	116
W.Side Wall	10/13/94	83
W.Side Wall Dup	10/13/94	79
Method Detection Limit		10

} Stockpile Samples

"nd" indicates Not Detected at the list

This document was part of the official
 Administrative Record for the Yakima
 Railroad Area on October 31, 1996.
 Washington State
 Department of Ecology.

GOODWILL PROJECT
 Yakima, Washington
 Huntingdon Engineering & Environmental, Inc.
 Project No.: 87-921

Hydrocarbon Identification by WTPH-HCID for Soils

Sample Number	Date	Recovery %	Gasoline mg/kg	Diesel mg/kg	Heavy Oil mg/kg
Meth. Blank	10/14/94	89	nd	nd	nd
UST 3	10/14/94	81	nd	nd	D
UST 3 Dup	10/14/94	100	nd	nd	D
Method Detection Limits			20	50	100

"nd" Indicates not detected at the listed detection limit.

"D" Indicates detected above the listed detection limit.

GOODWILL PROJECT

Yakima, Washington

Huntingdon Engineering & Environmental, Inc.

Project No.: 87-921

Polychlorinated Biphenyls (PCBs) in Soils (EPA Method 8080)

Sample Number	Date Analyzed	Recovery (%)	1221 mg/kg	1232 mg/kg	1242 mg/kg	1248 mg/kg	1254 mg/kg	1260 mg/kg
Meth. Blank	10/14/94	111	nd	nd	nd	nd	nd	nd
UST 3	10/14/94	92	nd	nd	nd	nd	nd	nd
Detection Limit			0.05	0.05	0.05	0.05	0.05	0.05

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference peaks prevent determination.

TRANSGLOBAL ENVIRONMENTAL GEOSCIENCES NORTHWEST INC.

GOODWILL PROJECT

Yakima, Washington

Huntingdon Engineering & Environmental, Inc.

Project No.: 87-921

Total Metals in Soil by EPA 7000 Series

Sample Number	Date	Cd mg/kg	Pb mg/kg	Ag mg/kg	As mg/kg	Se mg/kg	Ba mg/kg	Hg mg/kg	Cr mg/kg
Meth. Blank	10/14/94	nd	nd	nd	nd	nd	nd	nd	nd
UST 3	10/14/94	1.2	95	nd	nd	nd	963	nd	8
UST 3 Dup	10/14/94	1	102	nd	nd	nd	836	nd	9
Method Detection Limit		1	5	1	5	5	10	0.1	5

"nd" Indicates not detected at the listed detection limit.

This document was part of the official
 Administrative Record for the Yakima
 Railroad Area on October 31, 1996.
 Washington State
 Department of Ecology.

APPENDIX 3

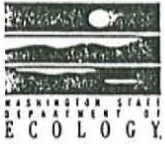
UST Site Assessment Form

*This document was part of the official
Administrative Record for the Yakima
Railroad Area on October 31, 1996.
Washington State
Department of Ecology.*

REFERENCES:

- Alt, D. D., & Hyndman, D. W. (1984). Roadside Geology of Oregon. Missoula, Montana: Mountain Press Publishing Co.
- Campbell, N.P., (1979), Surficial Geologic Map of the Yakima Quad, Washington, Washington State Department of Natural Resources, Division of Geology and Earth Resources, Olympia, Washington: State/Federal document.
- Ecology, Washington State Department of (October 1991), Washington Administrative Codes for Underground Storage Tank Regulations. WAC 173-360, Olympia, Washington: State document.
- Ecology, Washington State Department of (October 1992), Guidance for Site Checks and Site Assessments for Underground Storage Tanks. Underground Storage Tank Program. Olympia, Washington: State Document.
- Soil Conservation Service (1985), Soil Survey of Yakima County Area Washington. U.S. Department of Agriculture, Olympia Washington: State/Federal Document
- USGS, 1965, United States Geological Survey 7.5 Minute Series Topographic Map, West Yakima Quadrangle, Yakima County, Washington, Washington, D.C.: United States Geological Survey.

This document was part of the official
Administrative Record for the Yakima
Railroad Area on October 31, 1996.
Washington State
Department of Ecology.



UNDERGROUND STORAGE TANK Site Check/Site Assessment Checklist

For 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): None *Tank Not Registered*

Site/Business Name: Goodwill Industries

Site Address: 222 S. 3rd Street Telephone: () Disconnected

Yakima WA

City State ZIP-Code

TANK INFORMATION

Tank ID No.	Tank Capacity	Substance Stored
	<u>600 gallons</u>	<u>Heavy 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): _____

This document was part of the official
Administrative Record for the Yakima
Railroad Area on October 31, 1996.
Washington State
Department of Ecology.

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.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. A brief summary of information obtained during the site inspection is provided. (see Section 3.2 in the Site Assessment Guidance)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. A summary of UST system data is provided. (see Section 3.1)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4. The soils characteristics at the UST site are described. (see Section 5.2)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5. Is there apparent groundwater in the tank excavation?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6. A brief description of the surrounding land is provided. (see Section 3.1)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8. A sketch or sketches showing the following items is provided:		
- location and ID number for all field samples collected	<input checked="" type="checkbox"/>	<input type="checkbox"/>
- groundwater samples distinguished from soil samples (if applicable)	NA	NA
- samples collected from stockpiled excavated soil	<input checked="" type="checkbox"/>	<input type="checkbox"/>
- tank and piping locations and limits of excavation pit	<input checked="" type="checkbox"/>	<input type="checkbox"/>
- adjacent structures and streets	<input checked="" type="checkbox"/>	<input type="checkbox"/>
- approximate locations of any on-site and nearby utilities	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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)	NA	NA
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.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
11. Any factors that may have compromised the quality of the data or validity of the results are described.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
12. The results of this site check/site assessment indicate that a confirmed release of regulated substance has occurred.	<input checked="" type="checkbox"/>	<input type="checkbox"/>

SITE ASSESSOR INFORMATION

Gerald Harper PERSON REGISTERED WITH ECOLOGY Huntingdon FIRM AFFILIATED WITH

BUSINESS ADDRESS: Huntingdon Eng + Env 2214 N 4th Ave TELEPHONE: (509) 547-1671

Pasco CITY WA STATE 99301 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.

1-25-95
Date

[Signature]
Signature of Person Registered with Ecology

This document was part of the official Administrative Record for the Yakima Railroad Area on October 31, 1996.
Washington State Department of Ecology.